

APE | Asia
Photonics
Expo

Asia Light Conference Conference Manual 2024

5th — 8th March, 2024
Sands Expo and Convention Centre
Singapore



eLight

Light | Advanced
Manufacturing



Angle-Resolved Micro-Spectrometer ARMS

- Photonic crystals
- Strong light-matter coupling
- Micro/nano structures
- Structural color
- PCSEL
- BICs

ARMS is the only precision optical instrument that provides automated multi-mode angle-resolved spectral characterization for samples at the microscopic scale. It delivers researchers and industrial customers with multi-dimensional optical field signals, including space, momentum, energy, and polarization.

● High resolution

With an angle-resolution as accurate as 0.1° and wavelength resolution of 0.1nm

● Ultra-broad spectral range

Covering a broad range of 400 ~ 1700nm

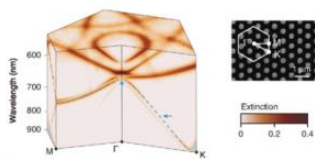
● Captured in one shot

Capable of one-shot angle-resolved spectrum imaging and measurement in millisecond (ms)

● Automated functionality

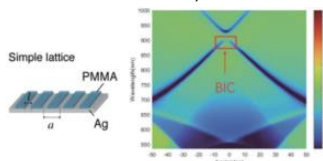
The system supports multiple automated modes, including transmission, reflection, and fluorescence

ARMS characterizes BICs of 1D photonic crystals in momentum space.

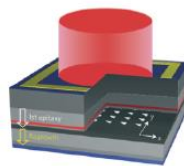


Physical review letters, 2018, 120, 186103.

BIC in the Momentum space of Photonic Crystals

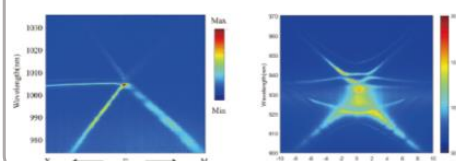


Applications of ARMS in the characterization of fluorescence emission properties in PCSEL.

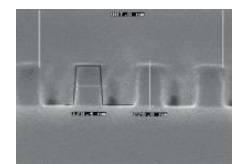


Nature, 2023, 618, 727-732.

PCSEL Schematic diagram of the structure

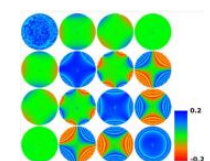


Angle-resolved Mueller polarimeter



Phys.stat.sol. 2008,4,743-747

SEM image of a photoresist grating



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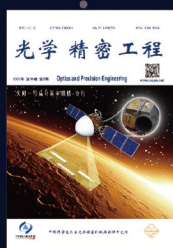


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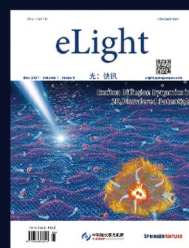
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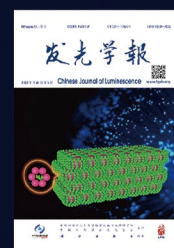
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Publication year



