

General Information

Programs

| | |
|--------------------|--|
| Mon 31 Jul: | Short Courses |
| Tue 1 Aug: | Plenary and Technical Sessions & Welcome Reception |
| Wed 2 Aug: | Technical Sessions & Conference Banquet |
| Thu 3 Aug: | Technical Sessions |
| Fri 4 Aug: | Postdeadline Paper Session |

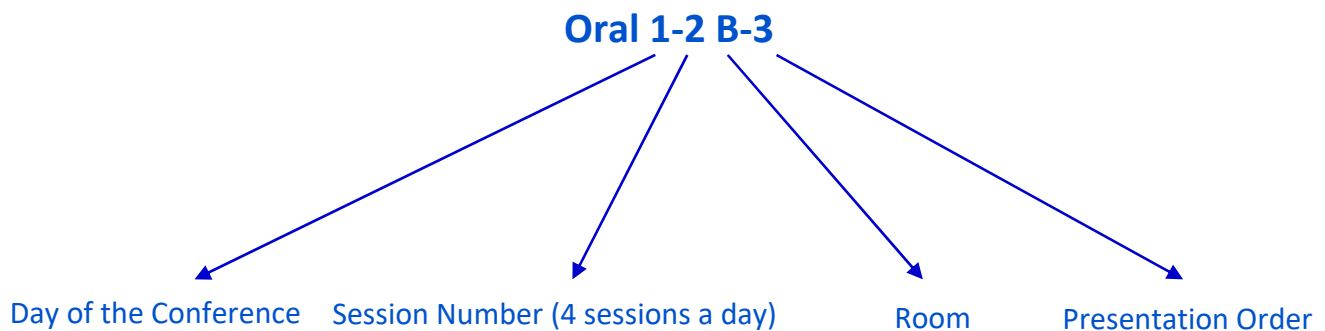
Exhibition

| | |
|---------------|--------------|
| Date: | 1st Aug 2017 |
| Time: | 14.00-18.00 |
| Venue: | Room 4701 |

| | |
|---------------|----------------------------|
| Date: | 2nd Aug 2017, 3rd Aug 2017 |
| Time: | 8.30-18.00 |
| Venue: | Room 4701 |

All attendees are welcomed to visit the exhibition and build professional contacts.

Explanation of Session Codes



Presentation Guideline

Instructions for Presenters

Speakers are requested to be in their respective session rooms at least 10 minutes prior to the commencement of each session.

The duration of a plenary/keynote presentation is 45 minutes. This includes 35 minutes for the presentation itself and 5 minutes for Q&A. The duration of an invited presentation is 30 minutes. This includes 25 minutes for the presentation itself and 5 minutes for Q&A. The duration of a regular presentation is 15 minutes. This includes 12 minutes for the presentation itself and 3 minutes for Q&A. We would appreciate if all presenters can adhere strictly to this time limit.

Presentation must be carried out using **Microsoft PowerPoint or PDF**. No slide projectors will be made available.

Speakers should bring their presentation materials in a thumb-drive and upload the files from 08:00—08:30 daily or during the tea breaks or lunches.

Instructions for Presiders

We provide a small bell in every session room. Please ring a warning bell as follows

Invited talk: one ring at 12 minutes, two rings at 15 minutes (20 min talk)

one ring at 20 minutes, two rings at 25 minutes (30 min talk)

Regular talk: one ring at 10 minutes, two rings at 12 minutes

It is a good idea to remind your speakers at the start of the session that you will be ringing this bell. Please leave this bell in the room for the next presider.

Please remember the time frame. Keeping the Program to time is very important. Please be aware of the time periods speakers have been designed to present.

Poster Sessions

Four 90 minutes poster sessions will be held in room 4603-4604. Poster presenters are requested to put up their respective posters 1 hour prior to the commencement of each poster session.

Poster session 1 10:15—11:45 Wed, 02.Aug.2017

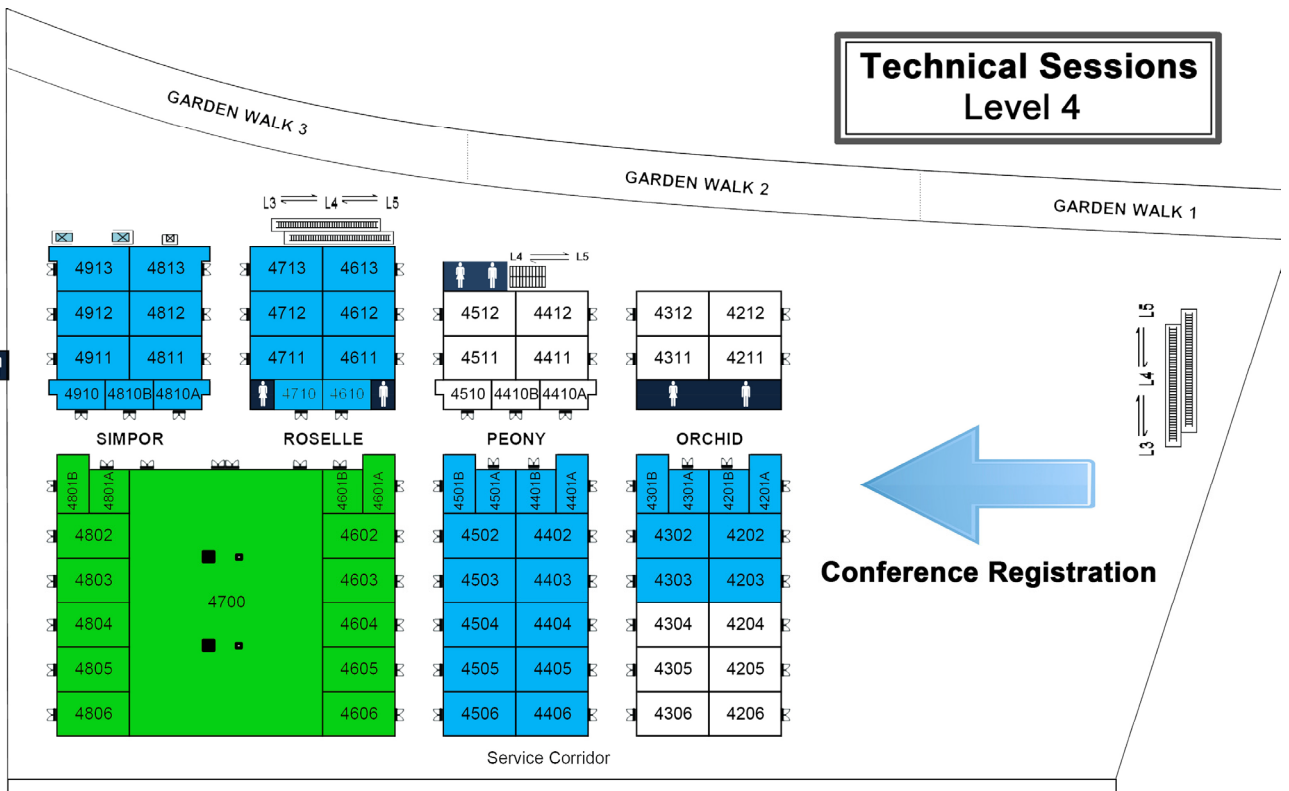
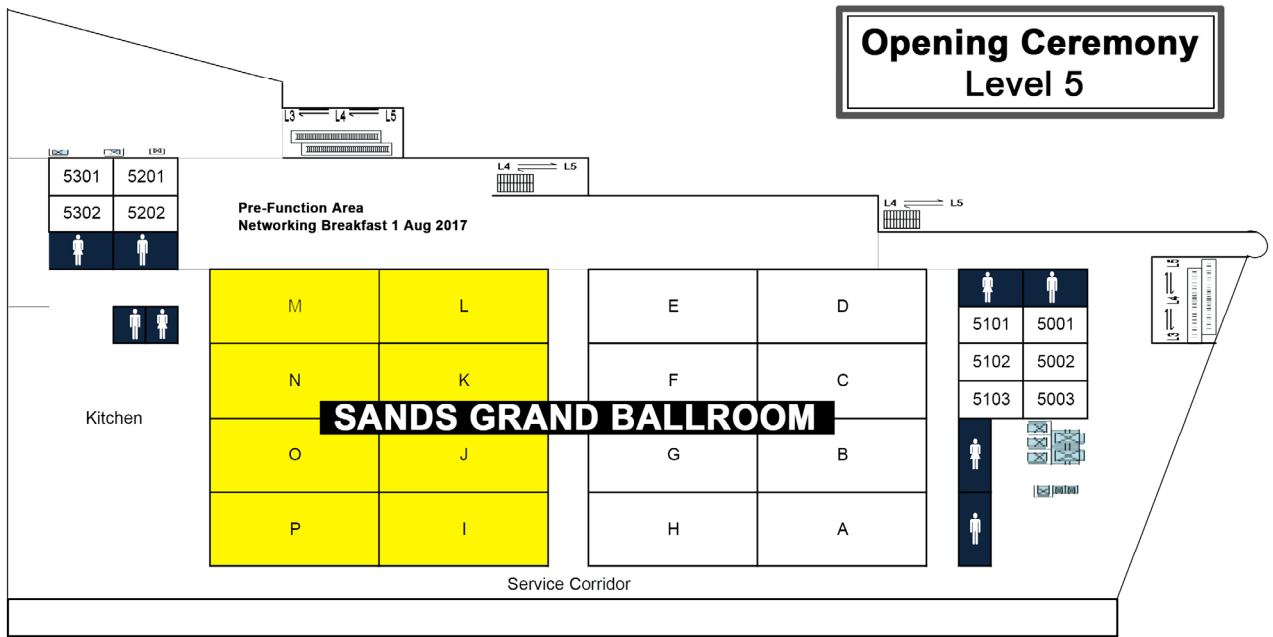
Poster session 2 15:45—17:15 Wed, 02. Aug.2017

Poster session 3 10:15—11:45 Thu, 03. Aug.2017

Poster session 4 15:45—17:15 Thu, 03. Aug.2017

At least one author should be present for each poster during the poster session.

Conference Venue Floor Plan



Plenary Speakers



The Story of Photonics and Single Molecules, and the Challenges and Promises of Super-Resolution Microscopy and Dynamical Tracking in Biological Imaging

William E. Moerner, Nobel Laureate 2014, *Stanford University, USA*

Roughly 30 years ago, low temperature experiments aimed at establishing the ultimate limits to optical storage in solids led to the first optical detection and spectroscopy of a single molecule in the condensed phase. At this unexplored ultimate limit, many surprises occurred where single molecules showed both spontaneous changes (blinking) and light-driven control of emission, properties that were also observed in 1997 at room temperature with single green fluorescent protein variants. In 2006, PALM and subsequent approaches showed that the optical diffraction limit of ~ 200 nm can be circumvented to achieve super-resolution fluorescence microscopy, or nanoscopy, with relatively nonperturbative visible light. Essential to this is the combination of single-molecule fluorescence imaging with active control of the emitting concentration and sequential localization of single fluorophores decorating a structure. Super-resolution microscopy has opened up a new frontier in which biological structures and behavior can be observed in live cells with resolutions down to 20-40 nm and below, and many examples abound. Current methods development research addresses ways to image in thick cells and to extract more information from each single molecule such as 3D position and orientation, as well as to assure not only precision, but also accuracy. Still, it is worth noting that in spite of all the interest in super-resolution, even in the “conventional” single-molecule tracking regime where the motions of individual biomolecules are recorded in solution or in cells rather than the shapes of extended structures, much can be learned about biological dynamical processes when ensemble averaging is removed.

W. E. (William Esco) Moerner, the Harry S. Mosher Professor of Chemistry and Professor, by courtesy, of Applied Physics at Stanford University, conducts research in physical chemistry and chemical physics of single molecules, single-molecule biophysics, super-resolution imaging and tracking in cells, and trapping of single molecules in solution. His interests span methods of precise quantitation of single-molecule properties, to strategies for three-dimensional imaging and tracking of single molecules, to applications of single-molecule measurements to understand biological processes in cells, to observations of the photodynamics of single photosynthetic proteins and enzymes. He has been elected Fellow/Member of the NAS, American Academy of Arts and Sciences, AAAS, ACS, APS, and OSA. Major awards include the Earle K. Plyler Prize for Molecular Spectroscopy, the Irving Langmuir Prize in Chemical Physics, the Pittsburgh Spectroscopy Award, the Peter Debye Award in Physical Chemistry, the Wolf Prize in Chemistry, and the 2014 Nobel Prize in Chemistry.



Controlling Light on the Nanoscale

John B. Pendry, *Imperial College London, UK*

Our intuitive understanding of light has its foundation in the ray approximation and is intimately connected with our vision: as far as our eyes are concerned light behaves like a stream of particles. Here we look inside the wavelength and study the properties of plasmonic structures with dimensions of just a few nanometres: a tenth or even a hundredth of the wavelength of visible light, where the ray picture fails utterly. In this talk we show how the new concept of transformation optics that manipulates electric and magnetic field lines rather than rays can provide an equally intuitive understanding of sub wavelength phenomena and at the same time be an exact description at the level of Maxwell's equations. The concepts are applied to a number of plasmonic structures.

Professor Sir John Pendry is a condensed matter theorist at Imperial College, London. He received his Ph.D. from the University of Cambridge in 1969 and worked at Bell Labs from 1972-1973. He has held his professorship in the Blackett Laboratory (Imperial College, London) since 1981. Shortly after, he became the head of the Physics Department and Principle (Dean) of faculty of Natural Sciences. He is currently the Chair in Theoretical Solid State Physics. Prof Pendry is a Fellow of many academic societies, including the Royal Society, the National Academy of Sciences of United States, American Academy of Arts and Sciences, the Institute of Physics (IOP), the Optical Society of America (OSA), American Physical Society (APS), etc. In 2004, he was knighted in the British Honours for his services to science.

Professor Pendry is one of the most highly cited British Scientists. He is recognized worldwide for his pioneering work on the structure of surfaces and their interaction with electrons and photons. He has also worked extensively on transport in disordered systems where he produced a complete theory of the statistics of transport in one-dimensional systems. He founded the field of “metamaterials”, a concept for engineered structures whose electromagnetic properties depend on their internal structure rather than their chemical constitution. He discovered that a perfect lens manufactured from negatively refracting material would circumvent Abbe's diffraction limit to spatial resolution, which has stood for more than a century. His most recent innovation of transformation optics gives the metamaterial specifications required to rearrange electromagnetic field configurations at will. In its simplest form, the theory shows how we can direct field lines around a given obstacle and thus provide a cloak of invisibility. Several realizations of this concept have been built some operating at radar and others at visible wavelengths.

Conference Program

Professor Pendry has won numerous awards, including the Dirac Medal in 1996, the Royal Medal in 2006, the UNESCO-Niels Bohr gold medal in 2009, the Isaac Newton Medal in 2013, the Kavli Prize in Nanoscience in 2014, the Dan David Prize in 2016, etc.



Optical Coherence Tomography: from Healthcare Idea to Healthcare Impact

Eric A. Swanson, *Acacia Communications, USA*

The commercialization and growth of OCT which has occurred over the past 25 years has been highly impactful, scientifically, clinically, and economically. Many factors have helped drive this success starting with the clinical need for new cost-effective high-resolution minimallyinvasive imaging solutions for various diagnostic and therapeutic applications. But equally important to this success was the intertwined role of researchers, engineers, clinicians, professional societies, government agencies, government funding, regulatory bodies, entrepreneurs, venture capitalists, and small and large corporate entities within biomedical optics industry and other industries. This talk will review some of the history of the commercialization of OCT and illustrate how the benefits of a healthy ecosystem and the power of tight collaboration across engineering, clinical medicine, and for-profit business and healthcare organizations overcame the complex time-consuming process to close the gap between a healthcare idea and healthcare impact

Eric Swanson is an active participant in a variety of entrepreneurial, industrial, academic, and volunteer activities. He chairs the board of directors for Acacia Communications and is a member of the boards of directors for NinePoint Medical and Curata. He serves on the governing board of the Danish National Quantum Innovation Center is an affiliate of the MIT Deshpande Center for Entrepreneurship and MIT Translational Fellows Program.

Mr. Swanson is a co-founder or founding board member of five start-up companies: Advanced Ophthalmic Devices (acquired by Zeiss Meditec in 1994), Lightlab Imaging (acquired by St. Jude Medical in 2009), Sycamore Networks (Nasdaq IPO 1999), Acacia Communication (Nasdaq IPO 2016), and Curata Incorporated (private). These companies have evolved over time and shipped well over \$1B in products around the world. Mr. Swanson performed research and development at Massachusetts Institute of Technology Lincoln Laboratory for 16 years. He served in several technical and managerial roles of an R&D group working on fiber optical networks, inter-satellite laser communication systems, and optical coherence tomography.

He has co-authored 81 journal articles, 142 conference presentations, 40 US patents, and 7 book chapters. In 2002 he was elected a Fellow of OSA for pioneering contributions to the fields of intersatellite laser communication systems, fiber optic communication networks, and biomedical optical imaging. In 2017, he was elected a Fellow of IEEE for contributions to OCT and leadership in optical networking. He is a co-recipient of the 2002 Rank Prize, the 2012 António Champalimaud Vision Award, and the 2017 Russ Prize. Mr. Swanson holds a BS summa cum laude in electrical engineering from the University of Massachusetts Amherst and an MS in electrical engineering from MIT.

Keynote Speakers



Optical Superoscillation Technologies: Sub diffraction Focusing and Label-free Imaging

Nikolay Zheludev, *University of Southampton, UK*

Superoscillations is a powerful concept that offers sub-diffraction focusing and imaging across the electromagnetic spectrum including label free bio-imaging.

Professor Nikolay Zheludev, PhD, DSc is a world leader in the field of nanophotonics and metamaterials. Professor Zheludev received MSc, PhD and DSc from Moscow State University. His international research careers continued at the University of Southampton in the UK where he became Deputy Director (Physics) of the world-famous Optoelectronics Research Centre and Director of the Centre for Photonic Metamaterials. At NTU Professor Zheludev is founding director of the Centre for Disruptive Photonic Technologies and co-director of The Photonics Institute. His awards include a Senior Leverhulme Research Fellow awarded by the Leverhulme Trust to “outstanding researchers”; a Senior Research Professorship of the Engineering and Physical Science Research Council, UK that is “awarded to outstanding academic scientists and engineers of international repute” and a Royal Society Wolfson Research Fellowship and Merit Award - given to “respected scientists of outstanding achievement and potential”. Professor Zheludev is Fellow of the Institute of Physics (London), Fellow of the European Physical Society and Fellow of the Optical Society of America. Professor Zheludev is the Editor-in-Chief of “Journal of Optics” (IOP Publishing) and advisor to the Nature Publishing Group.



Real-time Extremes - Single Shot Measurements of Ultrafast Instabilities and Rogue Waves in Nonlinear Optics

John Dudley, *Univ of Franche-Comte, France*

This paper will review recent progress in the understanding of extreme instabilities and “rogue waves” in optics using advanced real-time measurements in both the spectral and temporal domains.

Originally from New Zealand, John Dudley is currently Professor at the University of Franche-Comté in Besançon, France in the Institut FEMTO-ST, France’s largest national laboratory in Engineering Science. His research covers diverse areas in nonlinear and ultrafast optics, and he has published extensively in the fields of source development, ultrafast measurement techniques, supercontinuum generation and optical instabilities. He is a Fellow of the Optical Society of America, the IEEE, and the European Optical Society and has received a number of other awards and distinctions for his work.



Subcellular surgery and nanosurgery

Eric Mazur, *Harvard University, USA*

We use femtosecond laser pulses to manipulate sub-cellular structures inside live and fixed cells. Using only a few nanojoules of laser pulse energy, we are able to selectively disrupt individual mitochondria in live bovine capillary epithelial cells, and cleave single actin fibers in the cell cytoskeleton network of fixed human fibro-blast cells. We have also used the technique to micromanipulate the neural network of *C. Elegans*, a small nematode. Our laser scalpel can snip individual axons without causing any damage to surrounding tissue, allowing us to study the function of individual neurons with a precision that was not achievable before.

Eric Mazur is the Balkanski Professor of Physics and Applied Physics and Dean of Applied Physics at Harvard University, Member of the Faculty of Education at the Harvard Graduate School of Education, and President of the Optical Society. Meanwhile, Mazur is an internationally recognized educational innovator, and a sought-after speaker.

Eric Mazur’s research group uses ultra-short laser pulses to study ultrafast dynamics in physical systems and to create extreme non-equilibrium conditions in matter. For instance, ultrashort laser pulses provide a direct view of the ultrafast carrier and lattice dynamics in photo excited solids. A better understanding of electron behavior in solids is important for both microelectronics and micromachining applications. Mazur’s group also uses these short laser pulses to coherently control the lattice dynamics in solids on the femtosecond time scale.



The Continuing Story of Vertical Cavity Surface Emitting Lasers

Kent D. Choquette, *University of Illinois, USA*

The development of vertical cavity surface emitting lasers (VCSELs) and their applications will be briefly reviewed. In particular, the current and future role of VCSELs for optical interconnects will be discussed, which have provided the infrastructure for the internet and data centers. The present generation of oxide-confined VCSELs as well as possible future directions of microcavity laser research

will be discussed.

Kent D. Choquette received B.S. degrees in Engineering Physics and Applied Mathematics from the University of Colorado-Boulder and the M.S. and Ph.D. degrees in Materials Science from the University of Wisconsin-Madison. From 1990 to 1992 he held a postdoctoral appointment at AT&T Bell Laboratories, Murray Hill, NJ. He then joined Sandia National Laboratories in Albuquerque, NM, and from 1993 to 2000 was a Principal Member of Technical Staff. He became a Professor in the Electrical and Computer Engineering Department at the University of Illinois in 2000. His Photonic Device Research Group is centered around the design, fabrication, characterization, and applications of vertical cavity surface-emitting lasers (VCSELs), photonic crystal light sources, nanofabrication technologies, and hybrid integration techniques for photonic devices.

Dr. Choquette has authored over 300 technical publications and three book chapters, and has presented numerous invited talks and tutorials. He is an Associate Editor of the *Journal of Lightwave Technology*, and served in the past as Associate Editor of *IEEE Journal of Quantum Electronics*, and *IEEE Photonic Technology Letters*, and as a Guest Editor of *IEEE Journal of Selected Topics in Quantum Electronics*. He is a Fellow of the IEEE, a Fellow of the Optical Society of America, a Fellow of SPIE, and a Fellow of the American Association for the Advancement of Science.



Gas, Glass & Light: 25 Years of Photonic Crystal Fibres

Philip Russell, *Max-Planck Institute for the Science of Light, Germany*

Over the past quarter century, photonic crystal fibres have triggered a range of unique advances in light-matter interactions, including for example ultrabroadband supercontinuum generation, enhanced optomechanical nonlinearities, OAM-preserving twisted PCFs and efficient gas-based pulse compressors and ultraviolet light sources.

Professor Philip Russell is a founding Director of the Max-Planck Institute for the Science of Light (MPL), which began operations in January 2009. Since 2005 he has also held the Krupp Chair in Experimental Physics at the University of Erlangen-Nuremberg. He obtained his D.Phil. degree in 1979 at the University of Oxford, spending three years as a Research Fellow at Oriel College, Oxford. In 1982 and 1983 he was a Humboldt Fellow at the Technical University Hamburg-Harburg (Germany), and from 1984 to 1986 he worked at the University of Nice (France) and the IBM TJ Watson Research Center in Yorktown Heights, New York. From 1986 to 1996 he was based mainly at the University of Southampton, first of all in the Optical Fibre Group and then in the Optoelectronics Research Centre. From 1996 to 2005 he was professor in the Department of Physics at the University of Bath, where he established the Centre for Photonics and Photonic Materials. His research interests currently focus on scientific applications of photonic crystal fibres and related structures. He is a Fellow of the Royal Society and The Optical Society (OSA) and has won several international awards for his research including the 2000 OSA Joseph Fraunhofer Award/Robert M. Burley Prize, the 2005 Thomas Young Prize of the Institute for Physics (UK), the 2005 Körber Prize for European Science, the 2013 EPS Prize for Research into the Science of Light, the 2014 Berthold Leibinger Zukunftspreis and the 2015 IEEE Photonics Award. He was OSA's President in 2015, the International Year of Light.



Cognitive Optical Networks

Vincent W. S. Chan, *Massachusetts Institute of Technology, USA*

We will look towards the future evolution of optical networks from architecture to services. Emphasis will be placed on disruptive architectural changes driven by new applications.

Vincent W. S. Chan, the Joan and Irwin Jacobs Chair Professor of EECS, MIT, received his BS (71), MS (71), EE (72), and Ph.D. (74) degrees in EE all from MIT. From 1974 to 1977, he was an assistant professor, EE, at Cornell University. He joined MIT Lincoln Laboratory in 1977 and had been Division Head of the Communications and Information Technology Division until becoming the Director of the Laboratory for Information and Decision Systems (1999–2007) at MIT. He founded and is currently a member of the Claude E. Shannon Communication and Network Group at MIT's Research Laboratory of Electronics of.

In July 1983, he initiated the Laser Intersatellite Transmission Experiment Program and in 1997, the follow-on GeoLITE Program. In 1989, he led the All-Optical-Network Consortium (1990-1997) formed among MIT, AT&T and the Digital Equipment Corporation. He also served as PI of the Next Generation Internet Consortium, ONRAMP (1998-2003) formed among AT&T, Cabletron, MIT, Nortel and JDS, and a Satellite Networking Research Consortium funded by NSF formed

between MIT, Motorola, Teledesic and Globalstar. He has founded in 2009 and served as the Editor-in-Chief of the Journal of Optical Communications and Networking until 2012. He has served in many government advisory boards and is currently a Member of the Corporation of Draper Laboratory. He is an elected member of Eta-Kappa-Nu, Tau-Beta-Pi and Sigma-Xi, and the Fellow of the IEEE and the Optical Society of America.

Throughout his career, Professor Chan has spent his research focus on communication and networks, particularly on free space and fiber optical communication and networks and satellite communications. His work has led the way to the first successful ultra-high rate laser communication demonstration in space and early deployment of WDM optical networks. His recent research emphasis is on high speed and agile heterogeneous (satcom, wireless and fiber) network architectures with stringent performance demands.



Advanced 2D Materials for Photonics

Antonio H. Castro Neto, *National University of Singapore, Singapore*

I am going to discuss the latest advances in 2D materials for photonics and the progress made in this area at the Centre for Advanced 2D Materials (CA2DM) at the National University of Singapore (NUS).

Prof. Antonio H. Castro Neto got his Ph.D. in Physics at University of Illinois at Urbana- Champaign in 1994. In 1994, he moved to the Institute for Theoretical Physics at the University of California at Santa Barbara as a postdoctoral fellow. In 1995, he became an Assistant Professor at University of California at Riverside. In 2000, he moved to Boston University as Professor of Physics. At Boston, Prof. Castro Neto became one of the leading theorists in the study of graphene and other two dimensional materials. Since 2010, Prof. Castro Neto is the Director of the Graphene Research Center and in 2014 he became Director of the Centre for Advanced 2D Materials funded by the National Research Foundation of Singapore. Prof. Castro Neto is a Distinguished Professor in the Physics Department and Professor at the Department of Electrical and Computer Engineering and the Department of Material Science Engineering at the National University of Singapore.

In 2003, Prof. Castro Neto was elected a fellow of the American Physical Society (APS) and in 2011 he was elected a fellow of the American Association for the Advancement of Science (AAAS). He is the Colloquia Editor for Reviews of Modern Physics, and member of the Editorial Board of “Chinese Physics B” and “Acta Physica Sinica”. Prof. Castro Neto was awarded the 11th Ross J. Martin Award by the University of Illinois at Urbana-Champaign, the University of California Regent Fellowship, the Alfred P. Sloan Research Fellowship, the visiting Miller Professorship by the University of California, Berkeley, the visiting Gordon Godfrey Professorship by the University of New South Wales, Australia, the Distinguished Visiting Chair Professor at the SKKU Advanced Institute of Nano-Technology (SAINT), South Korea, the Hsun Lee Lecture Award by the Institute of Metal Research at the Chinese Academy of Sciences, and Kramers Professorship at the University of Utrecht, the Netherlands.

Prof. Castro Neto has authored more than 300 manuscripts and has published in prestigious journals including Science, Nature, Nature Materials, Nature Physics, and Physical Review Letters, and has over 30,000 citations. Prof. Castro Neto has given more than 300 seminars worldwide. Prof. Castro Neto has co-developed more than 20 invention disclosures and patents. In 2016, Prof. Castro Neto founded 2D Materials (2DM) Pte Ltd in Singapore for the development of graphene applications.



Overcoming Hysteresis by Understanding the Formation of Interface Barriers – towards Engineering Environmentally Stable and Efficient Perovskite Cells and Modules

Christoph Josef Brabec, *University of Erlangen-Nuremberg, Germany*

Thin-film solar cells based on hybrid organo-halide lead perovskites achieved power conversion efficiency exceeding 22%. One major bottleneck allowing to drive this technology further towards commercialization are the interfacial losses at the hole and/or electron transporting contacts in state-of-art devices. We recently demonstrated that hysteresis is the direct consequence of erroneous interface design. By inserting a thin layer of fullerenes, we are able to manipulate the first monolayer of the perovskite such to reduce the charge carrier injection barrier. A detailed investigation of the interface reveals a complex mechanism allowing ionic charge compensation across the interface. In combination with engineering an advanced, low cost and dopand free top interface, we increased the efficiency of hysteresis free, regular planar solar cells, processed at low temperature close to 20 %. Combining such stacks with corrosion resistant, metal free top electrodes results in 1000’s of hours light stability under inert atmosphere. Novel processing concepts to convert such efficient cell stacks into fully solution processed tandem cells or module assemblies are introduced and benchmarked vs classical vacuum based metallization.

Professor Christoph J. Brabec is holding the chair “materials for electronics and energy technology (i-MEET)” at the materials science of the Friedrich Alexander University Erlangen-Nürnberg. Further, he is the scientific director of the Erlangen division of the Bavarian research institute for renewable energy (ZAE Bayern, Erlangen), board member of the ZAE Bavaria and board member of the Energy Campus Nurnberg. He received his PhD (1995) in physical chemistry from

Conference Program

Linz university, joined the group of Prof Alan Heeger at UCSB for a sabbatical, and continued to work on all aspects of organic semiconductor spectroscopy as assistant professor at Linz university with Prof. Serdar Sariciftci. He joined the SIEMENS research labs as project leader for organic semiconductor devices in 2001, finished his habilitation in physical chemistry in 2003 at Linz university and joined Konarka in 2004, where he was holding the position of the CTO before joining university. He is author and co-author of more than 300 papers and nearly 100 patents and patent applications and has Hirsch index of > 70. His research interests are (i) organic photovoltaics, (ii) all aspects of solution processed semiconductors and (iii) technologies for renewable energy scenarios.



Exotic Nanophotonic Behavior in Systems of Reduced Dimensionality

Marin Soljačić, *Massachusetts Institute of Technology, USA*

Systems of reduced dimensionality can enable a variety of novel nanophotonic phenomena. Some of our recent investigation in this field will be presented.

Professor Marin Soljačić received a BsE degree in physics and a BsE degree in electrical engineering from MIT in 1996. He earned his PhD in physics at Princeton University in 2000. In September 2005, he became an Assistant Professor of Physics at MIT; in July 2010, an Associate Professor; and in July 2011 a Full Professor. He is also one of the founders of WiTricity Corporation (2007). His main research interests are in electromagnetic phenomena, focusing on nanophotonics, non-linear optics, and wireless power transfer. He has received numerous awards for his work, including the Adolph Lomb medal (2005), the TR35 award from the Technology Review magazine (2006), and the MacArthur Fellowship (2008).



High Contrast Metastructures and Photonic Crystals

Connie Chang-Hasnain, *University of California, Berkeley, USA*

High-contrast metastructures and photonic crystals are promising for integrated photonic circuits. Despite similarities in physical appearances due to subwavelength periodic structures, there exist significant differences in theoretical analyses, design approaches, and device applications. This talk will provide a comprehensive review.

Connie Chang-Hasnain is Associate Dean for Strategic Alliances of College of Engineering and Whinnery Distinguished Chair Professor in Electrical Engineering and Computer Sciences, at the University of California, Berkeley. She has been the Founding Co-Director of Tsinghua-Berkeley Shenzhen Institute since 2015. She is also the Chief Academic Officer of Berkeley Education Alliance for Research in Singapore (BEARS) and Proram Leader of BEARS' SinBeRISE (Singapore Berkeley Research Initiative on Sustainable Energy) program since April 2015. Prof. Chang-Hasnain received her Ph.D. from UC Berkeley in 1987. Prior to joining the Berkeley faculty, Dr. Chang-Hasnain was a member of the technical staff at Bellcore (1987–1992) and Assistant Professor of Electrical Engineering at Stanford University (1992–1995).

Professor Chang-Hasnain has been honored with many awards including the UNESCO Medal for the Development of Nanoscience and Nanotechnologies (2015), IEEE David Sarnoff Award (2011), the OSA Nick Holonyak Jr. Award (2007), etc. Additionally, she has been awarded with a National Security Science and Engineering Faculty Fellowship by the US Department of Defense (2008), a Humboldt Research Award (2009), and a Guggenheim Fellowship (2009). She was a member of the USAF Scientific Advisory Board, the IEEE LEOS Board of Governors, OSA Board of Directors, and the Board on Assessment of NIST Programs, National Research Council. She was the Editor-in-Chief of Journal of Lightwave Technology 2007-2012.

Technical Program

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| Room A: 4401 Fiber-Based Technologies and Applications I President: Lei Wei | Room B: 4403 Fiber Mode Manipulation President: Kunimasa Saitoh | Room C: 4405 Fiber Grating Sensors I President: Qizhen Sun | Room D: 4501 Nanofabrication Technologies President: Guillaume Vienne |
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14:00--14:45
Oral 1-3A-1
Keynote

Gas, Glass & Light: 25 Years Of Photonic Crystal Fibres
Philip Russell
 Max Planck Institute for the Science of Light



14:45--15:15
Oral 1-3A-2
Invited

Semiconductor-core Fibers
Ursula Gibson
 NTNU



15:15--15:45
Oral 1-3A-3
Invited

Metamaterials Fabricated By Fibre Drawing
Simon Fleming, Alessio Stefani, Juliano Hayashi, Boris Kuhlmeiy
 Univ of Sydney



14:00--14:30
Oral 1-3B-1
Invited

Harnessing Mode-selective Nonlinear Optics For Optical And Microwave Signal Processing
Lawrence Chen, Ming Ma, Rhys Adams
 McGill Univ

14:30--14:45
Oral 1-3B-2

Design Of 14-Mode Polarization-Maintaining Ring-Core Fiber For Spatial Division Multiplexing
Yuan Cao, Xiaosong Yu, Yongli Zhao, Jiawei Zhang, Chuan Liu, Binglin Li, Jie Zhang
 Beijing Univ of Posts and Telecommunications

14:45--15:00
Oral 1-3B-3

6-Modes X 19 Cores Graded Index Multicore Fiber For Dense Space Division Multiplexing
Jose Enrique Antonio-Lopez, Carlos Alvarado-Zacarias, Zahoora Sanjabi Eznaveh, Ning Wang, He Wen, John Van Weerdenburg, Chigo Okonkwo, Adrian Amezcua Correa, Koen De Jongh, Mariane Bigot-Astruc, Guifang Li, Axel Schulzgen, Pierre Sillard, Rodrigo Amezcua Correa
 CREOL, the College of Optics & Photonics



15:00--15:30
Oral 1-3B-4
Invited

The Photonic Lantern: Mutlmode Photonic Convertors
Sergio Leon-Saval
 Univ of Sydney

15:30--15:45
Oral 1-3B-5

Design Tools For Circular Photonic Crystal Fibers Supporting Orbital Angular Momentum Modes
Hui Li, Hu Zhang, Xiaoguang Zhang, Yifan Deng, Lixia Xi, Wenbo Zhang
 Beijing Univ of Post and Telecommunication



14:00--14:30
Oral 1-3C-1
Invited

Shock Wave Measurements With Fiber Bragg Gratings
Ehud Shafir, Garry Berkovic, Alex Fedotov-Gefen, Avi Ravid, Shlomi Zilberman, Yonatan Schweitzer
 Soreq NRC

14:30--14:45
Oral 1-3C-2

Highly Sensitive Strain Sensor Based On Fiber Microstructures Associated With Coherent Detection
Wei Zhang, Fan Ai, Yang Xiang, Jingyi Wang, Deming Liu, Qizhen Sun
 Huazhong Univ of Science and Technology

14:45--15:00
Oral 1-3C-3

Precision Enhancement Of Fiber Bragg Grating Sensor In High-low Temperature Alternatively Environment For Aerospace Application
Xuezhi Zhang, Junfeng Jiang, Shuang Wang, Chuanjun Zang, Renwei Xie, Tiegen Liu
 Tianjin Univ

15:00--15:15
Oral 1-3C-4

A Light Intensity Monitoring Method Using FBG-based Fiber Optic Sensor
Zuorui Liu, Weiran Feng, Zhiguo Zhang, Luming Li, Zhimin Cai, Hu Zhenyan
 Nanchang Univeristy



14:00--14:30
Oral 1-3D-1
Invited

Micro/nano Manufacturing For Flexible Functional Devices: Systems And Applications
Linsen Chen
 Soochow University

14:30--14:45
Oral 1-3D-2

Grayscale Photolithography With Phase Change Material Photomasks
Qian Wang, Guanghui Yuan, Behrad Gholipour, Edward T. F. Rogers, Kun Huang, Soo Seng Ang, Nikolay I. Zheludev, Jinghua Teng
 IMRE,A*STAR

14:45--15:00
Oral 1-3D-3

Silver Film Deposited Over Large-area Self-assembled Array Of Silica Nanospheres As Ultrasensitive SERS Substrate
Xu Hou, Qi Wang, Guoming Mao, Hao Liu
 Beijing Univ of Posts and Telecommunications

15:00--15:15
Oral 1-3D-4

Heating And Nanopatterning Of A Metallic Film By Pulsed Illumination Through A Polymer Stamp Containing Gold Particles
Guillaume Vienne, Zhenying Pan, Yefeng Yu, Vytautas Valuckas, Ramon Paniagua-Dominguez, Paul Clerico, Arseniy Kuznetsov
 Data Storage Institute

15:15--15:30
Oral 1-3D-5

Double-sided Microlens And Spatial Filter Array For Maskless Lithography Based On Digital Micromirror Device (DMD)
Duc Hanh Dinh, Hung Liang Chien, Yung Chun Lee,
 National Cheng Kung Univ



15:30--16:00
Oral 1-3D-6
Invited

Single Nanoparticle Detection Using Optical Microcavities
Yun-Feng Xiao
 Peking Univ

Tue, 01.08.2017

Conference Program

| | | | |
|---|--|---|---|
| Room E: 4503 Photonic Devices - Manipulation of Optical Modes President: Ching Eng Jason Png | Room F: 4505 Rare-Earth-Doped Fibres on the 30th Anniversary of the EDFA I President: Michalis Zervas | Room G: 4301 Advanced Lasers and Applications I President: Hongda Chen | Room H: 4201 High Power, High Energy Lasers I President: Wenn Jing Lai |
|---|--|---|---|



14:00--14:30
Oral 1-3E-1
Invited

Power Monitoring And Feedback Control Of Microring Resonators
Andy Knights
 McMaster Univ

14:30--14:45
Oral 1-3E-2

Micro-ring Resonator Quality Factor And Extinction Ratio Enhancement Via Integrated Fabry-Perot Cavity
Jiayang Wu, Tania Moein, Xingyuan Xu, Guanghui Ren, Arnan Mitchell, David Moss
 Swinburne Univ of Technology

14:45--15:00
Oral 1-3E-3

High-order Filters Based On Three High-Q Microtoroid Cavities
Qian Hua, Chao Yang, Xiaoshun Jiang, Min Xiao
 Nanjing Univ

15:00--15:15
Oral 1-3E-4

Mirror-symmetric Fano-like Resonances Based On An Add-Drop Microring Resonator Interferometer On A Silicon Chip
Simin Li, Lei Zhao, Lugang Wu, Shilong Pan
 Nanjing Univ of Aeronautics and astronautics



15:15--15:45
Oral 1-3E-5
Invited

Reconfigurable On-chip Two-mode Multiplexed System
Yu Yu
 Huazhong Univ of Science and Technology



14:00--14:30
Oral 1-3F-1
Invited

The Doped-Fibre Journey and The EDFA
David Payne
 Univ of Southampton



14:30--14:50
Oral 1-3F-2
Invited

Invention Of LD-pumped EDFA And Their Applications From Soliton To Coherent Nyquist Pulse Transmission
Masataka Nakazawa
 Tohoku Univ



14:50--15:10
Oral 1-3F-3
Invited

Erbium Doped Fiber Amplifiers For Space-division-multiplexed Systems
Shaif-ul Alam, Yongmin Jung, Saurabh Jain, David Richardson
 Univ of Southampton



15:10--15:30
Oral 1-3F-4
Invited

Bismuth-doped & Raman Fiber Amplifiers
Evgeny Dianov
 FORC RAS



15:30--15:50
Oral 1-3F-5
Invited

On Amplified Transmission And Nonlinear Bandwidth Limits
Rene-Jean Essiambre
 Alcatel Lucent



14:00--14:30
Oral 1-3G-1
Invited

High Power VCSEL Amplifier For Laser Processing
Fumio Koyama
 Tokyo Institute of Technology



14:30--15:00
Oral 1-3G-2
Invited

Widely Tunable InP Based DBR Lasers
Song Liang
 Institute of Semiconductors, Chinese Academy of Sciences

15:00--15:15

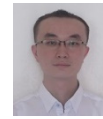
Oral 1-3G-3
Distributed Feedback Laser Diode With Fast Wavelength Switching And Wide Tuning Range
Yuto Ueno, Keita Mochizuki, Kiyotomo Hasegawa, Masamichi Nogami, Hiroshi Aruga
 Mitsubishi Electric Corporation

15:15--15:30

Oral 1-3G-4
Band Engineering Of Indirect Band GainP: Enhancement Of Green-Light Emission
Cong Wang, Bing Wang, Soon-Fatt Yoon, Jurgen Michel
 Nanyang Technological Univ

15:30--15:45

Oral 1-3G-5
Lasing Characteristics Of 1.3-um Npn-AlGaInAs/InP Transistor Laser With Reduced Base-Bandgap Energy
Shoichi Yoshitomi, Shotaro Tadano, Kentaro Yamanaka, Nobuhiko Nishiyama, Shigehisa Arai
 Tokyo Institute of Technology



14:00--14:30
Oral 1-3H-1
Invited

Advances In High Power Random Fiber Lasers
Pu Zhou, Jun Ye, Long Huang, Hanwei Zhang, Jiangmin Xu, Jian Wu, Hu Xiao, Jinyong Leng
 National Univ of Defense Technology



14:30--15:00
Oral 1-3H-2
Invited

Mid-infrared Fibre Sources: New Power Levels, Wavelengths And Modes Of Operation
Stuart Jackson
 Macquarie Univ

15:00--15:15

Oral 1-3H-3
Coherent Pulse Stacking With Delay Lines
Henrik Tunnermann, Akira Shirakawa
 Univ of Electro-Communications

15:15--15:30

Oral 1-3H-4
A 621 W Linearly Polarized, Near-diffraction-limited MOPA Seeded By Random Fiber Laser
Long Huang, Jiangming Xu, Jun Ye, Xiaodong Liu, Hanwei Zhang, Xiaolin Wang, Pu Zhou
 National Univ of Defense Technology

15:30--15:45

Oral 1-3H-5
High-Efficiency Pulsed Tm-Doped Fiber Amplifier
Xiaoxi Jin, Biao Sun, Junhua Ji, Jiaqi Luo, Qijie Wang, Pu Zhou, Xia Yu
 Precision Measurements Group, Singapore Institute of Manufacturing Technology

15:45--16:00

Oral 1-3H-6
Single Stage Nonlinear Compression Of A Bandwidth-optimized High Energy Yb-doped Fiber Laser Source
Loic Lavenu, Michele Natile, Florent Guichard, Quentin Mocaer, Yoann Zaouter, Eric Mottay
 Laboratoire Charles Fabry

Tue. 01.08.2017

| | | | |
|--|--|--|---|
| Room I: 4812 Perovskite Materials and Devices I President: Zexiang Shen | Room J: 4912 Plasmonics and Metamaterials I President: Yuri Kivshar | Room K: 4203 Elastic Optical Networks President: Gangxiang Shen | Room L: 4303 Optical Devices for Signal Processing President: Yikai Su |
|--|--|--|---|



14:00--14:30
Oral 1-3I-1
Invited

Synthesis And Optical Applications Of Low-dimensional Metal-halide Perovskites
Qiaoliang Bao, Yupeng Zhang, Ziyu Wang
 Monash Univ



14:30--15:00
Oral 1-3I-2
Invited

Probing Light-Matter Interactions In Perovskite Crystals
Qihua Xiong
 Nanyang Technological Univ



15:00--15:30
Oral 1-3I-3
Invited

The Novel Photophysics Of Halide Perovskites
Tze Chien Sum
 Nanyang Technological Univ

15:30--15:45
Oral 1-3I-4
Efficient Perovskite Photovoltaic-thermoelectric Hybrid Device
Yan Xiong, Ling Xu, Yue Hu
 Huazhong Univ of Science and Technology



14:00--14:30
Oral 1-3J-1
Invited

Nonlinear Optics With Metamaterials And Metasurfaces
Anatoly Zayats
 Kings College London


14:30--14:45
Oral 1-3J-2
High-Efficiency Metasurfaces For Surface Plasmon Coupling And Photonic Spin-Hall Effect
Lei Zhou
 Fudan Univ

14:45--15:00
Oral 1-3J-3
Dielectric Metasurfaces For Beam Bending And Near-unity Numerical Aperture Lenses
Egor Khaidarov, Ramon Paniagua-Dominguez, Ye Feng Yu, Hanfang Hao, Yuan Hsing Fu, Xinan Liang, Reuben Bakker, Vytautas Valuckas, Arseniy Kuznetsov
 DSI, NTU

15:00--15:15
Oral 1-3J-4
Polarization Sensitive Perfect Absorber Based On Plasmonic Grating
Duc Minh Nguyen, Gwanho Yoon, Dasol Lee, Junsuk Rho
 Pohang Univ of Science and Technology

15:15--15:30
Oral 1-3J-5
Field-Effect Tunable Epsilon-Near-Zero Perfect Absorbers
Aleksei Anopchenko, Long Tao, Ho Wai Howard Lee
 Baylor Univ

15:30--15:45
Oral 1-3J-6
Harnessing Optical Loss For Unique Microlaser Functionality - Orbital Angular Momentum Microlaser
Liang Feng, Pei Miao, Zhifeng Zhang, Jingbo Sun, Wiktor Walasik, Natalia Litchinitser, Stefano Longhi
 SUNY Buffalo



14:00--14:45
Oral 1-3K-1
Keynote

Cognitive Optical Networks
Vincent Chan
 MIT



14:45--15:15
Oral 1-3K-2
Invited

Highly-Survivable Elastic Optical Networking
Masahiko Jinno, Tomohiko Takagi
 Kagawa Univ

15:15--15:30
Oral 1-3K-3
A Holding-time-aware Routing And Spectrum Allocation Algorithm In Elastic Optical Network
Futao Yang, Lei Wang, Xue Chen, Yang Zhao, Jie Zhang
 Beijing Univ of Posts and Telecommunications



15:30--16:00
Oral 1-3K-4
Invited

Network Function Virtualization In Optical Inter-Datcenter Elastic Optical Networks
Wei Lu, Menglu Zeng, Wenjian Fang, Zuqing Zhu
 Univ of Science and Technology of China



14:00--14:30
Oral 1-3L-1
Invited

Silicon-rich Nitride Waveguides For Broadband Nonlinear Signal Processing
Victor Torres-Company, Attila Fulop, Peter Andrekson, Kruckel Clemens
 Chalmers Univ of Technology

14:30--14:45
Oral 1-3L-2
Ultrafast Optical Switching With Enhanced Nonlinearity From Black Phosphorus
Md Siam Uddin, Pulak Chandra Debnath, Kichul Park, Yong-Won Song
 Korea Institute of Science and Technology

14:45--15:00
Oral 1-3L-3
A Novel Photonic Microwave Down-Converter Based On Period-One Dynamics Of Semiconductor Lasers
Yu-Han Hung, Sheng-Kwang Hwang
 National Cheng Kung Univ



15:00--15:30
Oral 1-3L-4
Invited

Ring-resonator-based Multi-wavelength Source For On-chip Optical Signal Processing
Lin Zhang, Jing Wang, Liuqing He, Lijuan Xu, Lionel Kimerling, Jurgen Michel, Anu Agarwal, Guifang Li
 Tianjin Univ

15:30--15:45
Oral 1-3L-5
High-throughput, Label-free, Multivariate Cell Analysis With Optofluidic Time-stretch Microscopy
Cheng Lei, Baoshan Guo, Yiyue Jiang, Yi Wu, Hirofumi Kobayashi, Takuro Ito, Atsushi Yasumoto, Yutaka Yatomi, Yasuyuki Ozeki, Keisuke Goda
 The Univ of Tokyo

Tue, 01.08.2017

Conference Program

| Room M: 4611 Femtosecond Laser Processing I Prsieder: Rui Zhou | Room N: 4612 Optical Interconnection I Prsieder: Jianping Li | Room O: 4613 Advanced Nano-Optics and Photonics for Quantum Information Devices and Systems I Prsieder: Junrong Ong | Room P: 4711 Fiber Optics and Photonics Metrology I Prsieder: Jimmy Dubard |
|---|--|--|---|
|---|--|--|---|



14:00--14:30
Oral 1-3M-1
Invited

**Femtosecond Laser
Micro- And Nano- Structuring Of
Metals**
Chung-Wei Cheng
National Chiao Tung Univ



14:30--15:00
Oral 1-3M-2
Invited

**Femtosecond Laser
Manufacturing Of High
Performance Energy Device On
Flexible Substrate**
*Anming Hu, Shutong Wang,
Yongchao Yu, Delong Ma,
Guoying Feng*
Beijing Univ of Technology

15:00--15:15
Oral 1-3M-3
**Femtosecond Laser
Micromachining On Backside Of
Glass Using Simultaneously
Spatially And Temporally
Focused Vortex Beams**
*Xiaolong Liu, Weibo Cheng, Pavel
Polynkin*
Academy of Opto-electronics,
Chinese Academy of Sciences

15:15--15:30
Oral 1-3M-4
**Direct Laser Writing Of Graphene
Oxide Patterns Using
Femtosecond Laser Pulses With
Different Repetition Rates**
*Mun Ji Low, Hyub Lee, Chin Huat
Joel Lim, Vadakke Matham
Murukeshan, Young-Jin Kim*
Nanyang Technological Univ

15:30--15:45
Oral 1-3M-5
**Femtosecond Laser Direct
Writing Of Graphene Oxide Film
On Polydimethylsiloxane (PDMS)
For Flexible And Stretchable
Electronics**
*Truong-Son D. Le, Jianing An,
Young-Jin Kim*
Nanyang Technological Univ



14:00--14:30
Oral 1-3N-1
Invited

**Broadband Twisted Light Emitter
For Optical Communication**
Ting Lei
Shenzhen Univ



14:30--15:00
Oral 1-3N-2
Invited

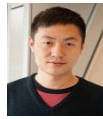
**Polymer Optical
Waveguides For High Bandwidth
Density On-Board Interconnects**
Takaaki Ishigure
Keio Univ

15:00--15:15
Oral 1-3N-3
**An Ultra-compact 25.78-Gbit/s/x
4-ch Active Optical Cable With A
High Heat-dissipation Structure**
*Naohiro Kohmu, Matsuoka
Yasunobu, Toshiaki Takai, Norio
Chujo, Hideo Arimoto*
Hitachi, Ltd.

15:15--15:30
Oral 1-3N-4
**Efficiency Improvement Of DMD
Based Optical Switch Enabled By
Blazed Micro-grating Array**
*Chuanwu Yang, Ting Lei, Xiaocong
Yuan*
Shenzhen Univ

15:30--15:45
Oral 1-3N-5
**IM-DD MDM Transmission Over
7-km MMF Enabled By All-fiber
Mode MUX/DEMUX**
*Han Yan, Bo Hua, Zhongying Wu,
Juhao Li, Jinglong Zhu, Zhengbin
Li, Zhangyuan Chen, Yongqi He*
Peking Univ

15:45--16:00
Oral 1-3N-6
**High-Density Monolithic 6 x 30
Gb/s Tunable WDM Transmitter
In Generic III-V Platform**
*Weiming Yao, Meint Smit, Mike
Wale*
Eindhoven Univ of Technology



14:00--14:30
Oral 1-3O-1
Invited

**Photoluminescence
Imaging Based Nano-positioning
Of Single Quantum Dots For
High-performance Single-photon
Generation**
*Jin Liu, Yu-ming He, Luca
Sapienza, Kumarasiri
Konthasingh, Stephan Gerhardt,
Jose Vinicius Miranda Cardoso,
Jin Dong Song, Antonio Badolato*
National Institute of Standards
and Technology



14:30--15:00
Oral 1-3O-2
Invited

**Universal Devices
For Quantum Communication**
*Joseph Fitzsimons, Ada
Altybayeva*
Singapore Univ of Technology and
Design



15:00--15:30
Oral 1-3O-3
Invited

**Metal-Dielectric
Hybrid Dimer Nanoantenna For
Quantum Emitter Enhancement**
Song Sun, Ping Bai, Mo Li
Microsystem & Terahertz
Research Center, China Academy of
Engineering Physics



15:30--16:00
Oral 1-3O-4
Invited

**Optical Field
Interactions With
Metallic/Dielectric
Nanostructures And Its
Applications**
Zhaogang Dong
Institute of Materials Research
and Engineering, A*STAR



14:00--14:30
Oral 1-3P-1
Invited

**Detection Efficiency
Measurement Of Optical
Transition Edge Sensor Based On
Correlated Photon Pairs
Generated Via Spontaneous
FWM In Fiber**
*Daiji Fukuda, Ryo Kobayashi, Akio
Yoshizawa, Kazuki Niwa, Kaori
Hattori, Takayuki Numata,
Shuichiro Inoue*
NMIJ/AIST, Nihon Univ



14:30--15:00
Oral 1-3P-2
Invited

**Chip-scale Optical Frequency
Combs For Communications And
Precision Metrology**
Chee Wei Wong
UCLA

15:00--15:15
Oral 1-3P-3
**Single Photon Detection
Characterization And Linearity
Study**
Jing Zhang, Foo Mingze
National Metrology Centre,
A*STAR

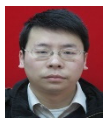
15:15--15:30
Oral 1-3P-4
**Complete Field Characterization
By Fiber-based Self-modulated
Spectrum Measurements**
*Elena Anashkina, Aleksei
Andrianov, Maxim Koptev,
Arkadiy Kim*
Institute of Applied Physics,
Russian Academy of Sciences

15:30--15:45
Oral 1-3P-5
**A New Method For Measuring
The Isolation Of Optical Isolator**
*Liangqin Zhu, Jiangjie Zhu,
Xueping Cheng*
JPT Opto-electronics Co.,Ltd

15:45--16:00
Oral 1-3P-6
**Metrology Of Supercontinuum
Generation Along Highly
Nonlinear Fibers Using Photon-
counting Optical Time Domain
Reflectometry**
*Regis Hontinfinde, Saliya
Coulibaly, Patrice Megret, Majid
Taki, Marc Wuilpart*
Universite de Mons

Tue. 01.08.2017

| | | | |
|---|--|--|--|
| Room Q: 4712 Terahertz Science, Technology and Applications I Presider: Yu Luo | Room R: 4713 Advances in Structured Light I Presider: Jian Wang | Room S: 4811 Photonics Technologies for Primary Point-of-care and Global Health I Presider: Gerd Keiser | Room T: 4911 Spectroscopy for Diagnosis Presider: Fake Lu |
|---|--|--|--|



14:00--14:30
 Oral 1-3Q-1
Invited

Terahertz Metasurfaces And Their Potential Applications
Qiang Cheng, Tie Jun Cui
 Southeast Univ



14:00--14:20
 Oral 1-3R-1
Invited

The Rotational Doppler Shift And The Reversal Of Angular Momentum
Miles Padgett
 Univ of Glasgow



14:00--14:30
 Oral 1-3S-1
Invited

Super-resolution Opto-magnetic Microscopy With Nanodiamonds
Min Gu
 RMIT Univ



14:00--14:20
 Oral 1-3T-1
Invited

Assessment of Wound Re-epithelialization by UV Fluorescence Excitation Imaging
Ying Wang, Antonio Ortega-Martinez, Juan Pablo Padilla-Martinez, Maura Williams, William Farinelli, Richard Rox Anderson, Walfre Franco
 Harvard Medical School



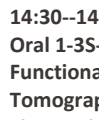
14:30--15:00
 Oral 1-3Q-2
Invited

Laser Terahertz Emission Microscope
Masayoshi Tonouchi
 Osaka Univ

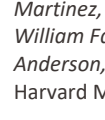


14:20--14:40
 Oral 1-3R-2
Invited

Structured Light Beams For Probing And Sensing
Juan Torres
 Universitat Politecnica de Catalunya



14:30--14:45
 Oral 1-3S-2
Functional Optical Coherence Tomography On In-vivo Human Skin With Cellular Resolution
Yen-Hung Lin, Rajendran Soundararajan, Jeng-Wei Tjiu, Pinghui Yeh, Sheng-Lung Huang
 National Taiwan Univ

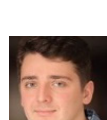


14:20--14:35
 Oral 1-3T-2
Three-dimensional Refractive Index And Fluorescence Tomography
Seungwoo Shin, Kyoohyun Kim, GwangSik Park, YongKeun Park
 Korea Advanced Institute of Science and Technology



15:00--15:30
 Oral 1-3Q-3
Invited

Extreme Nonlinear Optics In Graphene In The Terahertz Range
Ryo Shimano
 Cryogenic Research Center, The Univ of Tokyo



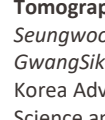
14:40--15:00
 Oral 1-3R-3
Invited

Optical Metrology With Spatially Structured Optical Fields
Martin Lavery
 Univ of Glasgow

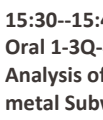


14:45--15:15
 Oral 1-3S-3
Invited

Deep Single Cell Imaging - An Optical Time-Stretch Approach And Beyond
Kevin Tsia
 The Univ of Hong Kong



14:35--14:50
 Oral 1-3T-3
Raman, Reflectance And Fluorescence Spectroscopy For The Noninvasive Diagnosis Of Skin Cancer
Austin Moy, Xu Feng, Hieu Nguyen, Yao Zhang, Mia Markey, Jason Reichenberg, James Tunnell
 Univ of Texas at Austin

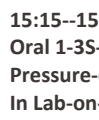


15:30--15:45
 Oral 1-3Q-4
Analysis of Coupled Dielectric-metal Subwavelength Gratings For Terahertz Polarization Converter And One-way Transmission
Shitong Xu, Fei Fan, Xianghui Wang, Shengjiang Chang
 Nankai Univ

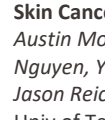


15:00--15:20
 Oral 1-3R-4
Invited

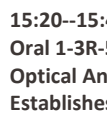
Detection Of Photonic Orbital Angular Momentum With Micro And Nano Optical Structures
Qiwen Zhan
 Univ of Dayton



15:15--15:30
 Oral 1-3S-4
Pressure-driven Particle Focusing In Lab-on-a-chip Flow Cytometers: The Choice Between Sheath-assisted And Inertial Focusing
Nishtha Panwar, Peiyi Song, Ken-Tye Yong, Swee Chuan Tjin
 Nanyang Technological Univ



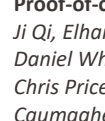
14:50--15:05
 Oral 1-3T-4
A Light-weight Near Infrared Fluorescence Endoscope Based On A Single Color Camera: A Proof-of-concept Study
Ji Qi, Elham Nabavi, Yang Hu, Daniel Whippey, Angharad Curtis, Chris Price, Nigel Copner, Caumaghen Sannassy, Maria Leiloglou, Daniel Leff, George Hanna, Daniel Elson
 Imperial College London



15:20--15:40
 Oral 1-3R-5
Optical Angular Momentum Establishes Structured Materials
Takashige Omatsu
 Chiba Univ



15:30--16:00
 Oral 1-3S-5
Invited
Battery-Powered LED-Based PDT System For Early Oral Cancer Treatment In The Global Health Setting
Hui Liu
 Cornell Univ



15:05--15:25
 Oral 1-3T-5
Invited
Photodynamic Therapy Combining With Differentiation-promoting Agent May Enhance Therapeutic Efficacy For Pancreatic Adenocarcinoma
Yan Baglo, Sriram Anbil, Huang-Chiao Huang, Mans Broekgaarden, Imran Rizvi, Edward V. Maytin, Tayyaba Hasan
 Harvard Medical School

Tue, 01.08.2017

15:25--15:40
Oral 1-3T-6
Spectroscopic Optical Coherence Tomography Using Reassigned TFDs Method
Xianghong Wang, Xiaojun Yu, Xin Ge, Lulu Wang, Si Chen, Linbo Liu
 Nanyang Technological Univ

15:40--15:55
Oral 1-3T-7
Investigation Of Near-infrared Structure Color Of Aligned Collagen Fibrils On Glass Slides
Xin Ge
 Nanyang Technological Univ

| | | | |
|--|--|---|---|
| Room A: 4401 Fiber-Based Technologies and Applications II Prsident: Simon Fleming | Room B: 4403 Few-Mode Fiber Prsident: Sergio Leon-Saval | Room C: 4405 Distributed Fiber Optic Sensing Technologies Prsident: Emily Jian Zhong Hao | Room D: 4501 Novel Wavefront Manipulations Prsident: Xiaofeng Li |
|--|--|---|---|



16:15--16:45
Oral 1-4A-1
Invited

Hollow Core Fibers For Beam Delivery: Recent Advances
Jonathan Knight
 Univ of Bath



16:15--16:45
Oral 1-4B-1
Invited

Low Differential Modal Gain Multimode Optical Fiber Amplifiers
Nicolas Fontaine, Enrique Antonio Lopez, Roland Ryf, Juan Carlos Alvarado Zacarias, Haoshuo Chen, Zeinab Sanjabi Eznaveh
 Nokia Bell Labs



16:15--16:45
Oral 1-4C-1
Invited

The Origin Of Optical Background Noise In Phase-sensitive Optical Time Domain Reflectometry And Its Suppression Methods
Xuping Zhang, Yixin Zhang, Feng Wang, Yuanyuan Shan, Zhenhong Sun, Yanzhu Hu
 Nanjing Univ



16:15--16:45
Oral 1-4D-1
Invited

Micro/Nano-Scale Light Manipulation
Qihuang Gong
 Peking Univ



16:45--17:15
Oral 1-4A-2
Invited

Non-classical Light Sources Based On Photonics Crystal Fibers
Nicolas Joly, Martin Finger, Andrea Cavanna, Xin Jiang, Maria Chekhova, Philip Russell
 Max-Planck Institute for the Science of Light

16:45--17:00
Oral 1-4B-2

Multicore Fiber-Based 5-Mode Multiplexer/Demultiplexer
Yusuke Sasaki, Hitoshi Uemura, Shoko Nishimoto, Katsuhiko Takenaga, Kazuhiko Aikawa, Shoichiro Matsuo, Takeshi Fujisawa, Kunimasa Saitoh
 Fujikura Ltd.



16:45--17:15
Oral 1-4C-2
Invited

Advanced Signal Processing Techniques For Fibre-optic Structural Health Monitoring
Roger Groves
 Delft Univ of Technology



16:45--17:15
Oral 1-4D-2
Invited

Symiton: Indispensable Participant In Electron-photon Interactions And Probably A Kind Of Dark Matter
Xiaomin Ren
 Beijing Univ of Posts and Telecommunications

17:15--17:30
Oral 1-4A-3

Understanding Antiresonant Guidance On The Basis Of Planar Interface Reflection
Matthias Zeisberger, Markus A. Schmidt
 Leibniz Institute of Photonic Technology

17:00--17:15
Oral 1-4B-3

A Graded Index Ring-core Fiber Supporting 22 OAM States
Guoxuan Zhu, Yujie Chen, Yanfeng Zhang, Siyuan Yu
 Sun Yat-sen Univ

17:15--17:30

Oral 1-4C-3
BOTDA Based Side Hole Fiber Sensing
Jianzhong Zhang, Kai Xie, Yanmin Chen
 Harbin Engineering Univ

17:15--17:30

Oral 1-4D-3
Ultrathin Double-focusing Topological Insulator Lens
Zengji Yue, Haoran Ren, Min Gu
 RMIT

17:30--17:45
Oral 1-4A-4

Silica-Based Nodeless Hollow-Core Fiber For Broadband Mid-IR Guidance
Shoufei Gao, Yingying Wang, Pu Wang
 Beijing Univ of Technology

17:15--17:30
Oral 1-4B-4

Multi-channel Mode Converters Based On In-line Fiber Modal Interferometer
Guolu Yin, Changle Wang, Yunhe Zhao, Biqiang Jiang, Tao Zhu, Yiping Wang, Lin Zhang
 Chongqing Univ

17:30--17:45

Oral 1-4C-4
Extraction Of Temperature Distribution Using Deep Neural Networks For BOTDA Sensing System
Biwei Wang, Nan Guo, Faisal Nadeem Khan, Abul Kalam Azad, Changyuan Yu, Chao Lu, Liang Wang
 The Hong Kong Polytechnic Univ



17:30--18:00
Oral 1-4D-4
Invited

Tunable Metasurfaces For Active Manipulations Of Electromagnetic Waves
Lei Zhou
 Fudan Univ

17:45--18:00
Oral 1-4A-5

Hollow Core Inhibited Coupling Fibers Design For Femtosecond Pulse Spectral Broadening In Multipetawatt Laser-induced Plasma Diagnostics



17:30--18:00
Oral 1-4B-5
Invited


Optical Amplifiers For Space Division Multiplexing (SDM)

Tue. 01.08.2017

Masruri Masruri, Septimiu Balascuta, Ioan Dancus, Andi Cucoanes, Daniel Ursescu
National Institute for R&D in Physics and Nuclear Engineering

Yongmin Jung, Jain Saurabh, Shaiful Alam, David J. Richardson
Univ of Southampton

| | | | |
|---|--|---|---|
| Room E: 4503 Photonic Devices - Coupling Light and Fabrication Control Presider: Ching Eng Jason Png | Room F: 4505 Rare-Earth-Doped Fibres on the 30th Anniversary of the EDFA II Presider: Wood-Hi Cheng | Room G: 4301 Advanced Materials and Devices for Infrared Photodetection Presider: Daohua Zhang | Room H: 4201 High Power, High Energy Lasers II Presider: David Lancaster |
|---|--|---|---|




16:15--16:45
Oral 1-4E-1
Invited

Germanium-based Devices For Silicon Photonics
Jurgen Michel
MIT



16:15--16:35
Oral 1-4F-1
Invited

Doped Fibers for High Power Applications
Volker Reichel
Leibniz-Institut für Photonische Technologien e.V.



16:15--16:45
Oral 1-4G-1
Invited


Preparation And Performance Of Mn-Co-Ni-O Thin Films
Zhiming Huang
Shanghai Institute of Technical Physics, Chinese Academy of Sciences



16:15--16:45
Oral 1-4H-1
Invited

Latest Advance In Fused Fiber Components For High Power Fiber Laser And Medical Probe Applications
Baishi Wang
Thorlabs Vytran Division

16:45--17:00
Oral 1-4E-2
Thermally Expanded Core Fibers Of 4-um Mode Field Diameter For Low Loss Coupling With Silicon Photonic Devices
Takuya Oda, Keisuke Hirakawa, Kentaro Ichii, Satoshi Yamamoto, Kazuhiko Aikawa
Fujikura Ltd.



16:35--16:55
Oral 1-4F-2
Invited

Fibre Sources Using Fluoride Or Chalcogenide Glass
Stuart Jackson
Macquarie Univ

16:45--17:00
Oral 1-4G-2
Integrated Near-Infrared Photodetector Based On Colloidal HgTe Quantum Dot Loaded Plasmonic Waveguide
Bingqing Zhu, Mengyu Chen, Stephen V. Kershaw, Andrey L. Rogach, Ni Zhao, Hon Ki Tsang
The Chinese Univ of Hong Kong

16:45--17:00
Oral 1-4H-2
The Performance Improvement Of SGII-Up Laser Facility
Yanqi Gao
Shanghai Institute of laser plasma

17:00--17:15
Oral 1-4E-3
Study Of Inter-die Fabrication Uniformity Of Silicon Photonic Fiber-to-waveguide Edge Couplers
Jun Rong Ong, Thomas Ang, Soon Thor Lim, Ching Eng Png, Tina Guo, Hong Wang
IHPC



16:55--17:15
Oral 1-4F-3
Invited

Coherent Pulse Stacking Amplification For Multi-mJ Fiber Amplifiers
John Ruppe, Hanzhang Pei, Morteza Sheikhsoufi, Siyun Chen, John Nees, Russell Wilcox, Wim Leemans, Almantas Galvanauskas
Univ of Michigan

17:00--17:15
Oral 1-4G-3
Waveguide Avalanche Photodetector Using Quantum-dot Superlattice For Optical Fiber Communications
Toshimasa Umezawa, Kouichi Akahane, Atsushi Matsumoto, Atsushi Kanno, Naokatsu Yamamoto, Tetsuya Kawanishi
NICT

17:00--17:15
Oral 1-4H-3
Latest Achievements At The J-KAREN-P Laser Facility At QST
Hiromitsu Kiriya, Mamiko Nishiuchi, Alexander Pirozhkov, Hironao Sakaki, Nicholas Dover, Akito Sagisaka, Kotaro Kondo, Keita Nishitani, Yuji Fukuda, Koichi Ogura
National Institutes for Quantum and Radiological Science and Technology (QST)

17:15--17:30
Oral 1-4E-4
Ion Implantation In Silicon For Photonic Device Trimming
Milan Milosevic, Xia Chen, Wei Cao, David Thomson, Callum Littlejohns, Hong Wang, Graham Reed
Univ of Southampton



17:15--17:35
Oral 1-4F-4
Invited

High power fibre lasers for industrial applications
Daiichiro Tanaka
Fujikura Ltd.


17:15--17:30
Oral 1-4G-4
Structural, Optical, Photoluminescence And Photoconductive Properties Of Rare-earth-doped β -Ga₂O₃ Thin Films
Wenhao Li, Zhenping Wu, Weihua Tang
Beijing Univ of Posts and Telecommunications

17:15--17:30
Oral 1-4H-4
High-average-power Operation Of A 100-mJ-class, Conductively Cooled, Q-switched Tm,Ho:YLF Laser
Atsushi Sato, Makoto Aoki, Shoken Ishii, Ryouhei Otsuka, Kohei Mizutani, Satoshi Ochiai
Tohoku Institute of Technology



17:30--18:00
Oral 1-4E-5
Invited

Design Methodologies For Fabrication Non-uniformity On Chip-scale Silicon Photonic Integrated Circuits
Zeqin Lu
Univ of British Columbia



17:35--17:55
Oral 1-4F-5
Invited

Transverse Mode Instability Threshold And Power Scaling In High Power Fibre Amplifiers And Lasers
Michalis Zervas
Univ of Southampton

17:30--17:45
Oral 1-4G-5
Nanostructured Semiconductor Photocatalysts And Devices: Towards Solar Light Driven Photodegradation For Organic Pollutants
Hong Liu
Shandong Univ

17:30--17:45
Oral 1-4H-5
Polarizing Mirrors For Q-switched Lasers Made By Oblique Incidence Physical Vapor Deposition
Jean-Francois Bisson, Alexandre Doucet
Universite de Moncton



17:45--18:15
Oral 1-4H-6
Invited

Planar Waveguides Grown By Pulsed Laser Deposition For



17:45--18:15
Oral 1-4H-6
Invited

Planar Waveguides Grown By Pulsed Laser Deposition For

Tue, 01.08.2017

Wide Wavelength Bandwidth Integrated ROSA Using High Responsivity Resonant Cavity 25 Gbps Avalanche Photodiode
 Mizuki Shirao, Yoshiya Sato, Nobuo Ohata, Ryota Takemura, Masamichi Nogami
 Mitsubishi Electric Corp.

Power Amplifiers
 Jacob Mackenzie, James Grant-Jacob, Stephen Beecher, Jake Prentice, Ping Hua, David Shepherd, Robert Eason
 Univ of Southampton

| Room I: 4812 Perovskite Materials and Devices II President: Wei Lin Leong | Room J: 4912 Plasmonics and Metamaterials II President: Yu Luo | Room K: 4203 Fiber-Wireless Systems President: Calvin CK Chan | Room L: 4303 DSP for Communication Systems President: Lilin Yi |
|---|--|---|--|
|---|--|---|--|



16:15--16:45
 Oral 1-4I-1
Invited

Engineering The Properties Of Perovskites
 Zexiang Shen
 Nanyang Technological Univ



16:45--17:15
 Oral 1-4I-2
Invited

Perovskite X-ray Scintillators And Photon-to-Current X-ray Detectors
 Muhammad Danang Birowosuto, Danielle Cortecchia, Winicjusz Drozdowski, Cuong Dang, Hong Wang, Cesare Soci
 CINTRA, NTU

17:15--17:30
 Oral 1-4I-3
High-temperature Lasing From CsPbBr₃/Cs₄PbBr₆ Perovskite Nanocomposites
 Yue Wang, Handong Sun
 Nanyang Technological Univ

17:30--17:45
 Oral 1-4I-4
Hetero-Structure On Hybrid Perovskite Single Crystals
 Chathuranga Hettiarachchi, Tien Hoa Nguyen, Kantisara Pita, Cuong Dang
 Nanyang Technological Univ

17:45--18:00
 Oral 1-4I-5
Stability Of CH₃NH₃PbBr₃ And Evolution Of H-bonding During Its Polymorphic Transformations
 Tingting Yin, Jiayu Yan, Zexiang Shen
 CDPT-SPMS NTU



16:15--16:45
 Oral 1-4J-1
Invited

Second-order Nonlinear Optics Of Metasurfaces
 Martti Kauranen, Robert Czaplicki, Antti Kiviniemi, Joonas Lehtolahti, Janne Laukkanen, Markku Kuitinen
 Tampere Univ of Technology

16:45--17:00
 Oral 1-4J-2
Second Harmonic Generation Of Circular Polarization In Phase-Matched Chiral Metamaterials
 Lin Wu, Yu Luo
 Nanyang Technological Univ

17:00--17:15
 Oral 1-4J-3
A New Scheme To Enhance The Third-Harmonic Generation In Graphene
 Jian Wei You, Nicolae-Coriolan Panaiu
 Univ College London

17:15--17:30
 Oral 1-4J-4
Nonlocality Enhanced Optical Bistability In Core-shell Structure
 Yang Huang, Yamin Wu
 Jiangnan Univ

17:30--17:45
 Oral 1-4J-5
Controllable Multiple Peak Phenomena With Graphene-based Plasmonic Bragg Grating Sensors
 Hongyan Shao, Jicheng Wang, Ci Song
 Jiangnan Univ



17:45--18:15
 Oral 1-4J-6
Invited

Atomic Ghost Imaging
 Kenneth Baldwin, Roman Khakimov, Bryce Henson, David Shin, Sean Hodgman, Robert Dall, Andrew Truscott
 Australian National Univ



16:15--16:45
 Oral 1-4K-1
Invited

Feasibility Of RoF-based Optical Fronthaul Network For Next-Generation Mobile Communications
 Byung Gon Kim, Sung Hyun Bae, Hoon Kim, Yun C. Chung
 KAIST



16:45--17:15
 Oral 1-4K-2
Invited

Software Defined Elastic RF-Optical Networking (SD-ERON)
 S. J. Ben Yoo, Roberto Proietti
 Univ of California, Davis



17:15--17:45
 Oral 1-4K-3
Invited

High-Capacity Optical Wireless Communication Using 2-Dimensional IR Beam Steering
 Ton Koonen, Amir Khalid, Joanne Oh, Fausto Gomez Agis, Eduward Tangdionga
 Eindhoven Univ. of Technology

17:45--18:00
 Oral 1-4K-4
Flexible Intelligence Cloud-based Radio Over Optical Fiber Networks Based On Reconfigurable Wavelength-Frequency Selective Switch
 Wei Bai, Hui Yang, Ao Yu, Linkuan He, Yongli Zhao, Jie Zhang, Zhengyong Wang
 Beijing Univ of Posts and Telecommunications



16:15--16:45
 Oral 1-4L-1
Invited

Nonlinear Communication Technologies
 Sergei K. Turitsyn
 Aston Univ

16:45--17:00
 Oral 1-4L-2
Effect Of Fog On The BER Performance Of An Optical CDMA FSO Link With SIK Receiver
 Satya Majumder, A. K. M. Islam
 Bangladesh Univ of Engineering and Technology

17:00--17:15
 Oral 1-4L-3
Differential Modulation Based Coherent Optical OFDM Transmission Without Phase Noise Compensation And Channel Equalization
 Kyoung-Hak Mun, Sang-Min Jung, Soo-Min Kang, Sang-Kook Han
 Yonsei Univ

17:15--17:30
 Oral 1-4L-4
Projection Histogram Assisted Common Phase Estimation Algorithm In Coherent Optical OFDM System
 Junjie Ma, Zhengxuan Li, Yueting Xu, Qianwu Zhang, Min Wang
 Shanghai Univ

17:30--17:45
 Oral 1-4L-5
Adaptive Blind Chromatic Dispersion Estimation And Compensation For DSP-based Coherent Optical Systems
 Yifan Zhang, Yan Li, Miao Yu, Sujie Fan, Jifang Qiu, Hongxiang Guo, Xiaobin Hong, Jian Wu
 Beijing Univ of Posts and Telecommunications

17:45--18:00
 Oral 1-4L-6
60-Gb/s Optical OFDM Transmissions Over 100m OM1 MMF IMDD System At 1550nm
 Jian Chen, Qingqing Huang, Ling

Tue. 01.08.2017

Fang
Shanghai Univ

18:00--18:15
Oral 1-4L-7
Experimental Research On SOPP-OSTBC Scheme In UV Communication With Concise 2-PPM
Yanjie Gu, Min Zhang
Beijing Univ of Posts and Telecommunication

| | | | |
|--|--|---|---|
| Room M: 4611 Femtosecond Laser Processing II Prsided: Chung-Wei Cheng | Room N: 4612 Optical Interconnection II Prsided: Ting Lei | Room O: 4613 Advanced Nano-Optics and Photonics for Quantum Information Devices and Systems II Prsided: Hong Son Chu | Room P: 4711 Fiber Optics and Photonics Metrology II Prsided: Jing Zhang |
|--|--|---|---|



16:15--16:45
Oral 1-4M-1
Invited

Laser Trimming Of

2D Materials For Functional Optoelectronic Devices
Baohua Jia, Han Lin, Xiaorui Zheng, Tieshan Yang
Swinburne Univ of Technology



16:15--16:45
Oral 1-4N-1
Invited

Machine Learning

Assisted Optical Interconnection
Jiangbing Du, Sun Lin, Guoyao Chen, Zuyuan He
Shanghai Jiao Tong Univ



16:15--16:45
Oral 1-4O-1
Invited

Plasmonic

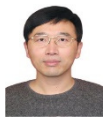
Nanoantennas for Optical Nanocircuitry
Klas Lindfors
Univ of Cologne



16:15--16:45
Oral 1-4P-1
Invited

The

Characterization, Fabrication And Device Research Based On Graphene-Fiber
Weihong Bi
Yanshan Univ



16:45--17:15
Oral 1-4M-2
Invited

Plasmonic Super-resolution Lithography
Xiangang Luo, Xiong Li, Xiaoliang Ma, Mingbo Pu
Institute of Optics and Electronics, Chinese Academy of Sciences

16:45--17:00
Oral 1-4N-2

Topology-aware Task Placement In Small-world Optical Data Center Network
Wang Cen, Guo Hongxiang, Zhang Dongxu, Wu Jian
Beijing Univ of Posts and Telecommunications



16:45--17:15
Oral 1-4O-2
Invited

Planar And Free-standing Optical Metasurfaces
Patrice Genevet
CNRS-CRHEA



16:45--17:15
Oral 1-4P-2
Invited

Study Of Application Of Super Continuum Fiber Laser In Spectrophotometry
Xueping Cheng, Meng Liu
JPT Opto-electronics Co., Ltd.

17:15--17:30
Oral 1-4M-3

Photoreduction Of Graphene Oxides Using A Femtosecond Laser: Photothermal And Photochemical Contributions
Chin Huat Joel Lim, Hyub Lee, Mun Ji Low, Vadakke Matham Murukeshan, Young-Jin Kim
Nanyang Technological Univ

17:00--17:15
Oral 1-4N-3

OpenFlow-based Control Mechanism For Coflow-Aware Multi-connection In DCN
Qi Wu, Hongxiang Guo, Cen Wang, Hong Cao, Jian Wu
Beijing Univ of Posts and Telecommunications



17:15--17:45
Oral 1-4O-3
Invited

The Interaction Of Manifold Single Photons And Their Many Uses
Andrew White
Univ of Queensland

17:15--17:30
Oral 1-4P-3

Non-scanning Three-dimensional Imaging Using Two-dimensional Spectroscopy And Spectral Interferometry With Chirped Frequency Comb
Takashi Kato, Megumi Uchida, Yurina Tanaka, Kaoru Minoshima
The Univ. of Electro-Communications (UEC)

17:30--17:45
Oral 1-4M-4

One-Step Fabrication Of Graphene Sensors By Femtosecond Laser Direct Writing
Jianing An, Truong Son Le Dinh, Young-Jin Kim
Nanyang Technological Univ

17:15--17:30
Oral 1-4N-4

Dynamic TCP Congestion Window Adjustment For Effective Topology Reconstruction In Optical DCN
Junyuan Guo, Hongxiang Guo, Cen Wang, Jian Wu
Beijing Univ of Posts and Telecommunications



17:45--18:15
Oral 1-4O-4
Invited

Impedance Matching In HAMR
Choon How Gan
Seagate Technology

17:30--17:45
Oral 1-4P-4

Precise Birefringence Measurement Of Anisotropic Materials By Dual-Comb Spectroscopy
Ken-ichi Kondo, Akifumi Asahara, Yue Wang, Ichiro Shoji, Kaoru Minoshima
The Univ of Electro-Communications

17:45--18:00
Oral 1-4M-5

Laser Surface Texturing For Improving Surface Functional Performance
Xincai Wang, Hongyu Zheng

17:30--17:45
Oral 1-4N-5

56-Gbps 4-PAM System Over Nearly 40 Km Transmission By Employing An O-band EML And SOA
Hong-Minh Nguyen, Chun-Yen Chuang, Bobby Shie, Chia-Chien Wei, Jun-Jie Liu, Alan Hong, Young-Kai Chen, Jyehong Chen

17:45--18:00
Oral 1-4P-5

One-shot Three-dimensional Measurements With A Fiber Bundle Using A Chirped Optical Frequency Comb
Megumi Uchida, Takashi Kato,

Tue, 01.08.2017

Conference Program

Singapore Institute of
Manufacturing Technology,
A*STAR

Department of Photonics,
National ChiaoTung Univ

Yurina Tanaka, Kaoru Minoshima
The Univ of Electro-
Communications (UEC)

17:45--18:00

Oral 1-4N-6

Large Signal Modulation Analysis
Of High-speed Transverse
Coupled Cavity VCSEs

Hameeda Ibrahim, Fumio
Koyama, Moustafa Ahmed
Tokyo Institute of Technology

Room Q: 4712
Terahertz Science,
Technology and
Applications II
President: Yan Zhang

Room R: 4713
Advances in Structured
Light II
President: Qiwen Zhan

Room S: 4811
Photonics Technologies for
Primary Point-of-care and
Global Health II
President: Elaine Wong

Room T: 4911
Photonic Therapeutics and
Diagnostics
President: Tianhong Dai



16:15--16:45
Oral 1-4Q-1
Invited

Terahertz And Time-resolved
Spectroscopic Studies Of
Multiferroics.
Diyar Talbayev
Tulane Univ



16:15--16:35
Oral 1-4R-1
Invited

Exploiting Spin-orbit Interactions
Via Engineered Transverse Spin
Angular Momentum In Photonic
Integrated Circuits
Siyuan Yu
Univ of Bristol



16:15--16:45
Oral 1-4S-1
Invited

Implantable
Microphotonic Device For Brain
Imaging And Manipulation
Jun Ohta, Takashi Tokuda,
Kiyotaka Sasagawa, Toshihiko
Noda, Makito Haruta
Nara Institute of Science and
Technology



16:15--16:35
Oral 1-4T-1
Invited

Antimicrobial Blue Light Therapy
For Infectious Keratitis: Ex Vivo
And In Vivo Studies
Hong Zhu, Tianhong Dai
Shanghai Jiao Tong Univ



16:45--17:15
Oral 1-4Q-2
Invited

The Photophysical
Investigation Of Lead Halide
Perovskites By Use Of Terahertz
Spectroscopy
Chan La-o-varakiat
KMUTT



16:35--16:55
Oral 1-4R-2
Invited

Recent Advances On
Using The Optical Angular
Momentum Of Light For Optical
Switching
Antonella Bogoni
CNIT



16:45--17:15
Oral 1-4S-2
Invited

Functional Imaging
Of In Vivo Biological Tissues With
A Digital RGB Camera
Izumi Nishidate
Tokyo Univ of Agriculture and
Technology

16:35--16:50

Oral 1-4T-2
Modeling The Lasing Threshold
Of A Two-photon Pumped
Vitamin Solution
Derrick Yong, Haoming Koo
Singapore Institute of
Manufacturing Technology,
A*STAR



17:15--17:45
Oral 1-4Q-3
Invited

Using Ultrafast
Terahertz Spectroscopy To Study
Low Energy Excitations In
Quantum Materials
Rohit Prasankumar
Los Alamos National Laboratory



16:55--17:15
Oral 1-4R-3
Invited

Structured Light
Communications In Different
Scenarios: Advances And
Challenges
Jian Wang
Huazhong Univ of Science and
Technology



17:15--17:45
Oral 1-4S-3
Invited

DNA Sensing Based
On Gold Nanoparticles And
Silicon Nanopores
Toshiharu Saiki
Keio Univ



16:50--17:10
Oral 1-4T-3
Invited

Antimicrobial Blue Light
Inactivation Of Uropathogenic
Escherichia Coli : Implications For
Treatment Of Urinary Tract
Infections
Yanyan Fang, Ying Wang,
Tianhong Dai
Harvard Medical School

17:45--18:00

Oral 1-4Q-4

Continuous Wave Terahertz
System With Optical Switch And
Coaxial DFB LD
Chihoon Kim, Jae Sung Ahn
KOPTI



17:15--17:35
Oral 1-4R-4
Invited

Distortion
Correction Of OAM Beams By
Using Adaptive Optics
Chunqing Gao, Shiyao Fu
Beijing Institute of Technology

17:45--18:00
Oral 1-4S-4

Nanoplasmonic Detection Of
Extracellular Vesicles
Huilin Shao, Carine Lim, Yan
Zhang
National Univ of Singapore

17:10--17:25

Oral 1-4T-4
In Vitro Photodynamic
Antimicrobial Activity Of A New
Cationic Benzylidene
Cyclopentanone Photosensitizer
Against Helicobacter Pylori
Ying Wang, Shaona Zhou, Ying
Gu, Tianhong Dai, Leili Wang
Wellman Center for
Photomedicine

17:25--17:40

Oral 1-4T-5
3-Dimensional Centrifugal
Microfluidic Platform For The
Generation Of Discrete

Conference Program

Concentration Gradients

*Minghui Tang, Xinyu Huang,
Xinghai Ning, Jacky Fong-Chuen
Loo, Siu-Kai Kong, Xuping Zhang,
Guanghai Wang, Ho-Pui Ho*
The Chinese Univ of Hong Kong



17:40--18:00

Oral 1-4T-6

Invited

Antimicrobial Blue

**Light Inactivation Of Pathogenic
Microbes: State Of The Art**

Tianhong Dai

Harvard Medical School



18:00--18:20

Oral 1-4T-7

Invited

Vasa Vasorum

**Imaging By Optical Coherence
Tomography**

Atsushi Tanaka

Wakayama Medical Univ

Tue, 01.08.2017

Conference Program

| | | | |
|---|---|---|---|
| Room A: 4401 Fiber-Based Technologies and Applications III President: Fei Xu | Room B: 4403 Silicon Photonics President: Daoxin Dai | Room C: 4405 Interferometric Fiber Optic Sensors and Systems President: Zhifang Wu | Room D: 4501 Metamaterials & Metasurfaces President: Patrice Genevet |
|---|---|---|---|



08:30--09:00
Oral 2-1A-1
Invited

A Fiber-optics Platform For Study Of Cells
Walter Margulis, Sebastian Etcheverry, Muhamad Asim Faridi, Harisha Ramachandraiah, Aziza Sudirman, Aman Russom, Fredrik Laurell
 RISE Acreo



09:00--09:30
Oral 2-1A-2
Invited

Multimode Fiber Spectrometer
Hui Cao
 Yale Univ



09:30--10:00
Oral 2-1A-3
Invited

Hybrid Optical Fibers: A Platform For Nanoscale Photonics And Nonlinear Light Generation
Markus Schmidt
 Leibniz Institute of Photonic Technology



10:00--10:30
Oral 2-1A-4
Invited

Publishing In Nature Communications
Lina Persechini
 Nature Communications



08:30--09:00
Oral 2-1B-1
Invited

All-fiber Integrated Silicon Photonics
Li-Min Xiao
 Fudan Univ



09:00--09:30
Oral 2-1B-2
Invited

Self-Heating In Depletion-Type Si Ring Modulators
W.-Y. Choi, M.-J. Shin, B.-M. Yu, Lars Zimmermann
 Yonsei Univ



09:30--10:00
Oral 2-1B-3
Invited

Silicon Photonics-based Integrated Optical Subassembly For Next Generation Coherent Transceivers
Akimasa Kaneko
 NTT



10:00--10:30
Oral 2-1B-4
Invited

Fully Suspended Silicon Slot Waveguides And Resonators
Wen Zhou, Hon Ki Tsang
 Chinese Univ of Hong Kong



08:30--09:00
Oral 2-1C-1
Invited

High-speed Interferometric Fiber Optic Displacement Sensor With Sub-nm Resolution
Lun-Kai Cheng, Ronald Hagen, Lodi Schriek, Peter Toet, Oana Van der Togt
 TNO

09:00--09:15
Oral 2-1C-2
Anisotropic Nanochain-Clusters Of Nanoferrofluid And Its Applications In Vector Magnetometer
Jinde Yin
 Shenzhen Univ

09:15--09:30
Oral 2-1C-3
Graphene-Coated In-Fiber Mach-Zehnder Interferometer For Ammonia Gas Sensing
Ting Hao, Kin Seng Chiang
 City Univ of Hong Kong

09:30--09:45
Oral 2-1C-4
Analysis Of Signal Spectrum Broadening Of Laser Doppler Velocimetry
Yixiong He, Shuling Hu, Ziao Wan, Zhuo Deng
 Beihang Univ

09:45--10:00
Oral 2-1C-5
Three-dimensional Object Profiling By FMCW Optical Ranging System Using A VCSEL
Koichi Iiyama, Tatsuya Washizuka, Kohei Yamaguchi
 Kanazawa Univ

10:00--10:15
Oral 2-1C-6
Ultrasensitive Pressure Sensor Realized With Two-semicircle Hole Fiber Based On Sagnac Interferometer
Zhengyong Liu, Lin Htein, Hwa-Yaw Tam
 The Hong Kong Polytechnic Univ



08:30--09:00
Oral 2-1D-1
Invited

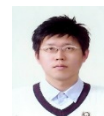
Metasurface-Based Nanophotonic Devices
Nanfeng Yu
 Columbia Univ



09:00--09:30
Oral 2-1D-2
Invited

Spin-controlled Multitasking Geometric Phase Metasurfaces
Erez Hasman
 Technion - Israel Inst. of Technology

09:30--09:45
Oral 2-1D-3
Physics Of Chiroptical Spectroscopy Using Metamaterials
SeokJae Yoo, Q-han Park
 Korea Univ



09:45--10:15
Oral 2-1D-4
Invited

Realization Of 3D Metamaterials At Optical Frequencies
Junsuk Rho
 Pohang Univ of Science and Technology

Wed, 02.08.2017

| | | | |
|--|---|--|--|
| Room E: 4503 Photonic Devices - Towards On-chip Integration I Presider: Ching Eng Jason Png | Room F: 4505 Compound Semiconductor for NIR and MIR Presider: Daohua Zhang | Room G: 4301 Advanced Lasers and Applications II Presider: Weijun Fan | Room H: 4201 High Power, High Energy Lasers III Presider: Shaful Alam |
|--|---|--|--|



08:30--09:00
Oral 2-1E-1
Invited

Hybrid Silicon Photonics Flip-Chip Laser Integration With Vertical Self-Alignment

Moscoso-Martir Alvaro, Merget Florian, Mueller Juliana, Hauck Johannes, Shen Bin, Lelarge Francois, Brenot Romain, Garreau Alexandre, Mentovich Elad, Sandomirsky Anna, Badihi Avner, Rasmussen Daniel E., Setter Rony, Witzens Jeremy
 RWTH Aachen

09:00--09:15

Oral 2-1E-2

Broadband, High-Extinction-Ratio, And Low-Excess-Loss Polarizer Based On Horizontal Slot Silicon Bragg Grating

Yang Wang, Shitao Gao, Ke Wang, Efstratios Skafidas, Hongtao Li
 The Univ of Melbourne

09:15--09:30

Oral 2-1E-3

Ultra-Compact And Broadband Silicon Polarization Rotator

Hongnan Xu, Yaocheng Shi
 Zhejiang Univ

09:30--09:45

Oral 2-1E-4

A Highly Efficient Polarization Beam Splitter with Small Footprint by using a Slot Waveguide

Shijie Gong, Jifang Qiu, Ye Tian, Yan Li, Xiaobin Hong, Jian Wu
 Beijing Univ of Posts and Telecommunications



09:45--10:15
Oral 2-1E-5
Invited

DFB Laser Micro Platform For Silicon Photonics Platform

Takanori Suzuki, Koichiro Adachi, Kohichi Tamura, Akira Nakanishi, Kazuhiko Naoe, Kouji Nakahara, Shigehisa Tanaka
 Oclaro Japan, Inc.



08:30--09:00
Oral 2-1F-1
Invited

Optical Frequency

Comb Generation By Four-wave Mixing With A Seeding Source Of Dual-mode Microlasers

Yong-Zhen Huang, Hai-Zhong Weng, Yue-De Yang, Jin-Long Han, Jun-Yuan Han, Ming-Long Liao, Yun Du
 Univ of Chinese Academy of Sciences

09:00--09:15

Oral 2-1F-2

High Indium InGaAs Detectors And Lasers In 1.7-3 um Range: From Materials To Applications

Y. Gu, Y. G. Zhang, X. Y. Chen, Y. J. Ma, S. P. Xi, B. Du, Y. H. Shi, W. Y. Ji, J. Zhang, Y. Zhu
 Shanghai Institute of Microsystem and Information Technology, CAS

09:15--09:30

Oral 2-1F-3

An AlGaAs/GaAs Nanowire/Quantum-Well Near-Infrared Laser Operating At Room Temperature

Xin Yan, Jinnan Zhang, Jiamin Wang, Bang Li, Qichao Lu, Yanbin Luo, Xia Zhang, Xiaomin Ren
 Beijing Univ of Posts and Telecommunications

09:30--09:45

Oral 2-1F-4

Monolithic Hybrid, II-VI And III-V, Quantum Cascade Detector

Yasin Kaya, Thor A. Garcia, Deborah L. Sivco, Maria C. Tamargo, Claire F. Gmachl
 Princeton Univ

09:45--10:00

Oral 2-1F-5

Hybrid Plasmonic Mode Lasing In Near-Infrared Multiple Quantum Well Nanowires

Jiamin Wang, Xin Yan, Qichao Lu, Yanbin Luo, Bang Li, Xia Zhang, Xiaomin Ren
 Beijing Univ of Posts and Telecommunications

10:00--10:15

Oral 2-1F-6

Reaching Detection Wavelength Of 1um By Type II Superlattice Structure

Wenquan Ma, Jianliang Huang, Yanhua Zhang, Yulian Cao



08:30--09:00
Oral 2-1G-1
Invited

Simple And Compact

Widely Tunable V-cavity Laser

Jian-Jun He
 Zhejiang Univ

09:00--09:30

Oral 2-1G-2

Invited



A Hybrid Silicon

Single Mode Laser Based On Graphene

Kan Qiang, Zhengliang Ren, Guangzhao Ran
 Institute of semiconductor, CAS

09:30--09:45

Oral 2-1G-3

High-resolution Beam Steering Of Slow Light VCSEL Amplifier

Zeuku Ho, Keisuke Shimura, Xiaodong Gu, Masanori Nakahama, Akihiro Matsutani, Fumio Koyama
 Tokyo Institute of Technology

09:45--10:15

Oral 2-1G-4

Invited



III-V Quantum Dot

Lasers Epitaxially Grown On Si

Siming Chen, Mingchu Tang, Jiang Wu, Mnegya Liao, Alwyn Seeds, Huiyun Liu
 Univ College London



08:30--09:15
Oral 2-1H-1
Keynote

Real-time Extremes -

Single Shot Measurements Of Ultrafast Instabilities And Rogue Waves In Nonlinear Optics

John Dudley
 Universite Bourgogne Franche Comte - CNRS FEMTO-ST

09:15--09:45

Oral 2-1H-2

Invited



PCF Technology For

Industrial Ultrafast Laser Systems

Thomas Alkeskjold, Johannes Weirich, Mette Marie Johansen, Torben Kristensen, Anders Sig Olesen, Mattia Michieletto, Marco Triches, Christian Jakobsen
 NKT Photonics

09:45--10:15

Oral 2-1H-3

Invited



'Crystalline-

core/crystalline-cladding' Fiber Concept For Major Laser Power Scaling

Mark Dubinskii, Jun Zhang, Youming Chen, Shizhuo Yin, Clair Luo
 US Army Research Laboratory

10:15--10:30

Oral 2-1H-4

Comparison Of Yb:YAG Single Crystal Fiber With Larger Aperture CPA Pumped At 940 nm And 969 nm

Aleksej Rodin, Eimantas Zopelis
 Center for Physical Sciences and Technology

| | | | |
|---|---|--|---|
| Room I: 4812 Fundamentals of Entrepreneurship President: Anne Marie Droste | Room J: 4912 Modulation Properties of 2D Materials President: Javier Garcia de Abajo | Room K: 4203 Advanced Optical Network Design President: Jiajia Chen | Room L: 4303 Frequency Combs and Waveguide Devices President: Masayuki Matsumoto |
|---|---|--|---|



08:30--09:15
Oral 2-1I-1
Invited

Startups In Optics And Photonics
Eric Swanson
Acacia Communications



09:15--10:00
Oral 2-1I-2
Invited

A Founder And Investor's View Of Photonics Today
Frank Levinson
Phoenix Venture Partners



08:30--09:15
Oral 2-1J-1
Keynote

Advanced 2D Materials For Photonics
Antonio H. Castro Neto
National Univ of Singapore



09:15--09:45
Oral 2-1J-2
Invited

Graphene Based Optoelectronics: From Visible To Microwave
Coskun Kocabas
Bilkent Univ



09:45--10:15
Oral 2-1J-3
Invited

Opto-electronic Device Scaling For Atto-Joule Nanophotonics: Example Sub-1Volt Modulator
Volker Sorger, Ke Liu, Shuai Sun, Arka Majumdar
George Washington Univ

10:15--10:30
Oral 2-1J-4
Incoherent Optical Modulation Of Graphene Based On Inline Fiber Mach-Zehnder Interferometer
Lei Gao, Cong Gao, Tao Zhu
Chongqing Univ



08:30--09:00
Oral 2-1K-1
Invited

Mode Division Multiplexed Networks
Ken-ichi Kitayama, Nikolas P. Diamantopoulos, Yukii Yoshida, Akihiro Maruta
Graduate School for the Creation of New Photonics Industries



09:00--09:30
Oral 2-1K-2
Invited

Path Planning Optimization for Optical Cables
Moshe Zukerman
City Univ of Hong Kong

09:30--09:45
Oral 2-1K-3
Inter-Core Crosstalk-Aware Routing, Spectrum And Core Allocation In Multi-Dimensional Optical Networks
Shan Yin, Shanguo Huang, Bingli Guo, Cheng Wang, Haibin Huang, Tao Gao
Beijing Univ of Posts and Telecommunications

09:45--10:00
Oral 2-1K-4
Traffic Management In SDN-enabled Optical Packet Switching Intra-datacenter Network
Eric Dutisseuil, Bogdan Uscumlic, Jose Manuel Estaran Tolosa, Haik Mardoyan, Quan Pham Van, Arnaud Dupas, Yvan Pointurier
Nokia Bell Labs



10:00--10:30
Oral 2-1K-5
Invited

High Port Count Hybrid Optical Switches For Data Centre Networks
Ian White
Univ of Cambridge



08:30--09:00
Oral 2-1L-1
Invited

Generation Of Mode-locked Frequency Combs From Normal-dispersion Microresonators
Xiaoxiao Xue, Andrew M. Weiner, Minghao Qi
Tsinghua Univ

09:00--09:15
Oral 2-1L-2
Active Photonic Integrated Circuits Using Semiconductor Optical Amplifiers
Yiwei Xie, Leimeng Zhuang, Arthur Lowery
Monash Univ

09:15--09:30
Oral 2-1L-3
Characterization Of Electromagnetic Eigenmodes: Current State And Challenges
Yuriy Akimov, Wee Kee Phua, Artyom Assadillayev
Institute of High Performance Computing, A*STAR

09:30--09:45
Oral 2-1L-4
Demonstration Of Direct Coupling Between A Toroid Microcavity And A Photonic Crystal Waveguide
Tomohiro Tetsumoto, Hajime Kumazaki, Yoshihiro Honda, Takasumi Tanabe
Keio Univ

09:45--10:00
Oral 2-1L-5
Design Of All Optical 1-bit And 2-bit Magnitude Comparator Using Micro-ring Resonator
Jayanta Kumar Rakshit
National Institute Of Technology Agartala

10:00--10:15
Oral 2-1L-6
67.6% Improvement In Data Rate Employing Partial Transmit Sequence For PAPR Reduction And Volterra Filtering In An OFDM Long-Reach PON
Chun-Yen Chuang, Chia-Wei Hsu, Chia-Chien Wei, Jun-Jie Liu, Hong-Minh Nguyen, Young-Kai Chen, Jyehong Chen
National ChiaoTung Univ

Wed, 02.08.2017

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|--|---|---|---|
| Room M: 4611 Laser Surface Modification President: Baohua Jia | Room N: 4612 Optical Interconnection III President: Jiangbing Du | Room O: 4613 Quantum Communication President: Leong Chuan Kwek | Room P: 4711 Optical Sensor Technology I President: Daping Chu |
|--|---|---|---|



08:30--09:00
Oral 2-1M-1
Invited

Surface Modification Of Rare Earth Magnesium Alloy Through Surface Irradiation In Various Environments
Sylvie Castagne, Indira Khadka, Zhongke Wang, H.Y. Zheng
 Nanyang Technological Univ



09:00--09:30
Oral 2-1M-2
Invited

Laser Induced Backside Wet Etching Of Sapphire Substrate
Xiaozhu Xie
 Guangdong Univ of Technology

09:30--09:45

Oral 2-1M-3
Pulsed-Laser-Induced Micro-bumps On Mica For Fiducial Marking
Doug Little, Malcolm Lawn, Ben Johnston, Deb Kane
 Macquarie Univ

09:45--10:00

Oral 2-1M-4
Wettability Of Si Surface Under Combination Of NLL And Surface Plasma Polymerization
Serim Ilday, Onur Tokel, Ihor Pavlov, Omer Ilday
 Bilkent Univ

10:00--10:15

Oral 2-1M-5
Doppler Effect On Nanopatterning With Nonlinear Laser Lithography
Ozgun Yavuz, Semih Kara, Onur Tokel, Ihor Pavlov, Fatih Omer Ilday
 Bilkent Univ



08:30--09:00
Oral 2-1N-1
Invited

Double-Side EML For High Speed Optical Short Reach And Metro Applications
Kangping Zhong, Xian Zhou, Jiahao Huo, Hongyu Zhang, Alan Pak Tao Lau, Changyuan Yu, Chao Lu
 The Hong Kong Polytechnic Univ



09:00--09:30
Oral 2-1N-2
Invited

High-speed Data Transmission Based On Vector Mode Division Multiplexing For Short-reach Optical Interconnect
Jianping Li, Jianbo Zhang, Fan Li, Zhaohui Li
 Jinan Univ

09:30--09:45

Oral 2-1N-3
Investigation Of Mirror-resistance Reduction In The Signal Transmission Integrity Of VCSELS
Chun-Yen Peng, Yan-Chien Lee, Cheng-Ting Tsai, Shan-Fong Leong, Hsuan-Yun Kao, Yu-Chieh Chi, Gong-Ru Lin, Chao-Hsin Wu
 Graduate Institute of Photonics and Optoelectronics

09:45--10:00

Oral 2-1N-4
Net 100G Discrete Multi-tone Transmission Using 850 nm MM-VCSEL And Four-Dimensional Modulation Formats
Xiaofeng Lu, Vladimir Lyubopytov, Idelfonso Tafur Monroy
 Technical Univ of Denmark

10:00--10:15

Oral 2-1N-5
Sub-volt Wavelength Sweep Operation Of MEMS VCSEL Employing High-Q Mechanical Resonance
Masanori Nakahama, Shunya Inoue, Shun Nishimura, Akihiro Matsutani, Takahiro Sakaguchi, Fumio Koyama
 Tokyo Institute of Technology

10:15--10:30

Oral 2-1N-6
Cost-effective And Miniaturized 40Gb/s CWDM VCSEL TOSA For Mega Datacenter Connectivity
Jubin Yeom, Eun-Gu Lee, Jyung Chan Lee, Sangsoo Lee
 Optella Inc.



08:30--09:00
Oral 2-1O-1
Invited

Heralded Noiseless Linear Amplification And Its Applications To Quantum Communication
Ping Koy Lam
 Australian National Univ

09:00--09:15

Oral 2-1O-2
Continuous Variable Quantum Repeaters: A Core Element Of Tomorrow's Quantum Internet
William John Munro
 NTT BRL

09:15--09:30

Oral 2-1O-3
Can Additional Dispersion Do Any Good To The Range Of Quantum Communication?
Mikolaj Lasota
 Nicolaus Copernicus Univ

09:30--09:45

Oral 2-1O-4
Effect Of Loss On Parametric Amplification Of Single Photons
Dmitrii Vavulin, Andrey Sukhorukov
 ITMO Univ



08:30--09:00
Oral 2-1P-1
Invited

Power Referenced Magnetic Field Sensors Based On Tilted Optical Fiber Bragg Gratings
Xinyang Dong
 China Jiliang Univ

09:00--09:15

Oral 2-1P-2
Few-mode Fiber Based Raman Distributed Temperature Sensing Over 25 Km With Link Optimization And Wavelet-denoising
Meng Wang, Hao Wu, Ming Tang, Songnian Fu, Deming Liu
 Huazhong Univ of Science & Technology



09:15--09:45
Oral 2-1P-3
Invited

An Improved Power-flow Theory For Multimode Optical Fiber And Its Applications In Optical Speckle Sensing
Lei Su
 Queen Mary Univ of London

09:45--10:00

Oral 2-1P-4
High Accuracy Self-correction Of The Air-refractive Index With A Single Color Comb Interferometer
Makino Tomohiro, Miyano Kouki, Shilin Xiong, Guanhao Wu, Schibli Thomas, Nakajima Yoshiaki, Minoshima Kaoru
 The Univ of Electro-Communications

10:00--10:15

Oral 2-1P-5
Robust Measurement Of Specular Surfaces With One Shot Projection And Pattern Registration
Zhenzhou Wang
 Shenyang institute of automation, Chinese Academy of Sciences

Conference Program

| Room Q: 4712 Terahertz Science, Technology and Applications III Presider: Hao Yu | Room R: 4713 Optical 3D Microfabrication for Photonics I Presider: Hong-Bo Sun | Room S: 4811 Photonics Technologies for Primary Point-of-care and Global Health III Presider: Elaine Wong | Room T: 4911 Biomaging and Biosensing Presider: Linbo Liu |
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08:30--09:00
Oral 2-1Q-1
Invited

**Terahertz
Metasurface Devices With High
Efficiency**
Yan Zhang
Capital Normal Univ



08:30--09:00
Oral 2-1R-1
Invited

**Holographic Shaping
Of Femtosecond Laser Pulses And
Its Applications**
Kota Kumagai, Satoshi Hasegawa
Utsunomiya Univ



08:30--09:00
Oral 2-1S-1
Invited

**CMOS Technologies
For Analytical Bio-diagnosis**
Chih-Ting Lin
National Taiwan Univ



08:30--08:50
Oral 2-1T-1
Invited

**Dynamic High
Throughput Optical Imaging Of
Mammalian Vascular Systems**
Woei Ming Lee
Australian National Univ



09:00--09:30
Oral 2-1Q-2
Invited

**Hollow-core
Terahertz Waveguides Based On
Photonic Band-gap Cladding**
Georges Humbert
XLIM Research Institute



09:00--09:30
Oral 2-1R-2
Invited

**Chemical Etching
Assisted Femtosecond Laser
Machining**
Qi-Dai Chen
Jilin Univ



09:00--09:30
Oral 2-1S-2
Invited

**Using Nonlinear Microscopy To
Probe Human Enamel And Tooth
Decays**
Chin-ying Hsu
National Univ of Singapore



08:50--09:10
Oral 2-1T-2
Invited

**Label-free Detection
Of Circulating Melanoma Cells By
In Vivo Photoacoustic Flow
Cytometry**
Xunbin Wei
Shanghai Jiao Tong Univ

09:30--09:45
Oral 2-1Q-3

**Local Excitation Of THz Meta-
Atoms**
*Kazunori Serita, Juraj Darmo, Iwao
Kawayama, Hironaru Murakami,
Masayoshi Tonouchi*
Osaka Univ



09:30--10:00
Oral 2-1R-3
Invited

**Large Area Printed
Flexible Hybrid Photonic-
Electronic Systems**
Debashis Chanda
Univ of Central Florida



09:30--10:00
Oral 2-1S-3
Invited

**Improvement Of In
Vivo Two-Photon Microscopy By
Utilizing Novel Optical
Technologies**
Nemoto Tomomi
Hokkaido Univ



09:10--09:30
Oral 2-1T-3
Invited

**In Vivo Optical
Imaging Of The Spatio-temporal
Dynamic Information Of
Immunocytes During Tumor
Immunotherapy**
Zhihong Zhang
Huazhong Univ of Science and
Technology

09:45--10:00
Oral 2-1Q-4

**Development Of Electrochemical
Measurement Method Using A
Terahertz Chemical Microscope**
*Yuki Kawakami, Kentaro Fujiwara,
Kenji Sakai, Toshihiko Kiwa, Keiji
Tsukada*
Okayama Univ

10:00--10:15

Oral 2-1S-4
**Fiber-optic In-line Mach-Zehnder
Modal Interferometer For
Breathing Monitoring Application**
*Ketian Wang, Wei Xu, Na Zhang,
Kunpu Li, Cheungchuen Yu,
Changyuan Yu*
Univ of Electronic Science and
Technology of China

09:30--09:45

Oral 2-1T-4
**Development And Evaluation Of
LED Light Source For Contrast
Enhancement In Minimally-
invasive Procedures**
*Simon Schams, Elham Nabavi,
Mohan Singh, Neil Clancy, Erik
Mayer, George Hanna, Daniel Rees
Whippey, Angharad Curtis, Chris
Price, Nigel Copner, Daniel Elson*
Imperial College London

10:00--10:15

Oral 2-1Q-5
**Label-free And Real-time
Detection Of Interaction Between
Biological Molecules Using
Terahertz Chemical Microscope**
*Yuki Hanaoka, Tatsuki Kamiya,
Kenji Sakai, Toshihiko Kiwa, Keiji
Tsukada*
Okayama Univ

10:15--10:30

Oral 2-1S-5
**2D Photonic Crystal Micro Cavity
Ring Resonator Based Sensor For
Biomedical Applications**
*Mayur Chhipa, S. Robinson,
Massoudi Radhouene, Monia
Najjar, K. Srimannarayana*
K L Univ

09:45--10:00

Oral 2-1T-5
**Identification Of Various Oral
Mucosae With Optical Coherence
Tomography**
*Cheng-Yu Lee, Wei-Chuan Chen,
Meng-Tsan Tsai, Nguyen Hoang
Trung*
Chang Gung Univ

10:15--10:30

Oral 2-1Q-6
**Coupled Dielectric-metal
Subwavelength Gratings For
Terahertz Polarization Converter
And One-way Transmission**
*Shi-Tong Xu, Fei Fan, Xiang-Hui
Wang, Sheng-Jiang Chang*
Nankai Univ

10:00--10:15

Oral 2-1T-6
**Gastric And Colon Cancer Imaging
With Swept Source Optical
Coherence Tomography**
Site Luo, Li Huo
Tsinghua Univ

Wed, 02.08.2017

10:15--10:30
Oral 2-1T-7
Design And Optimization Of Spectrometer With High Efficiency For SD-OCT
Lulu Wang, Xiaojun Yu, Xin Ge, En Bo, Xianghong Wang, Nanshuo Wang, Xuan Wu, Guanming Ni, Linbo Liu
 Nanyang Technological Univ

| | | | |
|---|--|---|---|
| Room A: 4401 Fiber-Based Technologies and Applications IV President: Thibaut Sylvestre | Room B: 4403 Photonic Integration President: Woo-Young Choi | Room C: 4405 Special Fiber Sensors President: Bo Lin | Room D: 4501 Plasmonics I President: Niels Asger Mortensen |
|---|--|---|---|



10:45--11:15
Oral 2-2A-1
Invited

Semiconductor

Optical Fibers For Nonlinear Photonics
Anna Peacock, Haonan Ren, Noel Healy, Antoine Runge
 Univ of Southampton



11:15--11:45
Oral 2-2A-2
Invited

Engineering Surface

And Rheological Properties For The Next Generation Of Thermally Drawn Fiber-based Devices
Fabien Sorin, Yunpeng Qu, Tung Nguyen-Dang, Wei Yan, Alexis Page, Tapajyoti Das Gupta, Federica Sordo
 EPFL

11:45--12:00

Oral 2-2A-3
Deformable Wire Array: Fiber Drawn Tunable Metamaterials
Simon Fleming, Alessio Stefani, Xiaoli Tang, Alexander Argyros, Daniel Kemsley, James Cordi, Richard Lwin
 The Univ of Sydney

12:00--12:15

Oral 2-2A-4
Relative Humidity And Temperature Sensor Based On Polished Tilted Fiber Bragg Gratings
Jui-Nan Cheng, Hung-Ying Chang, Wen-Fung Liu, Po-Chia Huang, Fan Ku, Yu-Chung Chang
 Feng-Chia Univ

12:15--12:30

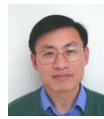
Oral 2-2A-5
Simultaneous Cutoff-Wavelength Measurement Of Multi-core Fibers Using A Near-Infrared Camera
Shota Saitoh, Yoshimichi Amma, Yusuke Sasaki, Katsuhiro Takenaga, Kazuhiko Aikawa
 Fujikura Ltd.



10:45--11:15
Oral 2-2B-1
Invited

Silicon Photonic

Integrated Circuits With Multiple Modes
Daoxin Dai
 Zhejiang Univ



11:15--11:45
Oral 2-2B-2
invited

New Advances On

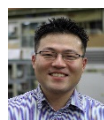
Hybrid III-V/Silicon Photonic Integrated Circuits For Optical Communication Applications
Guang-Hua Duan
 III-V Lab and Bell Labs



11:45--12:15
Oral 2-2B-3
Invited

Design And

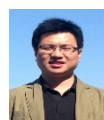
Applications Of High-Delta Silica Planar Lightwave Circuits
Shintaro Yamasaki, Junichi Hasegawa
 Furukawa Electric Co., LTD.



12:15--12:45
Oral 2-2B-4
Invited

Ultrahigh-Efficiency

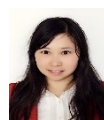
Frequency Conversion Of Light And Sound In Submicro-Scaled Photonic Systems
Myeong Soo Kang
 Korea Advanced Institute of Science and Technology (KAIST)



10:45--11:15
Oral 2-2C-1
Invited

Sensing Application

Based On Helical-Structured Multicore Fiber
Zhifang Wu, Hailiang Zhang, Perry Ping Shum, Xuguang Shao, Zhilin Xu, Ming Tang
 Huaqiao Univ



11:15--11:45
Oral 2-2C-2
Invited

Microfiber Optic

Biochemical Sensors
Qizhen Sun
 Huazhong Univ of Science and Technology

11:45--12:00

Oral 2-2C-3
Selectively Filled Dual-Core Photonic Crystal Fiber Sensors Interrogated By Low Coherence Interferometer For Temperature Measurement
Meng Jiang, Kun Li, Zhong Ze Zhao, Ze Ming Wang
 Donghua Univ

12:00--12:15

Oral 2-2C-4
An Erbium Doped Fiber Laser-based Intra-cavity Photoacoustic C2H2 Gas Sensor
Qiang Wang, Zhen Wang, Wei Ren
 The Chinese Univ of Hong Kong

12:15--12:30

Oral 2-2C-5
A High Sensitivity Fiber Laser Microphone
Wentao Zhang, Fang Li
 Institute of Semiconductors, Chinese Academy of Sciences



10:45--11:15
Oral 2-2D-1
Invited

Higher-order Surface Plasmons Resonances In Single Silver Nanoparticles And Plasmonic Resonance In Laser-induced Damaged Metal Films At Percolation

Nicolas Stenger, Frydendahl Christian
 Technical Univ of Denmark



11:15--11:45
Oral 2-2D-2
Invited

Optical Trapping And Logic Manipulation On Nanofluidic Chips

Guanghui Wang, Ho-Pui HO, Xuping Zhang
 Nanjing Univ



11:45--12:15
Oral 2-2D-3
Invited

Wavelength And

Polarization Manipulation In Nano-Photonic Structures
Lianshan Yan, Kunhua Wen, Yinghui Guo, Wei Pan, Bin Luo
 Southwest Jiaotong Univ

12:15--12:30

Oral 2-2D-4
Composite Bow-tie Nano-antenna
Monir Morshed, Abdul Khaleque, Haroldo Hattori
 The Univ of New South Wales

Conference Program

12:30--12:45

Oral 2-2A-6

Accurate Measurement Of Total Mode Coupling In Few Mode Fibers (FMFs) Based On A Modified Spatial And Spectral Resolved (S2) Imaging System

Fengze Tan, Changyuan Yu, Jian Zhao, Guifang Li

The Hong Kong Polytechnic Univ

| Room E: 4503 Photonic Devices - Towards On-chip Integration II President: Ching Eng Jason Png | Room F: 4505 High Intensity Ultrafast Phenomena I President: Houkun Liang | Room G: 4301 Advanced Lasers and Applications III President: Houxiao Wang | Room H: 4201 Solitons and Related Nonlinear Effects President: John Dudley |
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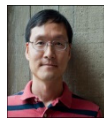
10:45--11:15

Oral 2-2E-1
Invited

Applications Of

Germanium Implantation In Silicon Photonics Circuits

Xia Chen, Milan Milosevic, David Thomson, Graham Reed
Univ of Southampton



10:45--11:15

Oral 2-2F-1
Invited

High-energy Mid-

infrared Sub-cycle Pulse Synthesis

Kyung-Han Hong, Peter Krogen, Tobias Kroh, Franz Kaertner, Houkun Liang
Massachusetts Institute of Technology



10:45--11:15

Oral 2-2G-1
Invited

Ultrasound-Assisted

Pulsed Laser Drilling for Fabricating High Quality Microholes

Houxiao Wang, Naifei Ren, Lin Li, Kaibo Xia, Sukai Zhu, Chunhui Shi, Xudong Ren
Jiangsu Univ



10:45--11:15

Oral 2-2H-1
Invited

Shape And Properties

Of Pure Quartic Solitons

Martijn De Sterke, Andrea Blanco-Redondo, Aleksa Sarai, Lo Chih-Wei, Ben Eggleton, Michael Steel
Univ of Sydney

11:15--11:30

Oral 2-2E-2

Silicon Photonic Bandwidth-Tunable Filter Based On 16-Tap Finite Impulse Response

Ken Tanizawa, Keijiro Suzuki, Kazuhiro Ikeda, Shu Namiki, Hitoshi Kawashima

National Institute of Advanced Industrial Science and Technology (AIST)



11:15--11:45

Oral 2-2F-2
Invited

Frontiers Of

Femtosecond Parametric Amplifiers: Sub-optical-cycle Pulses From The Visible To The Mid-infrared By Coherent Synthesis

Giovanni Cirmi, Huseyin Cankaya, Giulio Maria Rossi, Anne-Laure Calendron, Roland Mainz, Shih-Hsuan Chia, Shaobo Fang, Haim Suchowski, Oliver D. Mucke, Franz X. Kartner
CFEL/DESY, CUI



11:15--11:45

Oral 2-2G-2
Invited

High Power, Narrow

Linewidth DFB-based Widely Tunable Lasers For Digital Coherent Communication

Tatsuro Kurobe, Kazuaki Kiyota, Toshihito Suzuki, Shunsuke Okuyama, Maiko Ariga, Yusuke Inaba, Kazuki Yamaoka, Hajime Mori

Furukawa Electric Co., LTD

11:15--11:30

Oral 2-2H-2

Few-cycle Solitons That Do Not Want To Be Too Short In Duration
Uwe Bandelow
WIAS Berlin

11:30--11:45

Oral 2-2E-3

Ultra-compact Dual-parameter Sensing Based On A Photonic Crystal Rectangular Holes Nanobeam Multimode Microcavity

Lin Zhang, Fujun Sun, Zhongyuan Fu, Chao Wang, Huiping Tian
Beijing Univ of Posts and Telecommunications



11:45--12:15

Oral 2-2F-3
Invited

Carrier-envelope

Phase Stabilization Of Few-cycle Pulses From Solid Plates And Application In High-harmonic Generation

Kun Zhao
Institute of Physics, Chinese Academy of Sciences

11:45--12:00

Oral 2-2G-3

Non-mechanical Beam Scanner Integrated VCSEL For Solid State LiDAR

Keisuke Shimura, Zeuku Ho, Masanori Nakahama, Xiaodong Gu, Akihiro Matsutani, Fumio Koyama
Tokyo Institute of Technology.

11:30--11:45

Oral 2-2H-3

Solitonisation Of Anderson Localisation And Optical-event Horizons In Rogue-solitons Generation
Mohammed Saleh, Claudio Conti, Fabio Biancalana
Heriot-Watt Univ

11:45--12:00

Oral 2-2E-4

Versatile Bezier Bends For Silicon Photonics

Thomas Ang, Junrong Ong, Soon Thor Lim, Ching Eng Jason Png, Tina Guo, Hong Wang
Institute of High Performance Computing



12:15--12:45

Oral 2-2F-4
Invited

Burst Of Coherent

Terahertz Radiation From Intense Laser- Foil Interactions

Yutong Li
Institute of Physics, Chinese Academy of Sciences



12:00--12:30

Oral 2-2G-4
Invited

Reliability

Perspective On The Methods To Enhance High Power LEDs Intensity And Efficacy

Cher Ming Tan, Preetpal Singh, Wenyu Zhao, Hao-Chung Kuo
Chang Gung Univ

11:45--12:00

Oral 2-2H-4

Controlling Cherenkov Radiation Emission Through Self-accelerating Wave-packets
Zhili Li, Benjamin Wetzel, Roberto Morandotti, Zhigang Chen, Jingjun Xu
Nankai Univ



12:00--12:30

Oral 2-2H-5
Invited

Soliton Dynamics In

Femtosecond Lasers Observed Via Real-Time Spectroscopy

Geory Herink
Univ of Goettingen

12:00--12:15

Oral 2-2E-5

Nonlinear SNAP Bottle Resonators For Frequency Comb Generation

Sergey Suchkov, Mikhail Sumetsky, Andrey Sukhorukov
The Australian National Univ

12:30--12:45

Oral 2-2G-5

Influence of Assist Gases on Pulsed Laser Drilling of Nickel-

Based Superalloy
 Houxiao Wang, Naifei Ren, Wen Zhang, Kaibo Xia, Li Zhang
 Jiangsu Univ

| | | | |
|--|--|--|--|
| Room I: 4812 Industry and Entrepreneurship Prsider: Songyang Li | Room J: 4912 2D materials for chemical and photo-detection Prsider: Volker Sorger | Room K: 4203 Next Generation Optical Access Networks Prsider: Shanguo Huang | Room L: 4303 Optical Signal Processing Prsider: Chester Shu |
|--|--|--|--|



10:45--11:15
Oral 2-2I-1
Invited

Photonics Technologies For Today And Tomorrow
Kenneth Tai
 Jasper Display Corp. (JDC)



11:15--11:45
Oral 2-2I-2
Invited

Risk Management In A Startup
Daniel Renner
 Freedom Photonics



11:45--12:15
Oral 2-2I-3
Invited

The Changing Landscape Of Photonics Commercialisation
John Harvey
 Southern Photonics Ltd



10:45--11:15
Oral 2-2J-1
Invited

Control Of Chemical Reactions With Hyperbolic Metamaterials, Resonant Cavities And Metallic Surfaces
V. N. Peters, C. Yang, M. O. Faruk, R. Alexander, D. A. Peters, M. A. Noginov
 Norfolk State Univ



11:15--11:45
Oral 2-2J-2
Invited

Ultrafast Imaging For Single-cell Analysis
Keisuke Goda
 Univ of Tokyo

11:45--12:00
Oral 2-2J-3
WSe₂-In₂O₃ Nanowire Infrared Phototransistor
Nan Guo, Junku Liu, Yi Jia, Sijia Wang, Lei Wang, Peng Qin, Lin Xiao
 China Academy of Space Technology

12:00--12:15
Oral 2-2J-4
GaAs-Nanowire-Array/Graphene Schottky Diodes For Photodetection
Yao Wu, Yan Xin, Bang Li, Yanbin Luo, Qichao Lu, Xia Zhang, Xiaomin Ren
 Beijing Univ of Posts and Telecommunications

12:15--12:30
Oral 2-2J-5
Light Polarization Dependent Photocurrents In Biased Graphene And 2D Semiconductors
Mustafa Eginligil
 Nanjing Tech Univ

12:30--12:45
Oral 2-2J-6
Solvothermal Growth Of ZnO Nanoparticles On Monolayer MoS₂ For Enhanced Optical Properties
Shrwawan Roy, Jeongyong Kim
 Sungkyunkwan Univ



10:45--11:15
Oral 2-2K-1
Invited

Future Networking In Access
Frank Effenberger
 Futurewei Technologies



11:15--11:45
Oral 2-2K-2
Invited

Minimizing Registration Overhead For Multipoint-to-Multipoint Communication In Passive Optical Interconnects
Jiajia Chen, Shen Xiaoman, Sailing He
 KTH Royal Institute of Technology

11:45--12:00
Oral 2-2K-3
Novel Carrier Phase Estimation Method For High-speed Coherent WDM PON Based On RSOA
Daeho Kim, Byung Gon Kim, Sung Hyun Bae, Hoon Kim, Y. C. Chung
 KAIST

12:00--12:15
Oral 2-2K-4
50Gb/s 4PAM BM-EDC Scheme For TDM-PON Upstream Traffic
Yanxu Chen, Cheng Ju, Zhiguo Zhang, Qi Guo, Xingang Huang
 Beijing Univ of Posts and Telecommunications

12:15--12:30
Oral 2-2K-5
N2a-compliant SFP+ OLT Transceiver For High Power Budget XG-PON Systems
Daisuke Mita, Satoshi Shirai, Satoshi Yoshima, Tetsuro Ashida, Masaki Noda
 Mitsubishi Electric Corporation

12:30--12:45
Oral 2-2K-6
Bidirectional 100Gb/s/λ SDM-WDM-PON For High-speed/capacity Access Networks
Zhen Wang, Ying Wang, Wei Liu, Ying Shen, Shanhong You, Xiang Li, Ming Luo, Qi Yang
 Soochow Univ



10:45--11:15
Oral 2-2L-1
Invited

Ultra-low Noise Amplification And Its Application To Optical Communication
Andrekson Peter
 Chalmers Univ of Technology

11:15--11:30
Oral 2-2L-2
Regenerative Wavelength Conversion Of PAM-4 Signals Using XGM With Blue-Shift Filtering In A QD-SOA
Ohtsuki Tatsuya, Yatsu Tomoya, Matsuura Motoharu
 Univ of Electro-Communications

11:30--11:45
Oral 2-2L-3
Reconfigurable Optical Logic Gate Of AND, OR, NAND And NOR Based On Polarization Modulation With Direct Detection
Zhongqin Fang, Xianfeng Tang, Yaxue Zhai, Xiaoguang Zhang, Lixia Xi, Wenbo Zhang
 Beijing Univ of Post and Telecommunication



11:45--12:15
Oral 2-2L-4
Invited

Alternatives To All-Electronics Processing In Coherent Transmission Links
Stojan Radic
 Univ of California

12:15--12:30
Oral 2-2L-5
Complex Hologram Acquisition For Fluorescence Signal Of Latent Fingerprint With Self-interference Incoherent Digital Holography
Youngmo Jeong, Changwon Jang, Kiseung Bang, ByoungHo Lee
 Seoul National Univ

Conference Program

| | | | |
|---|--|---|--|
| Room M: 4611 Laser Texturing and Patterning I President: Xiaozhu Xie | Room N: 4612 Integrated Photonics for Optical Signal Processing President: Dawn Tan | Room O: 4613 Quantum Emitters and Modules President: William Munro | Room P: 4711 Optical Sensor Technology II President: Xinyong Dong |
|---|--|---|--|



10:45--11:15
Oral 2-2M-1
Invited

Laser Processing Of Nanomaterials For Fabricating Transparent Electrodes
Jeonghong Ha, Taesoon Park
 POSTECH



10:45--11:15
Oral 2-2N-1
Invited

Compact Brillouin Devices Through Hybrid Integration On Silicon
Benjamin Eggleton
 Univ of Sydney



10:45--11:15
Oral 2-2O-1
Invited

A Universal Quantum Module For Quantum Computation And Communication
Kae Nemoto
 National Institute of Informatics



10:45--11:15
Oral 2-2P-1
Invited

Highly Sensitive Strain Measurement Using Crescent Shaped Fabry-Perot Fiber Cavity
Dongning Wang
 China Jiliang Univ



11:15--11:45
Oral 2-2M-2
Invited

Durability And Biological Corrosion Inhibition Of Laser Textured Superhydrophobic Surfaces In Seawater
Fengping Li, Huan Yang, Yu Cao, Wei Xue
 Xiamen Univ



11:15--11:45
Oral 2-2N-2
Invited

Integrated Brillouin RF Photonic Signal Processor
David Marpaung
 CUDOS, Univ of Sydney



11:15--11:45
Oral 2-2O-2
Invited

Quantum Emitters In Flatland
Igor Aharonovich
 Univ of Technology Sydney

11:15--11:30
Oral 2-2P-2

Compact Open-path Detection Of N2O Gas With Low Concentration Of Ppb Level Based On QCL
Byoung-Uk Sohn, Peng Xing, Dawn T.H. Tan
 Singapore Univ of Technology and Design



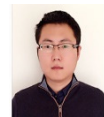
11:45--12:15
Oral 2-2M-3
Invited

Laser-processed Micropatterned Quantum-dot Array For Novel White Light Source
Tsung Sheng Kao, Sheng-Wen Wang, Ming-Hui Hong, Kuo Hao-Chung
 National Chiao Tung Univ



11:45--12:15
Oral 2-2N-3
Invited

Low Loss Si-rich Silicon Nitride For Nonlinear Signal Processing Applications
Cosimo Lacava, Stevan Stankovic, Ali Khokhar, Thalia Dominguez Bucio, Frederic Gardes, Graham Reed, David Richardson, Periklis Petropoulos
 Univ of Southampton



11:45--12:15
Oral 2-2O-3
Invited

Coherent Manipulation Of A Strongly Driven Silicon Vacancy Optical Transition In Diamond
Weibo Gao
 Nanyang Technological Univ

11:30--11:45
Oral 2-2P-3

Photoacoustic Spectroscopy Using Remote Optical Measurement System
Kazuhide Sato, Kazuyoku Tei, Shigeru Yamaguchi, Yoshito Sonoda
 Tokai Univ

12:15--12:30
Oral 2-2M-4

Laser-slicing Of Silicon With Nonlinear Laser Lithography
Onur Tokel, Ahmet Turnali, Tahir Colakoglu, Serim Ilday, Mona Borra, Ihor Pavlov, Alpan Bek, Rasit Turan, Omer Ilday
 Bilkent Univ



12:15--12:45
Oral 2-2N-4
Invited

Microwave And RF Applications Of Micro-combs
David Moss
 Swinburne Univ of Technology

12:15--12:30
Oral 2-2O-4

Active Spatial Demultiplexing Of A Single Photon Emitter
Ben Haylock, Francesco Lenzini, Juan Lored, Raphael Abrahao, Nor Zakaria, Sachin Kasture, Isabelle Sagnes, Aristide Lemaitre
 Griffith Univ

11:45--12:00
Oral 2-2P-4

Multimode Interference Based High Sensitivity Refractive Index Sensor By Shining Zeroth Order Bessel-Gauss Beam
Ardhendu Saha, Arijit Datta
 National Institute of Technology Agartala

12:30--12:45
Oral 2-2M-5

Room-Temperature Capsule-Shaped Wavelength-Scale Metal-Clad Laser Operating At 1550 nm
Yi Xiao, Taylor Richard, Chuangqing Yu, Takuo Tanemura, Yoshiaki Nakano
 Univ of Tokyo

12:30--12:45
Oral 2-2O-5

Random Numbers From Vacuum Fluctuations
Yicheng Shi, Brenda Chng, Christian Kurtsiefer
 Center for Quantum Technologies

12:00--12:15
Oral 2-2P-5

A Comparison Of Terahertz Time Domain Spectroscopy And Terahertz Digital Holography For Large Film Thickness Measurement
Dahi Abdelsalam
 National Institute of Standards

12:15--12:30
Oral 2-2P-6

Design And Fabrication Of A Crossed Grating With Multiple Zero-reference Marks For Surface Encoders
Xinyu Mao, Lijiang Zeng
 Tsinghua Univ

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|--|--|---|---|
| Room Q: 4712 Black Phosphorus President: Ju Han Lee | Room R: 4713 Optical 3D Microfabrication for Photonics II President: Na Liu | Room S: 4811 Photonics Technologies for Primary Point-of-care and Global Health IV President: Quan Liu | Room T: 4911 Emerging Biotechnologies President: Linbo Liu |
|--|--|---|---|



10:45--11:15
Oral 2-2Q-1
Invited

Black Phosphorus With Enhanced Stability: From Nonlinear Optics To Photo Induced Biomedical Treatment
Zhinan Guo, Han Zhang
Shenzhen Univ



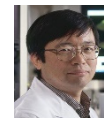
10:45--11:15
Oral 2-2R-1
Invited

Strategies For Laser Writing/printing Of Micro-optical Elements
Saulius Juodkazis
Swinburne Univ of Technology



10:45--11:15
Oral 2-2S-1
Invited

Raman Spectroscopic Detection Of Peripheral Nerves Towards Nerve-sparing Surgery
Takeo Minamikawa
Tokushima Univ



10:45--11:05
Oral 2-2T-1
Invited

Near Infrared Photoimmunotherapy For Cancer
Hisataka Kobayashi
NCI/NIH



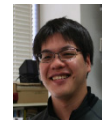
11:15--11:45
Oral 2-2Q-2
Invited

Functional Inks Of Black Phosphorus And Metal Dichalcogenides For Inkjet Printed Saturable Absorbers
Tawfique Hasan
Univ of Cambridge



11:15--11:45
Oral 2-2R-2
Invited

3D Laser Microfabrication Of Optical Components And Biomedical Implants
Ulf Hinze, Boris Chichkov
Laser Zentrum Hannover e.V.



11:15--11:45
Oral 2-2S-2
Invited

Optical Coherence Tomography And Microscopy In Optical Window 3 (1600-1870 nm) For High-resolution Deep-tissue Imaging
Yamanaka Masahito, Kawagoe Hiroyuki, Teranishi Tatsuhiko, Nishizawa Norihiko
Nagoya Univ

11:05--11:20
Oral 2-2T-2
Gold And Silver Nanoparticle Blinking For Stochastic Optical Reconstruction Microscopy Using Standard Microscope Cameras
Changyoung Gao, Meiyu Gai, Luru Dai, Gleb B. Sukhorukov, Andre Sapelkin, Qiang He, Johannes Frueh
Harbin Institute of Technology



11:45--12:15
Oral 2-2Q-3
Invited

Nanoscale Nonlinear Optics With Low-dimensional Nanomaterials
Zhipei Sun
Aalto Univ



11:45--12:15
Oral 2-2R-3
Invited

3D Printing Opening Up Experimental Optics Design
Jyrki Saarinen
Institute of Photonics, UEF

11:45--12:00
Oral 2-2S-3

Flexible Optical Fiber Sensor Based On Polyurethane
Md Rejvi Kaysir, Alessio Stefani, Richard Lwin, Simon Fleming
The Univ of Sydney

11:20--11:35
Oral 2-2T-3
Stretchable Silk Inverse Opal And Its Deformable Properties
Sookyoung Kim, Kyungtaek Min, Sunghwan Kim
Ajou Univ

12:15--12:30
Oral 2-2Q-4

Wideband Tunable Ultrafast Er:fiber Laser Using Black Phosphorus Saturable Absorber
Xinxin Jin, Guohua Hu, Meng Zhang, Yuwei Hu, Thomas Albrow-Owen, Richard Howe, Tien-Chun Wu, Xuekun Zhu, Zheng Zheng, Tawfique Hasan
Beihang Univ

12:00--12:15
Oral 2-2S-4

Non-wearable Respiration Monitoring Based On Mach-Zehnder Interferometer
Kunpu Li, Wei Xu, Na Zhang, Ketian Wang, Cheungchuen Yu, Changyuan Yu
Univ of Electronic Science and Technology of China

11:35--11:50
Oral 2-2T-4
Stretchable RF Antenna Utilized By Silk Protein And Silver Nanowire
Minsik Jo, Kyungtaek Min, Sunghwan Kim
Ajou Univ

12:15--12:30
Oral 2-2S-5

Flow Control In Laser-patterned Paper-Based Point-of-care (POC) Diagnostic Devices
Collin Sones, Peijun He, Ioannis Katis, Robert Eason
Univ of Southampton

11:50--12:05
Oral 2-2T-5
Combined Drug Efficacy On Cancer Cell And Fibroblast Co-culture Spheroids Analyzed By Selective Plane Illumination Microscopy
Chau-Hwang Lee, Yi-Hao Chen, Huei-Jyuan Pan, Yu-Fang Hsiao, Yi-Chung Tung
Academia Sinica

12:05--12:20
Oral 2-2T-6
DNA Purification On Binary Centrifugal Microfluidic Platform
Dongying Zhang, Minghui Tang, Zhang Changbin, Guanghui Wang, Bo Lin, Ho-pui Ho, Xuping Zhang
Nanjing Univ

12:20--12:35
Oral 2-2T-7
Polymeric Microneedles Swelling Property Characterizations Using Micro-Optical Coherence Tomography
Xiaojun Yu, Zayim Razina Seeni Syed, Linbo Liu, Chenjie Xu
Nanyang Technological Univ

Conference Program

| Room A: 4401 Fiber-Based Technologies and Applications V President: Fabien Sorin | Room B: 4403 Waveguide Design President: Shintaro Yamasaki | Room C: 4405 Fiber Grating Sensors II President: Tong Sun | Room D: 4501 Plasmonics II President: Niels Asger Mortensen |
|---|--|---|--|
|---|--|---|--|



14:00--14:30
Oral 2-3A-1
Invited

**Polymer Composite
Fibers For Color And Shape
Changes**
Xuemei Sun
Fudan Univ



14:30--15:00
Oral 2-3A-2
Invited

**Soft-glass Photonic
Crystal Fibers: From Advanced
Fabrication Techniques To Novel
Applications**
Xin Jiang
Max-Planck Institute for the
Science of Light



15:00--15:30
Oral 2-3A-3
Invited

**Functionalized
Optical Fibers**
*Noel Healy, Hoajie Zhang, Anna
Peacock*
Newcastle Univ

15:30--15:45
Oral 2-3A-4
**High-Q Silicon Microsphere
Whispering Gallery Mode
Resonator Fabricated By Laser
Induced In-Fiber Capillary
Instability**
*Jing Zhang, Kaiwei Li, Mengying
Zhang, Ting Zhang, Lei Wei*
Nanyang Technological Univ



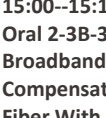
14:00--14:30
Oral 2-3B-1
Invited

**Metal-cladded Slot
Waveguide For Mid-infrared Third
Harmonic Generation**
*Tianye Huang, Bingwei Chen,
Xuguang Shao, Zhifang Wu, Perry
Ping Shum*
China Univ of Geosciences



14:30--15:00
Oral 2-3B-2
Invited

**Weakly-coupled And
Strongly-coupled Multicore Fibers**
*Kunimasa Saitoh, Takeshi Fujisawa,
Takanori Sato*
Hokkaido Univ



15:00--15:15
Oral 2-3B-3
**Broadband Dispersion
Compensating Photonic Crystal
Fiber With Low Confinement Loss**
*Shu-Han Chu, Jui-Ming Hsu, Bing-
Liang Wang, Guan-Ru Huang*
National United Univ



15:15--15:45
Oral 2-3B-4
Invited

**Progress In Sol-gel
Produced Granulated Silica For
The Fabrication Of Optical Fibers**
*Valerio Romano, Soenke Pilz,
Hossein Najafi, Ali El Sayed, Jonas
Scheuner, Christoph Bacher,
Alexander Heidt, Thomas Feurer,
Woojin Shin, Manuel Ryser*
Bern Univ of Applied Sciences



14:00--14:30
Oral 2-3C-1
Invited

**Self-sensing Electrical
Motor Integrated With Fibre Bragg
Gratings (FBGs)**
*Tong Sun, Matthias Fabian, David
Hind, Chris Gerada, Kenneth
Grattan*
City Univ Of London



14:30--15:00
Oral 2-3C-2
Invited

**Excessively Tilted
Fiber Grating And Its Sensing
Applications**
*Zhijun Yan, Chengbo Mou, Changle
Wang, Qizhen Sun, Kaiming Zhou,
Deming Liu, Lin Zhang*
Huazhong Univ of Science and
Technology

15:00--15:15
Oral 2-3C-3
**Fiber Specklegram Sensor Based
On The Twist-induced Effect In
Tilted Two-mode Fiber Bragg
Gratings**
*Yunhe Zhao, Changle Wang, Guolu
Yin, Biqiang Jiang, Kaiming Zhou,
Chengbo Mou, Yunqi Liu, Lin Zhang,
Tingyun Wang*
Shanghai Univ

15:15--15:30
Oral 2-3C-4
**Design And Fabrication Of
Compact Spectrometer Based On
Gradient Grating Period Guided-
Mode Resonance Filter**
*Hsin-An Lin, Hsin-Yun Hsu, Chih-
Wei Chang*
National Chiao Tung Univ

15:30--15:45
Oral 2-3C-5
**Optical Heterodyne Micro-
vibration Measurement Based On
All-fiber Acousto-optic Superlattice
Structure**
*Wending Zhang, Biqiang Jiang,
Ting Mei, Lin Zhang, Jianlin Zhao*
Northwestern Polytechnical Univ



14:00--14:45
Oral 2-3D-1
Keynote

**Optical
Superscillation Technologies:
Subdiffraction Focusing And Label-
free Imaging**
*Nikolay Zheludev, Edward T. F.
Rogers, Guanghui Yuan*
Univ of Southampton



14:45--15:15
Oral 2-3D-2
Invited

**Plasmonic
Metamaterials - From Basic
Transmission Lines To Systems**
Tiejun Cui, Hao Chi Zhang
Southeast Univ



15:15--15:45
Oral 2-3D-3
Invited

**Plasmonics And
Metasurfaces For Generation And
Manipulation Of Optical
Wavefronts**
ByoungHo Lee
Seoul National Univ

15:45--16:00
Oral 2-3D-4
**Subwavelength Ring Assisted
Fresnel Zone Plate For Radially
Polarized Light Focusing**
*Hyuntai Kim, Jinseob Kim, Haechan
An, Kyoungyoon Park, Yoonchan
Jeong*
Seoul National Univ

Wed, 02.08.2017

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|---|---|---|--|
| Room E: 4503 Photonic Devices - Emerging Applications President: Graham Reed | Room F: 4505 High Intensity Ultrafast Phenomena II President: Kyung-Han Hong | Room G: 4301 Advanced Materials and Structures President: Kewu Bai | Room H: 4201 Nonlinear Optics in Novel Optical Structures President: Morandotti Roberto |
|---|---|---|--|



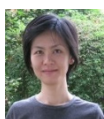
14:00--14:30
Oral 2-3E-1
Invited

Development Of Mid-infrared Silicon Photonics
Hong Wang
 Nanyang Technological Univ

14:30--14:45
Oral 2-3E-2
On-chip Optical Diode With Low Power Consumption
Huaqing Qiu, Zhao Cheng, Feng Zhou, Jianji Dong, Xinliang Zhang
 Huazhong Univ of Science and Technology

14:45--15:00
Oral 2-3E-3
A Novel Integratable Optical Analog-to-digital Converter Based On Cascaded Step-size MMI
Ye Tian, Jifang Qiu, Zhuili Huang, Hongxiang Guo, Yan Li, Xiaobin Hong, Yong Zuo, Jian Wu
 Beijing Univ of Posts and Telecommunicatios

15:00--15:15
Oral 2-3E-4
Low Propagation Loss Ge-on-Si Waveguides And Their Dependency On Processing Methods
P. Anantha, Lin Zhang, Wei Li, Xin Guo, Haodong Qiu, Gang Yih Chong, Callum G. Littlejohns, Milos Nedeljkovic, Jordi Soler Penades, Goran Z. Mashanovich, Hong Wang, Chuan Seng Tan
 Nanyang Technological Univ



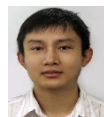
15:15--15:45
Oral 2-3E-5
Invited

Progress On Multilayer Silicon Nitride-on-Silicon Integrated Photonic Platforms
Joyce Poon
 Univ of Toronto



14:00--14:30
Oral 2-3F-1
Invited

High Energy Infrared Laser Technology For Intense High-harmonic Generation
Eiji Takahashi, Yuxi Fu
 RIKEN Center for Advanced Photonics



14:30--15:00
Oral 2-3F-2
Invited

Millijoule Few-cycle Mid-infrared Pulses At 10kHz Repetition Rate With Stable Phase
Houkun Liang, Shizhen Qu, Kun Liu, Xiao Zou, Qijie Wang, Ying Zhang
 Singapore Institute of Manufacturing Technology



15:00--15:30
Oral 2-3F-3
Invited

Self-Referenced Light Wave Measurement Of Few-Cycle Mid-Infrared Pulses
Takao Fuji, Hideto Shirai, Yutaka Nomura
 Institute for Molecular Science

15:30--15:45
Oral 2-3F-4
Mid-Infrared Supercontinuum Generation With Highly Germanium-Doped Silica Fiber
Peili Wu, Lulu Wang, Lei Zhu, Ziyang Guo, Zhifang Wu, Xinyong Dong, Perry Ping Shum, Haibing Su
 Nanyang Technological Univ



14:00--14:30
Oral 2-3G-1
Invited

High Average Power Diamond Lasers
Richard Mildren
 Macquarie University



14:30--15:00
Oral 2-3G-2
Invited

Recognition Of The Roles Of Lone Pair Electrons In Phase Change Materials
Kewu Bai
 Institute of High Performance Computing

15:00--15:15
Oral 2-3G-3
High Efficiency Operation Of Membrane Distributed-Reflector Laser With Reduced Index Coupling Coefficient Structure
Takuo Hiratani, Daisuke Inoue, Takahiro Tomiyasu, Kai Fukuda, Nagisa Nakamura, Tomohiro Amemiya, Nobuhiko Nishiyama, Shigehisa Arai
 Tokyo Institute of Technology



15:15--15:45
Oral 2-3G-4
Invited

GaN-based Laser Diodes For Efficient Lighting And Visible Light Communications
Boon S. Ooi
 King Abdullah Univ of Science and Technology (KAUST)



14:00--14:30
Oral 2-3H-1
Invited

Gain, Loss And Nonlinearity In Photonic Mesh Lattices
Ulf Peschel, Martin Wimmer
 Friedrich Schiller Univ Jena

14:30--14:45
Oral 2-3H-2
Nonlinear Wave Controlling By Optical Superlattices
Yiqiang Qin, Chao Zhang, Bo Yang
 Nanjing Univ

14:45--15:00
Oral 2-3H-3
Optical Nonlinearity Of Transparent Conductive Oxides With Tunable Epsilon-near-zero Frequencies
Hui Ye, Ke Wu, Chaonan Chen, Zhewei Wang
 Zhejiang Univ



15:00--15:30
Oral 2-3H-4
Invited

Nodeless Hollow-core Fiber: Design, Fabrication And Application
Yingying Wang, Shoufei Gao, Xiaolu Liu, Pu Wang, Wei Ding
 Beijing Univ of Technology

Conference Program

| Room I: 4812 Academic Entrepreneurs President: Moe Amanzadeh | Room J: 4912 Plasmonics and Metamaterials III President: Yu Luo | Room K: 4203 Optical Wireless Transmission and Novel Technique President: Hoon Kim | Room L: 4303 Nonlinearity Mitigation Techniques President: Cosimo Lacava |
|--|--|--|---|
|--|--|--|---|



14:00--14:30
Oral 2-3I-1
Invited

An Experience Of Taking Univ Research In Photonics To Market
Byoung Kim
KAIST



14:30--15:00
Oral 2-3I-2
Invited

Building A Photonics Device Company In The 21st Century
John Marsh
Univ of Glasgow



15:00--15:30
Oral 2-3I-3
Invited

Landscape And Future Of Photonic Entrepreneurship In Europe
Hendrik Sabert
Max Planck Institute for the Science of Light (ultralumina)



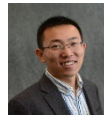
15:30--16:00
Oral 2-3I-4
Invited

Intellectual property management: unlock the value of your innovation
Terence Goh
IP ValueLab, Singapore



14:00--14:30
Oral 2-3J-1
Invited

Amorphous Metamaterials For Large Scale Deployment Of Effective Day-time Radiative Cooling
Xiaobo Yin
Univ of Colorado Boulder

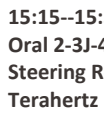


14:30--15:00
Oral 2-3J-2
Invited

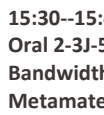
Integrated Quantum Inspired Photonics
Liang Feng
SUNY at Buffalo



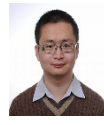
15:00--15:15
Oral 2-3J-3
Nano-antennas On Tapered Fiber: A New And Flexible Approach
Abdul Khaleque, Jonas H. Osorio, Cristiano M. B. Cordeiro, Marcos A. R. Franco, Haroldo T. Hattori
The Univ of New South Wales



15:15--15:30
Oral 2-3J-4
Steering Resonance Properties In Terahertz Metamaterials
Chunmei Ouyang, Zhen Tian, Jianqiang Gu, Yanfeng Li, Jianguang Han, Weili Zhang
Tianjin Univ

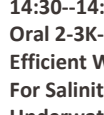


15:30--15:45
Oral 2-3J-5
Bandwidth Tunable MEMS Metamaterials
Kailing Shih, Prakash Pitchappa, Chong Pei Ho, Chengkuo Lee
National Univ of Singapore

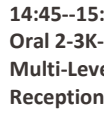


14:00--14:30
Oral 2-3K-1
Invited

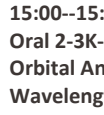
High-speed Underwater Wireless Optical Communication Based On Advanced Modulation Formats
Jing Xu, Meiwei Kong, Jun Han
Zhejiang Univ



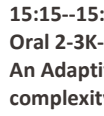
14:30--14:45
Oral 2-3K-2
Efficient Weibull Channel Model For Salinity Induced Turbulent Underwater Wireless Optical Communications
Hassan Makine Oubei, Emna Zedini, Rami T Elafandy, Abla Kammoun, Tien Khee Ng, Mohamed-Slim Alouini, Boon S Ooi
KAUST



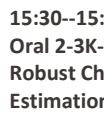
14:45--15:00
Oral 2-3K-3
Multi-Level Optical Signal Reception By Blur Curved Approximation For Optical Camera Communication
Joon-woo Lee, Sung-jin Kim, Sang-kook Han, Yonsei Univ.



15:00--15:15
Oral 2-3K-4
Orbital Angular Momentum And Wavelength Demultiplexing Using Tunable MEMS-based Fabry-Perot Filter Integrated With Spiral Phase Plate
Vladimir S. Lyubopytov, Alexey Porfirev, Stanislav Gurbatov, Martin Schumann, Martin Wegener, Sujoy Paul, Mohammadreza Malekizandi, Julijan Cesar, DTU



15:15--15:30
Oral 2-3K-5
An Adaptive-Equalizer-less Low-complexity DSP Using Differential Code Shift Keying
Asuka Matsushita, Kengo Horikoshi, Seiji Okamoto, Fukutaro Hamaoka, Masanori Nakamura, Yoshiaki Kisaka, Akira Hirano
NTT



15:30--15:45
Oral 2-3K-6
Robust Chromatic Dispersion Estimation For Faster-than-Nyquist Systems
Ling Liu, Yuanyuan Fang, Lili Jin, Wentong Wan, Yanzhao Lu, Yi Yu, Liangchuan Li
Huawei Technologies Co., Ltd.



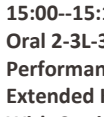
14:00--14:30
Oral 2-3L-1
Invited

Simultaneous Nonlinearity Mitigation Of WDM Signals Based On Complementary Spectral Inverted Optical Phase Conjugation
Takeshi Umeki, Kazama Takushi, Sano Akihide, Abe Masashi, Enbutsu Koji, Kobayashi Takayuki, Takenouchi Hirokazu, Kasahara Ryoichi, Miyamoto Yutaka
NTT Device Technology Labs

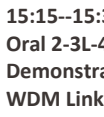


14:30--15:00
Oral 2-3L-2
Invited

Overcoming Deleterious Effects In FWM-based All-Optical Signal Regenerators
Kyle Bottrill, Liam Jones, Graham Hesketh, Francesca Parmigiani, Periklis Petropoulos
Univ of Southampton



15:00--15:15
Oral 2-3L-3
Performance Investigation Of Extended Kalman Filter Combined With Carrier Phase Recovery For Adaptive Nonlinear Phase Noise Mitigation
Tong Shu, Yan Li, Miao Yu, Jifang Qiu, Hongxiang Guo, Xiaobin Hong, Jian Wu
Beijing Univ of Posts and Telecommunications



15:15--15:30
Oral 2-3L-4
Demonstration Of DP-16QAM WDM Link With In-line Nonlinearity Compensation
Benjamin Foo, Bill Corcoran, Arthur Lowery
Monash Univ



15:30--16:00
Oral 2-3L-5
Invited

Polarization Insensitive Phase Conjugation Using FWM In Semiconductor Optical Amplifiers
Aneesh Sobhanan, Deepa Venkitesh
IIT Madras


Wed, 02.08.2017

| | | | |
|--|--|---|--|
| Room M: 4611 Laser Texturing and Patterning II Presider: Xiangang Luo | Room N: 4612 Integrated Optical Transceivers Presider: Dawn Tan | Room O: 4613 Atoms and Their Applications Presider: Hiroki Takesue | Room P: 4711 Optical Imaging Presider: Lei Su |
|--|--|---|--|




14:00--14:30
Oral 2-3M-1
Invited

Ultrasonic Vibration Assisted Laser Dissimilar Welding Of Nickel Based Alloy And Austenite Stainless Steel
Dongjiang Wu, Siyu Zhou, Dongsheng Chai, Guangyi Ma, Mingkai Lei
Dalian Univ of Technology



14:30--15:00
Oral 2-3M-2
Invited

Pulsed Laser Patterned Metal Substrates With Tunable Wettability
Rui Zhou, Shengdong Lin, Fei Shen, Guobiao Zhang
Xiamen Univ



15:00--15:30
Oral 2-3M-3
Invited

Recent Research In Capability Development On Laser Surface Texturing Of Metallic Substrates
Yingchun Guan
Beihang Univ

15:30--15:45
Oral 2-3M-4

Graphene-based Ultrathin Optical Components Printed By Femtosecond Laser Direct Writing Method
Hyub Lee, Mun Ji Low, Chin Huat Joel Lim, Vadakke Matham Murukeshan, Young-Jin Kim
Nanyang Technological Univ


15:45--16:00
Oral 2-3M-5

Optical Study Of Light-emitting Biopolymer Based On Deoxyribonucleic Acid-cetyltrimethylammonium Chloride Doped With Riboflavin
Woohyun Jung, Seongjin Hong, Taeoh Kim, Kyunghwan Oh
Yonsei Univ




14:00--14:30
Oral 2-3N-1
Invited

Silicon Photonics For High-capacity Optical Interconnects
Xiaolu Song, Zhen Dong, Qing Zhao, Lei Gao, Jun Liu, Chengcheng Gui, Shengmeng Fu, Li Zeng
Huawei Technologies Co., Ltd.



14:30--15:00
Oral 2-3N-2
Invited

Chip-scale Optical Frequency Highly Integrated 100G-400Gb Optical Module Certification
Jinyu Mo
Huawei Technology Co., Ltd



15:00--15:30
Oral 2-3N-3
Invited


Compact Model Library For Photonic Integrated Circuit Design
Xu Wang, Jonas Flueckiger, Jackson Klein, James Pond
Lumerical Solutions, Inc.

15:30--15:45
Oral 2-3N-4

Nonlinear Optical Properties Of GeSbS Chalcogenide Waveguides
Ju Won Choi, Zhaohong Han, Byoung-Uk Sohn, George F. R. Chen, Charmayne Smith, Lionel C. Kimerling, Kathleen A. Richardson, Anuradha M. Agarwal, Dawn T. H. Tan
Singapore Univ of Technology and Design

15:45--16:00
Oral 2-3N-5

Broadband Slow-light Enhancement Of Nonlinear Effects With Plasmonic Structures
Guangyuan Li, C. Martijn De Sterke, Stefano Palomba
The Univ of Sydney



14:00--14:30
Oral 2-3O-1
Invited


Einstein-Podolsky-Rosen Entanglement Of Narrowband Photons From Cold Atoms
Jong-Chan Lee, Kwang-Kyoon Park, Tian-Ming Zhao, Yoon-Ho Kim
POSTECH

14:30--14:45
Oral 2-3O-2

Strong Optical Nonlinearities In Hollow-core Photonic-crystal Fibers Loaded With Ensembles Of Cold Atoms
Taehyun Yoon, Jeremy Flannery, Michal Bajcsy
Univ of Waterloo

14:45--15:00
Oral 2-3O-3

Atom Interferometry Inside A Hollow-Core Photonic Crystal Fiber
Zilong Chen, Mingjie Xin, Wui Seng Leong, Shau-Yu Lan
Nanyang Technological Univ



15:00--15:30
Oral 2-3O-4
Invited

The Interaction Of Nanostructures With Optical Fields
Kelvin Ooi, Dawn Tan
SUTD

15:30--15:45
Oral 2-3O-5

Resonant Transfer Of Large Momenta From Finite Duration Kicks
Shijie Chai, Julia Fekete, Simon Gardiner, Mikkel Andersen
Univ of Otago

14:00--14:15
Oral 2-3P-1

Design And Verification Of A Flat-Filed Aberration-Corrected Concave Blaze Grating For Hyperspectral Imaging
Sheng-Yu Tsai, Yueh-Hsun Wu, Jih-Run Tsai, Bang-Ji Wang, Shin-Fa Lin, Chiu-Der Hsiao
National Taiwan Univ of Science and Technology

14:15--14:30
Oral 2-3P-2


Rotational Diffuser For Speckle Reduction In Quantitative Phase Imaging
Jeeran Boonruangkan, Hamid Farrokhi, Young-Jin Kim
Nanyang Technological Univ

14:30--14:45
Oral 2-3P-3

Spatial Coherence Reduction For Speckle Free Imaging Using Electroactive Rotational Optical Diffusers
Rohith Thazhe Madam, Hamid Farrokhi, Jeeran Boonruangkan, Kim Young-Jin, NTU

14:45--15:00
Oral 2-3P-4

System Setup Consideration For Range Gated Imaging
Sing Yee Chua, Xin Wang, Ningqun Guo, Kuew Wai Chew, Ching Seong Tan, Shouu-Jinn Chang
Monash Univ Malaysia



15:00--15:30
Oral 2-3P-5
Invited

Several New Applications Based On Single-pixel Imaging Via Photon Correlation
Wen Chen
The Hong Kong Polytechnic Univ

15:30--15:45
Oral 2-3P-6

Turbid Media Image Enhancement With Nonlinear Optical Augmented Intensity Correlated Imaging
Jing Yang, CAS

15:45--16:00
Oral 2-3P-7

Static Evaluation Of One Shot 3D Surface Imaging Using Digital Colored Fringe Projection Technique
Naila Zahra, Suprijanto, Endang Juliastuti
Institut Teknologi Bandung

Conference Program

| | | | |
|---|--|---|---|
| Room Q: 4712 Transition Metal Dichalcogenides President: Han Zhang | Room R: 4713 The Role of Optics in Fronthaul and Backhaul for 5G Networks and Beyond I President: Frank Effenberger | Room S: 4811 Photonics Technologies for Primary Point-of-care and Global Health V President: Gerd Keiser | Room T: 4911 Fiber Optics and Waveguide for Biomedicine President: Fake Lu |
|---|--|---|---|



14:00--14:30
Oral 2-3Q-1
Invited

Photonic Devices

Based On Transition Metal
Dichalcogenides
Kan Wu, Jianping Chen
 Shanghai Jiao Tong Univ



14:00--14:30
Oral 2-3R-1
Invited

TWDM-PON

Technology And Beyond For 5G
MFH
Kota Asaka
 NTT Access Network Service
 Systems Labs



14:00--14:30
Oral 2-3S-1
Invited

Pre-clinical And
Clinical Photoacoustic Imaging
Systems And Their Biological
Applications

Manojit Pramanik
 Nanyang Technological Univ

14:00--14:15
Oral 2-3T-1
Simultaneous Operation Of Laser
Ablation And Temperature
Monitor Using Single Optical Fiber
For Hyperthermia
Tomohiro Matta, Hideki Fukano,
Shuji Tave
 Okayama Univ



14:30--15:00
Oral 2-3Q-2
Invited

2D Materials and
Their Applications for Saturable
Absorbers

Young Min Jhon, Ju Han Lee
 Korea Insittute of Science and
 Technology



14:30--15:00
Oral 2-3R-2
Invited

Cable Operators'

Perspective In Optical Transport
For Future Fronthaul And
Backhaul Services
Zhensheng Jia
 CableLabs



14:30--15:00
Oral 2-3S-2
Invited

Mobile Optical
Microscopy Technologies For Low
Resource Healthcare Setting

Woei Ming Lee
 Australian National Univ



14:15--14:35
Oral 2-3T-2
Invited

Holographic Micro-
endoscopes Based On Multimode
Waveguides

Tomas Cizmar
 Univ of Dundee



15:00--15:30
Oral 2-3Q-3
Invited

Layered 2D
Semiconductors For Nonlinear
Optical Applications

Jun Wang
 Shanghai Institute of Optics and
 Fine Mechanics, Chinese Academy
 of Sciences



15:00--15:30
Oral 2-3S-3
Invited

Fast Fluorescence
Lifetime Imaging Microscopy For
Biomedical Diagnosis

Dug Young Kim, WonSang Hwang,
DongEun Kim
 Yonsei Univ.



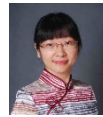
14:35--14:55
Oral 2-3T-3
Invited

Miniaturized
Multimodal Fiber-optic Probes: Ex
Vivo And In Vivo

Jiawen Li
 The Univ of Adelaide

15:30--15:45
Oral 2-3Q-4

0dBm Threshold Of ECD Method
To Drive TMDs Depositing
Hao Wang, Kan Wu, Jianping Chen
 Shanghai Jiaotong Univ



15:30--16:00
Oral 2-3S-4
Invited

Deep Brain Calcium
Signal Measurements By Using
Optical Fiber Based Methods

Ling Fu
 Huazhong Univ of Science and
 Technology



14:55--15:15
Oral 2-3T-4
Invited

Advanced Endoscopic
Optical Imaging Technology

Hongki Yoo
 Hanyang Univ

15:15--15:30
Oral 2-3T-5
Micro-optical Coherence
Tomography Endoscopic Imaging
Of Rat Colon Ex Vivo
Yuemei Luo, Linbo Liu
 Nanyang Technological Univ

15:30--15:45
Oral 2-3T-6
Depth-of-focus Extended
Common-path Probe OCT System
Jinhan Li, Linbo Liu
 Nanyang Technological Univ

Wed, 02.08.2017

| | | | |
|---|--|--|---|
| Room A: 4401 Fiber-Based Technologies and Applications VI Presider: Noel Healy | Room B: 4403 Fiber Sensors I Presider: John Canning | Room C: 4405 Special Materials based Fiber Sensors Presider: Fei Xu | Room D: 4501 Nanofibers Presider: Guillaume Vienne |
|---|--|--|---|



16:15--16:45
Oral 2-4A-1
Invited

Photon-phonon Interaction In Nano-waveguides
Paulo Dainese
 Gleb Wataghin Physics Institute, Univ of Campinas



16:45--17:15
Oral 2-4A-2
Invited

Quantum Photonics With Optical Nanofibers
Kohzo Hakuta, Kali Nayak, Ramachandrarao Yalla
 Univ of Electro-Communications



17:15--17:45
Oral 2-4A-3
Invited

Electrical Charging In Micro Optical Fiber And Its Applications
Nan-Kuang Chen, Raman Kashyap, Xiaoguang Zhang, Wood-Hi Cheng, Chinlon Lin
 National United Univ

17:45--18:00
Oral 2-4A-4

A Nano-fiber Coupler Thermometer
Wanvisa Talataisong, Rand Ismaeel, Martynas Beresna, Gilberto Brambilla
 Univ of Southampton

16:15--16:30
Oral 2-4B-1
Miniature Fiber Mach-Zehnder Interferometer Using A Polymer Filled Hollow Core Fiber
Meng-Shan Wu, Shi-Hong Luo, Cheng-Ling Lee, Chung-Fen Lee
 National United Univ



16:30--17:00
Oral 2-4B-2
Invited

Optical Fiber Sensors Based On The Special Dual-mode Fiber With Critical Wavelength
Xiaopeng Dong
 Xiamen Univ



17:00--17:30
Oral 2-4B-3
Invited

Optical Fibre Sensors For Depth (Pressure) Measurement On Remote Operated Vehicles In Underwater Applications
Elfed Lewis
 Univ of Limerick



17:30--18:00
Oral 2-4B-4
Invited

Microstructrued Optical Fiber Sensors For Distributed Gas Detection
Wei Jin
 The Hong Kong Polytechnic Univ



16:15--16:45
Oral 2-4C-1
Invited

Simultaneously Detection on Temperature and Stress Distributions of Fiber Reinforced Polymer Rod with Optical Fiber Sensor
Wen Chen, Ming Tang
 Huazhong Univ of Science and Technology



16:45--17:15
Oral 2-4C-2
Invited

All-fiber Devices Based On Low Dimensional Materials And Their Optoelectronic And Sensing Applications
Fei Xu
 Nanjing Univ

17:15--17:30

Oral 2-4C-3
Wearable Photosensor Devices Based On RGO-coated Fabrics
Qing Mi, Qi Wang, Zhaoer Chai, Hao Liu, Guoming Mao, Xiaomin Ren
 Beijing Univ of Posts and Telecommunications

17:30--17:45

Oral 2-4C-4
Graphene Diaphragm-based Extrinsic Fabry-Perot Interferometer For Low Frequency Fiber Acoustic Sensing
Wenjun Ni, Ping Lu, Deming Liu, Jiangshan Zhang
 Huazhong Univ of Science and Technology



16:15--16:45
Oral 2-4D-1
Invited

Waveguiding Nanowires For Nanophotonic Applications
Limin Tong
 Zhejiang Univ

16:45--17:00
Oral 2-4D-2

Dye-doped Fluorescent Silk Nanofiber For HCl Vapor Chemosensing And Vitamin Delivery
Kyungtaek Min, Sookyoung Kim, Sunghwan Kim
 Ajou Univ



17:00--17:30
Oral 2-4D-3
Invited

Giant Enhancement And Control Of Second-Harmonic Radiation From AlGaAs Nanoantennas
Mohsen Rahmani, Sergey Kruk, Rocío Camacho-Morales, Lei Xu, Hoe Tan, Chennupati Jagadish, Yuri Kivshar, Dragomir Neshev
 Australian National Univ



17:30--18:00
Oral 2-4D-4
Invited

Ultraprecise Nanophotonics At The Fibre Surface
Michael Sumetsky
 Aston Institute of Photonics Technologies

18:00--18:15

Oral 2-4D-5
Refractive Index Contrast In A Layered Dielectric Microfiber - Estimation From Quantitative Bright-field Microscopy
Doug Little, Deb Kane
 Macquarie Univ

Conference Program

| | | | |
|--|---|---|--|
| Room E: 4503 Photonic Devices - Modulators and Detectors President: Graham Reed | Room F: 4505 MIR and THz Devices President: Takao Fuji | Room G: 4301 Advanced Photonic Integration President: Xingjun Wang | Room H: 4201 Frequency Combs and Precision Measurements President: Cundiff Steven |
|--|---|---|--|



16:15--16:45
Oral 2-4E-1
Invited

Silicon-on-insulator And Germanium-on-silicon Free Carrier Modulators For Mid-infrared Wavelengths
Milos Nedeljkovic
 Univ of Southampton



16:45--17:15
Oral 2-4E-2
Invited

Group IV Optical Modulators For The Mid-infrared
Callum Littlejohns, Milos Nedeljkovic, David Hagan, Jason Ackert, Mohamed Said Rouifed, Zecen Zhang, Ali Khokhar, Andrew Knights, Hong Wang, David Thomson
 Nanyang Technological Univ

17:15--17:30

Oral 2-4E-3

Silicon Modulators For 25 Gb/s Photonics Platform

Thomas Ang, Ching Eng Jason Png, Soon Thor Lim, Junrong Ong
 Institute of High Performance Computing

17:30--17:45

Oral 2-4E-4

Low Bias, Low Dark Current Photodetection In Silicon MZM Embedded With Vertical PN Junction

Haike Zhu, Kazuhiro Goi, Kensuke Ogawa
 Fujikura Ltd.



16:15--16:45
Oral 2-4F-1
Invited

Tuning The Plasmonic Response In Terahertz Range
Jinghua Teng
 A*STAR



16:45--17:15
Oral 2-4F-2
Invited

Terahertz Photonic Devices For Frequency Comb Operation And Fast Detection
Hua Li, Wen-Jian Wan, Jun-Cheng Cao
 Shanghai Institute of Microsystem and Information Technology, CAS

17:15--17:30

Oral 2-4F-3

Passive And Active Broadband Terahertz Antireflector

Lu Ding, Renbin Yang, Xizu Wang, Soo Seng ANG, Hong Kuan NG, Shien Fuh Lim, Liang Cheng, Ee Min Chia, Jinghua Teng
 A*STAR

17:30--17:45

Oral 2-4F-4

Low Thermal Stress Mo-AlN-Mo Platform For Metamaterial Based Mid-IR Absorber

Dihan Hasan, Chengkuo Lee
 National Univ of Singapore

17:45--18:00

Oral 2-4F-5

Confined Surface Waves In 2D Dielectric Materials

Alexander M. Dubrovkin, Bo Qiang, Harish N. S. Krishnamoorthy, Nikolay I. Zheludev, Qijie Wang
 Nanyang Technological Univ



16:15--16:45
Oral 2-4G-1
Invited

Si Photonics Integration Chip For High speed Optical Communication
Xingjun Wang
 Peking Univ

16:45--17:00

Oral 2-4G-2

Electron Trapping/detrapping Model In Electrically Stressed Oxide

Hongyi Wang
 National Univ of Defense Technology

17:00--17:15

Oral 2-4G-3

Demonstration Of Novel Media Conversion Method From Optical To THz-wave Networks

Younjin Kim, Yusuke Yamanaka, Kazutoshi Kato
 Kyushu Univ



17:15--17:45
Oral 2-4G-4
Invited

Stochastic Photonics: Tools And Approaches For The Analysis And Optimization Of Integrated Circuits

Daniele Melati, Abi Waqas, Andrea Melloni
 Politecnico di Milano

17:45--18:00

Oral 2-4G-5

Coherent PM RF Photonic Link On Chip PIC

Longtao Xu, Shilei Jin, Yifei Li, Ding Ding
 Univ of Massachusetts Dartmouth



16:15--16:45
Oral 2-4H-1
Invited

Femtosecond Frequency Comb Development for the European Extremely Large Telescope
Derryck Reid
 Heriot-Watt Univ

16:45--17:00

Oral 2-4H-2

Coherent Modulation Of Interference Signals In Dual-Comb Spectroscopy

Akifumi Asahara, Ken-ichi Kondo, Yue Wang, Kaoru Minoshima
 The Univ of Electro-Communications

17:00--17:15

Oral 2-4H-3

Composite Soliton-dipole Pairs In Parity-time Symmetric Optical Lattices With Higher-order Diffraction

Lijuan Ge
 Suzhou Univ of Science and Technology

17:15--17:30

Oral 2-4H-4

Sub-Femtosecond Coherent Control Of Electron-Phonon Coupled State In GaAs By Phase-Locked Dual Pulse

Yosuke Kayanuma, Kensuke Yokota, Nakamura Kazutaka
 Tokyo Institute of Technology

17:30--17:45

Oral 2-4H-5

High Power Single-longitudinal-mode Diamond Laser Using Hansch-Couillaud-type Stabilization

Soumya Sarang, Ondrej Kitzler, Oliver Lux, Zhenxu Bai, Robert Williams, David Spence, Richard Mildren
 Macquarie Univ

| | | | |
|--|---|--|---|
| Room I: 4812 Start-Up Challenge Presiders: Hendrik Sabert & Anne Marie Droste | Room J: 4912 Plasmonics and Metamaterials IV President: Liang Feng | Room K: 4203 Direct-Detection Transmission System President: Tianwai Bo | Room L: 4303 Radio-over-Fiber Systems President: Tetsuya Kawanishi |
|--|---|--|---|

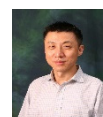
16:30--17:15
Startup Challenge

Photonics startup pitch competition



16:15--16:45
Oral 2-4J-1
Invited

Hologram-type



16:15--16:45
Oral 2-4K-1
Invited

Transmission



16:15--16:45
Oral 2-4L-1
Invited

Coherent Radio-over-

17:15--18:15

Panel Discussion:
Entrepreneurship and Innovation
in Photonics: Opportunities and
Challenges

Panelists:
Invited guests and chairs

Illusion With Metasurfaces

Jensen Li
 Univ of Birmingham

16:45--17:00

Oral 2-4J-2
Photon Sieves For High Tolerance
Hologram And Optical Vortex
Generation

Jinghua Teng
 A*STAR

17:00--17:15

Oral 2-4J-3
Excitation Of Collective Plasmonic
Modes And Photoluminescence
Enhancement In The Al
Nanocylinder Array

Shunsuke Murai, Motoharu Saito,
Saho Oka, Hiroyuki Sakamoto,
Ryosuke Kamakura, Koji Fujita,
Katsuhisa Tanaka
 Kyoto Univ

17:15--17:30

Oral 2-4J-4
Low-side-band Reflective
Plasmonic Structural Colors Based
On Metallic Nanowire Gratings

Jun Zheng, Zhicheng Ye
 Shanghai Jiao Tong Univ

17:30--17:45

Oral 2-4J-5
Metamaterial-based Optical Solar
Reflectors For Space Applications

Kai Sun, Christoph A. Riedel, C. H.
(Kees) De Groot, Otto L. Muskens
 Univ of Southampton

17:45--18:00

Oral 2-4J-6
Efficient Solar-vapor Generation In
Hollowmesoporous Plasmonic
Nanoshells

Ye Pu, Marcin Stefan Zielinski, Jae-
Woo Choi, Thomas La Grange,
Miguel Modestino, Seyyed
Mohammad Hosseini Hashemi,
Susanne Birkhold, Jeffrey Alan
Hubbell, Demetri Psaltis
 EPFL

Techniques For Short Reach
Optical Communication Systems

Chao Lu, Kangping Zhong, Xian
Zhou, Jiahao Huo, Alan Pak Tao
Lau, Changyuan Yu, Alexander Ping
Kong Wai
 The Hong Kong Polytechnic Univ

16:45--17:00

Oral 2-4K-2
Beyond 100-Gb/s Single Sideband
Direct Detection Using Multi-core
Fiber And SSBI Elimination

Ying Wang, Zhen Wang, Ying Shen,
Wei Liu, Shanhong You, Xiang Li,
Ming Luo, Qi Yang
 Soochow Univ

17:00--17:15

Oral 2-4K-3
Hilbert Superposition Based On
Direct-Detection For Single Side-
Band Optical NPAM-4 Signal

Mingyue Zhu, Jing Zhang, Xingwen
Yi, Shaohua Hu, Yang Song, Bo Xu,
Ning Jiang, Kun Qiu
 Univ of Electronic Science and
 Technology of China



17:15--17:45

Oral 2-4K-4
Invited

DB-PAM-4:

Supporting Signal Transmission
From Short Reach To Metro Point
To Point

Qiang Zhang, Nebojsa Stojanovic,
Cristian Prodaniuc, Fotini Karinou,
Jinlong Wei, Changsong Xie
 Huawei Technologies

17:45--18:00

Oral 2-4K-5
Blind Polarization Demultiplexing
Algorithm For Multi-level
Modulation Formats In Stokes
Vector Direct Detection Systems

Shota Ishimura, Nishimura Kosuke
 KDDI Research Inc

Few-Mode-Fiber

Ken-ichi Kitayama, Nikolaos. P.
Diamantopoulos, Yuki Yoshida,
Akihiro Maruta, Atsushi Kanno,
Tetsuya Kawanishi, Maruyama
Ryo, Kazuhiko Aikawa
 Graduate School for the Creation
 of New Photonics Industries



16:45--17:15

Oral 2-4L-2
Invited

RoF System

Standardization At ITU-T

Toshiaki Kuri
 National Institute of Information
 and Communications Technology

17:15--17:30

Oral 2-4L-3
Cross-Stratum Resources
Integration In Fog-Computing-
based Radio Over Fiber Networks
For 5G Services

Hui Yang, Wei Bai, Ao Yu, Jie
Zhang, Zhengyong Wang
 BUPT

17:30--17:45

Oral 2-4L-4
Bidirectional Radio Over Fiber
System With Wavelength Reuse
Based On Optical Carrier
Polarization-suppressed DSB
Modulation

Wenjing Xu, Mingyang Zhao,
Mutong Xie, Xinlu Gao, Shanguo
Huang
 Beijing Univ of Posts and
 Telecommunications



17:45--18:15

Oral 2-4L-5
Invited

Optical Access

Systems With High-Speed PON
And RoF Technologies For 5G
Mobile Communication Networks
HwanSeok Chung
 ETRI

Wed, 02.08.2017

Room M: 4611
High Power Fiber Laser I
Prsider: Kin Seng Lai

Room N: 4612
Chip-Scale Signaling and
Processing on SOI Platforms
Prsider: Jian Wang

Room O: 4613
Photonics
Prsider: Ping Koy Lam

Room P: 4711
Optical Sensor Technology III
Prsider: William
Wadsworth



16:15--16:45
Oral 2-4M-1
Invited

Transverse Mode
Instabilities: The End Of The Road
For High-power Fiber Laser
Systems?
Cesar Jauregui, Christoph Stihler,



16:15--16:45
Oral 2-4N-1
Invited

Nanowire Integrated
Photonics On Si
Zetian Mi
 Univ of Michigan



16:15--16:45
Oral 2-4O-1
Invited

Solving Large-scale
Optimization Problems With
Coherent Ising Machine
Hiroki Takesue, Takahiro Inagaki,



16:15--16:45
Oral 2-4P-1
Invited

Long-distance
Distributed Fiber-optic Sensing
Systems
Yunjiang Rao

Conference Program

Jens Limpert, Andreas Tunnermann
Friedrich-Schiller Univ Jena



16:45--17:15
Oral 2-4M-2
Invited

Coherent Combining With Active Phase Control: A Practical Tool For Adaptive And Nonlinear Optics

Pierre Bourdon
ONERA - The French Aerospace Lab



17:15--17:45
Oral 2-4M-3
Invited

High Power Tandem Pumped Fiber Laser: Progress And Prospect

Pu Zhou, Ruixian Li, Hu Xiao, Jinyong Leng, Zilun Chen, Hanwei Zhang, Jiangmin Xu, Jian Wu
National Univ of Defense Technology,

17:45--18:00
Oral 2-4M-4

Linearly-polarized High-order Random Fiber Laser With Record Hundred-watt Output Power
Jiangming Xu, Pu Zhou, Zhaokai Lou, Jun Ye, Jian Wu, Hu Xiao, Jinyong Leng, Hanwei Zhang
NUDT

18:00--18:15
Oral 2-4M-5

High Pulse Energy Diamond Raman Laser
Aaron McKay, Richard Mildren
Macquarie Univ



16:45--17:15
Oral 2-4N-2
Invited

Subwavelength Grating Metamaterial Engineering For Silicon Nanophotonic Devices

Pavel Cheben
National Research Council, Canada



17:15--17:45
Oral 2-4N-3
Invited

Si Based Optoelectronic Materials And Devices

Chuanbo Li, Kai Yu, Buwen Cheng, Qiming Wang
Institute of Semiconductors, Chinese Academy of Sciences

17:45--18:00
Oral 2-4N-4

Large On-chip Dispersion Using Cladding-modulated 1D Photonic Crystals

Ezgi Sahin, Kelvin J. A. Ooi, Ching Eng Png, Dawn Tan
Singapore Univ of Technology and Design

Kensuke Inaba, Toshimori Honjo
NTT Corporation

16:45--17:00
Oral 2-4O-2

Thermal Equilibrium Of Photons And Lasing Without An Overall Inversion In Standard Erbium-Doped Fibers

Rafi Weill, Alexander Bekker, Boris Levit, Michael Zhuravov, Baruch Fischer
Technion

17:00--17:15
Oral 2-4O-3

Erasing Frequency Distinguishability Of Single Photons Using Optical Single Sideband Modulator

Hsin-Pin Lo, Hiroki Takesue
NTT Basic Research Laboratories, NTT Corporation

17:15--17:30
Oral 2-4O-4

A Novel Design Of Ultrafast Electron Switching Device

Wei Huang, Shijun Liang, Elica Kyoseva, Lay Kee Ang
Singapore Univ of Technology and Design

17:30--17:45
Oral 2-4O-5

Reversible Nonmagnetic Single-photon Isolation Using Unbalanced Quantum Coupling

Keyu Xia, Guowei Lu, Gongwei Lin, Yuqing Cheng, Yueping Niu, Shangqing Gong, Jason Twamley
Nanjing Univ



17:45--18:15
Oral 2-4O-6
Invited

On-chip Coherent Conversion Of Photonic Quantum Entanglement

Xi-Feng Ren
Univ of science and technology of China

Univ. of Electronic Science & Technology of China

16:45--17:00
Oral 2-4P-2

Plasmonic Phase Change In Metal Nanostructures By Frequency-comb-based Spectrally Resolved Interferometry

Duy Anh Nguyen, Byung Jae Chun, Young-Jin Kim
School of Mechanical and Aerospace Engineering, Nanyang Technological Univ (NTU)



17:00--17:30
Oral 2-4P-3
Invited

Fiber Optics Acoustic Sensors And Its Applications

Zhuangjian Liu
Institute of High Performance Computing



17:30--18:00
Oral 2-4P-4
Invited

Laser Feedback Interferometry: Biomedical Applications

Aleksandar Rakic
The Univ of Queensland

Room Q: 4712
Carbon Nanomaterials
President: Kan Wu

Room R: 4713
The Role of Optics in
Fronthaul and Backhaul for
5G Networks and Beyond II
President: Jianqiang Li

Room S: 4811
Photonics Technologies for
Primary Point-of-care and
Global Health VI
President: Quan Liu

Room T: 4911
Coherence Domain Imaging
Technologies
President: Linbo Liu



16:15--16:45
Oral 2-4Q-1
Invited

Nanocarbon Materials For Short Pulse Lasers
Shinji Yamashita
The Univ of Tokyo



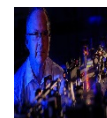
16:15--16:45
Oral 2-4R-1
Invited

Fixed-mobile Convergence In Optical Metro-access Networks
Thomas Pfeiffer
Nokia Bell Labs



16:15--16:45
Oral 2-4S-1
Invited

Evaluation Of Biomaterials By A Terahertz Chemical Microscopy
Toshihiko Kiwa, Takuya Kuwana, Tatsuki Kamiya, Taiga Morimoto, Kenji Sakai, Keiji Tsukada
Okayama Univ



16:15--16:35
Oral 2-4T-1
Invited

Optical Coherence Elastography - Optical Coherence Tomography At Work In Soft Tissue Mechanics
David Sampson
The Univ of Western Australia

16:35--16:50
Oral 2-4T-2



16:45--17:15
Oral 2-4Q-2
Invited

Nanocarbon-based Saturable Absorbers For Ultrafast Lasers
Fabian Rotermund
 KAIST

17:15--17:30
Oral 2-4Q-3
Optical Nonlinearities In Graphene Plasmonics For Optical Modulation
Xing Peng, Kelvin J. A. Ooi, Dawn T. H. Tan
 Singapore Univ of Technology and Design



16:45--17:15
Oral 2-4R-2
Invited

A New Optical Network For 5G Transport
Fabio Cavaliere, Paola Iovanna, Luca Valcarengi, Koteswararao Kondepu, Piero Castoldi
 Ericsson



17:15--17:45
Oral 2-4R-3
Invited

Next-Generation Passive Optical Network For Supporting High-Bandwidth Low-Latency Fronthaul In 5G Wireless
Lei Zhou, Xiang Liu, Huaiyu Zeng, Sharief Megeed, Frank Effenberger
 Huawei Technologies



16:45--17:15
Oral 2-4S-2
Invited

Real-time Imaging Of Microcirculation Using Laser Speckle: From Techniques To Pre-clinic Applications
Pengcheng Li, Jinling Lu, Yang Wang, Yangyang Li
 Huazhong Univ of Science and Technology



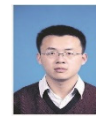
17:15--17:45
Oral 2-4S-3
Invited

Automated Laser Tracking And Optogenetic Manipulation System And Serial Thick-slice Tomography For Neuron Behavior Map
Yen-Yin Lin
 National Tsing Hua Univ

17:45--18:00
Oral 2-4S-4
Mobile-platform For Automatic Fever Screening System Based On Infrared Forehead Temperature
Armote Somboonkaew, Panintorn Premree, Sirajit Vuttivong, Jutaphet Wetcharungsri, Supanit Porntheeraphat, Sataporn Chanhorm, Prasit Pongsoon, Ratthasart Amarit, Yuttana Intaravanne, Kosom Chaitavon, Sarun Sumriddetchkajorn
 National Science and Technology Development Agency (NSTDA)

18:00--18:15
Oral 2-4S-5
Enhanced Graphene/Au Plasmonic Sensing Surface For The Detection Of Anti-Angiogenin Proteins
Li Jiang, Jinguang Tong, Ken-Tye Yong, Sailing He
 Zhejiang Univ

Single-shot Spectral Multiplexing Polarization Sensitive Optical Coherence Tomography For Local Retardation Measurement
Xinyu Liu, Qiaozhou Xiong, Nanshuo Wang, Linbo Liu
 Nanyang Technological Univ



16:50--17:10
Oral 2-4T-3
Invited

Wavefront Engineering For High-speed Volumetric Imaging In Deep Tissue
Lingjie Kong
 Tsinghua Univ

17:10--17:25
Oral 2-4T-4
Depth-of-focus Extended Optical Coherence Tomography Using Synthetic Aperture Compounding
Xuan Wu, Xinyu Liu, En Bo, Xiaojun Yu, Qiaozhou Xiong, Linbo Liu
 Nanyang Technological Univ



17:25--17:45
Oral 2-4T-5
Invited

Polarization- And Wavelength-resolved Endoscopy- Practical Approaches For In Vivo Imaging
Daniel Elson
 Imperial College London

17:45--18:00
Oral 2-4T-6
Optical Coherence Tomography With Gapped Spectrum
Nanshuo Wang, Xinyu Liu, Xiaojun Yu, Si Chen, Shi Chen, Linbo Liu
 Nanyang Technological Univ

18:00--18:15
Oral 2-4T-7
Sample Birefringence Artifacts Mitigation In High Resolution Polarization Sensitive OCT
Qiaozhou Xiong, Xinyu Liu, Nanshuo Wang, Si Chen, Shufen Chen, Linbo Liu
 Nanyang Technological Univ

Conference Program

| Room A: 4401 Fiber-Based Technologies and Applications VII President: Amir Abdolvand | Room B: 4403 Fiber Sensors II President: Xiaopeng Dong | Room C: 4405 Photonic Sensing and Applications I President: Xinyong Dong | Room D: 4501 Microresonators & Nanolasers I President: Xiaofeng Li |
|--|--|--|--|
|--|--|--|--|



08:30--09:00
Oral 3-1A-1
Invited

Manipulating Stimulated Brillouin Scattering Effect In Optical Fibers: Fundamentals And Applications
Changjian Ke, Zhen Guo, Chen Xing
Huazhong Univ of Science and Technology (HUST)



09:00--09:30
Oral 3-1A-2
Invited

Surface Brillouin Scattering In Optical Microfibers
Thibaut Sylvestre, Joel Cabrel Tchahame, Adrien Godet, Kien Phan Huy, Vincent Laude, Jean-Charles Beugnot
FEMTO-ST/CNRS

09:30--09:45
Oral 3-1A-3
Multiwavelength Brillouin Erbium Fiber Laser Sensor With High Resolution
Yi Liu, Mingjiang Zhang, Yuncai Wang
Taiyuan Univ of Technology

09:45--10:00
Oral 3-1A-4
Highly Nonlinear Fiber With Enhanced SBS Effect For Narrowband Optical Filtering
Zhen Guo, Chen Xing, Changjian Ke, Yibo Zhong, Haoyu Wang, Deming Liu
Huazhong Univ of Science and Technology

10:00--10:15
Oral 3-1A-5
Spectral Compression Of Chirp-Free Hyperbolic Secant Pulse In Nonlinear Optical Fibers With Exponentially Increasing Dispersion
Taiwei Zhang, Qian Li
School of Electronic and Computer engineering, Peking Univ



08:30--09:00
Oral 3-1B-1
Invited

Brillouin Dynamic Grating In Few-mode Fibers For Sensor Applications
Kwang Yong Song
Chung-Ang Univ

09:00--09:15
Oral 3-1B-2
Time-lens-assisted Coupled Opto-electronic Oscillation
Kairong Li, Yitang Dai, Feifei Yin, Yue Zhou, Jianqiang Li, Jian Dai, Kun Xu
Beijing Univ Of Posts And Telecommunications

09:15--09:30
Oral 3-1B-3
Explaining Anomalous Large Electro-Optic Coefficients In Poled Silica Optical Fibers
John Canning
Univ of Technology, Sydney

09:30--09:45
Oral 3-1B-4
Theoretical Analysis Of Diffraction Grating Based On 45°-tilted Fiber Gratings
Huabao Qin, Zhijun Yan, Qizhen Sun, Guoqing Wang, Chao Wang, Deming Liu, Lin Zhang
Huazhong Univ of Science and Technology



09:45--10:15
Oral 3-1B-5
Invited

BOTDA System Using Artificial Neural Network
Liang Wang, Nan Guo, Chao Jin, Changyuan Yu, Haw-Yaw Tam, Chao Lu
The Chinese Univ of Hong Kong



08:30--09:00
Oral 3-1C-1
Invited

Fiber Optic Sensing Network And Its Applications
Desheng Jiang, Dian Fan
Wuhan Univ of Technology



09:00--09:30
Oral 3-1C-2
Invited

Development Of Fibre-optic Sensors For Australian Mining Industry
Saiied Aminossadati
The Univ of Queensland

09:30--10:00
Oral 3-1C-3
Invited
Optical Fibre Sensors For Safety Monitoring Applications



Tongyu Liu, Jiqiang Wang, Yubin Wei, Yanfang Li, Binxin Hu
Shandong Micro-Sensor Photonics Ltd,
Shandong Academy of Science

10:00--10:15
Oral 3-1C-4
Asynchronous Visible Light Positioning System Using FDMA And ID Techniques
Huanhuan Zheng, Zhaowen Xu, Changyuan Yu, Mohan Gurusamy
National Univ of Singapore



08:30--09:00
Oral 3-1D-1
Invited

Resonant Photonics With Silicon-based Nanostructures
Nicolas Bonod
Aix Marseille Univ

09:00--09:15
Oral 3-1D-2
Robust High-Frequency Oscillations In Differentially Driven Mutually-Coupled Nanolasers
Hong Han, Ming Jiang Zhang, K. Alan Shore
Taiyuan Univ of Technology

09:15--09:30
Oral 3-1D-3
Plasmon-enhanced ZnO Whispering-gallery Mode Lasing
Junfeng Lu, Yueyue Wang, Qiuxiang Zhu, Jitao Li
Southeast Univ

09:30--09:45
Oral 3-1D-4
A Single Mode Distributed Feedback Laser For Arbitrary Gain Morphology
Muhammad Umar, Kyungtaek Min, Heonsu Jeon, Sunghwan Kim
Ajou Univ

09:45--10:00
Oral 3-1D-5
Low-threshold Distributed Feedback Lasers Prepared By Direct Thermal Nanoimprint Of Resonator Gratings Into Organometal Halide Perovskites
Neda Pourdavoud, Si Wang, André Mayer, Ting Hu, Yiwang Chen, André Marianovich, Wolfgang Kowalsky, Ralf Heiderhoff, Hella-Christin Scheer, Thomas Riedl
Univ of Wuppertal



10:00--10:30
Oral 3-1D-6
Invited

Utilizing Hypbolic Plasmonics For Nanophotonic Structures Tailored For 2D Materials
Amr Helmy
Univ of Toronto

Thu, 03.08.2017

| Room E: 4503 Nonlinear Optics and Signal Processing Presider: Graham Reed | Room F: 4505 Infrared Technology and Applications Presider: Xiaoyu Peng | Room G: 4301 Advanced Devices and Circuits Presider: John Marsh | Room H: 4201 Fiber Lasers and Novel Waveguides Presider: Kan Wu |
|---|---|---|---|
|---|---|---|---|



08:30--09:00
Oral 3-1E-1
Invited

Ultrafast Optical Signal Processing On Silicon Based Platforms With High Nonlinear Figure Of Merit
Dawn Tan
Singapore Univ of Technology and Design

09:00--09:15

Oral 3-1E-2
GVD Control Of Low Loss Slot Photonic Crystal Waveguides For Hybrid Silicon Photonics
Samuel Serna, Weiwei Zhang, Xavier Le Roux, Laurent Vivien, Eric Cassan
Université Paris Sud - Université Paris-Saclay

09:15--09:30

Oral 3-1E-3
Analysis Of Enhanced Four-wave Mixing In Integrated Silicon-graphene Oxide Hybrid Waveguides
Yunyi Yang, Jiayang Wu, Xingyuan Xu, Yao Liang, Jia Baohua, David Moss
Swinburne Univ of Technology

09:30--09:45

Oral 3-1E-4
Four-Wave-Mixing Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity
Ke Wang, Shitao Gao, Yang Wang, Ampalavanapillai Nirmalathas, Christina Lim, Kamal Alameh, Efstratios Skafidas, Hongtao Li
Royal Melbourne Institute of Technology



09:45--10:15
Oral 3-1E-5
Invited

Nonlinear Optics In AlGaAs: Past, Present And Future Prospects
Stewart Aitchison
Univ of Toronto



08:30--09:00
Oral 3-1F-1
Invited

New Science And Technologies In The Infrared
Martin Richardson
Univ of Central Florida



09:00--09:30
Oral 3-1F-2
Invited

Arbitrarily Shapeable, Octave-spanning And Single-cycle Mid-infrared Source By Adiabatic Frequency Conversion
Jeffrey Moses, Peter Krogen, Haim Suchowski, Houkun Liang, Noah Flemens, Kyung-Han Hong, Franz X. Kaertner
Cornell Univ

09:30--09:45

Oral 3-1F-3
Nonlinear Infrared Spectroscopy Free From Spectral Selection
Anna Paterova, Lung Shaun, Dmitry Kalashnikov, Leonid Krivitsky
DSI A*STAR

09:45--10:00

Oral 3-1F-4
Newly Developed 1.7 um Band External Cavity Laser And Its Application To Evaluation Of Ethanol Concentration In Distilled Spirits
Jun Ono, Mao-Chieh Hsu, Yuma Honda, Akihiro Maeda, Fumiki Hanafuji, Xiaoen Du, Hiroshi Mori, Takashi Nakayama
Anritsu Devices Co., Ltd.

10:00--10:15

Oral 3-1F-5
Dynamics Of CO2 Laser-induced Thermal Breakdown In Water
Man Hu, Feng Wang, Daosheng Deng
Fudan Univ



08:30--09:00
Oral 3-1G-1
Invited

Integrated Gratings For Novel Photonic Integrated Circuits
John Marsh, Lianping Hou
Univ of Glasgow

09:00--09:15

Oral 3-1G-2
Characterizations Of DNA Biopolymer-based Rewritable Memory Devices
Huei-Yau Jeng, Tzu-Chien Yang, Chao-You Hung, Yu-Chueh Hung
National Tsing Hua Univ

09:15--09:30

Oral 3-1G-3
Z Transform Techniques In The Design Of Mach-Zehnder Modulators
Regan Klein, Duncan MacFarlane
Southern Methodist Univ

09:30--09:45

Oral 3-1G-4
Linearity And Resolution Of On-chip Brillouin Filters For RF And Optical Communications
Amol Choudhary, Nathaniel Seil, Mark Pelusi, Khu Vu, Pan Ma, Duk-Yong Choi, Stephen Madden, David Marpaung, Benjamin Eggleton
CUDOS, Univ of Sydney

09:45--10:00

Oral 3-1G-5
Precise Lens-assembly Techniques Based On Adhesive Bonding And Hammering For Compact 100GbE TOSA
Keita Mochizuki, Tadashi Mura, Yoshiyuki Kamo, Nobuyuki Yasui, Masatomo Mikuni, Koji Kamiyama, Takahiro Yoshimoto, Daisuke Echizenya, Masaya Shimono, Chinatsu Sanda, Hidekazu Kodera, Masamichi Nogami
Mitsubishi Electric Corporation

10:00--10:15

Oral 3-1G-6
Ray Dynamics And Mode Characteristics Of Square Microcavities With Circular Sides
Yue-De Yang
Institute of Semiconductors, CAS

10:15--10:30

Oral 3-1G-7
Investigation Of Coulomb Interactions Of An Electrically Pumped Polariton Condensate
Subhaskar Mandal, Ge Rongchun, Martin Klaas, Amthor Matthias,



08:30--09:00
Oral 3-1H-1
Invited

Optical Parametric Processes In Waveguides For The Middle Infrared
Camille-Sophie Bres
EPFL

09:00--09:15

Oral 3-1H-2
Complete Removal Of Gordon-Haus Jitter In Large Dispersion Femtosecond Fiber Lasers
Peng Qin, Sijia Wang, Minglie Hu, Youjian Song
Qian Xuesen Laboratory of Space Technology, China Academy of Space Technology

09:15--09:30

Oral 3-1H-3
Characterization Of Ring Cavity Ultra-long Raman Fiber Laser
M.Z. Zulkifli
Aston Univ

09:30--09:45

Oral 3-1H-4
2 μm Pulse Compression Using Gas-filled Negative Curvature Hollow-core Fiber
Elizabeth Lee, Yong Sen Chung, Xia Yu, Qijie Wang, Fei Yu, Jonathan Knight
Nanyang Technological Univ



09:45--10:15
Oral 3-1H-5
Invited

Design And Fabrication Of Nano-carbon Saturable Absorbers For Fiber Lasers
Martinez Amos
Aston Univ

Sebastian Klembt, Lukas Worschech, Christian Schneider, Sven Hoefling, Timothy C.H Liew
Nanyang Technological Univ

| | | | |
|---|--|--|---|
| Room I: 4812 Photonics Global Student Conference 2017 I Presider: Jing Zhang | Room J: 4912 New Phenomena in 2D Materials Presider: Yidong Chong | Room K: 4203 SDM Transmission Presider: Koji Igarashi | Room L: 4303 Visible Light Communication Systems Presider: Pooi Yuen Kam |
|---|--|--|---|



08:30—9:15
Oral 3-1I-1
Keynote

Subcellular Surgery And Nanosurgery

Eric Mazur
 Harvard Univ

09:15--09:30

Oral 3-1I-2

Controlling The Angular Momentum Of Light With Metasurfaces

Robert Devlin, Antonio Ambrosio, Noah Rubin, JP Balthasar Mueller, Federico Capasso
 Harvard Univ

09:30--09:45

Oral 3-1I-3

Manipulation Of Vector Solitons From Atoms To Molecules

Yiyang Luo, Luming Zhao, Qizhen Sun, Li Lei, Songnian Fu, Dingyuan Tang, Deming Liu
 Huazhong Univ of Science and Technology

09:45—10:00

Oral 3-1I-4

Numerical Analysis Of Mode Propagation And Coupling In Multimode Fibers

Nicholas Wong, Yongmin Jung, Shaiful Alam, Periklis Petropoulos, David Richardson
 Univ of Southampton

10:00--10:15

Oral 3-1I-5

Ultrafast Fiber Lasers Mode-locked By Nanomaterial Saturable Absorbers

Jakub Boguslawski
 Wroclaw Univ of Science and Technology



08:30--09:15
Oral 3-1J-1
Keynote

Exotic Nanophotonic Behavior In Systems Of Reduced Dimensionality

Marin Soljacic
 Massachusetts Institute of Technology



09:15--09:45
Oral 3-1J-2
Invited

2D Materials

Polaritons
Tony Low
 Univ of Minnesota



09:45--10:15
Oral 3-1J-3
Invited

Semiconductor-Superconductor Optoelectronic Devices

Hayat Alex
 Technion

10:15--10:30

Oral 3-1J-4

Selectively Tunable Optical Stark Effect In Atomically Thin ReS₂

Doeon Lee, Sangwan Sim, Minji Noh, Soonyong Cha, Chan Ho Soh, Ji Ho Sung, Sungjun Cho, Wooyoung Shim, Moon-Ho Jo, Hyunyoung Choi
 Yonsei Univ.



08:30--09:00
Oral 3-1K-1
Invited

High Capacity Transmission Based On Multi-core Fiber

Qi Yang, Xiang Li, Ming Luo, Jin Tao, Ying Qiu, Zhixue He
 Wuhan Research Institute of Posts and Telecommunications (WRI)

09:00--09:15

Oral 3-1K-2

1024 QAM Coherent Optical Transmission In 31 Km-long, 19-core Fiber With Low Crosstalk And Large Effective Area

Masato Yoshida, Keisuke Kasai, Toshihiko Hirooka, Masataka Nakazawa, Katsunori Imamura, Ryuichi Sugizaki
 Tohoku Univ

09:15--09:30

Oral 3-1K-3

Ultra-Long-Haul Multicore Fiber Transmission Over 5,000 Km Using Cladding Pumped Seven-Core EDFA

Yu Kawaguchi, Takehiro Tsuritani
 KDDI Research, Inc.

09:30--09:45

Oral 3-1K-4

Experimental Characterization Of Step-index Few-Mode Fiber For Weakly-Coupled 10-Mode-Multiplexed Transmission

Yuta Wakayama, Daiki Soma, Koji Igarashi, Hidenori Taga, Takehiro Tsuritani
 KDDI Research, Inc.

09:45--10:00

Oral 3-1K-5

Passive Optical Delivering Network Using Conventional Graded-index Multi-Mode Fiber With Mode Division Multiplexing And Sub-Carrier Multiplexing

Bishal Poudel, Katsushi Iwashita, Hirokazu Kobayashi, Joji Oshima, Yuki Morizumi
 Kochi Univ of Technology



08:30--09:00
Oral 3-1L-1
Invited

Visible Light For Vehicular Communications.

Zabih Ghassemloooy
 Northumbria Univ



09:00--09:30

Oral 3-1L-2

Invited

High Speed LED

Based Visible Light Communication: Demand Factors, Benefits And Opportunities

Nan Chi
 Fudan Univ

09:30--09:45

Oral 3-1L-3

Multi-band Orthogonal Circulant Matrix Transform Precoding Over Visible Light Communications

Yang Hong, Lian-Kuan Chen
 The Chinese Univ of Hong Kong

09:45--10:00

Oral 3-1L-4

The Concept Of Location-based Equalization For Indoor Visible Light Communications

Xiaodi You, Jian Chen, Changyuan Yu
 Nanjing Univ of Posts and Telecommunications

Thu, 03.08.2017

| | | | |
|---|--|---|---|
| Room M: 4611 High Power Fiber Laser II President: Boris Snopok | Room N: 4612 Women In Photonics I President: Jinyu Mo | Room O: 4613 Quantum Technologies President: David Wilkowski | Room P: 4711 Advanced Optical Technology President: Aleksander Rakic |
|---|--|---|---|



08:30--09:00
Oral 3-1M-1
Invited

High Energy Ultrafast Fiber Laser At 2um
Xia Yu
 SIMTech, ASTAR

09:00--09:15
Oral 3-1M-2
Generation Of Powerful Ultrashort Raman Pulses Near 1.3 Micron In External Phosphosilicate-fiber Cavity
Denis Kharenko, Vlad Efremov, Sergey Babin
 Institute of Automation and Electrometry, SB RAS

09:15--09:30
Oral 3-1M-3
1um Femtosecond Fiber CPA System Based On Er-doped Mode-locked Fiber Technology
Ruoyu Sun, Fangzhou Tan, Dongchen Jin, Pu Wang
 Beijing Univ of Technology



09:30--10:00
Oral 3-1M-4
Invited

Temporal And Spatial Manipulations Of Pulsed Fiber MOPA Outputs For Energy Efficient Manufacturing
Shaif-ul Alam, Di Lin, Neda Baktash, David Richardson
 Univ of Southampton

10:00--10:15
Oral 3-1M-5
Self-starting And Environment Stable 500 MHz Repetition Rate Femtosecond Yb: fiber Laser With Non-polarization Maintaining Fiber
Guangyu Liu, Bo Wang, Xinghe Jiang, Aimin Wang, Zhigang Zhang
 Peking Univ

10:15--10:30
Oral 3-1M-6
Diode Pumped Dy: YAG Yellow Laser
Qiaojun Ju, Jing Gao
 Suzhou Inst Biomed Engin Tech



08:30--08:50
Oral 3-1N-1
Invited

The Age Of Silicon Photonics: Has It Arrived?
Sri Priya Sundararajan
 Cisco Systems



08:50--09:10
Oral 3-1N-2
Invited

Photonics Blended Multidisciplinary-21st Century Leading Research Field
Ping Hua
 Univ of Southampton



09:10--09:30
Oral 3-1N-3
Invited

Advances In Biophotonics For Translational Medicine
Malini Olivo
 Bio-Optical Imaging Group, Singapore Bioimaging Consortium, A*STAR



09:30--09:50
Oral 3-1N-4
Invited

A Career In Scientific Publishing And Editing
Rachel Won
 Nature Photonics



09:50--10:10
Oral 3-1N-5
Invited

The Third Photonics Revolution?
Heike Ebendorff-Heidepriem
 Univ of Adelaide



08:30--09:00
Oral 3-1O-1
Invited

Superconducting Atom-Chips
Rainer Dumke, Christoph Hufnagel, Yu Deshui
 NTU / CQT



09:00--09:30
Oral 3-1O-2
Invited

Global Quantum Communications: Quantum Satellites And Other Things
Alexander Ling, Alexander Lohrmann, Aitor Villar, Rakhitha Chandrasekara, Zhongkan Tang
 NUS

09:30--09:45
Oral 3-1O-3
Overarching Framework Between Gaussian Quantum Discord And Gaussian Quantum Illumination
Mark Bradshaw, Syed Assad, Jing Yan Haw, Si-Hui Tan, Ping Koy Lam, Mile Gu
 Australian National Univ

09:45--10:00
Oral 3-1O-4
Regulable Photon Bunching And Anti-Bunching In Quantum Dot-Bimodal Cavity Coupling System
Chengwang Zhao, Han Ye, Xiang Cheng, Zhongyuan Yu, Yumin Liu, Yanran Kang
 Beijing Univ of Posts and Telecommunications



10:00--10:30
Oral 3-1O-5
Invited

Quantum Thermodynamics With Cold Atoms
Halina Rubinsztein-dunlop
 The Univ of Queensland



08:30--09:00
Oral 3-1P-1
Invited

Phase-only Spatial LCOS And Applications
Daping Chu
 Univ of Cambridge



09:00--09:30
Oral 3-1P-2
Invited

Hollow Core Optical Fibres From The UV To Mid-IR
William Wadsworth
 Univ of Bath

09:30--09:45
Oral 3-1P-3
Vector Bend Sensing Based On Polymer And Silica Fiber Bragg Gratings
Binbin Yan, Guoqiang Liu, Yanhua Luo, Xinzhu Sang, Kuiru Wang, Jinhui Yuan, Gang-Ding Peng, Chongxiu Yu
 Univ of Posts and Telecommunications



09:45--10:15
Oral 3-1P-4
Invited

Fiber Optic Multiplexing Ultrasound Detection Of Rebar In Concrete
Xingwei Wang, Du Cong, Jones Owusu Twumasi, Xu Guo, Jingcheng Zhou, Qixiang Tang, Nan Wu, Tzuyang Yu
 Univ of Massachusetts Lowell

Conference Program

| Room Q: 4712 Photonic Applications of 2D Materials Presider: Jaroslaw Sotor | Room R: 4713 Liquid Crystals and Their Applications Presider: Yuanjin Zheng | Room S: 4811 Microwave Photonics I Presider: Shilong Pan | Room T: 4911 Nonlinear and Broadband Amplifiers I Presider: Peter Andrekson |
|---|---|--|---|
|---|---|--|---|



08:30--09:00
Oral 3-1Q-1
Invited

Nonlinear Optical Frequency Conversion In 2D Materials
Christiano De Matos
MackGraphe - Mackenzie Presbyterian Univ



08:30--09:00
Oral 3-1R-1
Invited

Modelling Of Liquid Crystals At The Edge Of High Resolution Pixels
Sally Day, Yuan Tong, Zijun Nie, Mengyang Yang, F. Anibal Fernandez
Univ College London



08:30--09:00
Oral 3-1S-1
Invited

Signal Processing And Sensing Based On Microwave Photonics
Xiaoke Yi, Robert Minasian, Liwei Li, Suen Xin Chew, Linh Nguyen
Univ of Sydney



08:30--09:00
Oral 3-1T-1
Invited

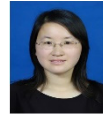
Latest Developments In Nonlinear And Broadband Amplifiers For Optical Fibre Communications And Related Applications.
Nikola Alic
UCSD



09:00--09:30
Oral 3-1Q-2
Invited

Ultrafast Fiber Lasers Mode-locked With 2D Nanomaterials
Grzegorz Sobon
Wroclaw Univ of Science and Technology

09:00--09:15
Oral 3-1R-2
Electrically Switchable Smart Glass With Hyper-reflection Of Infrared Light
Xiaoxue Du, Yong Li, Dan Luo
Southern Univ of Science and Technology



09:00--09:30
Oral 3-1S-2
Invited

RF Front-end Based On Microwave Photonics
Dan Zhu, Wenjuan Chen, Zhiwen Chen, Tianhua Du, Zhenzhou Tang, Shilong Pan
Nanjing Univ of Aeronautics and Astronautics



09:00--09:30
Oral 3-1T-2
Invited

Wideband Polarization-Insensitive Fiber Optical Parametric Amplifier Using Quasi-Phase-Matching
Shigehiro Takasaka
Furukawa Electric Co., Ltd.



09:30--10:00
Oral 3-1Q-3
Invited

Two-dimensional Material Based Saturable Absorbers For Ultrafast Lasers
Meng Zhang
Beihang Univ

09:15--09:30
Oral 3-1R-3
Fast Switching Of Nematic Liquid Crystals Between The Transparent And Translucent States
Tae-Hoon Choi, Jae-Hyeon Woo, Jong-Min Baek, Yeongyu Choi, Tae-Hoon Yoon
Pusan National Univ



09:30--10:00
Oral 3-1S-3
Invited

Millimeter Wave Radar Connected By Radio Over Fiber For Foreign Objects And Debris Detection On Airport Surface
Yonemoto Naruto
Electronic Navigation Research Institute, National Institute of Maritime, Port, and Aviation Technology



09:30--10:00
Oral 3-1T-3
Invited

Broadband Fibre Optical Parametric Amplifiers for Optical Communications
Marc Stephens, Vladimir Gordienko, Nick Doran
Aston Univ



10:00--10:30
Oral 3-1Q-4
Invited

Two-dimensional Layered Materials And Van Der Waals Heterostructures For Ultrafast Photonics
Peiguang Yan
Shenzhen Univ

09:30--09:45
Oral 3-1R-4
Programmable Mode Switch Based On Multi-plan Light Conversion (MPLC) For Mode Division Multiplexing Networks
Yongjie Tian, Yan Li, Beibei Li, Donghao Zheng, Wei Li, Xiaobin Hong, Zuo Yong, Jian Wu
Beijing Univ of Posts and Telecommunications

10:00--10:15
Oral 3-1S-4
Negative Wavelength Detuning For The Generation Of Microwave Using Single Mode Fabry-Perot Laser
Bikash Nakarmi, Shilong Pan
NUAA



10:00--10:30
Oral 3-1T-4
Invited

Towards EDFA Replaceable Inline PSA
Youichi Akasaka
Fujitsu Laboratories of America

09:45--10:00
Oral 3-1R-5
A Novel Liquid Crystal-based Optrode For The Recording Of Biopotentials: Modelling And Experiments
Leonardo Silvestri, Amr Al Abed, Hrishikesh Srinivas, Josiah Firth, Francois Ladouceur, Nigel Lovell
UNSW

10:00--10:15
Oral 3-1R-6
Optical Field Imaging With A Single Photodiode Exploiting Optical Phase Conjugation
Seungwoo Shin, KyeoReh Lee, YoonSeok Baek, YongKeun Park
Korea Advanced Institute of Science and Technology


10:15--10:30
Oral 3-1S-5
Synthetic Aperture Radar Based On Photonic-Assisted Signal Generation And Processing
Ruoming Li, Wangzhe Li, Zhilei Wen, Manlai Ding, Liangjiang Zhou, Songshan Yu, Tonghe Xing, Yanlei Li, Bowei Gao, Yu Tian
Institute of Electronics Chinese Academy of Sciences

| <p>Room A: 4401 Fiber-Based Technologies and Applications VIII Presider: Xin Jiang</p> | <p>Room B: 4403 Fiber Laser and Amplifier Presider: Tomasz R. Wolinski</p> | <p>Room C: 4405 Photonic Sensing and Applications II Presider: Xingwei Wang</p> | <p>Room D: 4501 Microresonators & Nanolasers II Presider: Patrice Genevet</p> |
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|--|--|---|---|




10:45--11:15
Oral 3-2A-1
Invited

Controlled Light-Matter Interaction In Gas-Filled Hollow-Core Photonic Crystal Fibres
Amir Abdolvand
Nanyang Technological Univ



11:15--11:45
Oral 3-2A-2
Invited

Control Of Pulsed Fiber Laser Operation Based On The Manipulation Of Low-dimensional Carbon Nanomaterials
Dong-Il Yeom
Ajou Univ



11:45--12:15
Oral 3-2A-3
Invited


Specialty Optical Fiber And Assemblies Helping Industry Improve Performance
Devinder Saini
Fiberguide Industries

12:15--12:30
Oral 3-2A-4

Tunable Mode Locked Erbium-doped Fiber Laser Based A Tilted Fiber Grating And Carbon Nanotube Saturable Absorber
Tianxing Wang, Chuanhang Zou, Zhijun Yan, Qianqian Huang, Chengbo Mou, Kaiming Zhou, Mohammed Alaraimi, Aleksey Rozhin, Lin Zhang
Shanghai Univ


12:30--12:45
Oral 3-2A-5

Passive Mode-locking Of A Fiber Laser Using A Graphene Oxide-based Saturable Absorber Based On Cladding-etched Optical Fiber
Seunghwan Ko, Junsu Lee, Joonhoi Koo, Ju Han Lee
Univ of Seoul




10:45--11:15
Oral 3-2B-1
Invited

Next-Generation 300nm Broadband Fiber Amplifier Employing Single Mode Cr-Doped Crystal Fiber
Chun-Nien Liu, Wood-Hi Cheng
National Chung Hsing Univ



11:15--11:45
Oral 3-2B-2
Invited

Bismuth-doped All-fiber Lasers And Amplifiers: Recent Advances
Jayanta K Sahu, Naresh Kumar Thipparapu, Andrey. A Umnikov, Pranabesh Barua, Guo Chunyu, Saurabh Jain
Univ of Southampton



11:45--12:15
Oral 3-2B-3
Invited

Automatic Mode-locking In Fiber Laser By Polarization Tracking
Lilin Yi, Peixuan Li, Guoqing Pu, Weisheng Hu
Shanghai Jiao Tong Univ



12:15--12:45
Oral 3-2B-4
Invited

Mid-infrared Supercontinuum Generation In Chalcogenide Optical Fibers
Yasutake Ohishi, Tonglei Cheng, Kenshiro Nagasaka, Tong Hoang Tuan, Takenobu Suzuki
Toyota Technological Institute




10:45--11:15
Oral 3-2C-1
Invited

Smart Sensing & Photonics
John Canning
Univ of Technology Sydney



11:15--11:45
Oral 3-2C-2
Invited

Optical Parametric Amplifier For Optical Coherence Tomography
Kenneth Kin-yip Wong, Jiqiang Kang
The University of Hong Kong




11:45--12:15
Oral 3-2C-3
Invited

Opto-electronic Single Cell Analysis
Changming Li
Southwest Univ

12:15--12:30
Oral 3-2C-4

A Singular Value Decomposition-Based Positioning Algorithm For Indoor Visible Light Positioning System
Ran Zhang, Wen-De Zhong
Nanyang Technological Univ



10:45--11:15
Oral 3-2D-1
Invited

Spatio-Temporal Dynamics Of Strong Coupling And Nanolasing In Nanoplasmonic Cavities
Ortwin Hess
Imperial College London

11:15--11:30
Oral 3-2D-2

Chirality And Directional Emission Of A SiNx-based Microring Resonator With Position Controllable Scatters
Zhuohui Yang, Yanfeng Zhang, Bingzhi Zhang, Chenxuan Yin, Yujie Chen, Siyuan Yu
Sun Yat-sen Univ

11:30--11:45
Oral 3-2D-3

Optical Resonances From InAs Quantum Dots Embedded In Rolled-Up Tubular Microcavity
Zhaocer Chai, Qi Wang, Xiankun Wang, Guoming Mao, Jiawei Cao, Xiaomin Ren
Beijing Univ of Posts and Telecommunications

11:45--12:00
Oral 3-2D-4

Elliptical Double-Hole Photonic-Crystal Surface-Emitting Lasers
Masahiro Yoshida, Menaka De Zoysa, Ranko Hatsuda, Yoshinori Tanaka, Kenji Ishizaki, Susumu Noda
Kyoto Univ

12:00--12:15
Oral 3-2D-5

Growth And Optical Characterization Of Erbium-doped Cerium Oxide As A Magnetically Purified Host Crystal
Tawara Takehiko, Inaba Tomohiro, Omi Hiroo, Yamamoto Hideki, Gotoh Hideki
NTT Basic Research Laboratories

12:15--12:30
Oral 3-2D-6

Organic-inorganic Perovskite Quantum Dots-polymer Hybrid Optical Films For Back Light LCD Display
Wengao Lu, Qingchao Zhou, Haizheng Zhong, Yongtian Wang
Beijing Institute of Technology

Thu, 03.08.2017

Conference Program

| Room E: 4503 Novel Materials, Nanophotonics and Processes President: David Thomson | Room F: 4505 Infrared Emission and Waveguide Fabrication President: Jinghua Teng | Room G: 4301 Nano Optical Trapping President: Aaron Ho | Room H: 4201 High Field Physics and Other Topics in Nonlinear Optics President: Xuan Wu |
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10:45--11:00

Oral 3-2E-1

Cascaded Metasurface Structures
Yuanhui Wen, Yujie Chen, Jiangbo Zhu, Lidan Zhou, Lin Liu, Yanfeng Zhang, Siyuan Yu
Sun Yat-sen Univ

11:00--11:15

Oral 3-2E-2

Thulium-Doped Distributed Feedback And Distributed Bragg Reflector Lasers On Silicon Chips
Nanxi Li, Purnawirman Purnawirman, Zhan Su, Emir Magden, Patrick Callahan, Katia Shtyrkova, Ming Xin, Alfonso Ruocco, Christopher Baiocco, Erich Ippen, Franz Kaertner, Jonathan Bradley, Diedrik Vermeulen, Watts Michael
Massachusetts Institute of Technology

11:15--11:30

Oral 3-2E-3

Monolithic InN/InGaN/GaN Nanowire Array Guided Near-Infrared Detector On Silicon
Md Zunaid Baten, Arnab Hazari, Pallab Bhattacharya
Univ of Michigan

11:30--11:45

Oral 3-2E-4

Experimental Observation Of Optical Bistability In An Integrated Vortex Beam Emitter
Jian Wang, Jun Liu, Shimao Li, Charalambos Klitis, Marc Sorel, Siyuan Yu, Xinlun Cai
Huazhong Univ of Science and Technology

11:45--12:00

Oral 3-2E-5

Orbital Angular Momentum Assisted Spin-directional Coupling
Zengkai Shao, Yanfeng Zhang, Jiangbo Zhu, Zhuohui Yang, Yujie Chen, Siyuan Yu
Sun Yat-sen Univ

12:00--12:15

Oral 3-2E-6

Electrically Pumped Continuous-wave 1.3 μm InAs Quantum Dot Lasers Directly Grown On On-axis Si (001)
Siming Chen, Mengya Liao, Mingchu Tang, Jiang Wu, Mickael Martin, Thierry Baron, Alwyn Seeds, Huiyun Liu
Univ College London

12:15--12:30

Oral 3-2E-7



10:45--11:15

Oral 3-2F-1

Invited

Revisiting Planck's

Law: Thermal Emission And Radiation Noise In Subwavelength Infrared Cavities
Joseph Talghader
Univ of Minnesota

11:15--11:30

Oral 3-2F-2

30 W, 2-3um All-fiber Supercontinuum Laser Source Based On Germania-core Fiber
Linyong Yang, Bin Zhang, Ke Yin, Jinmei Yao, Jing Hou, Yijun Zhao
National Univ of Defense Technology

11:30--11:45

Oral 3-2F-3

High Power, Tunable, Mid-IR Generation With Singly Resonant Optical Parametric Oscillator
Mukesh Kumar Shukla, Ritwick Das
National Institute of Science Education and Research

11:45--12:00

Oral 3-2F-4

Towards High-power All-fiber 2-5 Um Supercontinuum Generation In Step-index Chalcogenide Fiber
Jinmei Yao, Bin Zhang, Ke Yin, Zhen Cai, Jing Hou
National Univ of Defense Technology

12:00--12:15

Oral 3-2F-5

Two-photon Direct Laser Writing On Polymer Materials For Optical Waveguide Applications
Abhinay Mishra, Shufan Li, Young-Jin Kim
Nanyang Technological Univ

12:15--12:30

Oral 3-2F-6

Buried Waveguides Written Deep Inside Silicon
Ahmet Turnali, Onur Tokel, Denizhan Koray Kesim, Ghaith Makey, Parviz Elahi, Fatih Omer Ilday
Bilkent Univ



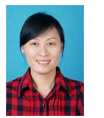
10:45--11:15

Oral 3-2G-1

Invited

Plasmonic

Localization With Arrays Of Nanoapertures For Optically Trapped Biomedical Sensing
Donghyun Kim, Taehwang Son, Changhun Lee
Yonsei Univ



11:15--11:45

Oral 3-2G-2

Invited

Optical Pulling Nanoparticles With

Nonparaxial Accelerating Beams
Guoxia Han, Zhangxiang Huang, Sha An, Tong Peng, Meirong Wang, Baoli Yao, Peng Zhang
China Univ of Petroleum (East China)

11:45--12:00

Oral 3-2G-3

Angular Momentum Of Guided Modes In Ultrathin Optical Fiber: Evolution And Applications
Viet Giang Truong, Aili Maimaiti, Cindy Esporlas, Sile Nic Chormaic, Le Kien Fam, Thomas Busch
OIST Graduate Univ

12:00--12:15

Oral 3-2G-4

Nano-particle Rotation Using A Gap-mode Plasmonic Field Of Nano-structure
Shutaro Ishida, Kota Sudo, Keiji Sasaki
Hokkaido Univ

12:15--12:30

Oral 3-2G-5

Photon- And Resistive Heating-Induced Thermophoresis For The Manipulation Of Colloidal Particles And Live Cells
Hengji Cong, Jiajie Chen, Zhiwen Kang, Hopui Ho
The Chinese Univ of Hong Kong

12:30--12:45

Oral 3-2G-6

Optical Trapping With Microring Resonator In A Self-Locked Scheme
Wai Lok Ho, Hengji Cong
City Univ of Hong Kong



10:45--11:15

Oral 3-2H-1

Invited

Record Results In

Parametric Amplification
Nikola Alic, Stojan Radic
UCSD

11:15--11:30

Oral 3-2H-2

CR-39 Track Detector For Multi-MeV Ion Spectroscopy
Tae Won Jeong, Prashant Kumar Singh, Cheonha Jeon, Hyun Ho Yun, Fatema Kaniz Kakolee, Sargis Ter-Avetisyan
Institute for Basic Science

11:30--11:45

Oral 3-2H-3

Laser Guided Corona Discharges And Its Applications
Tie-Jun Wang
Shanghai Institute of Optics and Fine Mechanics, CAS

11:45--12:00

Oral 3-2H-4

Benchmarking Strong-field Physics With Atomic And Molecular Hydrogen
Igor Litvinyuk
Griffith Univ

12:00--12:15

Oral 3-2H-5

Third Harmonic Generation At Sapphire Wafers With Different Cut Axis
Jiannan Jiao, Byung Jae Chun, Yi Gao, Young-Jin Kim
Nanyang Technological Univ

12:15--12:30

Oral 3-2H-6

Shot-to-Shot And Long-Term CEP-Stable Front-End For A Parallel Optical Waveform Synthesizer
Roland E. Mainz, Giulio Maria Rossi, Giovanni Cirimi, Yudong Yang, Oliver D. Mucke, Franz X. Kartner
CFEL-DESY, UHH

12:30--12:45


Oral 3-2H-7

High Field Broadband THz Pulses By Ultrashort Laser-plasma Interaction
Wen Jun Ding, Zhemg Ming Sheng
Institute of High Performance Computing, A*STAR

Thu, 03.08.2017

Controlled Initial Orientation of Liquid Crystals in Silicon Optical Switches with a Groove Array
Yuki Atsumi, Kazuhiro Watabe, Narutaka Uda, Noboru Miura, Masahiko Mori, Youichi Sakakibara
 AIST

| | | | |
|---|---|---|--|
| Room I: 4812 Photonics Global Student Conference 2017 II Presider: Wei Zhang | Room J: 4912 Optoelectronic Properties of 2D Materials Presider: Cesare Soci | Room K: 4203 Transmission Technologies for Optical Network Presider: Takeshi Hoshida | Room L: 4303 Optical Access Systems Presider: Andreas Stöhr |
|---|---|---|--|

 **10:45--11:15**
Oral 3-2I-1
Invited
Nature Photonics
And You
Rachel Won
 Nature Photonics

11:15--11:30
Oral 3-2I-2
A Compact Reference-free Holographic Image Sensor
KyeoReh Lee, YongKeun Park
 KAIST

11:30--11:45
Oral 3-2I-3
High-speed GaN-based Laser Diodes For Gbps Visible Light Communication Links Going Beyond 100-meter Transmission Distance
Chao Shen
 KAUST

11:45--12:00
Oral 3-2I-4
Probabilistically Shaped Coded Modulation For Fiber-Optic Communication Systems
Tobias Fehenberger
 Technical Univ of Munich

12:00--12:15
Oral 3-2I-5
A Chip-integrated Brillouin-based Optical Memory
Moritz Merklein, Birgit Stiller, Benjamin Eggleton
 CUDOS, The Univ of Sydney

12:15--12:30
Oral 3-2I-6
3D Micro-fabrication Using Multimode Optical Fibers
Edgar Morales, Christophe Moser, Demetri Psaltis
 EPFL

 **10:45--11:15**
Oral 3-2J-1
Invited
Optoelectronic
Devices Based On Cavityintegrated 2D Materials
Changhua Liu, Arka Majumdar
 Univ of Washington

11:15--11:45
Oral 3-2J-2
Invited
Cavity-free Lasers
Through Graphene-based Active Random Metamaterials
Andrea Marini, F. Javier Garcia De Abajo
 ICFO - The Institute of Photonic Sciences

 **11:45--12:15**
Oral 3-2J-3
Invited
Interlayer Coupling
And Charge Transfer In 2D Semiconductors And Heterostructures
Qihua Xiong
 Nanyang Technological Univ

12:15--12:30
Oral 3-2J-4
Tailoring Optical Properties Of Atomically-Thin WS2 via Ion Irradiation
Tan Yang
 Shandong Univ


12:30--12:45
Oral 3-2J-5
Hybrid Structure Of 2D Material/Polymer For Thermally Stable Optoelectronic Devices
Shi Wun Tong, Kian Ping Loh, Dong Zhi Chi
 Institute of Materials Research and Engineering

 **10:45--11:15**
Oral 3-2K-1
Invited
Electro-photonics For
High-capacity And Energy-efficient Optical Communication Networks
Leimeng Zhuang, Arthur Lowery
 Monash Univ

11:15--11:30
Oral 3-2K-2
First Investigation And Reduction Of Inter-WSS Crosstalk In Multiple-arrayed WSSs For Optical Node
Hiroki Kawahara, Akio Sahara, Yoshiaki Sone, Shingo Kawai, Mitsunori Fukutoku, Yutaka Miyamoto, Keita Yamaguchi, Kenya Suzuki, Toshikazu Hashimoto
 NTT Network Innovation Laboratories

11:30--11:45
Oral 3-2K-3
Dynamic Restoration Of Seed Lightwave Distribution System For Low-DSP-complexity Coherent Optical Networks
Jun Sakaguchi, Sugang Xu, Masaki Shiraiwa, Takaya Miyazawa, Yoshinari Awaji, Naoya Wada
 NICT

11:45--12:00
Oral 3-2K-4
Experimental Evaluation Of Nonlinear Noise Power Modeling For Optical Network Design
Kiichi Sugitani, Tatsuro Kishida, Kazunari Shiota, Hiroshi Adachi, Hisao Nakashima, Tomofumi Oyama, Hiroyuki Irie, Yuichi Akiyama, Takeshi Hoshida
 Fujitsu Kyusyu Network Technologies Limited

 **12:00--12:30**
Oral 3-2k-5
Invited
Arbitrary Period Control And Noise Mitigation In Periodic Waveforms Through Coherent Energy Redistribution
Jose Azana, Reza Maram, Luis Romero Cortes
 INRS-EMT

 **10:45--11:15**
Oral 3-2L-1
Invited
Vector Modulation
Using EA Modulator
Ukrit Mankong, Praimezt Mekbungwan, Keizo Inagaki, Kanno Atsushi, Kawanishi Tetsuya
 Chiang Mai Univ

11:15--11:30
Oral 3-2L-2
Four-Wave Mixing Effect Reduction In O-band Multi-Wavelength NG-EPON System Based On Chirped DML
Xin Miao, Meihua Bi, Hao He, Weisheng Hu
 Shanghai Jiao Tong Univ

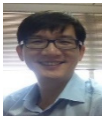
11:30--11:45
Oral 3-2L-3
Optical Wireless Communication at 100 Gb/s Using L-band Quantum-dash Laser
Muhammad Talal Ali Khan, Mohamed Adel Shemis, Amr Mohamd Ragheb, Maged Abdullah Esmail, Habib Fathallah, Saleh Alshebeili, Mohammed Zahed Mustafa Khan
 King Fahd Univ of Petroleum and Minerals

11:45--12:00
Oral 3-2L-4
Bandwidth Enhancement Of Wireless Optical Communication Link Using A Near-Infrared Laser Over Turbid Underwater Channel
It Ee Lee, Yujian Guo, Tien Khee Ng, Ki-Hong Park, Mohamed-Slim Alouini, Boon S. Ooi
 Multimedia Univ

 **12:00--12:30**
Oral 3-2L-5
Invited
Advanced Photonic Devices For Next Generation Millimeter-Wave Wireless Network In Dense User Environment
Hiroshi Murata
 Osaka Univ

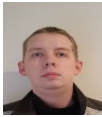
Thu, 03.08.2017

| | | | |
|--|---|---|---|
| Room M: 4611 High Power Fiber Laser III President: Atsushi A Yamaguchi | Room N: 4612 Women In Photonics II President: Huilin Shao | Room O: 4613 Nitrides, Other Widegap Semiconductors I President: Hilmi Volkan | Room P: 4711 Lab-in-a-Fiber Technologies I President: Annamaria Cucinotta |
|--|---|---|---|



10:45--11:15
 Oral 3-2M-1
Invited

Asymmetric Large Mode Area Fibres
 Seongwoo Yoo
 NTU



11:15--11:45
 Oral 3-2M-2
Invited

A Review Of Metal-Coated Active Optical Fibres
 Nikita Simakov, Jae Daniel, Alexander Hemming, John Haub, Andrew W. Clarkson
 Defence Science and Technology Group

11:45--12:00
 Oral 3-2M-3

Coherent Beam Combination Of High-average-power Ultrafast Fiber Lasers
 Pu Zhou, Rongtao Su, Pengfei Ma, Hailong Yu, Zhixin Zhang, Yanxing Ma, Xiaolin Wang
 National Univ of Defense Technology,

12:00--12:15
 Oral 3-2M-4

Nonlinear Processes When Amplifying 2053 nm, MHz-linewidth Pulses In Single-mode Fiber
 Alex Sincore, Nathan Bodnar, Joshua Bradford, Ali Abdulfattah, Lawrence Shah, Martin Richardson
 CREOL, UCF

12:15--12:30
 Oral 3-2M-5

Solid-state Lasers Directly Pumped By InGaN-based Green And Blue Laser Diodes
 Hiroki Tanaka, Kodai Iijima, Ryota Sawada, Naoto Sugiyama, Yasuaki Kiyota, Fumihiko Kannari
 Keio Univ

12:30--12:45
 Oral 3-2M-6

Broadband Passive Harmonic Mode Locking In A Dispersion-managed Er-doped Fiber Laser
 Ying Geng, Lei Li, Yu Feng Song, Xuan Wang, Han Xiao Wang, Ding Yuan Tang, Lu Ming Zhao
 Jiangsu Normal University



10:45--11:05
 Oral 3-2N-1
Invited

Life As A Female Research Fellow In Photonics
 Lidia Galdino
 Univ College London



11:05--11:25
 Oral 3-2N-2
Invited

Challenge, Passion And Happy -- A Chinese Woman In Photonics
 Xuping Zhang
 Nanjing Univ



11:25--11:45
 Oral 3-2N-3
Invited

A Life Across Science: My Marriage With Photonics
 Alessia Giroletti
 Bristol Univ

10:45--11:00
 Oral 3-2O-1

Control Beta-phase Stability Of Sn-doped Ga2O3 Thin Films For Electrical Application
 Xiaolong Zhao, Cui Wei, Zhenping Wu, Linghong Li, Weihua Tang
 Beijing Univ of posts and telecommunications

11:00--11:15
 Oral 3-2O-2

Free-standing undoped acceptor-rich ZnO microtubes and their unique optical properties as ultrathin-walled microcavities
 Yinzhou Yan, Qiang Wang, Yijian Jiang
 Beijing Univ of Technology

11:15--11:30
 Oral 3-2O-3

Improvement Of Properties In Nonpolar A-plane P-AlGaIn Films By Mg-delta Doping Method
 Zili Wu, Xiong Zhang, Qian Dai, Jianguo Zhao, Aijie Fan, Yiping Cui
 Southeast Univ



11:30--12:00
 Oral 3-2O-4
Invited

Band Gap Engineering And Heterostructures Of Low Dimensional Semiconductors
 Anlian Pan
 Hunan Univ



10:45--11:15
 Oral 3-2P-1
Invited

The Optical Fiber Tip As Promising Platform For Advanced Lab-on-Fiber Devices
 Marco Consales, Andrea Cusano
 Univ of Sannio



11:15--11:45
 Oral 3-2P-2
Invited

Femtosecond Laser Modification Of Optical Fibres For Lab-on-tip And Lab-around-fibre Devices
 Kyriacos Kalli, Andreas Ioannou, Andreas Theodosiou, Christophe Caucheteur
 Cyprus Univ of Technology

Thu, 03.08.2017

| | | | |
|--|--|---|---|
| Room Q: 4712 2D Materials President: Meng Zhang | Room R: 4713 Applications of Spatial Light Modulators President: Cuong Dang | Room S: 4811 Microwave Photonics II President: Xiaoke Yi | Room T: 4911 Nonlinear and Broadband Amplifiers II President: Nick Doran |
|--|--|---|---|



10:45--11:15
Oral 3-2Q-1
Invited

Imaging The Dynamics Of Photoexcited Electrons In A Type II Semiconductor Heterostructure
Keshav Dani
 Okinawa Institute of Science and Technology Graduate Univ



11:15--11:45
Oral 3-2Q-2
Invited

Optical Properties Of Topological Insulators And Their Applications For Pulsed Solid-State Lasers
Yuan-Yao Lin, Chao-Kuei Lee
 National Sun Yat-sen Univ



11:45--12:15
Oral 3-2Q-3
Invited

Rogue Waves In Fiber Lasers By 2D Materials-based Photonic Devices
Zhi Chao Luo, Meng Liu, Ai Ping Luo, Wen Cheng Xu
 South China Normal Univ

12:15--12:30
Oral 3-2Q-4

Vector Solitons In Fiber Lasers Mode Locked By Black Phosphorus Nanoflakes
Yufeng Song, Si Chen, Yanqi Ge, Zhiming Liang, Luming Zhao, Han Zhang, Dingyuan Tang
 Shenzhen Univ

12:30--12:45
Oral 3-2Q-5

A Femtosecond Pulse Fiber Laser At 1.91um Using MoSe2/PVA-based Evanescent Field Interaction
Jinho Lee
 Univ of Seoul



10:45--11:15
Oral 3-2R-1
Invited

Microstructured Liquid Crystal Photoalignment For Photonic Applications
Yan-qing Lu, Wei Hu
 Nanjing Univ

11:15--11:30
Oral 3-2R-2

Independently Detect The Spiral Phase Of Cylindrical Vector Vortex Beams
Yanliang He, Shuqing Chen, Yao Cai, Mingyang Su, Xiaoke Zhang, Ying Li
 Shenzhen Univ

11:30--11:45
Oral 3-2R-3

Detection Of Topological Charges For Coaxial Multiplexed Perfect Vortices
Shiyao Fu, Chunqing Gao, Tonglu Wang, Zheyuan Zhang, Yanwang Zhai
 Beijing Institute of Technology

11:45--12:00
Oral 3-2R-4

Generation Of High-order Poincaré Sphere Laser Beams
Teng-De Huang, Ting-Hua Lu
 Nation Taiwan Normal Univ

12:00--12:15
Oral 3-2R-5

Polarization Control Of Light Transmission Through A Multimode Fiber With Strong Polarization Mixing
Wen Xiong, Chia Wei Hsu, Yaron Bromberg, Rodrigo Amezcua-Correa, Hui Cao
 Yale Univ

12:15--12:30
Oral 3-2R-6

Polychromatic Focusing Properties Of Rudin-Shapiro Zone Plates
Tian Xia, Kai Niu, Shubo Cheng, Jianwei Yan, Shaohua Tao
 Central South Univ



10:45--11:15
Oral 3-2S-1
Invited

Performance Evaluation Of Optical Beamforming Based Wideband Array Antenna
Shilong Pan, Xingwei Ye
 Nanjing Univ of Aeronautics and Astronautics



11:15--11:45
Oral 3-2S-2
Invited

Optical Fiber Sensors And Microwave Photonics, A Good Mix
Salvador Sales
 ITEAM, Universitat Politecnica de Valencia

11:45--12:00
Oral 3-2S-3

Microwave Photonic Filter With Variable Selectivity And Shape By SBS And Dispersion-induced Phase Mismatching
Mengyue Shi, Lilin Yi, Wei Wei, Guoqing Pu, Weisheng Hu
 Shanghai Jiaotong Univ

12:00--12:15
Oral 3-2S-4

Millimeter-Wave-Band Optical Single-Sideband Modulator Using Array-Antenna-Electrode And Polarization-Reversed Structures
Yuki Matsukawa, Toshiyuki Inoue, Hiroshi Murata, Atsushi Sanada
 Osaka Univ

12:15--12:30
Oral 3-2S-5

Dispersion Elimination In High-Linear, Low-Cost And Phase-Modulated Analog Photonic Link
Zhipeng Xie, Song Yu, Shanyong Cai, Wanyi Gu
 Beijing Univ of Posts and Telecommunications



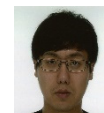
10:45--11:15
Oral 3-2T-1
Invited

Broadband Amplifiers For Communications
David DiGiovanni
 OFS Fitel



11:15--11:45
Oral 3-2T-2
Invited

High-Capacity Transmission Systems Using Multi-Core Fibers
Ruben Luis, Rademacher Georg, Werner Klaus, Awaji Yoshinari, Naoya Wada
 NICT



11:45--12:15
Oral 3-2T-3
Invited

Mitigating RIN-Penalty To Enhance The Transmission Performance In Distributed Raman Amplification System
Mingming Tan, Md Iqbal, Sergei Turitsyn, Paul Harper
 Aston Univ



12:15--12:45
Oral 3-2T-4
Invited

PPLN Waveguide Based Phase Sensitive Amplifiers For Optical Communication
Takushi Kazama, Takeshi Umeki, Masashi Abe, Koji Enbutsu, Hirokazu Takenouchi, Yutaka Miyamoto, Ryoichi Kasahara
 NTT Device Technology Laboratories

Conference Program

| Room A: 4401 Fiber-Based Technologies and Applications IX Presider: Minghong Yang | Room B: 4403 Specialty Fiber I Presider: Liang Wang | Room C: 4405 Integrated Optic Sensors Presider: Zhijun Yan | Room D: 4501 Perovskite Materials and Devices III Presider: Handong Sun |
|---|---|--|---|
|---|---|--|---|



14:00--14:30
Oral 3-3A-1
Invited

Research On Phase-extracted Optical Reflectometry For Distributed Vibration Sensing
Zuyuan He, Xinyu Fan, Qingwen Liu
Shanghai Jiao Tong Univ



14:30--15:00
Oral 3-3A-2
Invited

Recent Developments In Periodically Poled Silica Fibre Technology
Morten Ibsen
ORC - Univ. of Southampton

15:00--15:15
Oral 3-3A-3
Fabrication Of Double-Helix Chiral Long-Period Grating In Polarization-Maintain Fiber By CO2 Laser
Qingquan Wang, Yunqi Liu, Chengbo Mou, Fang Zou, Tingyun Wang
Shanghai Univ

15:15--15:30
Oral 3-3A-4
Bragg Grating In Novel Two-core Holey Fiber For Simultaneous Measurement Of Pressure And Temperature
Lin Htein, Zhengyong Liu, Bin Zhou, Hwa-Yaw Tam
The Hong Kong Polytechnic Univ

15:30--15:45
Oral 3-3A-5
High-power Cylindrical Vector Beam Fiber Laser Based On Few-mode Fiber Bragg Grating
Jiaojiao Zhang, Wan Hongdan, Lin Zhang, Zuxing Zhang
Nanjing Univ of Posts and Telecommunications



14:00--14:30
Oral 3-3B-1
Invited

Nanoparticles-Doped Optofluidic Photonic Liquid Crystal Fibers For Enhanced Efficiency Of Electric Field Tunability
Tomasz R. Wolinski, Agata Siarkowska, Milosz Chychlowski, Daniel Budaszewski, Slawomir Ertman, Bartosz Bartosewicz, Bartlomiej Jankiewicz, Roman Dabrowski
Warsaw Univ. of Technology

14:30--14:45
Oral 3-3B-2
Experimental Demonstration On Twisted All-solid Photonic Bandgap Fibers And Their Sensing Characteristics
Jie Li, Pengcheng Fan, Li-Peng Sun, Chuang Wu, Bai-Ou Guan
Jinan Univ



14:45--15:15
Oral 3-3B-3
Invited

Dense Space Division Multiplexing Based Multi-Core Fiber Design
Jiejing Tu
The Hong Kong Polytechnic



15:15--15:45
Oral 3-3B-4
Invited

Fabrication Of Mid-infrared Fibers Based On Arsenic Sulfide Glass
Hong-Seok Seo
Electronics & Telecommunications Research Institute



14:00--14:30
Oral 3-3C-1
Invited

Ultra-low Loss Silica Waveguide Ring Resonators For Resonant Micro-Optic Gyroscopes
Huilian Ma, Jianjie Zhang, Hanzhao Li, Zhonghe Jin
Zhejiang Univ

14:30--14:45
Oral 3-3C-2
Photonic Integrated Circuit Based Imaging System
Katherine Badham, Richard Kendrick, Samuel Thurman, Danielle Wuchenich, Chad Ogden, Guy Chriqui, Alan Duncan, Ben Yoo
Lockheed Martin

14:45--15:00
Oral 3-3C-3
Integrated Fiber-Optic Detector Based On Dip-Coated Colloidal Quantum Dots
Fan Jiang, Ao Yan, Fei Yi
Science and Technology on Electronic Information Control Laboratory

15:00--15:15
Oral 3-3C-4
Refractive Index Sensor Based On Hybrid-Tamm Plasmon-Polariton And Cavity Mode
Samir Kumar, Mukesh Kumar Shukla, Partha Sona Maji, Ritwick Das
National Institute of Science Education and Research

15:15--15:30
Oral 3-3C-5
Temperature Characteristic Of Ultraviolet Photoconductive Detector Based On CeF3 Thin Film
Ryo Yamazaki, Kentaro Suzuki, Shoei Otani, Shingo Ono
Nagoya Institute of Technology

15:30--15:45
Oral 3-3C-6
Compact Brillouin/Erbium Fiber Laser For Acoustic Fiber Sensing
Mo Chen, Chenyu Wang, Jianfei Wang, Hong Luo, Zhou Meng
National Univ of Defense Technology

15:45--16:00
Oral 3-3C-7
Femtosecond Laser Direct Writing Of Optical Components On Optical Fibers
Shufan Li, Abhinay Mishra, Young Jin Kim
Nanyang Technological Univ



14:00--14:45
Oral 3-3D-1
Keynote

Overcoming Hysteresis By Understanding The Formation Of Interface Barriers - Towards Engineering Environmentally Stable And Efficient Perovskite Cells And Modules
Christoph Josef Brabec
Friedrich Alexander Univ Erlangen-Nurnberg



14:45--15:15
Oral 3-3D-2
Invited

Halide Perovskite Quantum Dots: Potential Alternative Materials For Display Applications
Haizheng Zhong
Beijing Institute of Technology

15:15--15:30
Oral 3-3D-3
Accurate Measurement Of Perovskite Solar Cells Photoelectric Conversion Efficiency
Haifeng Meng, Limin Xiong, Junchao Zhang, Yingwei He, Bifeng Zhang
National Institute of Metrology

15:30--15:45
Oral 3-3D-4
Formation Of Epitaxial Thin Films Of Lead Halide Perovskite Semiconductor
Kimura Kohei, Matsushita Tomonori, Kondo Takashi
Univ of Tokyo

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|---|---|---|--|
| Room E: 4503 Silicon Photonics Systems and Applications I President: David Thomson | Room F: 4505 Infrared Applications and Commercialization President: Qijie Wang | Room G: 4301 Applications of New Optical Fibers in Communication and Sensing I President: Anxion Xiong | Room H: 4201 Nonlinearities in Integrated Photonics and Related Topics President: Yingying Wang |
|---|---|---|--|



14:00--14:30
Oral 3-3E-1
Invited

Silicon Photonics For High-speed Data Communications And Sensing
Chi Xiong, Douglas Gill, Jonathan Proesel, Jason Orcutt, Yves Martin, Marwan Khater, Eric Zhang, Wilfried Haensch, William Green
 IBM

14:30--14:45
Oral 3-3E-2

High Density 42 X 28 Gbs Silicon Photonic Transceiver Chip With Super-dense 84-Channel Coupling Solution
Zhen Dong
 Huawei Company

14:45--15:00
Oral 3-3E-3

An Energy Efficient 1-Gb/s On-Chip Opto-electronic Transceiver Link Using Monolithically-Integrated CMOS + III-V LEDs
Arya Balachandran, Li Shiuan Peh, Chirn Chye Boon
 NTU



15:00--15:30
Oral 3-3E-4
Invited

Silicon Photonics Transceivers For High-speed Data Communication
Gianlorenzo Masini, Scott Denton, Subal Sahnii, Attila Mekis, Thierry Pinguet, Joey Balardeta, Peter De Dobbelaere
 Luxtera



15:30--16:00
Oral 3-3E-5
Invited

Silicon Integrated Optical Devices
Ke Wang, Yang Wang, Shitao Gao, Ampalavanapillai Nirmalathas, Christina Lim, Kamal Alameh, Hongtao Li, Efstratios Skafidas
 Royal Melbourne Institute of Technology



14:00--14:30
Oral 3-3F-1
Invited

Electro-Optic Silicon Dual-Ring Assisted Mach-Zehnder Interferometer Switches
Linjie Zhou, Lu Liangjun, Guo Zhanzhi, Jianping Chen
 Shanghai Jiao Tong Univ



14:30--15:00
Oral 3-3F-2
Invited

Silicon Photonics For Near- And Mid-infrared Sensing Applications
Roel Baets
 Ghent Univ - imec

15:00--15:15
Oral 3-3F-3

Phase Change Metamaterial Pollution Sensor
Weiling Dong, Yimei Qiu, Agnieszka Banas, Krzysztof Banas, Tun Cao, Robert Simpson
 Singapore Univ of Technology and Design

15:15--15:30
Oral 3-3F-4

TO-packaged, Multi-junction GaAs Laser Power Converter With Output Electric Power Over 1W
Yanwen Ding, Qi Li, Yunqing Lu, Jin Wang
 Nanjing Univ of Posts and Telecommunications

15:30--15:45
Oral 3-3F-5

Shape Measurement By Cascade Link Multi-wavelength Digital Holography Using Optical Frequency Comb Referenced Synthesizer
Yamagiwa Masatomo, Ogawa Takayuki, Kawahito Yusuke, Torovato Clement, Minamikawa Takeo, Yamamoto Hirotsugu, Yasui Takeshi
 Tokushima Univ

15:45--16:00
Oral 3-3F-6

Integrated Photonics Based On Chalcogenide Glass-on-Graphene
Tian Gu
 Massachusetts Institute of Technology



14:00--14:20
Oral 3-3G-1
Invited

Fabrication And Characteristics Of Helical Long-Period Gratings Written In Few Mode Fibers
Yunqi Liu
 Shanghai Univ



14:20--14:40
Oral 3-3G-2
Invited

Polymer Optical Fibre Bragg Grating Sensors For Medical Applications
Hwa-Yaw Tam
 The Hong Kong Polytechnic Univ



14:40--15:00
Oral 3-3G-3
Invited

Fluorotellurite Microstructured Fibers And Their Applications
Guanshi Qin
 Jilin Univ



15:00--15:20
Oral 3-3G-4
Invited

New Speciality Fiber Materials And New Wavelength Fiber Lasers
Yasushi Fujimoto
 Chiba Institute of Technology



14:00--14:30
Oral 3-3H-1
Invited

Quantum Interference Control Of Injected Photocurrents Based On Carrier Envelope Phase
Cundiff Steven
 Univ of Michigan

14:30--14:45
Oral 3-3H-2

Brightness Enhancement Of Continuous-wave Beams Using A Diamond Raman Laser
Zhenxu Bai, Robert Williams, Hadiya Jasbeer, Soumya Sarang, Aaron McKay, Richard Mildren
 Macquarie Univ

14:45--15:00
Oral 3-3H-3

Electro-optically Induced Nonlinear Phase Shift In RTP Crystal By Cascaded Second-order Nonlinearity
Ruma Debnath, Susheel Kumar Beda, Digvijay Sing Hada, Ardhendu Saha
 National Institute of Technology Agartala

15:00--15:15
Oral 3-3H-4

Lasing Properties Of Ce:LiCaAlF6 Single Crystal On Effects Of The Distribution Of Ce Ion
Miho Tanaka, Shingo Ono, Marilou Raduban, Pham Minh, Takaya Taniguchi, Kohei Yamanoi, Nobuhiko Sarukura, Takafumi Hirata
 Nagoya Institute of Technology



15:15--15:45
Oral 3-3H-5
Invited

Single Photon Generation And Conversion In The Integrated Quantum Optics
Kai-Hong Luo, Helge Rutz, Christof Eigner, Markus Allgaier, Vahid Ansari, Sebastian Brauner, Marcella Massaro, Georg Harder, Linda Sansoni, Raimund Ricken, Viktor Quiring, Harald Herrmann, Christine Silberhorn
 Univ of Paderborn

Conference Program

| Room I: 4812 Photonics Global Student Conference 2017 III President: Aaron Muller | Room J: 4912 Plasmonics and Metamaterials V President: Daohua Zhang | Room K: 4203 Coding and Modulation Technique President: Binh Le | Room L: 4303 Novel Technologies for Free Space Optic Communications President: Jian Chen |
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14:00--14:45
Oral 3-3I-1
Keynote

**The Continuing Story
Of Vertical Cavity Surface Emitting
Lasers**
Kent D. Choquette
Univ of Illinois

14:45--15:00
Oral 3-3I-2
**Novel SERS Substrates For
Chemical And Biological Sensing**
Yashna Sharma, Anuj Dhawan
IIT Delhi

15:00--15:15
Oral 3-3I-3
**Optofluidic Sensing With A Side-
channel Photonic Crystal Fiber
Based Sagnac Interferometer**
*Nan Zhang, Kaiwei Li, Georges
Humbert, Ping Shum, Zhifang Wu,
Ting Zhang, Ying Cui, Quyen Dinh,
Jean-Louis Auguste, Lei Wei*
Nanyang Technological Univ

15:15--15:30
Oral 3-3I-4
**Active Electrochemical Plasmon
Switching In Polyaniline-coated
Gold Nanocrystals**
Wenzheng Lu, Jianfang Wang
The Chinese Univ of Hong Kong

15:30--15:45
Oral 3-3I-5
Ultrafast Radiative Heat Transfer
Renwen Yu
The Institute of Photonic Sciences

15:45--16:00
Oral 3-3I-6
**Third-harmonic Generation From
Quadrupoles Of All-dielectric
Nanoparticles**
*Alexander Shorokhov, Elizaveta
Melik-Gaykazyan, Daria Smirnova,
Ben Hopkins, Katie Chong, Duk
Choi, Maxim Shcherbakov, Andrey
Miroshnichenko, Dragomir Neshev,
Andrey Fedyanin, Yuri Kivshar*
Lomonosov Moscow State Univ



14:00--14:30
Oral 3-3J-1
Invited

Revisit
**Metamaterials And Metasurfaces
From The Perspective Of
Information Science**
Tiejun Cui, Shuo Liu
Southeast Univ



14:30--15:00
Oral 3-3J-2
Invited
**Electronically
Tunable Conducting**

**Oxide Metasurfaces For Beam
Steering And Perfect Absorption**
Howard Lee
Baylor Univ and TexasA&M

15:00--15:15
Oral 3-3J-3
**Tri-layer Anisotropic Metamaterial
For Unidirectional Circular
Polarizer**
*Ying-hua Wang, Zheng-gao Dong,
Shuang-Ying Lei*
Southeast Univ

15:15--15:30
Oral 3-3J-4
**Dual-functional Metamaterial For
Reflection And Transmission
Polarization Conversion**
*Xiaojun Huang, Helin Yang,
Shengqing Yu, Weihua Hui*
Central China Normal Univ

15:30--15:45
Oral 3-3J-5
**Simultaneous Detection Of The
Location And Permittivity Of The
Intruder Based On Spoof Surface
Plasmon Sensor**
*Hao Chi Zhang, Yu Luo, Tie Jun Cui,
Wen Xuan Tang*
Southeast Univ



14:00--14:30
Oral 3-3K-1
Invited

Channel Coding For
Optical Transmission Systems
Ivan B Djordjevic
Univ of Arizona

14:30--14:45
Oral 3-3K-2
**Irregular QC-LDPC Based Multi-
level Coded Modulation Scheme
For The Next Generation Optical
Communication Systems**
*Dongdong Wang, Liqian Wang, Xue
Chen, Ju Chen, Zhirong Wang,
Aimei Fei, Huitao Wang, Qi Zhang*
Beijing Univ of Posts and
Telecommunications



14:45--15:15
Oral 3-3K-3
Invited

High-capacity
**Submarine Transmission Based On
Optimized Constellation**
Fatih Yaman
NEC Laboratories

15:15--15:30
Oral 3-3K-4
**Efficient IFFT Implementation In
An ACO-OFDM Transmitter**
*Qibing Wang, Binhuang Song,
David Boland, Bill Corcoran, Arthur
Lowery*
Monash Univ

15:30--15:45
Oral 3-3K-5
**Experimental Investigation Of
400G Line Rate In Different
Modulation Format For Flexible
Transponder**
*Yi Yu, Yanzhao Lu, Ling Liu, Yuanda
Huang, Xie Wang, Liangchuan Li*
Huawei Technologies Co., Ltd.



14:00--14:30
Oral 3-3L-1
Invited

Inter-cell
**Interference Mitigation In Multi-
cell VLC Systems Using Angle
Diversity Receivers**
Wen-De Zhong
Nanyang Technological Univeristy



14:30--15:00
Oral 3-3L-2
Invited

High Throughput
**Cascaded Aperture Optical
Receiver (CAO-Rx) For Eye-safe
Indoor Optical Wireless
Communication**
*Zizheng Cao, Longfei Shen, Yuqing
Jiao, Yanlu Li, Ye Tian, Ton Koonen*
Eindhoven Univ of Technology



15:00--15:30
Oral 3-3L-3
Invited

Channel-independent
**Signal Processing For High-speed
VLC Systems**
Lian-Kuan Chen, Yang Hong
The Chinese Univ of Hong Kong

15:30--15:45
Oral 3-3L-4
**Planar Yagi Antennas Coupled
With Coplanar Waveguide
Resonant Electrodes For
Millimeter-Wave Electro-Optic
Modulator**
*Pamungkas Daud, Dadin
Mahmudin, Purwoko Adhi, Atsushi
Kanno, Tetsuya Kawanishi, Hiroshi
Murata*
Indonesian Institute of Sciences

| | | | |
|--|---|--|---|
| Room M: 4611 Novel Laser Sources Presider: Set Size | Room N: 4612 Optical Switching Systems and Related Technologies I Presider: Gangxiang Shen | Room O: 4613 Nitrides, Other Widegap Semiconductors II Presider: Hilmi Volkan | Room P: 4711 Lab-in-a-Fiber Technologies II Presider: Kyriacos Kalli |
|--|---|--|---|

14:00--14:15
Oral 3-3M-1
Single Mode Excitation Ring Resonator Dye Laser Based On Simplified Hollow-core Microstructured Optical Fiber
Jie Yu, YanGe Liu, Zhi Wang, MingMing Luo, Guang Yang, HongWei Zhang, XiaoHui Zhang
 Nankai Univ


14:15--14:30
Oral 3-3M-2
Multi-color Tunable Laser Source Based On Fiber Optical Parametric Oscillator
Kangwen Yang, Jieshi Jiang, Qiang Hao, Heping Zeng
 Univ of Shanghai for Science and Technology

14:30--14:45
Oral 3-3M-3
Sodium Guide Star Laser Pulsed At Larmor Frequency
Yan Feng
 Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences


14:45--15:00
Oral 3-3M-4
Ceramic Yb:LuAG Thin Disk Lasers With High Efficiency And High Power Operation
Peng Yuan Han, James Cheng, Kin Seng Lai, Ernest Lau, Ang Seok Khim
 DSO National Laboratories

15:00--15:15
Oral 3-3M-5
Self-injection Locked InAs/InP Quantum-dash Laser For High Capacity Optical Communication System
Mohamed Shemis, Muhammad Talal Ali Khan, Amr Ragheb, Habib Fathallah, Saleh Alshebeili, Mohammed Khan
 King Fahd Univ of Petroleum and Minerals, Saudi Arabia

15:15--15:30
Oral 3-3M-6
Characteristics Of High-Power Diode Lasers By Spectral Beam Combining
Fangyuan Sun, Cunzhu Tong, Shili Shu, Guanyu Hou, Lijie Wang, Jun Zhang, Hangyu Peng, Lijun Wang
 Changchun Institute of Optics, Fine Mechanics and Physics, CAS


 **14:00--14:30**
Oral 3-3N-1
Invited
Wavelength Selective Switches For SDM
Network
Kenya Suzuki
 NTT Device Technology Laboratories


14:30--14:45
Oral 3-3N-2
An Effective Algorithm for Dynamic Traffic Grooming In Light-trail WDM Mesh Networks
Hwa-Chun Lin, Yuan-Xi Zhuang
 National Tsing Hua Univ, Taiwan


 **14:45--15:15**
Oral 3-3N-3
Invited
Universality Of Our Semiconductor-based Gigahertz-repetition Few-picosecond Clock-pulse Source And Its Precise Optical-frequency-comb Spectrum, For Use In Broadband Telecom And Molecule-sensor Systems
Yoshiyasu Ueno
 National Univ of Electro-Communications


15:15--15:30
Oral 3-3N-4
Demonstration Of SDN-controlled Elastic Light-tree Provisioning Based On Cascaded Spectrum Multicast
Dan Wu, Juhan Li, Paikun Zhu, Zhangyuan Chen, Yongqi He
 Peking Univ


15:30--15:45
Oral 3-3N-5
Tradeoff Between Failure Probability And Load Balancing In Flexible Bandwidth Optical Networks
Min Chen, Jie Zhang, Bowen Chen, Xiaosong Yu
 Soochow Univ


 **14:00--14:30**
Oral 3-3O-1
Invited
The Green-gap Problem And Efficiency Droop In Nitrides
Colin Humphreys
 Univ of Cambridge

 **14:30--15:00**
Oral 3-3O-2
Invited
Next Generation III-nitride Materials And Research-From Photonics To New Applications
Nelson Tansu
 Lehigh Univ

 **15:00--15:30**
Oral 3-3O-3
Invited
LEDs And Harmony, Were Technology Meets Biology
John Rooymans
 Brilliance Technologies and Gemex Consultancy

 **14:00--14:30**
Oral 3-3P-1
Invited
Photonic Crystal Fibers For Label-free DNA Detection
Annamaria Cucinotta
 Univ of Parma

 **14:30--15:00**
Oral 3-3P-2
Invited
Plasmonic Tilted Fiber Grating Sensors
Tuan Guo
 Jinan Univ

 **15:00--15:30**
Oral 3-3P-3
Invited
Hollow Optical Fiber For Hyper-fine and Fast Sensing Of Liquid And Gas
Kyunghwan Oh
 Yonsei Univ

Thu, 03.08.2017

Conference Program



15:30--16:00
 Oral 3-3M-7
Invited
 Thin Disk Laser -
 History, Actual Power

Scaling Technologies And
 Prospects

Jochen Speiser, DLR-TP

| | | | |
|---|--|--|---|
| Room Q: 4712 LiDAR: Its Application in Advanced Driver Assistance System I President: Huiyun Li | Room R: 4713 3D Display Technologies I President: Haowen Liang | Room S: 4811 Microwave Photonics III President: Yifei Li | Room T: 4911 Structured Light for Material Processing and Telecommunications President: Jian Wang |
|---|--|--|---|



14:00--14:25
 Oral 3-3Q-1
Invited

VCSEL Photonics For
 Non-mechanical LiDAR
 Fumio Koyama
 Tokyo Institute of Technology



14:25--14:50
 Oral 3-3Q-2
Invited

FM Chirped Coherent
 Lidar Systems For Range And
 Velocity Measurement
 Rongqing Hui
 Univ of Kansas



14:50--15:15
 Oral 3-3Q-3
Invited

Optical Beam
 Steering Using MEMS
 Grating And Grating Arrays
 Guangya Zhou, Youmin Wang,
 Ming C. Wu
 National Univ of Singapore



15:15--15:40
 Oral 3-3Q-4
Invited

Current Status Of The
 LiDAR For Autonomous Driving
 Kai Sun
 Hesai Photonics Technology



14:00--14:30
 Oral 3-3R-1
Invited

Light-field VR Head-
 mounted Display Systems Based
 On OLED Microdisplay Devices
 Lilin Liu, Dongdong Teng, Zhiyong
 Pang
 Sun Yat-Sen Univ

14:30--14:45
 Oral 3-3R-2

Ultra Wide Display's Color Gamut
 With Stimulated Emission From
 Colloidal Quantum Dots
 Cuong Dang
 Nanyang Technological Univ



14:45--15:15
 Oral 3-3R-3
Invited

Investigation Of
 Optical Image Splitter Design For
 Flat Autostereoscopic Displays
 Roland Bartmann, Hannes Kaeding,
 Mathias Kuhlmeiy
 Fraunhofer Heinrich Hertz Institute

15:15--15:30
 Oral 3-3R-4

Head Tracked Multiview Display
 With Minimum Resolution Loss
 Song Guo, Zhenfeng Zhuang, Lei
 Zhang, Xiangyu Zhang, Philip
 Surman, Yuanjin Zheng, Xiaowei
 Sun
 Nanyang Technological Univ



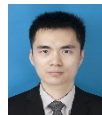
14:00--14:30
 Oral 3-3S-1
Invited

Advanced Photonics
 Technology For 1-THz Wireless
 Communication
 Kanno Atsushi
 National Institute of Information
 and Communications Technology



14:30--15:00
 Oral 3-3S-2
Invited

High-speed High-
 resolution Photonic Analog To
 Digital Converter Based On
 Spectral Modelling And
 Compensation
 Weiwen Zou, Guang Yang, Jianping
 Chen
 Shanghai Jiao Tong Univ



15:00--15:30
 Oral 3-3S-3
Invited

High-resolution
 Optical Vector Analysis Based On
 Microwave Photonic
 Min Xue, Shilong Pan
 Nanjing Univ of Aeronautics and
 Astronautics



15:30--16:00
 Oral 3-3S-4
Invited

3D Hybrid Silicon
 Photonics For Integrated
 Microwave Photonics
 Jonathan Klamkin, Bowen Song,
 Brandon Isaac
 Univ of California Santa Barbara



14:00--14:30
 Oral 3-3T-1
Invited

Free-Space
 Communication Links
 Incorporating Orbital Angular
 Momentum Multiplexing
 Martin Lavery
 Univ of Glasgow



14:30--15:00
 Oral 3-3T-2
Invited

Nanostructured
 Optical Elements For Manipulation
 Of Orbital Angular Momentum
 Martynas Beresna
 Univ of Southampton



15:00--15:30
 Oral 3-3T-3
Invited

Wavelength-versatile
 Optical Vortex Source Toward
 Materials Processing
 Takashige Omatsu
 Chiba Univ



15:30--16:00
 Oral 3-3T-4
Invited

Scalability Of All-fiber
 Fused Mode Selective Coupler For
 Exciting Higher Order OAM States
 Balaji Srinivasan, Shankar
 Pidishety, Srinivas Pachava,
 Gilberto Brambilla
 IIT Madras

Thu, 03.08.2017

| | | | |
|--|---|--|--|
| Room A: 4401 Fiber-Based Technologies and Applications X Presider: Morten Ibsen | Room B: 4403 Specialty Fiber II Presider: Yongmin Jung | Room C: 4405 Fiber Acoustic Sensors Presider: Ping Lu | Room D: 4501 Perovskite Materials and Devices IV Presider: Haizheng Zhong |
|--|---|--|--|



16:15--16:45
Oral 3-4A-1
Invited

Optical Microfiber Mode Interferometer Biosensors
Bai-Ou Guan
 Institute of Photonics Technology, Jinan Univ



16:45--17:15
Oral 3-4A-2
Invited

Intergation Of Fiber Micro-machining And Functional Materials For Fiber-based Sensing Technologies
Minghong Yang, Kun Yang, Jixiang Dai
 Wuhan Univ. Tech.

17:15--17:30
Oral 3-4A-3
Third Harmonic Generation In Tapered Photonic Crystal Fiber
Jiao Yang, Zhilin Xu, Zhifang Wu, Perry Ping Shum, Tianye Huang, Xuguang Shao, Humbert Georges
 Nanyang Technological Univ

17:30--17:45
Oral 3-4A-4
Theoretical Analysis And Simulation About New Method Of Long Period Fiber Grating With Liquid
Jihyun Hwang, Jung Shin Lee, Jongki Kim, Kyunghwan Oh
 Yonsei Univ.

17:45--18:00
Oral 3-4A-5
Micro Fiber With Titanium Dioxide (TiO2) Nanoparticles And Violet Light Sensing
Donghui He, Yang Hu, Huihui Lu, Heyuan Guan, Xiaojie Zheng, Guangyin Jing, Jiyeuan Tang, Jianhui Yu, Zhe Chen, Jun Tao, Yunhan Luo, Hua-An Liu, Zhang Jun
 Jinan Univ



16:15--16:45
Oral 3-4B-1
Invited

All-fiber Devices For Mode Control In Few Mode Fibers
Byoung Yoon KIm
 KAIST

16:45--17:00
Oral 3-4B-2
Dissipative Solitons With Extreme Spikes
Nail Akhmediev, Vonkeun Chang, Peter Vousas, Jose Soto-Crespo
 The Australian National Univ

17:00--17:15
Oral 3-4B-3
Enhanced Ultraviolet Photoluminescence Of Gd³⁺ In Silica Glass
Jing He, Yun Wang, Norberto Chiodini, Sebastian Steigenberger, Pranabesh Barua, Martynas Beresna, Gilberto Brambilla
 Univ of Southampton

17:15--17:30
Oral 3-4B-4
Modulational Instability In Asymmetric Dual Core Optical Fiber
Aparna A Nair, Porsezian K, Jayaraju M
 Univ of Kerala

17:30--17:45
Oral 3-4B-5
Even/Odd Mode-Selective Double Frequency-Spaced Optical Comb Generation By Quad-Parallel Phase Modulator
Takahide Sakamoto, Akito Chiba
 National Institute of Information and Communications Technology

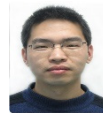
17:45--18:00
Oral 3-4B-6
Wavelength Shifted Third Harmonic Generation In An Exposed-core Microstructured Optical Fiber
Stephen Warren-Smith, Jingxuan Wei, Mario Chemnitz, Roman Kostecki, Heike Ebendorff-Heidepriem, Tanya Monro, Markus Schmidt
 Leibniz Institute of Photonic Technology

18:00--18:15
Oral 3-4B-7
Fiber Optic Sensors- Principles, Applications & Some Recent Experiments
Partha RoyChaudhuri
 Indian Institute of Technology



16:15--16:45
Oral 3-4C-1
Invited

High Precision Acoustic Signal Interrogation Technology
Ping Lu, Hao Liao, Deming Liu
 Huazhong Univ of Sciecn and Technology



16:45--17:15
Oral 3-4C-2
Invited

Distributed Acoustic Sensing: System And Experiments
Tuanwei Xu, Gaosheng Fang, Yue Jiang, Jianfei Huang, Fang Li
 Institute of Semiconductors, CAS



17:15--17:45
Oral 3-4C-3
Invited

Multi-parameter Measurements Based On Distributed Fiber Sensing Technologies
Tao Zhu, Jingdong Zhang
 Chongqing Univ

17:45--18:00
Oral 3-4C-4
A Hybrid Distributed Optical Fiber Sensor For Acoustic And Temperature Fields Reconstruction
Yixin Zhang, Yuanyuan Shan, Yinseng Cai, Zhenhong Sun, Xuping Zhang
 Nanjing Univ

18:00--18:15
Oral 3-4C-5
Demodulation Of Fiber Acoustic Sensor Based On Ripple Spectrum
Xin Fu, Ping Lu, Deming Liu, Jiangshan Zhang
 Huazhong Univ of Science and Technology



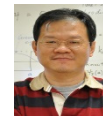
16:15--16:45
Oral 3-4D-1
Invited

Perovskite Light-Emitting Diodes Based On Solution-Processed, Self-Organized Multiple Quantum Wells
Jianpu Wang
 Nanjing Tech Univ



16:45--17:15
Oral 3-4D-2
Invited

Metal-Halide Perovskites For Lasing And Electroluminescence
Guichuan Xing
 Univ of Macau



17:15--17:45
Oral 3-4D-3
Invited

Probing Carrier Recombination Kinetics And Carrier-phonon Coupling In Perovskite Films
Elbert Chia
 Nanyang Technological Univ

17:45--18:00
Oral 3-4D-4
Different Carrier Recombination Processes In CsPbBr3 Quantum Dots And Microcrystals
Cheng Qian, Tingting Yin, Jiaxu Yan, Zexiang Shen
 Nanyang Technological Univ

| | | | |
|--|--|--|--|
| Room E: 4503 Silicon Photonics Systems and Applications II President: David Thomson | Room F: 4505 MIR and THz Devices II President: Roel Baets | Room G: 4301 Applications of New Optical Fibers in Communication and Sensing II President: Saïed Aminossadati | Room H: 4201 Hot Topics in Nonlinear and Ultrafast Photonics President: De Sterke Martijn |
|--|--|--|--|



16:15--16:45
Oral 3-4E-1
Invited

100Gbit/s, Switch Pluggable, Silicon Photonics Based PAM4 DWDM Modules For 4Tbit/s Inter-Datacenter Links
Radhakrishnan Nagarajan
 Inphi Corp

16:45--17:00
Oral 3-4E-2

100GBaud On-chip Optical Transceiver: An Optical Time Division Multiplexing Solution
Zhang Luo, Shi Xu, Mingche Lai, Zhengbin Pang, Liqun Xiao, Weixia Xu, Renfa Li
 National Univ of Defense Technology

17:00--17:15
Oral 3-4E-3

A Novel Proposal For Ultracompact WDM Demultiplexer Design Based On Flexible 1D Photonic Crystal Nanobeam Cavities
Daquan Yang, Bo Wang, Xin Chen, Lin Zhang, Yuefeng Ji
 Beijing Univ of Posts and Telecommunications

17:15--17:30
Oral 3-4E-4

Silicon Photonic NAND Gate
Mohammad Rakib Uddin, Law Foo Kui, Nazri Ahmad, Zainidi Haji Abdul Hamid
 Univeristi Teknologi Brunei (UTB)



17:30--18:00
Oral 3-4E-5
Invited

Low-Driving-Voltage Silicon DP-IQ Modulator For 100G And Beyond
Kazuhiro Goi, Norihiro Ishikura, Mikhail Illarionov, Haikhe Zhu, Kensuke Ogawa, Yuki Yoshida, Ken-ichi Kitayama, Tsung-Yang Liow, Xiaoguang Tu, Guo-Qiang Lo, Dim-Lee Kwong
 Fujikura Ltd.



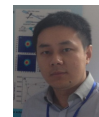
16:15--16:45
Oral 3-4F-1
Invited

Erbium-doped Mid-Infrared Fiber Lasers
David J. Ottaway, Nathaniel Bawden, Elizaveta Klantsataya, Ori Henderson-Sapir, Andrew Malouf, Hiraku Matsukuma, Shigeki Tokita, Shinji Yamashita, Sze Yun Set
 The Univ of Adelaide



16:45--17:15
Oral 3-4F-2
Invited

Generation And Detection Of Broadband Terahertz Radiation From Laser-Plasma Interactions
Xiaoyu Peng
 Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences



17:15--17:45
Oral 3-4F-3
Invited

Monolayer Graphene Based Organic Optical Terahertz Modulator
Bo Zhang, Jingling Shen
 Capital Normal Univ



17:45--18:15
Oral 3-4F-4
Invited

Active Control Of Fano Resonances In THz Metamaterials: Optical And Electrostatic Reconfiguration Approaches
Ranjan Singh, Manukumara Manjappa, Yogesh Kumar Srivastava, Longqing Cong, Ankur Solanki1, Abhishek Kumar, Prakash Pitchappa, Ibraheem Al Naib, Navab Singh, Nan Wang, Nikolay I Zheludev, Chengkuo Lee, Tze Chien Sum
 CDPT, Nanyang Technological Univ.



16:15--16:35
Oral 3-4G-1
Invited

Mode Properties Of W-type Leaky Fiber Waveguides
Jing Xu, Hongkang Shi, Jianmin Wang, Yuntian Chen
 Huazhong Univ of Science and Technology



16:35 --16:55
Oral 3-4G-2
Invited

In-fiber Advanced Grating Structures: Design, Fabrication And Applications
Xuewen Shu
 Huazhong Univ of Science and Technology



16:55--17:15
Oral 3-4G-3
Invited

Measurement Techniques for Few-mode Fibers
Ryo Maruyama, Nobuo Kuwaki, Shoichiro Matsuo, Masaharu Ohashi
 Fujikura Ltd.



17:15--17:35
Oral 3-4G-4
Invited

Taming the light in optical fibers for sensing
Heike Ebendorff-Heidepriem
 University of Adelaide



17:35--17:55
Oral 3-4G-5
Invited

New Optical Fibers for Ultra-high Speed Transmission: China Unicom's Consideration and Practice
Xiongyan Tang
 China United Network Communications Corporation Limited



16:15--16:45
Oral 3-4H-1
Invited

Graphene For Transparent Conductors And Infrared Sensing
Kavitha Kalavoor Gopalan, Miriam Marchena, Juan Rombaut, Itandehui Gris, Daniel Rodrigo, Valerio Pruneri
 ICFO-The Institute of Photonic Sciences



16:45--17:15
Oral 3-4H-2
Invited

Burst-Mode Pulse Amplification and Demultiplexing in Solid-State Laser Amplifiers
Andrius Baltuška, Ignas Astrauskas, Tobias Flöry, Edgar Kaksis, Giedrius Andriukaitis, Pavel Malevich, Tadas Balčiūnas, Audrius Pugžlys
 Photonics Institute, TU Wien



17:15--17:45
Oral 3-4H-3
Invited

Generation Of Multi Photon Entangled States On A Chip
Roberto Morandotti
 INRS-EMT



17:45--18:15
Oral 3-4H-4
Invited

High-power Fiber Based Optical Frequency Comb In The Near Infrared
Wenxue Li
 East China Normal Univ

Thu, 03.08.2017

| | | | |
|--|---|---|---------------------|
| Room I: 4812 Photonics Global Student Conference IV President: Mengying Zhang | Room J: 4912 Plasmonics and Metamaterials VI President: Yu Luo | Room K: 4203 Technology for High- Capacity System President: Shaoliang Zhang | Room L: 4303 |
|--|---|---|---------------------|

16:15--16:30
Oral 3-4I-1
Thermally Induced Reversible
Effect In FBG Sensors And The
Impact Of Temperature Ramping
Rate
Dinusha Gunawardena, Kok-Sing
Lim, Harith Ahmad
 The Hong Kong Polytechnic Univ

16:30--16:45
Oral 3-4I-2
Nonlinear Optical Properties Of
Two-dimensional Layered
Semiconductors
Anton Autere, Antti Säynätjoki,
Henri Jussila, Lasse Karvonen, Harri
Lipsanen, Robert Norwood, Nasser
Peyghambarian, Khanh Kieu, Zhipei
Sun
 Aalto Univeristy



16:45--17:45
Oral 3-4I-3
Invited
Life At A Photonic
Startup - A Personal Account
Daniel Renner
 Freedom Photonics



16:15--16:45
Oral 3-4J-1
Invited
Novel Nanophotonic
Light Sources
Marin Soljacic
 MIT

16:45--17:00
Oral 3-4J-2
Testing Robustness Of Photonic
Topological Edge States
Fei Gao, Zhen Gao, Hongsheng
Chen, Ling Lu, Yidong Chong, Baile
Zhang
 Nanyang Technological Univ

17:00--17:15
Oral 3-4J-3
Graphene Photo-detector
Enhanced By Plasmonic Coupling
Alireza Maleki, David Coutts, James
Downes, Benjamin Cumming, Min
Gu, Judith Dawes
 Macquarie Univ

17:15--17:30
Oral 3-4J-4
A Remote Cloak For Arbitrary
Objects In DC Frequency
Tianhang Chen, Bin Zheng, Lian
Shen, Huaping Wang, Shahram
Dehdashti, Hongsheng Chen
 Zhejiang Univ

17:30--17:45
Oral 3-4J-5
Enhanced Magnetic Response In
Doped High-index Subwavelength
Nanoparticles
Shahraam Afshar, Jonathan Hall,
Shaghik Atakaramians, Andrey
Miroshnichenko, Yuri Kivshar,
Tanya Monro
 Univ of South Australia



16:15--16:45
Oral 3-4K-1
Invited
Information Theory
For Dispersion-Free Fiber Channels
With Distributed Amplification
Kramer Gerhard
 Technical Univ of Munich

16:45--17:00
Oral 3-4K-2
RIN-Penalty Mitigation And
Transmission Performance
Improvement Using Forward-
Propagated Broadband First Order
Raman Pump
Mingming Tan, Md Iqbal, Lukasz
Krzyszczanowicz, Ian Phillips, Atalla El-
Taher, Wlodek Forsysiak, Paul
Harper
 Aston Univ

17:00--17:15
Oral 3-4K-3
Nonlinear Frequency Division
Multiplexed Transmissions With
64QAM
Buelow Henning
 Nokia-Bell-Labs



17:15--17:45
Oral 3-4K-4
Invited
Optical Parametric
Amplifiers Based On PPLN
Waveguides For Long-Haul
Transmission
Takeshi Umeki, Kazama Takushi,
Sano Akihide, Abe Masashi,
Enbutsu Kaji, Kobayashi Takayuki,
Takenouchi Hirokazu, Kasahara
Ryoichi, Miyamoto Yutaka
 NTT Device Technology Labs

17:45--18:00
Oral 3-4K-5
Joint Equalization Scheme for
Multi-polarization Effects in Faster
Than Nyquist WDM Transmission
Systems
Nan Cui, Yiqiao Feng, LinQian Li,
Lixia Xi, Xianfeng Tang, Wenbo
Zhang, Xiaoguang Zhang
 State Key Laboratory of
 Information Photonics and Optical
 Communications

Conference Program

| | | | |
|---|---|--|---|
| Room M: 4611 Dynamics of Ultrafast Lasers President: Chengbo Mou | Room N: 4612 Optical Switching Systems and Related Technologies II President: Bo Zhang | Room O: 4613 Nitrides, Other Widegap Semiconductors III President: Hilmi Volkan | Room P: 4711 Lab-in-a-Fiber Technologies III President: John Canning |
|---|---|--|---|



16:15--16:45
Oral 3-4M-1
Invited

All-fibre Passively Mode-locked Fibre Lasers Using A Nonlinear Amplifying Loop Mirror
Neil Broderick
 Univ of Auckland



16:15--16:45
Oral 3-4N-1
Invited

Some Issues On Future Optical Transport Network Evolution
Gangxiang Shen
 Soochow Univ



16:15--16:45
Oral 3-4O-1
Invited

Full Color Quantum-Dot On GaN Micro-Display
Hao-Chung Kuo
 National Chiao Tung Univ



16:15--16:45
Oral 3-4P-1
Invited

Surface Textured Multi-material Fibers
Fabien Sorin, Tung Nguyen-Dang, Wei Yan, Yunpeng Qu, Alexis G. Page, Tapajyoti Das Gupta
 Institute of Materials, EPFL



16:45--17:15
Oral 3-4M-2
Invited

Ablation-cooled Laser-material Removal Sets New Targets For Ultrafast Lasers
F. Omer Ilday, Hamit Kalaycioglu, Elahi Parviz
 Bilkent Univ



16:45--17:15
Oral 3-4N-2
Invited

Optical Switches And Their Applications In Optical Cross Connect (OXC)
Yimin Hua
 O-Net Technologies (Group) Limited



16:45--17:15
Oral 3-4O-2
Invited

Development Of High Performance (0001) LEDs: Tunnel Junctions And Green LEDs
James S. Speck
 Univ of California, Santa Barbara



16:45--17:15
Oral 3-4P-2
Invited

Plasmonic Optical Fiber Engineering: From Template Transfer To Nanoimprint
Peipei Jia, Jun Yang, Heike Ebendorff-Heidepriem
 Univ of Adelaide

17:15--17:30
Oral 3-4M-3

Observation Of Bound Soliton Sequences From A Compact Mode-locked Fiber Laser
Handing Xia, Heping Li, Xiaoyan Zhou, Zhiqing Wu, Zhaohua Shi, Feng Geng, Sun Laixi, Jing Huang, Xiaodong Jiang, Weidong Wu
 China Academy of Engineering Physics

17:15--17:30
Oral 3-4N-3

Fair DWBA for WA-PON based NG-EPON (100G-EPON) to mitigate Frame Resequencing Problem
Syed Baqar Hussain, Weisheng Hu, Chengjun Li
 Shanghai Jiaotong Univ

17:30--17:45
Oral 3-4M-4

Tunable Raman Soliton Beyond 2 μm
Jiaqi Luo, Biao Sun, Junhua Ji, Eng Leong Tan, Xia Yu
 Nanyang Technological Univ.

17:30--17:45
Oral 3-4N-4

Linear Cross-Correlation Measurement Of Timing Jitter In A Gain-Switched Distributed Feedback Laser
Ryoichi Mizutani, Naoaki Kitagawa, Misato Nakata, Atsuki Ishiguro, Tetsuya Matsuyama, Kenji Wada
 Osaka Prefecture Univ

17:45--18:00
Oral 3-4M-5

Real-time Spectral Characteristics Of Vector Solitons In A Fiber Laser
Meng Liu, Ai-Ping Luo, Wen-Cheng Xu, Zhi-Chao Luo
 South China Normal Univ

17:45--18:00
Oral 3-4N-5

Cholesteric Liquid Crystal Cell With The Focal-Conic Initial State
Seung-Won Oh, Jong-Min Baek, Sang-Hyeok Kim, Tae-Hoon Yoon
 Department of Electronics Engineering, Pusan National Univ

| | | | |
|---|---|--|--|
| Room Q: 4712 LiDAR: Its Application in Advanced Driver Assistance System II President: Linjie Zhou | Room R: 4713 3D Display Technologies II President: Roland Bartmann | Room S: 4811 Microwave Photonics IV President: Weiwen Zou | Room T: 4911 Optical Passive Devices President: Martin Lavery |
|---|---|--|--|



16:15--16:40
Oral 3-4Q-1
Invited

2D/3D Photonic Integrated Circuits For Highly Functional Chip-scale LIDARS
S. J. Ben Yoo
 Univ of California Davis



16:15--16:45
Oral 3-4R-1
Invited

Display-specific Light Field Analysis
Atanas Gotchev, Robert Bregovic
 Tampere Univ of Technology



16:15--16:45
Oral 3-4S-1
Invited

Broadband Optical Multi-Tx & Multi-Rx Module For Radio-over-Fiber System And Traffic Demonstration
Xihua Zou
 Southwest Jiaotong Univ

16:15--16:30
Oral 3-4T-1

Integrated All-Optical MIMO Demultiplexer For 8-Channel MDM-WDM Transmission
Daniele Melati, Andrea Melloni
 Politecnico di Milano

16:30--16:45
Oral 3-4T-2



16:40--17:05
Oral 3-4Q-2
Invited

Challenges To Develop Autonomous Vehicles
Huiyun Li
Shenzhen Institutes of Advanced Technology, CAS

16:45--17:00
Oral 3-4R-2
Horizontal-parallax-only Light Field 3D Display Based On Stacked LCDs
Xinxing Xia, Song Guo, Phil Surman, Yuanjin Zheng
XINGNanyang Technological Univ

16:45--17:00
Oral 3-4S-2
Programmable Optical Chips For Integrated Microwave Photonics RF Filters
Leimeng Zhuang
Electro-Photonics Laboratory, Monash Univ

Performance Analysis Of 4λx20 Gb/s TWDM PON Using An OFDM-OQAM Modulated Downstream.
Qinglong Luo, Min Feng, Chenglin Bai
Liaocheng Univ



17:05--17:30
Oral 3-4Q-3
Invited

Photonic Integrated Circuits For Electronically Controlled Two-dimensional Optical Beam Steering
Weihua Guo
Huazhong Univ of Science and Technology



17:00--17:30
Oral 3-4R-3
Invited

Directional Backlight Naked-eye 3-D Display Towards Glasses-less Virtual Reality
Haowen Liang, Jiahui Wang, Yangui Zhou, Fan Hang, Kunyang Li, Peter Krebs, Haiyu Chen, Yuman Xu, Jianying Zhou
Sun Yat-sen Univ

17:00--17:15
Oral 3-4S-3
Millimeter-Wave Antenna Beam Forming By Radio-over-Fiber With 1.3 μm Light Source And Variable Delay Line
Tatsuya Nagayama, Kotoko Furuya, Shigeyuki Akiba, Jiro Hirokawa, Makoto Ando
Tokyo Institute of Technology

16:45--17:00
Oral 3-4T-3
Three-Dimensional 4X4 Polymer Optical Switch Using Vertical Multimode Interference Couplers For Flexible Expansion Of Connectable Vertical Distant
Yuichi Kimura, Kensho Ema, Yuichi Matsushima, Ishikawa Hiroshi, Utaka Katsuyuki
Waseda Univ



17:30--17:55
Oral 3-4Q-4
Invited

Silicon Photonic Phased Array For High-resolution And Wide Angle Beamsteering
Jie Sun, Haisheng Rong, Doylend Jonathan, Heck John
Intel

17:30--17:45
Oral 3-4R-4
Dynamic 3D Holographic Display With Enhanced Viewing Angle And Image Area By Active Control Of Volume Speckle Fields
Hyeonseung Yu, KyeoReh Lee, Jongchan Park, YongKeun Park
KAIST

17:15--17:45
Oral 3-4S-4
Invited
Valley Photonic Crystals (VPCs) For Control Spin And Topology
Jianwen Dong
Sun Yat-sen Univ

17:00--17:15
Oral 3-4T-4
Fabrication-friendly High-efficiency Silicon Nitride Grating Coupler
Pengfei Xu, Yanfeng Zhang, Zengkai Shao, Lin Liu, Yujie Chen, Siyuan Yu
Sun Yat-sen Univ



17:45--18:15
Oral 3-4S-5
Invited

Ultra-low Phase Noise Microwave Signal From An Optical Frequency Com
Yann Le Coq, Romain Bouchand, Daniele Nicolodi, Michele Giunta, Wolfgang Hansel, Matthias Lezius, Abhay Joshi, Shubo Datta, Christophe Alexandre, Michel Lours, Pierre-alain Tremblin, Giorgio Santarelli, Ronald Holzwarth, Xiaopeng Xie
LNE-SYRTE, Observatoire de Paris, PSL Research Univ

17:15--17:30
Oral 3-4T-5
Geometric Phase Via Stress Induced Birefringence
Martynas Beresna, Gilberto Brambilla, Xuewen Wang, Saulius Juodkazis, Raymond Rumpf
Univ of Southampton

17:30--17:45
Oral 3-4T-6
Two-dimensional Modeling With Experimental Verification Of A Linear Variable Filter For Spectral Order Sorting Of 400-1000nm
Cheng-Hao Ko, Yueh-Hsun Wu, Symphony Chakraborty, Kinjal J. Shah, Jih-Run Tsai, Bang-Ji Wang, Shin-Fa Lin, Chiu-Der Hsiao
National Taiwan Univ of Science and Technology

17:45--18:00
Oral 3-4T-7
InGaN/GaN Multiple Quantum Well Based Micro-photodetector For High-speed Visible Light Communications
Kang Ting Ho, Guangyu Liu, Chao Shen, Jorge Holguin-Lerma, Abeer Al-Saggaf, Jr-Hau He, TienKhee Ng, Boon Siew Ooi
KAUST

I. Poster Sessions

Poster Session 1

Time: 10:15am – 11:45am

Date: 2 Aug 2017

P1-001 All-fiber Femtosecond Laser Pulse Generation At 1.55 μm And 2 μm Using A Common Carbon-nanotube Based Saturable Absorber
Sivasankara Rao Yemineni, Alphones Arokiaswami, Ping Shum
Nanyang Technological University

P1-002 Comparison Between Tape Casting YAG/Nd:YAG/YAG And Nd:YAG Ceramic Lasers
Yufei Ma, Xudong Li, Lin Ge, Jiang Li, Rengpeng Yan, Xin Yu, Rui Sun
Harbin Institute of Technology

P1-003 Tunable Passively Q-Switched Erbium-Doped Fiber Laser Using Exfoliated MoS₂ As Saturable Absorber
Siti Aisyah Reduan, Harith Ahmad
Photonics Research Centre

P1-004 1.04 Km Ultra-Long Cladding-Pumped Thulium-Doped Fiber Laser With Large Energy Noise-Like-Topped Dissipative Soliton Resonances
Junqing Zhao, Luming Zhao, Lei Li, Ying Geng
Jiangsu Normal University

P1-005 155 W Nanosecond Ytterbium-doped Pulsed Fiber Laser
Meng Liu, Betty Meng Zhang, Perry Ping Shum, Xueping Cheng, Jian Liu, Jiangjie Zhu, Huanxian Zhou, Meng Lei
Nanyang Technological University

P1-006 Investigation Of Spectral Filtering Effect On Stability Of Dispersion-Managed Mode-locked Fiber Lasers
Huanhuan Liu
Shanghai University

P1-007 Longer Than 1.9 μm Photoluminescence Emission From InAs Quantum Structure On GaAs (001) Substrate
Yulian Cao, Ke Liu, Wenquan Ma, Jianliang Huang, Yanhua Zhang, Wenjun Huang
Institute of Semiconductors, Chinese Academy of Sciences

P1-008 Spectrum Influence Of Amplified Spontaneous Emission For Thin Disk Lasers
Zhaocong Lin, Guangzhi Zhu, Xiao Zhu, Qiao Yu, Hailin Wang, Wenguang Zhao
Huazhong University of Science and Technology

P1-009 Dioptric Power Measurement Of Thin-disk Laser
Jiaqi Gu, Xiao Zhu, Guangzhi Zhu, Hailin Wang, Deng Cao
Huazhong University of Science and Technology

P1-010 Influence Of Anti-ASE Cap On Amplified Spontaneous Emission Of Thin Disk Lasers
Qiao Yu, Hailin Wang, Guangzhi Zhu, Xiao Zhu, Zhaocong Lin, Jinbo Yu
Huazhong University of Science and Technology

P1-011 Ultra-Thin Fiber-Tip Micro-Bubble Sensor For Pressure Measurement
Xinglin Liu, Guanjun Wang, Zhibin Wang, Jinyu Gu, Xinwei Luo
North University of China

P1-012 A Single Frequency Fiber Laser With An On-Chip High-Q Silicon Microring Cavity
Yuanjue Zhang, Yu Li, Yi Yang, Minghua Chen, Sigang Yang, Hongwei Chen
Tsinghua University

P1-013 783 fs and 747 fs Operation of Diode-pumped Nd,La:CaF₂ and Nd,La:SrF₂ Lasers
Václav Kubeček, Marek Vlček, Michal Jelínek, Miroslav Čech, David Vyhřídál, Liangbi Su, Dapeng Jiang, Fengkai Ma
Czech Technical University in Prague

P1-014 Parametric Raman Crystalline Anti-Stokes Laser at 503 nm With Collinear Orthogonally Polarized Beam Interaction at Tangential Phase Matching
Sergei Smetanin, Michal Jelinek, Vaclav Kubecek
A.M. Prokhorov General Physics Institute of RAS Moscow, Russian Federation

P1-015 Thin-Rod And Thin-Tapered-Rod Ytterbium Amplifiers For Fiber Lasers
Ivan Kuznetsov, Ivan Mukhin, Olga Vadimova, Oleg Palashov, Ken-Ichi Ueda
Institute of Applied Physics of the Russian Academy of Science

P1-016 High-Power Laser Based On Amplifiers With Yb:YAG Elements Of Advanced Geometries
Ivan Kuznetsov, Ivan Mukhin, Evgeniy Perevesentsev, Mikhail Volkov, Oleg Palashov
Institute of Applied Physics of the Russian Academy of Science

P1-017 Mid-infrared Diode-pumped Pulsed Lasers Based On Two-dimensional Materials
Jing Liu
Shandong Normal University

P1-018 A Numerical Study Of Single-pulse Dual-wavelength Mode-locked Waveguide Laser
Zhang Wen Qi, Afshar Vahid Shahraam, Lancaster David, Monro Tanya
The University of South Australia

P1-019 Passively Q-switched Erbium-doped Fiber Laser Using A Brewster Fiber Grating
Tianxing Wang, Zhijun Yan, Chengbo Mou, Kaiming Zhou, Lin Zhang
Shanghai University

P1-020 Chirp Impact On Manipulation Of Group-velocity-locked Vector Soliton
Xuan Wang, Lei Li, Qian Zhang, Ying Geng, Hanxiao Wang, Luming Zhao
Jiangsu Normal University

P1-021 Mid-infrared Fluoride Raman Fiber Laser Pumped By Erbium Doped Fluoride Fiber Laser
Tianfu Yao, Liangjin Huang, Pu Zhou, Bing Lei, JinYong Leng, Jinbao Chen
National University of Defense Technology

P1-022 Optical Properties And Laser Performance Of Tm-doped Photonic Crystal Fiber With La₂O₃-Al₂O₃-SiO₂ Glasses
Xia Changming, Liu Jiantao, Zhang Wei, Yuan Jinhui, Zhou Guiyao
South China Normal University

P1-023 Preparation And Characterization Of Radiation Hard Fiber
Zhendong Wang, Chen Yang, Feng Xu, Song Wang, Weijun Tong
Yangtze Optical Fiber & Cable Joint Stock Co. Ltd.

P1-024 Efficient Self-Similar Evolution And Intensity Noise Suppression In High-Gain Femtosecond Fiber Amplifiers Using Pump-Wavelength Optimization
Sijia Wang, Peng Qin, Bowen Liu, Minglie Hu
China Academy of Space Technology

P1-025 Compact All-PM-fiber Er-laser Mode-locked By A Phase-biased Nonlinear Amplifier Loop Mirror
Qiang Hao, Feihong Chen, Heping Zeng
University of Shanghai for Science and Technology

P1-026 Contentious-wave Lasing Near 1.55 μm In Microcylinder With Quantum Dot Active Regions
Jinlong Xiao
Institute of Semiconductors, Chinese Academy of Sciences

P1-027 Supercontinuum Generation By Self-phase Modulation And Induced Phase Modulation At Fused Silica Thin Plate Array
Yuki Yamaguchi, Ryohei Hida, Takakazu Suzuki, Fumihiko Kannari
Keio University

- P1-028 Wavelength Switchable Fiber Laser With Sampled Fiber Bragg Grating Reflectors By Mode-locking Frequency**
Yael Sourani, Alexander Bekker, Boris Levit, Baruch Fischer
Technion – Israel Institute of Technology
- P1-029 UV Luminescence In Gd-doped Silica And Phosphosilicate Optical Fibres**
Yun Wang, Jing He, Pranabesh Barua, Norberto Chiodini, Sebastian Steigenberger, Muhammad Imran Mustafa Abdul Khudus, Jayanta Sahu, Martynas Beresna
University of Southampton
- P1-030 Mode-filtering Of A Fiber-based Optical Frequency Comb With Long-fiber-based Ring Resonator For Repetition Rate Multiplication**
Nakajima Yoshiaki, Nishiyama Akiko, Yoshida Satoru, Hariki Takuya, Minoshima Kaoru
The University of Electro-Communications
- P1-031 Direct Bonding Of A Laser Crystal And Copper By Use Of The Room-temperature Bonding**
Tomoki Matsui, Shin Katsumata, Ichiro Shoji
Chuo University
- P1-032 In-band Pumped Er:YAG Ceramic Q-switched Laser At ~1.6 μm Wavelength Region**
Wang Yong, Shen Deyuan, Zhang Jian, Tang Dingyuan
Jiangsu Normal University
- P1-033 Polymer Waveguide Incorporated With Europium-aluminum Polymer Composite For Compact And High-gain Optical Amplification Devices**
Yurie Yoshida, Toshimi Fukui, Takaaki Ishigure
Keio University
- P1-034 Pulse-spacing Manipulation In A Passively Mode-locked Fiber Laser**
Ying YU, Xiaoming WEI, Jiqiang KANG, Bowen LI, Kenneth K. Y. Wong
The University of Hong Kong
- P1-035 Mid-infrared (6-18 μm) Optical Vortex Parametric Laser With Topological Charge Versatility**
Kana Ando, Azusa Ogawa, Katsuhiko Miyamoto, Takashige Omatsu
Chiba University
- P1-036 Optical Vortex Beam Conversion Based On Resonator With An Intra-cavity Spiral Phase Plate**
Yuanyao Lin, Chia-Chi Yeh
National Sun Yat-Sen University
- P1-037 Laser Linewidths Measurement Based On The Strong Coherent Envelope**
Shihong Huang, Tao Zhu, Guolu Yin, Ligang Huang, Min Liu, Wei Huang
Chongqing University
- P1-038 Diode-pumped High-power Kerr-lens Mode-locked Yb:CYA Laser**
Wenlong Tian, Yingnan Peng, Jiangfeng Zhu, Zhiyi Wei, Xiaodong Xu
Xidian University
- P1-039 Manipulating Vector Optical Beams With Holographic Micro-structures**
Jing Wen, Hui Feng, Shiliang Liu, Dawei Zhang
Univ of Shanghai for Science and Technology
- P1-040 3.5-W, Femtosecond Chirped Pulse Amplification Fiber Laser System At 1560 nm**
Parviz Elahi, Huihui Li, F. Ömer Ilday
Bilkent University
- P1-041 Numerical Simulations Of Sub-100 fs Soliton Fiber Laser Mode-locked By Graphene**
Jakub Bogusławski, Grzegorz Soboń, Aleksandra Przewolka, Aleksandra Krajewska, Włodek Strupiński, Krzysztof M. Abramski, Jarosław Sotor
Wrocław University of Science and Technology
- P1-042 Improved Performance of Fiber Optic Hydrogen Sensor Based on High Reflective Bragg Grating and $\text{WO}_3\text{-Pd}_2\text{Pt-Pt}$ Composite Films**
Li Zhu, Jixiang Dai, Yaobin Qi, Gaopeng Wang, Feng Xiang, Yuhuan Qin, Minghong Yang
Wuhan University of Technology
- P1-043 50-W, 1.6-GHz Pulse Repetition Rate From A Burst-Mode Yb-Doped Fiber Laser**
Parviz Elahi, Ayse Cansu Ertek, Koray Eken, F. Ömer Ilday
Bilkent University
- P1-044 Development Of Ultrashort Pulse Fiber CPA System**
Senna Fujino, Kouji Isaku, Kanto Amamoto, Ryutaro Nagai, Kazuhide Satou, Kazuyoku Tei, Shigeru Yamaguchi, Jun Enokidani
Tokai University
- P1-045 Numerical And Experimental Analysis Of Spectral Broadening In Picosecond Multi-stage Fiber Amplifier**
Koji Isaku, Sena Fujino, Ryutaro Yamashita, Ken-ichi Takiuchi, Kazuyoku Tei, Shigeru Yamaguchi, Jun Enokidani
Tokai University
- P1-046 Watt-level, Ultrafast Fiber Laser Functioned With Ultraweak Evanescent Field**
Lei Gao, Tao Zhu
Chongqing University
- P1-047 M^2 Quality Factor Measurement Without Power And Wavelength Limit Based On Infrared Image Technology**
Zhao Wang, Nengli Dai, Yingbin Xing
Huazhong University of Science & Technology
- P1-048 Multiwavelength Erbium-Brillouin-Raman Random Fiber Laser**
Qiheng He, Han Wu, Zinan Wang
University of Electronic Science and Technology of China
- P1-049 Tunable And Cascaded Brillouin-Erbium Random Fiber Laser**
Changqing Huang, Jin Xu, Songlin Zhuang, Xinyong Dong
University of Shanghai for Science and Technology
- P1-050 Characteristics Of Double Fiber Ring Incorporated With A Fiber Bragg Grating**
Xiaoqiong Qin, Zujie Fang, Zhidan Ding, Zhaoyong Wang, Fei Yang, Qing Ye, Ronghui Qu, Haiwen Cai
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
- P1-051 Simulated Beam Propagation In Nonlinear Optical Process For Management Of Efficient Wavelength Conversion**
Susumu Kato, Sunao Kurimura, Norikatsu Mio
National Institute of Advanced Industrial Science and Technology
- P1-052 Passively Mode-locked Er-fiber Laser By Using Tm-Ho Co-doped Fiber As The Saturable Absorber**
Xiaorong Gu, Zhiping Ju, Youwen Liu, Yao Li
Nanjing University of Aeronautics and Astronautics
- P1-053 Compressed Sensing (CS) Technology Based On Terahertz Coherent Tomographic Imaging**
Youdong Guo, Furi Ling, Siyan Zhou, Weijun Wang, Yue Tian, Jianquan Yao
Huazhong University of Science and Technology
- P1-054 An All-PM Fiber Source Generating 5.4 nJ, 95 fs Laser Pulses In The 2 μm Spectral Range**
Jarosław Sotor, Grzegorz Sobon, Tadeusz Martynkien, Karol Tarnowski, Paweł Mergo
Wrocław University of Science and Technology
- P1-055 Resonantly Pumped Er:YAG Ceramic Single-frequency Laser**
Lei Wang
China Academy of Space Technology
- P1-056 Dual-frequency Yb^{3+} -doped DBR Fiber Laser With 32 GHz Frequency Difference**
Yubin Hou, Qian Zhang, Shuxian Qi, Xian Feng, Pu Wang
Beijing University of Technology
- P1-057 Single Longitudinal-mode Fiber Laser Based On Theta-Shaped Microfiber Filter**
Zhilin Xu, Yiyang Luo, Qizhen Sun, Baocheng Li, Perry Ping Shum, Deming Liu
Nanyang Technological University
- P1-059 Thulium-doped Fiber Chirped Pulse Amplifier And Its Application For Mid-IR Supercontinuum Generation In ZBLAN Fiber**

Fangzhou Tan, Hongxing Shi, Jiang Liu, Pu Wang
Beijing University of Technology

P1-060 Various Bound Solitons In Dispersion-Managed Fiber Lasers
Yiyang Luo, Yang Xiang, Bowen Liu, Zhijun Yan, Songnian Fu, Deming Liu, Qizhen Sun
Huazhong University of Science and Technology

P1-061 Second Harmonic Generation Based On A 1 μm Femtosecond Fiber CPA System
Chang Hong, Ruoyu Sun, Yu Wang, Pu Wang
Beijing University of Technology

P1-062 Low-repetition-rate All-PM-fiber And Mode-locked Fiber Laser With Sub-nanosecond Pulse
Xiaosheng Xiao
Tsinghua University

P1-063 Extreme Thermal Stability Of 1550 nm Band Highly Stacked QD-LDs With P-Doped Structure
Atsushi Matsumoto, Kouichi Akahane, Toshimasa Umezawa, Naokatsu Yamamoto
National Institute of Information and Communications Technology

P1-064 Ultra-wide Square Pulses Generation In A Yb-doped Fiber Laser Based On Nonlinear Polarization Rotation Effect
Yafei Cao, Dongfang Jia, Tonghui Liu, Zhaoying Wang, Tianxin Yang
Tianjin University

P1-065 Experimental Investigation Of High Power All-fiber Amplifier With A Closed Fiber Laser Cavity
Jianming Wang, Cheng Li, Dapeng Yan
Huazhong University of Science and Technology

P1-066 Effective Mitigation Of Photo-darkening By Na⁺ Ions Doping In Yb-doped Fibers
Nan Zhao, Haiqing Li
Huazhong University of Science and Technology

P1-067 Effects Of Inhomogeneity In Distribution Of Scatterers On Random Laser Emission
Takashi Okamoto, Masaki Mori, Tatsuma Haruno
Kyushu Institute of Technology

P1-068 Numerical Analysis of Signal Recycling in Multiwavelength Brillouin-erbium Fiber Laser
Nurul Atiqah Bt Ahmad, Noran Azizan Cholan, Samsul Haimi Dahlan
Universiti Tun Hussein Onn Malaysia

P1-069 A Monte-Carlo-Based Methodology For Determining The Fabrication Yield Of Fiber Designs For Laser Amplifiers
Ang Wen-Wei Shaun, Seah Chu-Perng, Chua Song-Liang
DSO National Laboratories

P1-070 All-fiberized, In-band Pumped Ho-doped Fiber Laser Operating At 2.1 μm
Jiachen Wang, Sang Bae Lee, Kwaniil Lee
Korea Institute of Science and Technology

P1-071 Generation of Wide Frequency-Spacing Optical Frequency Comb Composed Of Odd/Even Multiple Harmonics
Akito Chiba, Nobuhiro Kobayashi, Yuta Moteki, Takahide Sakamoto, Kazumasa Takada
Gunma University

P1-072 Discretely Wavelength-swept Fiber Laser Based On Temporal-spectral Multiplexing
Eunjoo Lee, Byoung Yoon Kim
Korea Advanced Institute of Science and Technology

P1-073 Measurement Of Refractive Index Change In Nonlinear Crystals Using Wavefront Sensor
Atsushi Fuchimukai, Yoichi Sasaki, Chen Qu, Yuki Tamaru, Taisuke Miura, Takashi Matsunaga
Gigaphoton Inc.

P1-074 Passive Hybrid Harmonic Mode-Locked Fiber Sigma Laser Using Integrated Faraday Rotator And SESAM With Amplitude Modulation Stabilization

Kevin L.F. Lui, Kwong Shing Tsang, Mary Fung, Victor Ho, Hideaki Furukaw, Takeshi Makino, Tetsuya Kobayashi, Xiaomin Wang, Naoya Wada, Ray Man
Amonics Limited

P1-075 Lasing Characteristics Of Tandem-pumped Yb Fiber Lasers
YeJi Jung, M.J. Jeon, H. Jeong, J.W. Kim
Hanyang university

P1-076 Generation Of 408 fs Dark Soliton Pulse In A Mode-locked Ytterbium-doped Fiber Laser
Junli Wang, Haotian Jia, Hao Teng, Shaobo Fang, Zhiguo Lv, Wenjun Liu, Zhiyi Wei, Jiangfeng Zhu
Xidian University

P1-077 Laser Performance Of Cr²⁺:CdSe Crystal With Anti-reflection Coating
Mikhail K. Tarabrin, Toney T. Fernandez, Yuchen Wang, Vladimir A. Lazarev, Stanislav O. Leonov, Valeriy E. Karasik, Yurii V. Korostelin, Yan K. Skasyrsky, Mikhail P. Frolov, Yurii P. Podmarkov, Vladimir I. Kozlovsky, Cesare Svelto, Pasquale Maddaloni, Nicola Coluccelli, Paolo Laporta, Gianluca Galzerano
Bauman Moscow State Technical University

P1-078 All-Optical Switch Using Cascaded Second-order Nonlinear Effect In PPLN: Pattern Effect Of Period Error
Yutaka Fukuchi, Taichi Matsuura
Tokyo University of Science

P1-079 Filamentation: One Solution For Both High Field Amplitude And High Imaging Resolution Of THz Wave
Weiwei Liu
Nankai University

P1-080 Tunable Tm-doped Fiber Laser Mode Locked By Carbon Nanotubes
Wenlei Li, Xueming Liu
Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences

P1-081 Single-Shot Laser Pulse Reconstruction Based On Self-Phase Modulation In A Kerr Medium And Spectral Interferometry
Elena Anashkina, Alexey Andrianov, Vladislav Ginzburg, Anton Kochetkov, Ivan Yakovlev, Arkady Kim
Institute of Applied Physics of the Russian Academy of Sciences

P1-082 Study Of Femtosecond Laser Induced Circular Optical Properties By Mueller Matrix Spectropolarimetry
Jing Tian, Matthieu Lancry, Enric Garcia-Caurel, Razvigor Ossikovski, Bertrand Poumellec
University Paris Saclay

P1-083 Single-shot Burst Imaging Of Ultrafast Phenomena With Sub-picosecond Resolution And Sub-nanosecond Time Window
Takakazu Suzuki, Ryohei Hida, Yuki Yamaguchi, Fumihiko Kannari
Keio University

P1-084 Generation Of Few-Cycle Laser Pulses By Coherent Synthesis Basing On Femtosecond Yb Fiber Laser
Aichen Ge, Bowen Liu, Haochen Tian, Youjian Song, Minglie Hu
Tianjin University

P1-085 Effect Of Interfacial States On Charge-Transfer Dynamics In Type II Zinc Oxide-Tin Oxide Heterostructures-A Femtosecond Transient Absorption Study
Zhongguo Li, Anran Song, Lingyan Liang, Hongtao Cao, Xingzhi Wu, Yinglin Song
Changshu Institute of Technology

P1-086 Observation of Bound Soliton in Mode Locked Fiber Laser Exploiting Simplified Nonlinear Polarization Rotation
YingLong Gu, Yong Yao, YanFu Yang, JiaJun Tian
Harbin Institute of Technology Shenzhen Graduate School

P1-087 Ultrafast Vibronic Dynamics In Zinc Chlorin Aggregates For Artificial Photosynthetic Systems
Juan Du, Yuxin Leng, Takayoshi Kobayashi, Tomohiro Miyatake, Hitoshi Tamiaki
Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences

P1-088 Optical Limiting And Nonlinear Optical Properties Of GO Functionalized By CdTe Quantum Dots
Mojtaba Ebrahimi, Abdolnaser Zakery, Mehdi Molaei
Physics, Shiraz University

P1-089 Nonlinear Optical And Optical Limiting Properties Of Suspensions Of GO In Ethanol And Water
Abdolnaser Zakery, Mojtaba Ebrahimi, Mohamad Mehdi Doroodmand
Physics, Shiraz University

P1-090 Creation And Orientation Of Nano-crystals By Femtosecond Laser Light For Controlling Optical Non-linear Response In Silica-based Glasses
Jing Cao, François Brisset, Leo Mazerolles, Matthieu Lancry, Bertrand Pommellec
University Paris Saclay

P1-091 Refractive Index Sensing By The Ratio Of Forward-propagating And Backward-propagating Second-harmonic Signal From Metal Nanoparticles
Xianghui Wang, Jingwei Sun, Shitong Xu, Fei Fan, Shengjiang Chang
Nankai University

P1-092 Quantized Radiation Properties Of Single Electrons In Atomic Cascade Three-level Systems
Kwang Jun Ahn
Department of Energy Systems Research & Physics

P1-093 Vector Solitons In Mode-locked Fiber Lasers By Fast-axis Instability
Yueqng Du, Xuewen Shu, Peiyun Cheng
Huazhong University of Science and Technology

P1-094 Enhanced Up-conversion Emission By Single Plasmonic Nanoparticle With Femto-second Laser Excitation
Gao Yi, Young-Jin Kim
Nanyang Technological University

P1-095 Q-switched-like Soliton Bunches In A Partially Mode-locked Fiber Laser By A Microfiber-based Graphene Saturable Absorber
Zhi Wang, Yange Liu, Ruijing He, Guangdou Wang
Nankai University

P1-096 Wavefront Correction Near The Focus Of Petawatt Laser System For High-field Science Experiment
Li Jinfeng, Yu Lianghong, Liang Xiaoyan, Li Ruxin, Xu Zhizhan
Shanghai Institute of Optics and Fine Mechanics, CAS

P1-097 Accurate Measurements Of Electro-optic Coefficients Of MgO-doped And Undoped Congruent And Stoichiometric LiNbO₃
Kazuki Akiyama, Shota Nakano, Ichiro Shoji
Chuo University

P1-098 A Weak Femtosecond Pulse Seed On CW Pumped Supercontinuum Generation
Peng Lu, Qian Li
Pecking University

P1-099 Generation Of Octave-spanning Intense Supercontinuum From Yb:doped Solidstate Lasers In Multiple Thin Plates
Chih-Hsuan Lu, Wei-Hsin Wu, Shiang-He Kuo, Yi-Hsun Tseng, Chia-Lun Tsai, Shang-Da Yang, Ming-Chang Chen, A. H. Kung
National Tsing Hua University

P1-100 Secure Chaos Communication With Semiconductor Lasers Subject To Sinusoidal Phase-Modulated Optical Feedback
Jiang Ning, Xue Chenpeng, Zhang Jing, Yi Xingwen, Qiu Kun
University of Electronic Science and Technology of China

P1-101 All Optical Modulators Exceeding 100 THz Bandwidth Via Coherent Absorption Of Metamaterial
Venkatram Nalla, Artemios Karvounis, Handong Sun, Nikolay I. Zheludev
Nanyang Technological University

P1-102 Dissipative Peregrine Soliton In Fiber Lasers
Dingyuan Tang
Nanyang Technological University

P1-103 Characterization Of Optically-controlled Terahertz Modulation Based On A Hybrid Device Of Perovskite And Silicon

Kyu-Sup Lee, Rira Kang, Byungwoo Son, Dong-Yu Kim, Ei Yu Nan, Do-Kyeong Ko
Gwangju Institute of Science and Technology

P1-104 Improvement Of Optical Modulation Depth Tolerance In Analog RoF By Employing CAZAC And Nonlinearity Compensation
Longsheng Li, Meihua Bi, Weisheng Hu, Weikang Jia, Xin Miao
Shanghai Jiao Tong University

P1-105 Static And Dynamic Magnetic Properties Of Two-dimensional Ni₈₀Fe₂₀ Annular Antidot Lattices
Nikita Porwal, Anjan Barman, Prasanta Datta
Indian Institute of Technology Kharagpur

P1-106 Double Mueller Matrix Measurement Of KTP Crystal
Chitra Shaji, Sruthil Lal S B, Alok Sharan
Pondicherry University

P1-107 Efficient Degenerate Third-order Difference Frequency Generation In Microfiber-ring Resonator Systems
Yunxu Sun
Shenzhen Graduate School, Harbin Institute of Technology

P1-108 Mid-Infrared Self-Similar Pulse Compression of Picosecond Pulse in a Ridge Silicon Waveguide Taper
Jian Chen, Chao Mei, Jinhui Yuan, Feng Li, Zhe Kang, Kuiru Wang, Binbin Yan, Xinzhu Sang
Beijing University of Posts and Telecommunications

P1-109 Shared And Dual Optical Parametric Generation In Non Linear Photonic Crystals Of LiTaO₃
Hocine Chikh-Touami, Régis Kremer, Lee Hsi-Jung, Lee Min Won, Peng Lung-Han, Azzedine Boudrioua
Université Paris 13

P1-110 Diffractive Imaging Of Molecular Orbital
Chunyang Zhai, Xiaosong Zhu, Pengfei Lan, Feng Wang, Lixin He, Wenjing Shi, Yang Li, Min Li, Qingbin Zhang, Peixiang Lu
Huazhong University of Science and Technology

P1-111 Normalized Model For Polarization Pulling In Fiber Optical Parametric Amplifiers
Shaohao Wang, Qiqi Huang, P. K. A. Wei
Fuzhou University

P1-112 Difference In Distribution Of Eu Ions Doped CaF₂ Single Crystal Caused By Two Types Of Grown Method By Measurement Of Multi-photon Luminescence
Miho Tanaka, Shingo Ono, Akihiro Yamaji, Shusuke Kurosawa, Akira Yoshikawa
Nagoya Institute of Technology

P1-113 Enhancement Of SHG In The Al Covered ZnS Nanobelts
Hongbo Hu, Kai Wang, Bing Wang, Peixiang Lu
Huazhong University of Science and Technology

P1-114 Simulation Of All-Optical NOR Gate Using Single Quantum-Dot SOA And Optical Filter
Kosuke Komatsu, Gou Hosoya, Hiroyuki Yashima
Tokyo University of Science

P1-115 Modeling Of Period One Oscillations In Optically Injected Quantum Cascade Lasers
Cheng Wang
ShanghaiTech University

P1-116 Giant AC Stark Effect In A Strongly-Coupled Light-Matter System
Dmitry Panna, Nadav Landau, Shlomi Bouscher, Leonid Rybak, Shai Tsesses, Guy Adler, Sebastian Brodbeck, Christian Schneider, Sven Höfling, Alex Hayat
Technion - Israel Institute of Technology

P1-117 Stability Analysis And Bandwidth Estimation Of Free-Carrier Driven Kerr Frequency-Comb
Raktim Halder, Partha Mondal, Vishwatosh Mishra, Shailendra K. Varshney
Indian Institute of Technology Kharagpur

P1-118 Improvement Of Signal-to-noise Ratio Of The Beat Note By Cascading An Yb-doped Fiber Amplifier In An Er-fiber Comb

Huan Liu, Shiyong Cao
Tsinghua University

P1-119 Self - Dissimilarity Analysis For Characterizing Complexity In The Vicinity Of Mode Locking For Different Pulsing Regimes In Fiber Oscillator

Tesfay Teamir, Ghaith Makey, Fatih Ömer İlday

Bilkent University

P1-120 Polytetrafluoroethylene Top-Covered Hs/(Ge/ZnS)³/Ge Structure For Visible-Infrared Spectral Selection

Dong Qi, Xian Wang, Yongzhi Cheng, Bowen Li, Rongzhou Gong
Huazhong University of Science and Technology

P1-121 Impact Of Band Structure Of Ohmic Contact Layers On The Response Feature Of P-i-n Very Long Wavelength Type II InAs/GaSb Superlattice Photodetector

Jianliang Huang

Institute of semiconductors, Chinese Academy of Sciences

P1-122 Active Focal Control Of Graphene-metal Metasurface Lenses For Infrared Frequencies

Bin Hu, Zongduo Huang, Zi Wang, Juan Liu

Beijing Institute of Technology

P1-123 Mid-infrared Supercontinuum Generation In A Highly Birefringent As₂Se₃-based Photonic Quasi-crystal Fiber

Shuqin Lou, Tongtong Zhao, Xin Wang

Beijing Jiaotong University

P1-124 A Ring-mirrors-integrated Silicon Photonics Arrayed Waveguide Grating

Qing Fang, Juan Hu, Zhiqun Zhang, Hua Chen, Lei Zhao, Hequn Chu, Xianbo Pan

Kunming University of Science and Technology

P1-125 Mid-IR Waveguides In SOI Platform

Usman Younis, Xianshu Luo, Bowei Dong, Huang Li, Eu-Jin Lim, Guo-Qiang Lo, Andrew A. Bettiol, Kah-Wee Ang

National University of Singapore

P1-126 Tunable Dual-Band And Wide-Angle Perfect Absorber Based On Graphene Metamaterial

Xiao Li, Honghao Yu, Ye Zhang, Junjie Mei, Jianjun Lai, Dejia Meng, Changhong Chen

Huazhong University of Science and Technology

P1-127 Active Hybrid-material Longwave Infrared Absorber Of Graphene Ribbon Array

Honghao Yu, Xiao Li, Ye Zhang, Junjie Mei, Jianjun Lai, Changhong Chen

Huazhong University of Science and Technology

P1-128 Non-invasive Blood Glucose Measurement Scheme Based On Near-infrared Spectroscopy

Shulei Wang, Xueguang Yuan, Yangan Zhang

Beijing university of posts and telecommunications

P1-129 High Resolution Mid-Infrared Photo-thermal Microscopy With Solid Immersion Lens

Eun Seong Lee, Jae Yong Lee

Korea Research Institute of Standards and Science

P1-130 Extension Of Germanium-on-Insulator Optical Absorption Edge Using CMOS-Compatible Silicon Nitride Stressor

Yiding Lin, Danhao Ma, Jurgen Michel, Chuan Seng Tan

Nanyang Technological University

P1-131 Low Loss Silicon-on-Insulator Waveguide For Mid-Infrared Photonics

Bowei Dong, Xianshu Luo, Hong Wang, Chengkuo Lee, Guo-Qiang Lo

National University of Singapore

P1-132 Polarization-Dependent Cut Wire In Mid-Infrared Metamaterial Absorber

Nan Chen, Dihan Hasan, Prakash Pitchappa, Massimo Alioto, Navab Singh, Xianshu Luo, Guo-Qiang Lo, Chengkuo Lee

National University of Singapore

P1-133 Three-fold Efficiency Improvement Via Temporal And Spatial Pulse Shaping In 3µm OPCPA

Xiao Zou, Houkun Liang, Shizhen Qu, Kun Liu, Qijie Wang, Ying Zhang
Nanyang technological university

P1-134 High-resolution Chalcogenide Fiber Bundles For Thermal Image Delivery

Bin Zhang, Chengcheng Zhai, Sisheng Qi, Yaocheng Li, Yi Yu, Barry Luther-Davies, Zhiyong Yang

Jiangsu Normal University

P1-135 Stable Broadband Supercontinuum Generation Extending To >2000 nm In Dielectrics Pumped By 1µm Picosecond Pulses For CEP-stable OPCPA

Kun Liu, Shizhen Qu, Xiao Zou, Houkun Liang, Qijie Wang, Ying Zhang
Singapore Institute of Manufacturing Technology

P1-136 High Energy, High Repetition Rate, 300µJ, 3 µm OPCPA System

Shizhen Qu, Xiao Zou, Kun Liu, Qijie Wang, Houkun Liang, Ying Zhang

Nanyang Technology University

P1-137 Phase Matching Condition Of Dual-pump Phase-sensitive Parametric Amplification In Optical Fiber

Kyo Inoue

Osaka University

P1-138 Near-infrared PbSe Colloidal Quantum Dot Photodetectors

Mariyappan Thambidurai, Youngjin Jang, Gao Yuan, Xiaonan Hu, Xuechao Yu, Qijie Wang, Lifshitz Efrat, Hilmi Volkan Demir, Cuong Dang

Nanyang Technological University

P1-139 Electrically Tuned Dielectric Property Of Barium Titanate By THz Spectroscopy

Jie Ji, Jingcheng Zhang, Furi Ling, Siyan Zhou, Songjie Shi, Jianquan Yao
Huazhong University of Science and Technology

P1-140 Photoluminescence Of Tm-doped Ta₂O₅ Waveguides

Amy Sen Kay Tong, Colin J. Mitchell, Jacob I. Mackenzie, James S. Wilkinson

University of Southampton

P1-141 Preliminary Studies Of Simultaneous RGB And NIR Fluorescence Imaging Of Ex Vivo Human Breast Tissue Using Indocyanine Green (ICG)

Elham Nabavi, Ji Qi, Maria Leiloglou, George Hanna, Daniel R. Leff, Daniel S. Elson

Imperial College London

P1-142 Engineering Plasmon Coupling In Graphene Using Modulated Nanoribbons

Prarthana Gowda, Tim Poole, Isaac John Luxmoore, Geoffrey Nash
University of Exeter

P1-143 Measurement Of The Threshold Of Stimulated Brillouin Scattering With Super-Gaussian-shaped Laser Pulses

Xuehua Zhu, Zhiwei Lu, and Yulei Wang

Anhui Polytechnic University

P1-144 Transformation Of Medical Grade Titanium And Titanium Alloy During High Power Fiber Laser Machining

Vinod Parmar, Dinesh Kalyanasundaram, G. Vijaya Prakash
Indian Institute of Technology Delhi

P1-145 Mode Instability In A Yb-doped D-shape Cladding Fiber

Nan Xia, Seongwoo Yoo

Nanyang Technological University

P1-146 Efficient 1.5 µm Raman Generation In Methane-filled Negative Curvature Hollow-core Fiber

Yubin Chen, Zefeng Wang, Xiaoming Xi, Qisheng Lu

College of Optoelectronic Science and Engineering, National University of Defense Technology

P1-147 Optical Design Of Dynamic Focusing System For Laser Galvanometric Scanning

Yue Xu, Xiao Zhu, Sihai Chen, Ayu Luo, Wei Chen

Shenzhen Institutes of Advanced Technology, Chinese Academy of Science

P1-148 High Energy Of A b-cut Tm, Ho:YAlO₃ Laser

Linjun Li, Xining Yang

Heilongjiang Institute of Technology

P1-149 Tunable Photonic Crystal Distributed Bragg Reflector Fiber Laser With Superimposed FBGs

Peng Jiang, Weihong Bi, Yuefeng Qi, Guangwei Fu, Xinghu Fu, Wa Jin, Neng Zhao
Yanshan University

P1-150 Self-assembled Periodic Nanostructures Embedded In Wide Bandgap Semiconductor

Yasuhiko Shimotsuma, Yuta Nakanishi, Masaaki Sakakura, Kiyotaka Miura
Kyoto University

P1-151 Microwave Assisted Laser-induced Breakdown Spectroscopy Restrain Self-absorption Effect

Peiyuan Gao
Huazhong University of Science and Technology

P1-152 Study On IR Laser Machining Of Carbon Fiber Reinforced Plastics (CFRP)

Changkyoo Park, Induck Park, Eunjoon Chun, Kwangdeok Choi, Kwanghyeon Lee, Lee Sujin, Suh Jeong
Korea Institute of Machinery and Materials

P1-153 Effect Of Laser Surface Texturing On Wear Resistance Of Ni-Cr Alloy

Libin Lu, Panfeng Zhao, Yingchun Guan
Beihang University

P1-154 Prediction Of The Shape And Volume Of Metal Surfaces Ablated By Femtosecond Laser

Vahan Malkhasyan, Mohamed Assoul, Guy Monteil
University of Bourgogne Franche-Comte

P1-155 Ablation Property Irradiated By Quasi-continuous-wave Laser And Continues-Wave Laser

Xiaojun Wang
Technical Institute of Physics and Chemistry, Chinese Academic of Science

P1-156 Laser Writing Of Localized Color Centers In Hexagonal Boron Nitrides Monolayers

Songyan Hou, Muhammad Danang Birowosuto, Saleem Umar, Maurice Ange Anicet, Roland Yingjie Tay, Philippe Coquet, Tay Beng Kang, Hong Wang, Edwin Hang Tong Teo
CINTRA UMI CNRS/NTU/THALES

P1-157 Femtosecond Laser Cleaning For Aerospace Manufacturing And Remanufacturing

Niroj Maharjan, Yu Zhou, Yingchun Guan, Wei Zhou
Nanyang Technological University

P1-158 Study Of Stress Relaxation In UV Regenerated Fiber Bragg Gratings

Matthieu Lancry, Kevin Cook, Bertrand Poumellec, John Canning
University Paris Saclay

P1-159 Ultra-low Velocity Measurement Via Weak-Value Amplification

Senzhi Fang, Chuming Lin, Qinglin Wu
Central China Normal University

P1-160 Near-UV-Enhanced Sensitivity Of Plasmonic Nanotextured Device For Volatile Organic Sensing

Yusheng Lin
Sun Yat-Sen University

Poster Session 2

Time: 3:45pm – 5:15pm

Date: 2 Aug 2017

P2-001 Pushing Detection Wavelength Toward $1\mu\text{m}$ Using Antimonide-based Type-II Superlattices

Yanhuang Zhang, Wenquan Ma, Jianliang Huang, Yulian Cao, Ke Liu, Wenjun Huang, Chengcheng Zhao
Institute of Semiconductors, Chinese Academy of Sciences

P2-002 Fiber Refractive Index Sensor Based on Surface Plasmon Resonance with No-Core Fiber

Zhewen Ding, Chunliu Zhao, Tingting Lang, Jiajun Jin
China Jiliang University

P2-003 Polarization-independent SBS-based Narrowband Filters For High Resolution Optical Spectrum Measurement

Chen Xing, Changjian Ke, Zhen Guo, Yibo Zhong, Haoyu Wang, Deming Liu
Huazhong University of Science and Technology

P2-004 Hydroperoxide Concentration Measurement With Polarized/unpolarized Spectrometer

Cheng-Chih Hsu, Yu-Jen Chen, Te-Yu Chiang, Hsin-I Yeh, Yung-Fang Yang
Yuan Ze University

P2-005 Super-fast Optical Hygrometer Probe Based On Polyelectrolyte-coated Fiber Taper

George Y. Chen, Xuan Wu, Tanya M. Monroe, David G. Lancaster, Li Yu, Xiaokong Liu, Haolan Xu
University of South Australia

P2-006 A Photonic-assisted Compressive Sampling System Using A Directly-modulated Laser

Pei Li, Minghua Chen, Qiang Guo, Hongwei Chen, Sigang Yang, Shizhong Xie
Tsinghua University

P2-007 Radial Position Measurement Of Defects Within Optical Fibers Using Skew Rays Interrogation

George Y. Chen, Tanya M. Monroe, David G. Lancaster
University of South Australia

P2-008 Mid-infrared Molecular Sensing With Tunable Graphene Plasmons

Tingting Wu, Yu Luo, Lei Wei
Nanyang Technological University

P2-009 Real Part Of Dielectric Constant Of A Subwavelength-in-diameter Silver Pipe Is Positive In Visible Light

Fumiaki Tajima, Yoshio Nishiyama
Yokohama National University

P2-010 MOEMS Accelerometer Based On Grating Coupler Integrated With Embossed Diaphragm

Malayappan Balasubramanian, Shreyas Nandi, Shirin Fathima, Aparna S, Sai Srujana Vuppala, U Poornalakshmi, Prasant Kumar Pattnaik
BITS-Pilani, Hyderabad Campus

P2-011 High Resolution Fiber Temperature Sensor Based On Precise Measurement Of Long Fiber Length

Atsuki Ishiguro, Amaka Tanaka, Takahiro Ohmae, Ryoichi Mizutani, Tetsuya Matsuyama, Kenji Wada
Osaka Prefecture University

P2-012 Discrimination Of Absorption Variations In Two Layered Structure By Using Angular Distribution Of Diffuse Reflected Light

Masaharu Hyodo, Kensuke Miyahira, Osamu Matoba, Satoru Miyauchi, Shingo Saito, Akira Kawakami
Kanazawa University

P2-013 Photonic Time-Stretch Optical Coherence Tomography With Data Compression And Improved Resolution

Chaitanya K Mididoddi, Guoqing Wang, Lei Su, Chao Wang
University of Kent

P2-014 A Novel Method For Calculating The Response Of A Quadrant Detector Using Convolution

Jadze Princeton C. Narag, Nathaniel P. Hermosa

University of the Philippines

P2-015 Photon Number And Timing Resolution Of A Near-infrared Continuous-wave Source With A Transition Edge Sensor

Jianwei Lee, Lijiong Shen, Brenda Chng, Alessandro Cerè, Christian Kurtsiefer
National University of Singapore

P2-016 Sensoric And Data Applications In National Research And Educational Networks

Jan Radil, Ondrej Havlis, Petr Muster, Pavel Skoda, Josef Vojtech
Czech Educational and Scientific NETWORK

P2-017 Fabricating Elastomerically Aspheric Lens Using 3D Printing Technique

Ratthasart Amarit, Atcha Kopwitthaya
National Electronics and Computer Technology Center

P2-018 Suppressing The Relative Linewidth Of A Dual-comb System Without Using Ultra-stable CW Lasers

Zebin Zhu, Kai Ni, Qian Zhou, Guan hao Wu
Tsinghua University

P2-019 Calculating The Effective Center Wavelength For Heterodyne Interferometry Of Optical Frequency Combs

Shilin Xiong, Zaihua Yang, Lei Liao, Guan hao Wu
Tsinghua University

P2-020 Highly Sensitive On-chip Eight Channel Sensing Of Ultra-compact Parallel Integrated Photonic Crystal Cavities Based On Silicon-on-insulator

Lin Zhang, Zhongyuan Fu, Fujun Sun, Chao Wang, Huiping Tian
Beijing University of Posts and Telecommunications

P2-021 A Reflected Probe Method For Detecting The Ultra-weak Magnetic Field Using The Atomic SERF Magnetometer

Hongwei Cai, Ming Ding, Yang Li, Xuejing Liu, Weiren Wu
Beihang University

P2-022 Brillouin Gain Spectrum Shape Manipulation For Enlarging Measurement Range Of Dynamic Strain Using Slope-assisted BOTDA

Guangyao Yang, Xinyu Fan, Bin Wang, Zuyuan He
Shanghai Jiao Tong University

P2-023 Birefringence Variation Independent Fiber-Optic Current Sensor Based On Polarization Diversity And Real-Time SOP Measurement

Yinping Liu, Lin Ma, Jiangbing Du, Zuyuan He
Shanghai Jiao Tong University

P2-024 Upconversion Nanoparticle-based Background-free Sensor for Ultrasensitive Detection of Mercury Ions

Shuai Ruan, Wei Ren, Tim Zhao, Victoria Peddie, Dayong Jin, Heike Ebendorff-Heidepriem, Yinlan Ruan
University of Adelaide

P2-025 Fundamental Characteristics Of Double-Reflection Waveguide-Type Kretschmann-Structure Surface Plasmon Resonance (SPR) Sensor For High-Sensitivity And Wide-Measurable Range

Hiroki Tansho, Shota Konuma, Yuichi Matsushima, Hiroshi Ishikawa, Katsuyuki Utaka
Waseda University

P2-026 Measuring Two-dimension Scattering Pattern Of Marine Submicron Particles

Wanyan Wang, Kecheng Yang, Wei Li, Xia Min, Man Luo1, Wenping Guo
Huazhong University of Science and Technology

P2-027 The Analysis And Optimization Of The Nano-pattern By RCWA Simulation

Jin Seo, Jung Gun Nam
SamsungDisplay

P2-028 Quantum Enhancement Of Signal-to-noise Ratio With Heralded Noiseless Linear Amplifier

Jie Zhao, Josephine Dias, Jingyan Haw, Mark Bradshaw, Remi Blandino, Thomas Symul, Timothy Ralph, Ping Koy Lam, Syed Assad
Australian National University

P2-029 Absorption Line Measurement Of $^{12}\text{C}^{18}\text{O}_2$ Using A Broadly Tunable DFB Laser Diode Array

Ryutaro Nagai, Kazuyoku Tei, Shigeru Yamaguchi
Tokai University

P2-030 Overcoming The Near-Infra-Red Spectral Range Limit With Fabry-Perot Silicon Microcavity Enabled By Slotted Micromirrors
Mazen Erfan, Yasser Sabry, Frédéric Marty, Diaa Khalil, Yamin Leprince-Wang, Tarik Bourouina
Université Paris-Est

P2-031 Controlling Laser Power Irradiation Of Pulsed Laser Deposition For Fabricating High Resistivity NdF₃ Thin Film
Ryo Yamazaki, Kentaro Suzuki, Shoei Otani, Shingo Ono
Nagoya Institute of Technology

P2-032 Phase Shifting Interferometer Of A Femtosecond Laser For Optical Surface Measurement
Yue Wang, Shilin Xiong, Guan hao Wu
Tsinghua University

P2-033 Brillouin Gain/Loss Spectrum Distortions in Single-Tone Based BOTDA Sensors
Chuanzong Xue, Sheng Wang, Zhisheng Yang, Wenqiao Lin, Xiaobin Hong, Jian Wu
Beijing University of Posts and Telecommunications

P2-034 The High Sensitive Glycoprotein Detection With Boronic Acid Sandwich Assay By Fiber-optic SPR Sensors
Siyu Qian, Huizhen Yuan, Yang Zhang, Wei Peng
Dalian University of Technology

P2-035 Overview Of High Temperature Fibre Bragg Gratings
K. Cook, J. Canning, S. Bandyopadhyay, M. Lancry, C. Martelli, T. Jin, A. Csipkes
University of Technology Sydney

P2-036 Surface Characterization Of A Micro-patterned Sample Using Simultaneous Dual-wavelength Interferometry With Compensation Of Chromatic Aberration
Dahi Ghareab Abdelsalam Ibrahim
National Institute of Standards

P2-037 Quadrature Phase-shifting Interferometry For Surface Micro-topography Measurement
Dahi Ghareab Abdelsalam Ibrahim
National Institute of Standards

P2-038 Quantum Tomography of a Nonlinear Photonic Circuit by Classical Sum-frequency Generation Measurements
Francesco Lenzini, Alexander N. Poddubny, James Titchener, Paul Fisher, Andreas Boes, Sachin Kasture, Ben Haylock, Matteo Villa, Arnan Mitchell, Alexander S. Solntsev, Andrey A. Sukhorukov, and Mirko Lobino
Griffith University

P2-039 Adaptive Quantum Receiver For PPM And Multi-pulse PPM Weak Signal Discrimination
Tian Chen, Bing Zhu
University of Science and Technology of China

P2-040 Optimal Detection Of Broadband Squeezed Vacuum Pulses Generated By Nonlinear Fiber Optics
Masaya Tomita, Aruto Hosaka, Tsubasa Otsuka, Fumihiko Kannari
Keio University

P2-041 Characterization of Frequency-Domain Photon-Number Statistics of Supercontinuum Pulses
Aruto Hosaka, Masaya Tomita, Tsubasa Otsuka, Fumihiko Kannari
Keio University

P2-042 Design Of Multistage Quantum Optical Pulse Gate And Its Application To Quantum Simulator
Tsubasa Otsuka, Aruto Hosaka, Masaya Tomita, Fumihiko Kannari
Keio University

P2-043 High Time-Resolved Emission Lifetime Measurement Of Silicon Vacancy In Diamond
Youying Rong, Jianhui Ma, Botao Wu, Haifeng Pan, E Wu
East China Normal University

P2-044 Amplitude-modulated Magnetization Dynamics With Ultracold Two-electron Atoms In Optical Lattices
Shaobing Zhu, Jun Qian
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

P2-045 Optical Trap Of A Nanoparticle In Ultra-high Vacuum Towards A Mixture Of A Nanoparticle And A Laser Cooled Gas
Daisuke Akamatsu
National Metrology Institute of Japan

P2-046 Wavelength Tunable Source Of Correlated Photon Pairs Based On Photonic Crystal Fiber
Jie Su, Liang Cui, Xiaoying Li
Tianjin University

P2-047 Quantum Enhanced Joint Measurement Of Two Conjugate Observables With An SU(1,1) Interferometer
Yuhong Liu, Jiamin Li, Nan Huo, Xiaoying Li, Z. Y. Ou
Tianjin University

P2-048 Development Of An 8-branch Optical Frequency Comb For Laser Frequency Stabilization
Yusuke Hisai, Daisuke Akamatsu, Takumi Kobayashi, Sho Okubo, Hajime Inaba, Feng-Lei Hong, Kazumoto Hosaka
Yokohama National University

P2-049 Quantum Interference Of The Non-degenerate Photon Pairs In Silicon Nanowire
Jie Shao, Yu Yu, Yi Wang
Huazhong University of Science and Technology

P2-050 Entanglement Sudden Death Of Higher Rank Boundary Qubit-qudit States
K. G. Paulson
Pondicherry University

P2-051 Single-Photon Detection In 900 nm Range Using InGaAs/InP Single-Photon Avalanche Diode
Riki Takahata, Naoto Namekata, Akiko Tada, Shuichiro Inoue
Nihon University

P2-052 Silicon Nitride Double-tip Fiber-to-waveguide Edge Couplers At Visible Wavelengths
Jun Rong Ong, Thomas Ang, Gandhi Alagappan, Chu Hong Son, Soon Thor Lim, Ching Eng Png
Institute of High Performance Computing, A*STAR

P2-053 Single-photon Buffer At A Telecommunication Wavelength Using A Fiber-optic Switch
Akiko Tada, Naoto Namekata, Shuichiro Inoue
Nihon University

P2-054 Quantum Secure Authentication System Experiment Using Adaptive Optics
Masahito Oya, Naoto Namekata, Jun Nishikawa, Shuichiro Inoue
Nihon University

P2-055 An Inversionless Superradiance Of Polarized Atoms
Junki Kim, Daeho Yang, Seung-hoon Oh, Kyungwon An
Seoul National University

P2-056 Sub-Megahertz Linewidth Single Photon Source Suitable For Quantum Memories
Markus Rambach, Wing Yung Sarah Lau, Aleksandrina Nikolova, Till Weinhold, Andrew White
University of Queensland

P2-057 Designing Broadband And Ultra Broadband Half Wave Plate By Composite Pulse Control
Wei Huang, Elica Kyoseva
Singapore University of Technology and Design

P2-058 A Compact And Low Phase Noise Laser System Using Phase Modulation And A Filtering Cavity
Ki-Se Lee, Sang-Bum Lee, Sang Eon Park, Taek Yong Kwon, Jaewan Kim
Myongji University

P2-059 Design Of A Compact Diode Laser System For Dualspecies Atom Interferometry With Rubidium And Potassium In Space
Oliver Anton, Klaus Döringshoff, Vladimir Schkolnik, Simon Kanthak, Christian Kürbis, Jens Große, Michael Elsen, André Wenzlawski, Moritz Mihm, Patrick Windpassinger, Markus Krutzik, Achim Peters
Humboldt-Universität zu Berlin

P2-060 Quantum Interference In The Presence Of A Resonant Medium
Dmitry A. Kalashnikov, Elizaveta V. Melik-Gaykazyan, Alexey A. Kalachev, Yefeng Yu, Arseniy I. Kuznetsov, Leonid A. Krivitsky
Data Storage Institute, A*STAR

P2-061 Surpassing The No-cloning Limit With A Heralded Hybrid Linear Amplifier
Jing Yan Haw, Jie Zhao, Josephine Dias, Syed M Assad, Mark Bradshaw, Remi Blandino, Thomas Symul, Timothy C Ralph, Ping Koy Lam
Australian National University

P2-062 Semiconductor-Superconductor Photon Bell-state Analyzer
Evyatar Sabag, Shlomi Bouscher, Raja Marjeh, Alex Hayat
Technion Institute of Technology, Israel

P2-063 On Photonic Spectral Entanglement Improving Quantum Communication
Karolina Sedziak, Mikołaj Lasota, Piotr Kolenderski
Nicolaus Copernicus University

P2-064 Demonstration Of A GaN-based Phototransistor Fabricated By Using Silicon Diffusion
Pinghui Sophia Yeh, Teng-Po Hsu, Yen-Chieh Chiu, Jung-Shan Liou, Sian Yang, Cheng-You Wu
National Taiwan University of Science and Technology

P2-065 Photoluminescence And Electroluminescence Properties Of GaN-based LEDs With Defective Regions At Low Excitation Levels
Jongseok Kim, Seungtaek Kim, HyungTae Kim, Sung Bok Kang, Hoon Jeong, Hyundon Jung
Korea Institute of Industrial Technology

P2-066 High-gain dual-band deep ultraviolet Schottky-barrier photodetector based on Au/ α -Ga₂O₃/ZnO isotype heterostructure with avalanche multiplication
Xuanhu Chen, Yang Xu, Dong Zhou, Sen Yang, Lina Cheng, Fangfang Ren, Hai Lu, Kun Tang, Shulin Gu, Rong Zhang, Youdou Zheng, Jiandong Ye
Nanjing University

P2-067 Integrated Photonic Platform Based On Semipolar InGaN/GaN Multiple Section Laser Diodes
Chao Shen, Changmin Lee, Tien Khee Ng, James S. Speck, Shuji Nakamura, Steven P. DenBaars, Boon S. Ooi
King Abdullah University of Science and Technology (KAUST)

P2-068 Gains And Losses In PbS Quantum Dot Solar Cells With Submicron Periodic Grating Structures
Yulan Fu, Rene Lopez
Beijing University of Technology

P2-069 Superior Wafer-scale Uniformity In A Laser Interference Lithography System Equipped With A Refractive Beam Shaper
Jia-Jin Lin, Han-Jung Chang, Ping-Chien Chang, Yung-Jr Hung
National Sun Yat-sen University

P2-070 Visible Wavelength Metasurfaces By Crystals Silicon
Juntao Li, Zhenpeng Zhou, Jin Liu
Sun Yat-sen University

P2-071 Optical Diode Based On Cascaded Nanocavities
Chao Li, Yonglu Hu, Daoliu Liu, Bo Wang, Junfang Wu
South China University of Technology

P2-072 Investigation Of Symmetry Breaking In A Side-coupled WG-resonator System
Daoliu Liu, Yonglu Hu, Bo Wang, Junfang Wu, Chao Li
South China University of technology

P2-073 1×7 optical splitters in a silicon photonic crystal
Xiyao Chen
Minjiang University

P2-074 Characteristic Analysis and Comparison of Two Kinds of Hybrid Plasmonic Annular Resonators
Jie Zhou, Feifei Shi, Taojie Zhou, Kebo He, Bocang Qiu, Zhaoyu Zhang
Peking University Shenzhen Graduate School

P2-075 Color Detector Based On Metal/Insulator/Metal Structure
Young Jin Lee, Seokhyeon Hong, Kihwan Moon, Soon-Hong Kwon
Chung-Ang University

P2-076 Asymmetric Electromagnetic Wave Transmitter Based On One-way Excitation Of Surface Plasmon Polaritons In Gradient Metasurface
Yonghong Ling, Lirong Huang, Tongjun Liu, Yali Sun, Jing Luan, Wei Hong, Gang Yuan
Huazhong University of Science and Technology

P2-077 Perspective On Coupling Mechanism In Bilayered Self-Complementary Metamaterials
Tongjun Liu, Lirong Huang, Yonghong Ling, Yali Sun, Jing Luan, Wei Hong, Weihua Sun
Huazhong University of Science and Technology

P2-078 Dark Mode Radiation By Coupled Resonators
Suyeon Lee, Q-han Park
Korea University

P2-079 Conditions For The Ultrathin Perfect Absorbers In The Visible Spectral Range
Gwanghun Jung, Q-Han Park
Korea University

P2-080 Non-integer Chirped Gratings In Broadband Optical Applications
Mandana Jalali, Hamid Nadgaran
Shiraz University

P2-081 Hybrid Dielectric-metal Lumpy Nanoparticles For Light Trapping In Solar Cells
Boyuan Cai, Xiaocong Yuan
Shenzhen University

P2-082 Improved Extraordinary Transmission Of Light Through A Single Nano-slit By Exciting The Hybrid State Of Tamm And Surface Plasmon Polaritons
Yunqing Lu, Chen Xinyi , Xu Min , Xu Ji, Wang Jin
Nanjing University of Posts and Telecommunications

P2-083 Deep Super-oscillatory Focusing With Metasurfaces
Guanghui Yuan, Katrine Rogers, Edward T. F. Rogers, Nikolay I. Zheludev
Nanyang Technological University

P2-084 Broadband Superchiral Hot Spot Of Plasmonic Dimer Structures
Po-Wen Tang, Chao-Yi TAI
National Central University

P2-085 Fiber-Optic Plasmonic Sensor Based On Heavily Doped Molybdenum Trioxide Nanoflakes
Mengying Zhang, Yi He, Zhe Wang, Lei Wei
Nanyang Technological University

P2-086 Organic Edge-Emitting Photonic Crystal Laser By Photoexcitation
Changwei Li, Xiao Chen, Yuanyuan Cai, Tingting Zhao, Xiaoqing Wang, Xiaoyan Jiao, Xiangyu Xie, Yiquan Wang
Minzu University of China

P2-087 Enhanced Radiative Heat Transfer Between Grooved Metal Plates
Jin Dai, Sergey A. Dyakov, Sergey I. Bozhevolnyi, Min Yan
KTH – Royal Institute of Technology

P2-088 Experimental Observation Of Electromagnetically Induced Transparency-like Transmission In A Silicon Based Ring-bus-ring-bus System
Zhenzheng Wang, Qingzhong Huang, Qi Lu, Jinsong Xia
Huazhong University of Science and Technology

P2-089 Mode (de)multiplexers With Tapers Based On Shortcuts To Adiabaticity
Defen Guo, Yejin Zhang, Tao Chu
Institute of Semiconductors, Chinese Academy of Sciences

Wed, 02.08.2017

- P2-090 Gold Circular Arc Aperture Array Deposited On A Fiber Endface For Refractive Index Sensing**
Gongli Xiao, Jianqing Li, Hongyan Yang
Macau University of Science and Technology
- P2-091 Silver Nanorod Arrays As A Surface Enhanced Raman Scattering Substrate For Synthetic Sweetener Detection In Mouthwash**
Xunkai Duan, Yue Yao, WenWang, Lulu Qu, Caiqin Han, Yiping Zhao
Jiangsu Normal University, Xuzhou
- P2-092 Analysis On The Surface-enhanced Circular Dichroism Spectroscopy**
Seojoo Lee, Seokjae Yoo, Q-Han Park
Korea University
- P2-093 Efficiency Enhancement Of Heterojunction With Intrinsic Thin-Layer Silicon Solar Cell Using Plasmonics Scattering Of Indium Nanoparticles**
Han-Chung Huang, Wen-Jeng Ho, Su-Han Weng, Jheng-Jie Liu, Chen Shih-Wei, Chang-Hong Shen
National Taipei University of Technology
- P2-094 Transparent Silver Nanowire Electrodes For III-V Compound Semiconductor Solar Cells**
Jiyeon Nam, Sungjin Jo
Kyungpook National University
- P2-095 Dual-band Optical Filter Based On A Single Microring Resonator Embedded With Nanoholes**
Zecen Zhang, Geok Ing Ng, Haodong Qiu, Xin Guo, Mohamed Sadi Roufied, Chongyang Liu, Hong Wang
Nanyang Technological University
- P2-096 Active Deflection Angle Switching Via The Phase Change Of $\text{Ge}_2\text{Sb}_2\text{Te}_5$ Nanorod Metasurface**
Chulsoo Choi, Sun-Je Kim, ByoungHo Lee
Seoul National University
- P2-097 Photonic Crystal Surface Emitting Lasers With InAs/InGaAs/GaAs Quantum Dots**
Tzu-Shan Chen, Zong-Lin Lee, Ming-Yang Hsu, Gray Lin, Sheng-Di Lin
National Chiao Tung University
- P2-098 Tamm Plasmon Polaritons in Photonic Quasi-crystals**
Mukesh Kumar Shukla, Partha Sona Maji, Ritwick Das
National Institute of Science Education and Research, India
- P2-099 Sub-Wavelength Grating Slot Waveguides In SOI For Highly-Sensitive Ring Resonators**
Krishna Twayana, Mutasem Odeh, Paulo Moreira, Marcus S. Dahlem
Masdar Institute of Science and Technology
- P2-100 Integrated Silicon Hollow Core Cavities For Light Matter Interactions**
Weiwei Zhang, Samuel Serna, Xavier Le Roux, Laurent Vivien, Eric Cassan
Université Paris-Saclay
- P2-101 Photonic Crystal Cavity Modes Enhanced Carbon Nanotube Light Emission**
Weiwei Zhang, Elena Durán-Valdeiglesias, Samuel Serna, Carlos Alonso-Ramos, Xavier Le Roux, Arianna Filoramo, Laurent Vivien, Eric Cassan
Université Paris-Saclay
- P2-102 Design and Characteristics of a Highly Sensitive Refractive Index Sensor based on a Grating-Assisted Strip Waveguide Directional Coupler**
Parvinder Kaur, M. R. Shenoy
Indian Institute of Technology Delhi
- P2-103 Fabrication Of The Buried Grating**
Quan Liu, Jianhong Wu, Peiliang Guo
Soochow University
- P2-104 100-m Field Trial For 5G Wireless Backhaul Based On Circular (7, 1) 8-QAM Modulated Outdoor Visible Light Communication**
Jiaqi Zhao, Mengjie Zhang, Shangyu Liang, Jin Ding, Fumin Wang, Xingyu Lu, Can Wang, Nan Chi
Fudan University
- P2-105 Dual-Polarization OFDM/OQAM-PON With Efficient Channel Equalization Methods**
Bangjiang Lin, Xuan Tang, Yiwei Li, Shihao Zhang, Zabih Ghassemlooy
Haixi Institutes, Chinese Academy of Sciences
- P2-106 25Gbps Two-Dimensional Trellis Coded PAM4 TDM-PON Transmission Based On 10G Optics**
Yan Fu, Da Feng, Meihua Bi, Haiyun Xin, Kuo Zhang, Mingxia Zhang, Hao He, Weisheng Hu
Shanghai Jiao Tong University
- P2-107 Resource Allocation In Software-Defined Optical Networks Secured By Quantum Key Distribution**
Yuan Cao, Yongli Zhao, Xiaosong Yu, Hua Wang, Chuan Liu, Binglin Li, Jie Zhang
Beijing University of Posts and Telecommunications
- P2-108 Micro Edge Cloud Architecture with Elastic Optical Network for Resource Virtualization in 5G**
Linkuan He, Hui Yang, Yongli Zhao, Wei Bai, Ao Yu, Hongyun Xiao, Jie Zhang
Beijing University of Posts and telecommunications
- P2-109 Accurate And Simple Method To Predict And Monitor Performance Of Coherent Optical Transceiver**
Qiang Wang, Massimiliano Salsi, Andre Vovan, Jon Anderson
Juniper Networks
- P2-110 Experimental Demonstration Of Bidirectional IDMA For Visible Light Communication**
Weiping Ye, Jian Chen, Bangjiang Lin, Xuan Tang, Zabih Ghassemlooy
Nanjing University of Posts and Telecommunications
- P2-111 Improving The Survivability Of Elastic Optical Datacenter Networks For Cloud Services With Joint Spectrum And Storage Resource Backup**
Xin Li, Bingli Guo, Shan Yin, Shanguo Huang, Xiaojian Zhang, Pengfei Yu, Peng Wu
Beijing University of Posts and Telecommunications
- P2-112 Optical Steganography Oriented Routing And Resource Allocation Approach For Stealth Services In Optical Transport Networks**
Ying Tang, Xin Li, Bingli Guo, Shanguo Huang, Xiaojian Zhang, Pengfei Yu, Peng Wu
Beijing University of Posts and Telecommunications
- P2-113 An Optical Fiber Transport System Based on a Novel Bidirectional OADM**
Ching-Hung Chang, Dong-Yi Lu, Tsung-Ying Yang, Zih-Hao Fu, Qing-Quan Liu, Zhi-Ming Zhu
National Chiayi University
- P2-114 A Two-stage Energy-saving Scheme Based On Downstream And Upstream Matching For Passive Optical Network**
Yike Yu, Hao He, Wei Wang, Weisheng Hu
Shanghai Jiao Tong University
- P2-115 A Novel Method For PAM-4 Signal Quality Estimation Using Asynchronous Eye Diagram Reconstruction**
Shangyi Lin, Hen-Wai Tsao, San-Liang Lee
National Taiwan University
- P2-116 A Universal Pre-Compensation Method For OFDM-based Analog Fiber-wireless Fronthaul System**
Weikang Jia, Meihua Bi, Xin Miao, Weisheng Hu
Shanghai Jiao Tong University
- P2-117 Experimental Demonstration Of MCF Enabled Bidirectional Colorless CAP-PON System With Wavelength Reuse Technique**
Jiale He, Lei Deng, Borui Li, Ming Tang, Songnian Fu, Deming Liu, Perry Ping Shum
Huazhong University of Sci. & Tech
- P2-118 Suppression Of Raman Noise In Coexistence For A Quantum Channel With Classical Channels**
Yong-Jun Jeong, Chang-Hee Lee
Korea Advanced Institute of Science and Technology
- P2-119 Probability-based Clipping-induced 3-bit Resolution Reductions Of Full Parallel 128-point FFTs For Coherent Optical OFDM Receivers**

Weilong Wang, Junjie Zhang, Junjie Peng, Yaqian Tian, Youxiang Qin, Qianwu Zhang
Shanghai University

P2-120 A Cost-effective And Concurrent All-optical VPN In Digital Filter Multiple Access PON Systems
Xiaoling Zhang, Chongfu Zhang, Chen Chen, Wei Jin, Kun Qiu
University of Electronic Science and Technology of China

P2-121 Investigation On Adaptive Equalization Techniques For 10G-Class Optics Based 100G-PON System
Junqi Xia, Tingting Xu, Zhengxuan Li, Yingchun Li, Qianwu Zhang, Sujuan Huang, Min Wang
Shanghai University

P2-122 Transmission Of 28-Gb/s NRZ, Duobinary And PAM-4 Signals Using O-band Directly Modulated Laser In 100G-EPON
Xin Miao, Meihua Bi, Yan Fu, Weisheng Hu
Shanghai Jiao Tong University

P2-123 White Light Phosphor-based Blue Laser Diode Illumination And Communication Using Bit-Loading OFDM
Liang-Yu Wei, Chin-Wei Hsu, Guan-Hong Chen, Chien-Hung Ye, Calvin Chun-Kit Chan, Chi-Wai Chow
National Chiao Tung University

P2-124 Machine Learning For Intrusion Detection In Dynamic Optical Networks
Yongli Zhao, Haoran Chen, Chunhui Wang, Xiaosong Yu, Jiwen Lian, Hongfa Li, Yi Lin, Jie Zhang
Beijing University of Posts and Telecommunications

P2-125 Time Transfer System Based On Femtosecond Laser
Huan Zhao, Nuanrang Wang, Shengkang Zhang, Tengfei Wu, Zhenyu Zhu, Fan Shi, Hongbo Wang, Xueyun Wang
Beijing Institute of Radio Metrology and Measurement

P2-126 Analysis On Dynamic Characteristics Of Reflective Semiconductor Optical Amplifier By Direct Modulation For OFDM-PON Application
Yueting Xu, Rujian Lin, Yingxiong Song, Qianwu Zhang
Shanghai University

P2-127 Systematic Evaluation Of CPRI Signal Quality Under Superimposed AMCC Signal
Goji Nakagawa, Kyosuke Sone, Setsuo Yoshida, Shoichiro Oda, Motoyuki Takizawa, Yoshio Hirose, Takeshi Hoshida
Fujitsu Limited

P2-128 Erbium-doped Fiber Laser Passively Mode-locked By Three-dimensional Graphene Saturable Absorber Functioned With Evanescent Field Interaction
Ye Yang, Arokiaswami Alphones
Nanyang Technological Univ

P2-129 A Joint Fairness-aware And Fragmentation-reduction Spectrum Allocation Scheme In Elastic Optical Networks
Hongzhou Chen, Hui Yang, Bin Luo, Lianshan Yan
Southwest Jiaotong University

P2-130 Sparse Volterra Model Based On Single Side-Band Optical NPAM-4 Direct-Detection System
Hao Ying, Mingyue Zhu, Jing Zhang, Xingwen Yi, Kun Qiu
University of Electronic Science and Technology of China

P2-131 Experimental Evaluation Of Underwater Wireless Optical Transmission Link Employing 4-Fold Orbital Angular Momentum (OAM) Multicasting
Yifan Zhao, Jian Wang
Huazhong University of Science and Technology

P2-132 Demonstration Of Underwater Wireless Optical Communication Using Directly Modulated Green Laser And Different Modes Subjected To Bubbles
Yifan Zhao, Jian Wang
Huazhong University of Science and Technology

P2-133 Mitigation Of Kerr-induced Nonlinear Distortion By Superimposing The Sidebands Of A Multiband CAP Signal
Qiulin Zhang, Bofang Zheng, Chester Shu

The Chinese University of Hong Kong

P2-134 Evolving Optical Networks For Latency-Sensitive Smart-Grid Communications Via Optical Time Slice Switching (OTSS) Technologies
Zhizhen Zhong, Nan Hua, Zhu Liu, Wenjing Li, Yanhe Li, Xiaoping Zheng
Tsinghua University

P2-135 Effect Of Crosstalk On Component Savings In Multi-core Fiber Networks
Md Nooruzzaman, Toshio Morioka
Technical University of Denmark

P2-136 Nonamplified 100Gbps Doubly Differential QPSK Optical Signal Transmission Over 80 Km SSMF Without Carrier Recovery
Tingting Zhang, Christian Sanchez, Abdallah Ali, Andrew Ellis
Aston University

P2-137 Power Consumption With Distance-Adaptive Load Balancing In Flexible Bandwidth Optical Networks
Jie Zhang, Min Chen, Bowen Chen, Xiaosong Yu
Soochow University

P2-138 Demonstration Of Extreme High-Order Spatial Modulations With Up To 1024 Bits Per Symbol For Visible-Light Communication Links Based On Ultra-High-Density Spatial Array Polarization Encoding
Jian Wang, Yifan Zhao
Huazhong University of Science and Technology

P2-139 Transmission Of 56-Gb/s PAM-4 Signal Over 2.3 km Of MMF Using Mode-Field Matched Center-Launching Technique
Minsik Kim, Byung Gon Kim, Hoon Kim, Y. C. Chung
Korea Advanced Institute of Science and Technology

P2-140 28-Gbps VCSEL-based Optical Access Network With >14-dB Power Budget Using 10G-Class Optical Components
Tianwai Bo, Byung Gon Kim Kim, Hoon Kim
Korea Advanced Institute of Science and Technology

P2-141 Hybrid Microcavity Fiber Fabry-Pérot Interferometer For Simultaneously Measurement Of Humidity And Temperature
Yu-Wei Chang, Cheng-Ling Lee, Chung-Fen Lee, Jen-Yao Chang
National United University Miaoli

P2-142 Hybrid Visible Light Communications (VLC) And PLC Sytem
Liwei Yang, Junwei Li, Junning Zhang
China Agricultural University

P2-143 Performance Evaluation Of Wavelength Path Relocation With IoT Devices In AWG-STAR Network
Yudai Tomioka, Takashi Kojima, Osanori Koyama, Hiroaki Maruyama, Takumi Niihara, Makoto Yamada
Osaka Prefecture University

P2-144 Experimental Demonstration Of Time-slot Coding Scheme For Multiple Access In High-speed Optical Wireless Communications With Imaging Receiver
Tian Liang, Ke Wang, Christina Lim, Elaine Wong, Tingting Song, Ampalavanapillai Nirmalathas
University of Melbourne

P2-145 Performances Of RoF-Based Mobile Fronthaul Networks For 5G Wireless System Implemented By Using DML And EML
Byunggon Kim, Sunghyun Bae, Hoon Kim, Yun Chur Chung
Korea Advanced Institute of Science and Technology

P2-146 RZ-DPSK Optical Modulation For Free Space Optical Communication By Satellites
K.Elaiyoubi, A.Rissons, J.Lacan, L.Saint Antonin, M.Sotom, A.Le Kernec
Institut Supérieur de l'Aéronautique et de l'Espace

P2-147 Reliability Enhancement By A Joint Optimization Of Elastic Optical Path Allocation Methods
Shinsuke Fujisawa, Baku Yatabe, Hitoshi Takeshita, Takefumi Oguma, Akio Tajima
NEC Corporation

P2-148 Design And Implementation Of Photonic Frame Wrapper For Photonic Packet Switching In Data Centers
Yunjoon Kim, Yongwook Ra

Electronics and Telecommunications Research Institute

P2-149 Experimental Demonstration Of Visible Light Communications With OFDM/OQAM Modulation

Bangjiang Lin, Xuan Tang, Yiwei Li, Shihao Zhang, Zabih Ghassemlooy
Haixi Institutes, Chinese Academy of Sciences

P2-151 Single Subcarrier Gold Sequences Modulated Timing Synchronization For Upstream OFDMA-PON

Xizhen Peng, Acai Tan, Tingting Xu, Linghuan Liang, Youxiang Qin, Yingchun Li
Shanghai University

P2-152 Linearly Interpolation-based Almost Blind Phase Noise Suppression Method For CO-OFDM Systems

Zhaopeng Xu, Chuanchuan Yang, Zhongwei Tan
Peking University

P2-153 Cyclic-Spectrum Pulse Shaping For Increased Nonlinear Tolerance

Valery Rozental, Benjamin Foo, Bill Corcoran, Arthur Lowery
Monash University

P2-154 A Crosstalk Mitigation Algorithm For OFDM-Carrying OAM Multiplexed FSO Links

Tengfen Sun, Minwen Liu, Zhengxuan Li, Yingchun Li, Qianwu Zhang, Min Wang
Shanghai University

P2-155 An In-Band OSNR Monitoring Technique For PM-Nyquist-WDM Coherent System In Presence Of Fiber Nonlinearities

Peiyu Zhang, Lixia Xi, Jin Yuan, Xianfeng Tang, Xiaoguang Zhang
Beijing University of Posts and Telecommunications

P2-156 Carrier Phase Estimation For 53.6 Gbaud QPSK Signal Encoded By Low-Rate FEC

Ryosuke Matsumoto, Keisuke Matsuda, Naoki Suzuki
Mitsubishi Electric

P2-157 Unrepeated Transmission Of 28Gbaud PM-16QAM Over 420km Enabled By Digital Nonlinear Pre-compensation

Syed Muhammad Bilal, Kseniia Goroshko, Hadrien Louchet, Igor Koltchanov, Andre Richter
VPIphotonics

P2-158 Simultaneous Compensation Of Waveform Distortion Caused By Chromatic Dispersion And SPM Using A Three-layer Neural-Network

Owaki Shotaro, Nakamura Moriya
Meiji University

P2-159 High Accuracy And Non-pilot Aided Sampling Frequency Offset Estimation Algorithm In Multi-IFoF Fronthaul

Mingxia Zhang, Haiyun Xin, Meihua Bi, Longsheng Li, Weikang Jia, Hao He, Weisheng Hu
Shanghai Jiao Tong university

P2-160 Adaptive Modulation-Enabled DD-OFDM Multicore Fiber Transmission Impaired By Intercore Crosstalk

Tiago Alves, Adolfo Cartaxo, Ben Puttnam, Ruben Luís, Yoshinari Awaji, Naoya Wada
Instituto de Telecomunicações

Poster Session 3

Time: 10:15am – 11:45am

Date: 3 Aug 2017

P3-001 Multi-Wavelength Nearly Transform-Limited Gaussian Optical Pulse Generation Using Time Lens
Qiang Wang, Wei Zhang, Jian Xiong
Beijing Institute of Remote Sensing Equipment

P3-002 Non-Orthogonal Multiple Access In Visible Light Communications With Adaptive Loading
Xun Guan, Yang Hong, Chun-Kit Chan
The Chinese University of Hong Kong

P3-003 Analysis of Nonlinear Interference Noise In Flexible Optical Networks
Stefanos Dris, Hadrien Louchet, Andre Richter
VPIphotonics

P3-004 Vector-Based Equalization Method To Mitigate Core-to-Core Q-Difference For Space-Division Multiplexing Transmission
Hidenori Takahashi, Takehiro Tsuritani
KDDI Research, Inc.

P3-005 A Modified Adaptive Least Mean Square Frequency-Domain Algorithm For Equalization Of Polarization Division Multiplexed-Mode Division Multiplexed Fiber Transmission
Shuangxi Zhang, Jianfei Liu, Xiangye Zeng, Jia Lu, Ying Wei, Mengjun Wang
Hebei University Of Technology

P3-006 Experimental Investigation On Impacts Of PAPR Reduction Schemes In OFDM-based VLC Systems
Huimin Lu, Yang Hong, Lian-Kuan Chen, Jianping Wang
University of Science and Technology Beijing

P3-007 100/150/200 Gb/s Real-Time Demonstration Of SD-FEC Employing MSSC-LDPC Codes For Flexible Coherent Transport
Kenji Ishii, Keisuke Dohi, Takafumi Fujimori, Kenya Sugihara, Yoshikuni Miyata, Soichiro Kametani, Susumu Hirano, Kazuo Kubo, Hideo Yoshida, Wataru Mastumoto, Takashi Sugihara
Mitsubishi Electric Corporation

P3-008 Effect Of Number Of Neurons Of A Neural-Network On Compensation Performance Of SPM Non-linear Waveform Distortion.
Yuta Fukumoto, Syotaro Owaki, Moriya Nakamura
Meiji University

P3-009 SPM And Phase-Noise Compensation Using A Polarization-Multiplexed And Intensity-Modulated Pilot-Carrier
Noriki Sumimoto, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-010 Novel Twin-SSB-SC Method Using A DP-QPSK Modulator
Shogo Kashiwagi, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-011 Machine-learning Detector Based On Support Vector Machine For 122-Gbps Multi-CAP Optical Communication System
Sun Lin, Du Jiangbing, Chen Guoyao, He Zuyuan, Chen Xia, T. Reed Graham
Shanghai Jiao Tong University

P3-013 Signal Degradation From Optical Mach-Zehnder Modulators In The Presence Of Electronic-Distortion Compensation
Xiatao Huang, Xingwen Yi, Jing Zhang
University of Electronic Science and Technology of China

P3-014 SPM And Phase-Noise Compensation Using A Time-Division-Multiplexed And Intensity Modulated Pilot-Carrier
Yuya Takanashi, Shotaro Owaki, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-015 Analysis Of The Influence Of Mach-Zehnder Modulator On Photodiode Nonlinearity Measurement
Lijing Li, Jinnan Zhang, Ensen Wu, Yangan Zhang, Minglun Zhang, Xueguang Yuan, Yong Zuo
Beijing University of Posts and Telecommunications

P3-016 Amplitude And Time Skew Aware Equalization Of 100-Gb/s PAM4 Signals At The Transmitter Side For VCSEL-based Short Reach Optical Interconnects
You Yue, Zhang Wenjia, Sun Lin, Du Jiangbing, He Zuyuan
Shanghai Jiao Tong University

P3-017 Mitigation Of Cross-Phase Modulation In WDM Transmission By Mid-Link Electro-Optic Phase Conjugation
Masayuki Matsumoto, Ryohei Obata
Wakayama University

P3-018 Optical Vortex Propagation In Few-mode Rectangular Polymer Waveguides
Vladimir S. Lyubopytov, Arkadi Chipouline, Urs Zywietz, Boris Chichkov, Grigorii S. Sokolovskii, Nikita S. Averkiev, Grigorii M. Savchenko, Vladislav E. Bougrov
Technical University of Denmark

P3-019 Stokes-Space Modulation Format Identification For Coherent Optical Receivers Utilizing Improved Hierarchical Clustering Algorithm
Shengqiang Zhu, Xiong Wu, Jie Liu, Changjian Guo
Sun Yat-Sen University

P3-020 Long Haul Quasi-Single-Mode Transmission Using Raman Amplified Hybrid FMF/SSMF Span For CO-OFDM System
Liang Xu, Jingchi Cheng, Zhenhua Feng, Qiong Wu, Ming Tang, Songnian Fu, Deming Liu, Perry Ping Shum
Huazhong University of Science and Technology

P3-021 Unscented Kalman Filters For Polarization De-multiplexing In 3D Stokes Space
Xiang Qian, Yang Yanfu, Zhang Qun, He Qianwen, Yao Yong
Harbin Institute of Technology

P3-022 Training Symbol Assisted In-band OSNR Monitoring Technique Suitable For Long Haul Raman Amplified PDM-CO-OFDM System
Liang Xu, Qiong Wu, Zhenhua Feng, Ming Tang, Songnian Fu, Deming Liu, Perry Ping Shum
Huazhong University of Science and Technology

P3-023 Polarization Tracking And Channel Equalization With Radius-directed Recursive Least Squares Filter
Qun Zhang, Yanfu Yang, Qian Xiang, Qianwen He, Yong Yao
Harbin Institute of Technology

P3-024 Nonlinear Transmission And Phase Noise Tolerance Of A Novel Circular 16QAM Modulation Formats
Qianwen He, Yanfu Yang, Qun Zhang, Qian Xiang, Yong Yao
Harbin Institute of Technology

P3-025 Low-Complexity Equalizations for PAM4 in Next-Generation Access Network
Tang Xizi, Zhou Ji, Guo Mengqi, Qi Jia, Hu Fan, Qiao Yaojun, Zhang Lin, Lu Yueming
Beijing University of Posts and Telecommunications

P3-026 A Bidirectional Fiber-IVLLC And Fiber-Wireless Convergence System
Zih-Yi Yang, Ming-Te Cheng, De-Yu Chen, Jing-Kai Chi, Yun-Chieh Wang, Chung-Yi Li, Hai-Han Lu
National Taipei University of Technology

P3-027 Performance Investigation Of Polar Coded IM/DD Optical OFDM For Short Reach Interconnection
Jiafei Fang, Shilin Xiao, Ling Liu, Meihua Bi, Lu Zhang, Yunhao Zhang, Weisheng Hu
Shanghai Jiao Tong University

P3-028 Correlation Detection Scheme For Suppression Of Residual Dispersion In Nyquist OTDM
Morimoto Kosuke, Miyoshi Yuji, Kubota Hirokazu, Ohashi Masaharu
Osaka Prefecture University

P3-029 Study On Structural Parameters Of 2-LP Mode Ring-core Erbium-doped Fiber
Shota Miyagawa, Daiki Nobuhira, Osanori Koyama, Makoto Yamada, Hirota Ono
Osaka Prefecture University

- P3-030 Adaptive Equalization Combined With Maximum Likelihood Decoder For Trellis Code Modulation Based On High-order QAM Signals**
Koji Igarashi
Osaka University
- P3-031 Transmission Performance Of 3-bit/symbol Modulation Formats In Dispersion-Unmanaged Link**
Tomofumi Oyama, Hisao Nakashima, Yohei Koganei, Yuichi Akiyama, Takeshi Hoshida
Fujitsu Laboratories Ltd.
- P3-032 Iterative Decoding Between Feed-forward Carrier Recovery And FEC Decoding To Compensate For Laser Phase Noise**
Shuai Yuan, Koji Igarashi
Osaka University
- P3-033 Impact Of Transceiver Noise And Polarization Mode Dispersion On Digital Back-Propagation Performance**
Lidia Galdino
University College London
- P3-034 Transmission Scheme For Suppressing Nonlinear Signal Degradation Using Correlation Detection**
Masafumi Nakaoka, Yuji Miyoshi, Hirokazu Kubota, Masaharu Ohashi
Osaka Prefecture University
- P3-035 Quadrature-Amplitude-Coding PAM To Improve Bandwidth-Limitation Tolerance For Short-Reach Transmission**
Akira Masuda, Shuto Yamamoto, Yoshiaki Sone, Shingo Kawai, Mitsunori Fukutoku
NTT Network Service Systems Laboratories Nippon Telegraph and Telephone Corporation
- P3-036 High Dispersion Tolerant Optical Duobinary PAM4 Signal For Data Center Communications**
Yan Jih-Heng, Yeh Tzu-Yu, Chang Yen-Hsiang, Wu Yi-Chen, Feng Kai-Ming
National Tsing Hua University
- P3-037 High-Density Multi-Carrier Optical Transmission Using MIMO-Based Subcarrier Crosstalk Compensation**
Kohei Saito, Takashi Kotanigawa, Hideki Maeda
NTT Network Service Systems Laboratories Nippon Telegraph and Telephone Corporation
- P3-038 Four-Wave Mixing In Optical Phase Conjugation System With Pre-Dispersion**
Abdallah Ali, Christian Costa, Mohammad Al-Khateeb, Filipe Ferreira, Andrew Ellis
Aston University
- P3-039 RIN And Transmission Performance Improvement Using Second Order And Broadband First Order Forward Raman Pumping**
Md Asif Iqbal, Mingming Tan, Atalla El-Taher, Paul Harper
Aston University
- P3-040 Pump Phase-Locking Method Dependence Of ND-PSA Repeaters On Multi-Span Transmission Of QPSK-PCTWs In Dispersion Compensated Links**
Yasuhiro Okamura, Shingo Seki, Atsushi Takada
Tokushima University
- P3-041 Joint Tracking and Mitigation of Linear Dynamic Impairments Using a 3-stage Extended Kalman Filter in Fiber Channel**
Hengying Xu, Yiqiao Feng, Nannan Zhang, Linqian Li, Liangze Cui, Xiaoguang Zhang, Chenglin Bai
Beijing University of Posts and Telecommunications
- P3-042 Filters Embedded Optical Planar Splitter Connectable To Large Core Plastic Optical Fibers**
Václav Prajzler, Radek Maštera
Czech Technical University in Prague
- P3-043 A Hybrid Multiplexer For Wavelength/mode-division At 1310nm/1550nm**
Ke Ji, Heming Chen
Nanjing University of Posts and Telecommunications
- P3-044 Polarization-Diversified-Loop-Based Simple Tunable Zeroth-Order Fiber Multiwavelength Filter**
Yong Wook Lee, Dokyeong Kim
Pukyong National University
- P3-045 Polarization Filter Based On A Novel Photonic Crystal Fiber With A Gold-coated Air Hole By Using Surface Plasmon Resonance**
Shuqin Lou, Wan Zhang, Xin Wang
Beijing Jiaotong University
- P3-046 The Ethanol Gas Sensor By Using A Long Period Grating And ZnO-SnO₂ Materials**
Hung-Ying Chang, Wen-Fung Liu, Teng-Lung Wang, Ming-Yue Fu, Hsing-Cheng Chang, Yu-Liang Hsu
Feng-Chia University
- P3-047 Long-Period Fiber Grating Fabricated By 800 nm High-Intensity Femtosecond Laser Pulses**
Yani Zhang, Sicong Liu, Qiang Xu, Ya Zhao, Yaru Xi
Baoji University of Arts and Science
- P3-048 Fiber Bragg Grating Inscribed Independently In Multi-core Fibers With UV Laser**
Weihong Bi, Peng Jiang, Yuefeng Qi, Guangwei Fu, Xinghu Fu, Wa Jin, Neng Zhao
Yanshan University
- P3-049 Design Of Bend Resistant Large Mode Area Fiber With A Multi-layer Core**
Xin Wang, Shuqin Lou, Chenguang Tian
Beijing Jiaotong University
- P3-050 Highly Birefringent Anti-resonant Hollow Core Fiber For Low Loss THz Transmission**
Xin Wang, Shibo Yan, Shuqin Lou
Beijing Jiaotong University
- P3-051 Influence Of Stokes Pulse Power On SBS Fast Light In Optical Fibers**
Shanglin Hou
Lanzhou University Of Technology
- P3-052 Fabrication And Characterization Of A Single-ended Ultra-thin Spherical Microbubble**
Wang Guanjuan, Ruan Yinlan, Gui Zhiguo, Liao Changrui, Wang Yiping, Tang Jun
Shenzhen University
- P3-053 Variable Aperture In Far Field Technique To Measure The Effective Area For High Order Modes Of Few Mode Fibers**
Yusuke Koike, Masaharu Ohashi, Hirokazu Kubota, Yuji Miyoshi
Osaka Prefecture University
- P3-054 Longitudinal Structural Fluctuations Monitoring Of PBG And Anti-resonant Hollow-Core Fibers Based On Bulk And Surface Brillouin Scattering**
Sheng Liang, Xinzhi Sheng, Shuqin Lou, Xin Wang
Beijing Jiaotong University
- P3-055 Broadband Higher-Order Mode Pass Filter Based On Mode Conversion**
Kazi Tanvir Ahmmed, Hau Ping Chan, Binghui Li, Zhe Huang
City University of Hong Kong
- P3-056 Temperature Sensing Of Side-polished Optical Fiber With Polymer Nanostructure Cladding**
Li Tang, Yongchun Zhong, Jianhui Yu, Huihui Lu, Heyuan Guan, Zhe Chen
Jinan University
- P3-058 Design Of A High-Speed Electro-Absorption Modulator Based On Graphene And Microfiber**
Yongqiang Xie, Jiayuan Li, Ke Xu
Harbin Institute of Technology
- P3-059 Surface-Plasmon PCF-based Sensor In Hollow-Core Photonic Crystal Fiber**
Jung-Sheng Chiang, Jr-Shian Shie, Wei-Chih Wang, Nai-Hsiang Sun
I-Shou University
- P3-060 Point-by-point Inscription Of Bragg Gratings In A Multicore Fibre**
Martynas Beresna, Yongmin Jung, John Hayes, Dave Richardson, Gilberto Brambilla

University of Southampton

P3-061 25-Gbaud PAM4 And 1300nm Directly Modulated Laser Diode Using Low Parasitic Electrodes For Long-distance Transmission
Yi-jen Chiu, Rih-You Chen
National Sun Yat-Sen University

P3-062 Multicore Fiber Enabled Parallel Mach-Zehnder Interferometers For Sensing Application
Li Duan, Xuan Zhan, Ming Tang, Ruoxu Wang, Songnian Fu, Deming Liu
Huazhong University of Science and Technology

P3-063 Attenuation Coefficient And Bending Loss Measurement Of Few-mode Fibers By Utilizing Variable Mode Power Ratio
Nozoe Saki, Matsui Takashi, Taruno Masaaki, Kubota Hirokazu, Tsujikawa Kyozo, Ohashi Masaharu, Nakajima Kazuhide
Nippon Telegraph and Telephone Corporation

P3-064 Low-cost Temperature Sensors Using Mechanical Long Period Fiber Grating In 850 nm-wavelength Range
Yasuhiro Tsutsumi, Takahiro Hase, Masaharu Ohashi, Yuji Miyoshi, Kubota Hirokazu
Osaka Prefecture University

P3-065 Rotational Speed Sensors Based On A Fiber Bragg Grating
Hung-Ying Chang, Chuan-Ying Huang, Wen-Fung Liu, Jia-Guan Li, Chan-Yu Kuo, Ming-Yue Fu
Feng-Chia University

P3-066 Noise Tolerance In Optical Waveguide Circuits For Recognition Of Optical 8QAM Codes
Tumendemberel Surenkhorol, Kishikawa Hiroki, Goto Nobuo
Tokushima University

P3-067 Chromatic Dispersion Measurement Of The High Order Mode In A Few-Mode Fiber Using An Interferometric Technique And A Mode Converter
Ryuki Miyazaki, Masaharu Ohashi, Hirokazu Kubota, Yuji Miyoshi, Nori Shibata
Osaka Prefecture University

P3-068 Coupled W-type Four-core Fiber With Low Differential Mode Group Delay For C+L Band
Dongdong Cheng, Jiajing Tu, Xian Zhou, Keping Long, Kunimasa Saitoh
University of Science and Technology Beijing

P3-069 High Sensitivity Refractometer Based On Long-Period Fiber Gratings With High Diffraction Order Mode At Turning Point
Zuyao Liu, Yunqi Liu, Chengbo Mou, Fang Zou, Tingyun Wang
Shanghai University

P3-071 Observation Of Fano Resonances In A Reflective Fiber Coupled Microcavity
Huawen Bai, Xiaobei Zhang, Jiawei Wang, Ming Yan, Yong Yang, Hai Xiao, Fufei Pang, Tingyun Wang
Shanghai University

P3-072 Microlens Fabricated On Fiber Tip Using UV-curable Resin For Optical Interconnect
Yuzafirah Yaacob, Chiemi Fujikawa, Satoru Nakajima, Osamu Mikami, Sumiaty Ambran
University Technology Malaysia

P3-073 Temperature-dependent Characteristics Of Bismuth-doped Fiber Amplifier Operating In A 1720-nm Band
Sergei Firstov, Konstantin Riumkin, Sergey Alyshev, Vladimir Khopin, Mikhail Melkumov, Alexey Guryanov, Evgeny Dianov
Fiber Optics Research Center of the Russian Academy of Sciences

P3-074 Electro-optic Switching In Liquid Crystal Core Waveguide At 1550 nm Wavelength
Mukesh Sharma, M.R. Shenoy, Aloka Sinha
Indian institute of Technology

P3-075 Optical Beam Splitting and Switching Based on Arrays of Tilted Bragg Gratings in Planar Waveguides
Nina Podoliak, Matthew T. Posner, James C. Gates, Peter G. R. Smith, Peter Horak
University of Southampton

P3-076 Reduction On Optical Polysilicon Waveguide Loss By Using Sub-wavelength Gratings In Bulk CMOS Process
Lin Cheng-Chieh, Tsai Ming-Ju, Lee Tsung-Han, Lee San-Liang, Chen Tse-Hung, Hung Yung-Jr
National Taiwan University of Science and Technology

P3-077 Silicon 16-QAM Optical Modulator Driven By Four Binary Electrical Signals
Jianfeng Ding, Sizhu Shao, Lei Zhang, Xin Fu, Lin Yang
Institute of Semiconductors, CAS

P3-078 SOI-based Subwavelength Grating Polarization Beam Splitter With Focusing Ability
Gang Wu, Yongqing Huang, Xiaofeng Duan, Wenjing Fang, Xiaomin Ren
Beijing University of Posts and Telecommunications

P3-079 An Asymmetric Spherical-shape Structure Strain Sensor Based On Few Mode Fiber
Xinghu Fu, Siwen Wang, Jiangpeng Zhang, Qiang Liu, Guangwei Fu, Weihong Bi
Yanshan University

P3-080 A Simple and Accurate Criterion to Calculate the Optimal Length of a Nonlinear Waveguide
Jiabi Xiong, Yu Yu, Weili Yang, Yi Wang, Xinliang Zhang
Huazhong University of Science and Technology

P3-081 Low-voltage Silicon Optical Modulator With A Single-drive Parallel-push-pull Scheme
Shao Sizhu, Ding Jianfeng, Zhang Lei, Fu Xin, Yang Lin
Institute of Semiconductors, Chinese Academy of Sciences

P3-082 Gain Property Of The Few Mode Er-doped Silica Fiber
Wang Jie, Wen Jianxiang
Shanghai University

P3-083 Miniature Fabry-Perot Interferometer Strain Sensor Based On An Elliptical Air Bubble
Cailing Fu, Shen Liu, Jun He, Changrui Liao, Ying Wang, Yiping Wang
Shenzhen University

P3-084 High Temperature Characteristic Of LPFG Fabricated With CO₂ Laser Under Long-term Heating
Makoto Matsui, Toshinori Murakami, Osanori Koyama, Syo Takasuka, Makoto Yamada
Osaka Prefecture University

P3-085 Robust Reconfigurable Optical Mode Mux/Demux Using Multiport Directional Couplers
Rui Tang, Takuo Tanemura, and Yoshiaki Nakano
The University of Tokyo

P3-086 A Low Loss GI-4LP Mode Transmission Fiber With Low DGD
Hongyan Zhou, Lei Zhang, Peng Li, Liyan Zhang, Jing Li, Honghai Wang, Ruichun Wang, Lei Shen
State Key Laboratory of Optical Fibre and Cable Manufacture Technology

P3-087 Thermo-optic Switchable Mode Multiplexer Based On Cascaded Vertical Waveguide Directional Couplers
Quandong Huang, Kin Seng Chiang, Wei Jin
City University of Hong Kong

P3-088 A Stable Microsphere Whispering Gallery Mode Resonator
Weiping Chen, Dongning Wang
China Jiliang University

P3-089 On-site Measurement Of The Birefringence Of Optical Waveguides With A Mach-Zehnder Interferometer
Ze Bing Zhong, Huang Xuguang
South China Normal University

P3-090 Wideband Multimode Fiber For High Speed Short Wavelength Division Multiplexing System
Rong Huang, Runhan Wang, Wufeng Xiao, Liyan Zhang, Yaping Liu, Jing Li, Jihong Zhu, Honghai Wang, Ruichun Wang
State Key Laboratory of Optical Fiber and Cable Manufacture Technology

- P3-091 Fiber Microaxicon Lens Fabricated By Focused Ion Beam Milling For Efficient Fiber-to-Waveguide Coupling**
Henrik Melkonyan, Karen Sloyan, Krishna Twayana, Paulo Moreira, Marcus Dahlem
Masdar Institute
- P3-092 Brillouin Gain Linewidth Variation Depend On The Optical Fiber Winding Conditions**
Taehong Kim, Minkyu Kang, Seongjin Hong, Sanggwon Song, Aeri Jung, Jimyung Kim, Seongmook Jeong, Kyunghwan Oh
Yonsei University
- P3-093 The Real-time Imaging By Broadband Supercontinuum Using A Time-stretch Technology**
Mary Fung, K.S. Tsang, Victor Ho, Kevin L.F. Lui, Ray Man
Amonics Ltd.
- P3-094 Study Of Solute Migrations Induced In An Organic Solution By Short Pulses And Continuous Light**
Tai-Huei Wei
National Chung-Cheng University.
- P3-096 Demonstration Of Real-Time Path Monitoring In Optical Switches**
Takayuki Kurosu, Satoshi Suda, Kiyoshi Ishii, Shu Namiki
National Institute of Advanced Industrial Science and Technology
- P3-097 Cellular Automata In Arrays Of Photonic Cavities**
Rimi Banerjee, Timothy C.H Liew
Nanyang Technological University
- P3-098 Space-Time-Coded Reconfigurable Card-to-Card Optical Interconnects With Broadcast Capability**
Ke Wang, Ampalavanapillai Nirmalathas, Christina Lim, Kamal Alameh, Efstratios Skafidas, Hongtao Li
Royal Melbourne Institute of Technology
- P3-099 Four-Port Optical Switch For Photonic Network-on-chip**
Hao Jia, Yuhao Xia, Jianfeng Ding, Lei Zhang, Xin Fu, Lin Yang
Institute of Semiconductor
- P3-100 Widely Tunable Filter Based On Guided-mode Resonant Grating With Liquid Crystal Cladding**
Wang Chun-Ta, Hou Hao-Hsiang, Chang Ping-Chien, Li Cheng-Chang, Jau Hung-Chang, Hung Yung-Jr, Lin Tsung-Hsien
National Sun Yat-Sen University
- P3-101 LCoS-based Programmable Spectrum Cutter with Programmable and Reconfigurable Filtering Shape For Software Defined Optical Network**
Ze Li, Min Zhang, Dequan Xie, Danshi Wang, Yue Cui, Qi Yang
Beijing University of Posts and Telecommunications
- P3-102 Tuning Wettability Of Water On Au**
John Canning, Kevin Cook, Md. Arifat Hossain
University of Technology Sydney
- P3-103 ESD Polarity Effect Study Of Monolithic, Integrated DFB-EAM EML For 100/400G Optical Networks**
Jack Jia-Sheng Huang
Source Photonics
- P3-104 Athermal Condition Of Magneto-optic Waveguides In Optical Isolator Employing Nonreciprocal Guided-Radiation Mode Conversion**
Salinee Choowitsakunlert, Rardchawadee Silapunt, Kenji Takagiwa, Hideki Yokoi
Shibaura Institute of Technology
- P3-105 Polarization Bistable Single Fundamental Mode Photonic Crystal VCSELs**
Yiyang Xie
Beijing University of Technology
- P3-106 High-Power InP-Based Parallel-Connected Uni-traveling Carrier Photodiode Array**
Jiarui Fei, Yongqing Huang, Tao Liu, Xiaokai Ma, Xiaofeng Duan, Kai Liu, Xiaomin Ren
Beijing University of Posts and Telecommunications
- P3-107 A Compact And Low-loss GeSn Electroabsorption Modulator Using Vertical Multimode Interference For Mid-infrared Ge-on-Si Platform**
Minami Akie, Takanori Sato, Masakazu Arai, Takeshi Fujisawa, Kunimasa Saitoh
Hokkaido University
- P3-108 Bulk-Silicon-Based Waveguides And Bends**
Bonwoo Ku, Kyoung-Soo Kim
Ulsan National Institute of Science and Technology
- P3-109 Theoretical Investigations Of Excitonic Absorption In Quasi Two-dimensional CdSe Nanoplatelets**
Sumanta Bose, Weijun Fan, Dao Hua Zhang
Nanyang Technological University
- P3-110 Strain Profile And Size Dependent Electronic Bandstructure Of Type-I CdS/CdSe Quantum Ring**
Sumanta Bose, Weijun Fan, Dao Hua Zhang
Nanyang Technological University
- P3-111 Inp-Based Single-Frequency Single-Facet 1x2 MMI Teardrop Laser Diodes**
Hua Yang
Tyndall National Institute
- P3-112 Design And Growth Of Metamorphic Sb-based Materials On GaAs Substrate For Mid-Infrared Photonic Devices**
Yoshimoto Keita, Yamagata Yuya, Imamura Yuga, Arai Masakazu
University of Miyazaki
- P3-113 Wavelength Range Extension By Chirped And Nitrogen Incorporated InGaAs(N) Quantum Wells For Super Luminescent Diode**
Yuga Imamura, Keita Yoshimoto, Masakazu Arai
University of Miyazaki
- P3-114 High-suppression-ratio Silicon Bandpass Filter Using Apodized Subwavelength Grating Coupler**
Boyu Liu, Yong Zhang, Yu He, Xinhong Jiang, Ciyuan Qiu, Yikai Su
Shanghai Jiao Tong University
- P3-115 Ultra Small V-shaped Gold Split Ring Resonator With Fundamental Magnetic Frequency Approaching Kinetic Inductance Limitation**
L.Y.M. Tobing, Yu Luo
Nanyang Technological University
- P3-116 N-type-InAsS/GaSb Heterostructure For Infrared Photodetectors**
Jinchao Tong
Nanyang Technological University
- P3-117 MOCVD Grown InAsSb Films**
Dao Hua Zhang
Nanyang Technological University
- P3-118 Characterization Of MOS-Structure Silicon Solar Cell Fabricated On SOI Under Photovoltaic Biasing**
Su-Han Weng, Wen-Jeng Ho, Han-Chung Huang, Jheng-Jie Liu
National Taipei University of Technology
- P3-119 SiO₂ Clad Active And Passive Photonic Crystal Nanocavity Devices Fabricated With Photolithography**
Binti Daud Nurul Ashikin, Ooka Yuta, Tetsumoto Tomohiro, Tanabe Takasumi
Keio University
- P3-120 4x4 Arrayed THz-wave Combiner Composed Of UTC-PDs And Slot Antennas**
Goki Sakano, Jun Haruki, Kota Tsugami, Haruichi Kanaya, Kazutoshi Kato
Kyushu University
- P3-121 Low Threshold Current Of GaInAsP Laser Grown On Directly Bonded InP/Si Substrate**
Hirokazu Sugiyama, Nishiyama Tetsuo, Kamada Naoki, Onuki Yuya, Han Xu, Periyannayagam Gandhi Kallarasan, Aikawa Masaki, Hayasaka Natsuki
Sophia University
- P3-122 Improved Modulation Performance Of Three-section Distributed Bragg Reflector Tunable Laser By An Integrated Synchronous Modulated Semiconductor Optical Amplifier**
Wei Hong, Yonglin Yu
Huazhong University of Science and Technology

P3-123 Lasing Characteristics Of GaInAsP Stripe Laser Integrated On InP/Si Substrate

Kazuki Uchida, Tetsuo Nishiyama, Naoki Kamada, Yuya Onuki, Xu Han, Gandhi Kallarasan Periyanyagam, Hirokazu Sugiyama, Masaki Aikawa
Sophia Univerisity

P3-124 Nonlinear Properties Of Ge-rich SiGe Waveguides

Samuel Serna, Vladyslav Vakarin, Joan Manel Ramirez, Jacopo Frigerio, Andrea Ballabio, Laurent Vivien, Giovanni Isella, Eric Cassan, Nicolas Dubreuil, Delphine Marris-Morini
Université Paris-Saclay

P3-125 Unidirectional Coupling Of Laterally Coupled VCSEL And Slow Light Modulator/Amplifier

Shanting Hu, Akihiro Matsutani, Fumio Koyama
Tokyo Institute of Technology

P3-126 Broad Bandwidth And High Extinction Ratio Waveguide Polarizer Via Grating Mediated Mutual Mode Conversion

Wensheng Cao, Ping Ma, Xuecheng Cui, Zheng Jun, Zhicheng Ye, Zheng Jun, Zhicheng Ye
Shanghai Jiao Tong University

P3-127 The 2 μ m Subwavelength Silicon Grating Coupler

Jiayuan Li, Lu Liu, Wenzhao Sun, Xiang When, Ke Xu, Qinghai Song
Harbin Institute of Technology

P3-128 Silicon Photonics C-Band Tunable Filter For Large-Scale Optical Circuit Switches

Keijiro Suzuki, Ken Tanizawa, Satoshi Suda, Hiroyuki Matsuura, Kazuhiro Ikeda, Yojiro Mori, Ken-ichi Sato, Shu Namiki, Hitoshi Kawashima
National Institute of Advanced Industrial Science and Technology

P3-129 Dual Micro Ring Resonator Structure Based Band Pass Filter For CWDM Applications Using Photonics Technology

Mayur Chhipa, Massoudi Radhouene, Monia Najjar, S. Robinson, K. Srimannarayana
K L University

P3-130 MCF To Single Core Fiber Conversion Utilizing Mini-MT Connector

Kohei Kawasaki, Katsuki Suematsu, Mitsuhiro Iwaya, Kengo Watanabe, Kazuaki Yoshioka, Koichi Maeda, Ryuichi Sugizaki
Furukawa Electric Co., Ltd.

P3-131 A Proposal Of Mach-Zehnder Mode Multi/Demultiplexer For WDM/MDM Optical Transmission System

Shun Ohta, Shuntaro Makino, Takeshi Fujisawa, Taiji Sakamoto, Takashi Matsui, Kyozo Tsujikawa, Kazuhide Nakajima, Kunimasa Saitoh
Hokkaido University

P3-132 Temperature Insensitive Structural Polarization Converters In Highly Birefringent Microfibers

Wa Jin, Weihong Bi, Guangwei Fu, Xinghu Fu
Yanshan University

P3-133 A Novel Spatio-Temporal Multiplexing Multi-View 3D Display

Xiangyu Zhang, Hongjuan Wang, Phil Surman, Yuanjin Zheng
Nanyang Technological University

P3-134 High-Efficiency Interlayer Coupler On Silicon Nitride

Shitao Gao, Yang Wang, Ke Wang, Li Hongtao, Efstratios Skafidas
The University of Melbourne

P3-135 Ultra-compact Multi-channel Drop Filter in One-dimensional Photonic Crystal on Silicon-on-insulator Substrate

Dong Gaoneng
Huazhong University of Science and Technology

P3-136 Dual-Channel Logic Operations via Four-Wave Mixing in a Multimode Silicon Waveguide

Jiamin Wang, Ming Luo, Ying Qiu, Xiang Li, Jiabin Gong, Jing Xu, Qi Yang, Xinliang Zhang
Huazhong University of Science and Technology

P3-137 A Monolithically Integrated 25-Gb/s Optical Receiver Based On Photonic BiCMOS Technology

Hyun-Yong Jung, Jeong-Min Lee, Minkyu Kim, Woo-Young Choi, Stefan Lischke, Dieter Knoll, Lars Zimmermann
Yonsei University

P3-138 Leakage Loss In Silicon Photonics

Nai-Hsiang Sun, Cheng-Hsiung Tsai, Tien-Tsornng Shih, and Po-Jui Chiang
I-Shou University

P3-139 Silicon Rich Nitride Ring Resonators For Rare-earth Doped C-band Amplifiers Pumped At The O-band

Peng Xing, George F. R. Chen, Xinyu Zhao, Doris K. T. Ng, Mei Chee Tan, Dawn T. H. Tan
Singapore University of Technology and Design

P3-140 Electro-Optical Switch Using Ge₂Sb₂Te₅ Phase-Change Material In A Silicon MZI Structure

Hanyu Zhang, Linjie Zhou, Liangjun Lu, Zhanzhi Guo, Jian Xu, Xuecheng Fu, Jianping Chen, Azizur Rahman
Shanghai Jiao Tong University

P3-141 Formation Of Particle Defects During Selective Epitaxial Growth Of Germanium On Silicon

Sandeep Saseendran, Purnendu Sahoo, Shen Miao, Ma Cho Cho Sett, Chee Hoe Wong, Daniel Wahjudi, Guo Dong Jiang, Subhramanyam Chivukula, S Gunasagar
Globalfoundries

P3-142 Sharp Fano Resonance In Subwavelength Grating Waveguide Micro-ring Resonator

Zhengrui Tu, Dingshan Gao
Huazhong University of Science and Technology

P3-143 Silicon Photonic Devices For The Mid-infrared

Mohamed Saïd Rouified, Callum Littlejohns, Tina Guo, Jia Xu Sia, Haodong Qiu, Ordi Soler Penades, Milos Nedeljkovic, Zecen Zhang, Chongyong Liu, David Thomson, Goran Mashanovich, Graham Reed, Hong Wang
Nanyang Technological University

P3-144 Laser-assisted Material Composition Engineering Of SiGe Planar Waveguides

Antoine F. J. Runge, Yohann Franz, Callum G. Littlejohns, Katarzyna Grabska, Sakellaris Mailis, Frederic Y. Gardes, Anna C. Peacock
University of Southampton

P3-145 Wavelength Preserved Modulation Format Conversion From 16QAM To QPSK Using FWM And SPM

Hiroki Kishikawa, Nobuo Goto
Tokushima University

P3-146 Design Of Continuously-tunable Photonic Fractional Hilbert Transformer Based On A High Birefringent Planar Bragg Grating

Bolan Liu, Chaotan Sima, Chenbin Cai, Yuan Gao, Deming Liu, Matthew Posner, James Gates, Peter Smith
Huazhong University Of Science And Technology

P3-147 Wideband Arbitrary Waveform Generation By Time-domain Compression

Bindong Gao, Fangzheng Zhang, Shilong Pan
Nanjing University of Aeronautics and Astronautics

P3-148 Visible Light Indoor Positioning Based On Camera With Specular Reflection Cancellation

Wansheng Pan, Yinan Hou, Shilin Xiao
Shanghai Jiao Tong University

P3-149 Novel Photonic Encryption Technique Using Spectral Convolution And Nyquist Filtering

Satoshi Shimizu, Hiroyuki Sumimoto, Naoya Wada
National Institute of Information and Communications Technology

P3-150 Mitigating Bandwidth-Limitation Impairments Based On Transmitter-side DSP

Wei Chen, Junfeng Zhang, Mingyi Gao, Gangxiang Shen
Soochow University

P3-151 Mitigating Fiber Nonlinearity Using Support Vector Machine With Genetic Algorithm

Junfeng Zhang, Wei Chen, Mingyi Gao, Gangxiang Shen
Soochow University

P3-152 Dynamic Property Investigation Of Optical Burst Injection Locking Lasers

Jin Tang, Lian-Kuan Chen, Jian Zhao
The Chinese University of Hong Kong

P3-153 Performance Of Two-Dimensional ML Detector With Laser Phase Noise And Frequency Offset

Yan Li, Qian Wang, Xinwei Du, Changyuan Yu, Mohan Gurusamy, Pooi Yuen Kam
National University of Singapore

P3-154 Chromatic Dispersion Monitoring By Extended Kalman Filter For Coherent Optical OFDM Systems

Xinwei Du, Yan Li, Mohan Gurusamy, Changyuan YU, Pooi-Yuen Kam
National University of Singapore

P3-155 Temporal And Wavelength Dependency On QPSK To 16QAM Modulation Format Conversion By Delay Line Interferometer

Kazuya Mori, Hiroki Kishikawa, Nobuo Goto
Tokushima University

P3-156 Programmable All-fiber Structured Second-order Multichannel Optical Temporal Differentiators

Ruoxu Wang, Li Duan, Chunxiao Xiong, Ming Tang, Songnian Fu, Deming Liu, Hailiang Zhang, Perry Ping Shum
Huazhong University of Science and Technology

P3-157 Modulation Format Conversion From OOK And QPSK To 8QAM Using XPM And XGM In An SOA

Masaki Uetai, Hiroki Kishikawa, Nobuo Goto
Tokushima University

P3-158 Generating Fast Switchable Optical Vortices By Beam Combining

Xiaohe Zhang, Ying Li, Yao Cai, Mingyang Su, Yanliang He, Shuqing Chen
Shenzhen University

P3-159 FBG-FP Spectral Denoising For High Resolution Of Quasi-static Strain Measurement Based On EMD

Peide Liu, Wenzhu Huang, Wentao Zhang, Fang Li
Chinese Academy of Sciences

P3-160 Phase And Amplitude Coding Separation Based On The Injection-Locked Single-Mode VCSEL

Vladimir S. Lyubopytov, Mohammadreza Malekizandi, Arkadi Chipouline, Franko Kuppers, Tuomo Von Lerber, Matti Lassas, Tuomo Lerber
Technical University of Denmark

Poster Session 4

Time: 3:45pm – 5:15pm

Date: 3 Aug 2017

P4-001 A Real-time Broadband Radio Frequency Spectrum Analyzer Based On Time-lens

Chen Liao, Zhou Haidong, Duan Yuhua, Zhou Xi, Zheng Chen, Zhang Chi, Zhang Xinliang
Huazhong University of Science and Technology

P4-002 A Noise-folding Suppression Method In Photonic Compressed Sampling

Na Gao, Xianfeng Tang, Yiqiao Feng, Bingxiang Hui, Xiaoguang Zhang, Lixia Xi, Wenbo Zhang
Beijing University of Posts and Telecommunications

P4-003 Simultaneous Multichannel Canonical Logic Units and Wavelength Conversion Based on Four-Wave Mixing

Wenchan Dong, Hou Jie, Xinliang Zhang
Huazhong University of Science and Technology

P4-004 Microwave Photonic Frequency Up-Converter with Frequency Doubling and Compensation of Chromatic-Dispersion-Induced Power Fading

Bingyu Li, Jianqiang Li, Chunjing Yin, Jian Dai, Feifei Yin, Yitang Dai, Kun Xu
Beijing University of Posts and Telecommunications

P4-005 Numerical Study On Microwave Photonic Mixers Based On Eletro-Optical Modulators

Jia Xiao, Jianqiang Li, Chunjing Yin, Yuting Fan, Feifei Yin, Yitang Dai, Kun Xu
Beijing University of Posts and Telecommunications

P4-006 Temporal Cloak for Data Restraint and Illusion

Feng Zhou, Zhao Cheng, Huaqing Qiu, Jianji Dong, Xinliang Zhang
Huazhong University of Science and Technology

P4-007 Combined Effects From Circular And Linear Quasiperiodic Structures In Optical Devices For Documents Security

Mona Mihailescu, Eugen Scarlat, Irina Alexandra Paun, Alexandru Craciun, Raluca Augusta Gabor, Cristian Andy Nicolae, Dana Cristea, Cristian Kusko, Mihaela Pelteacu, Brandus Comanescu
Politehnica University from Bucharest

P4-008 Study on Diversity Receiving Techniques in Optical Wireless Communication Systems

Shiro Ryu
Meiji University

P4-009 An Efficient Visible Light Positioning Method Using Single LED Luminaire

Zhen Yang, Junbin Fang, Tianao Lu, Zoe Lin Jiang, Zhe Chen
Jinan University

P4-010 EVM Evaluation For Wideband Radio Over Fiber System At 96GHz

Naoki Kanada, Naruto Yonemoto, Tetsuya Kawanishi
National Institute of Maritime, Port and Aviation Technology

P4-011 Evaluation Of Noise Characteristics In Graded-Index Silica And Plastic Optical Fibers For RoF Links

Azumai Ryoma, Aiba Takamitsu, Matsuura Motoharu, Wakabayashi Tomohiro
University of Electro-Communications

P4-012 A Physical-Layer Secure Coding Scheme For Visible Light Communication Based On Polar Codes

Zhen Che, Junbin Fang, Zoe Lin Jiang, Xiaolong Yu, Guikai Xi, Zhe Chen
Jinan University

P4-013 Seamless VLC And ULEAPS Fiber Transmission Employing Tapered Ag/AgI Coated Hollow Waveguide Based Beam Shaping

Yingjun Zhou, Jing Yu, Tianhang Chen, Yiwei Shi, Nan Chi, Liangming Xiong, Jie Luo
Fudan University

P4-014 Experimental Study On The Stochastic Characteristics Of 3x3 RF MIMO Channel Over Two-Mode Fiber

Rui Wu, Jianqiang Li, Yi Lei, Yuting Fan, Feifei Yin, Yitang Dai, Kun Xu, Dawei Yu
Beijing University of Posts and Telecommunications

P4-015 Characteristics Of An Ideal Location-based Zero-forcing Equalizer In Indoor Visible Light Communication Systems

Xiaodi You, Jian Chen, Changyuan Yu
Nanjing University of Posts and Telecommunications

P4-016 Compressive Sensing-Based Channel Estimation In MISO OFDM Visible Light Communication Systems

Zhe Zheng, Jinlong Yu, Zixiong Wang, Jian Chen, Changyuan Yu
Tianjin University

P4-017 Radio Over Fiber Signal Generation And Distribution And Its Application To Train Communication Network

Atsushi Kanno, Pham Tien Dat, Naokatsu Yamamoto, Tetsuya Kawanishi, Naruto Yonemoto, Vo Nguyen Quoc Bao, Tan Hanh, Le Quoc Cuong
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Institute of Semiconductors, Chinese Academy of Sciences

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Harvard Medical School

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Massachusetts General Hospital & Harvard Medical School

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Yangtze Optical Fibre and Cable Joint Stock Limited Company

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Duan Liu, Yaohe Liu, Daxing Zhao, Georges Humbert

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Harbin University of Science and Technology

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College of Optoelectronic Science and Engineering

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Tianjin Normal University

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China Jiliang University

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Lei Zhang, Phil Surman, Yuanjin Zheng
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Anle Wang, Jianghai Wo, Jin Zhang, Xiong Luo, Wenshan Cong, Xin Xu, Dawei Yang, Lan Yu
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Yu Pan, Shilie Zheng, Yanne Chembo, Xianmin Zhang
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Amir Hossein Kazemi, Arash Mokhtari
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Junbin Huang, Xin Mao, Bo Tang, Hongcan Gu, Wen Liu
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Hao Liao, Ping Lu, Deming Liu, Li Liu, Jiangshan Zhang
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Wei Chen, Shilin Sun, Zhou Meng, Yang Lu
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Sen Wang, Weiguo Dai, Haitao Li
Navy Submarine Academy

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Yanliang Liu, Yongchao Ma, Insoo Shin, Chul-Woong Oh, Kwon Taek Lim, Jung Hyun Jeong, Sung Heum Park
Pukyong National University

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Quan Liu, Xiang Li
Nanyang Technological University

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Ju Won Choi, George F. R. Chen, Kelvin J. A. Ooi, Doris K. T. Ng, Dawn T. H. Tan
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Shuang Zheng, li shen, jian wang
Huazhong University of Science and Technology

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Shuang Zheng, Nan Zhou, Yun Long, jian wang
Huazhong University of Science and Technology

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Tae-In Jeon, Gyeong-Ryul Kim, Hyeon Sang Bark
Korea Maritime and Ocean University

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Zhou Nan, Zheng Shuang, Wang Jian
Huazhong University of Science and Technology

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Zhiyi Wei
Institute of Physics, Chinese Academy of Sciences

P4-163 All Polarization Maintaining Erbium-doped Q-switched Fiber Laser Based On WSe₂ Saturable Absorber

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P4-164 Observation Of Tunable Dual-wavelength In A Fiber Laser Mode-locked By Black Phosphorus

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Beihang University

P4-165 Broad-band And High Efficiency Single-photon Extraction By Bullseye Cavities

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P4-166 Efficiently Coupling Single Photon Source To Plasmonic Nanoslot Waveguide By Nanoantenna

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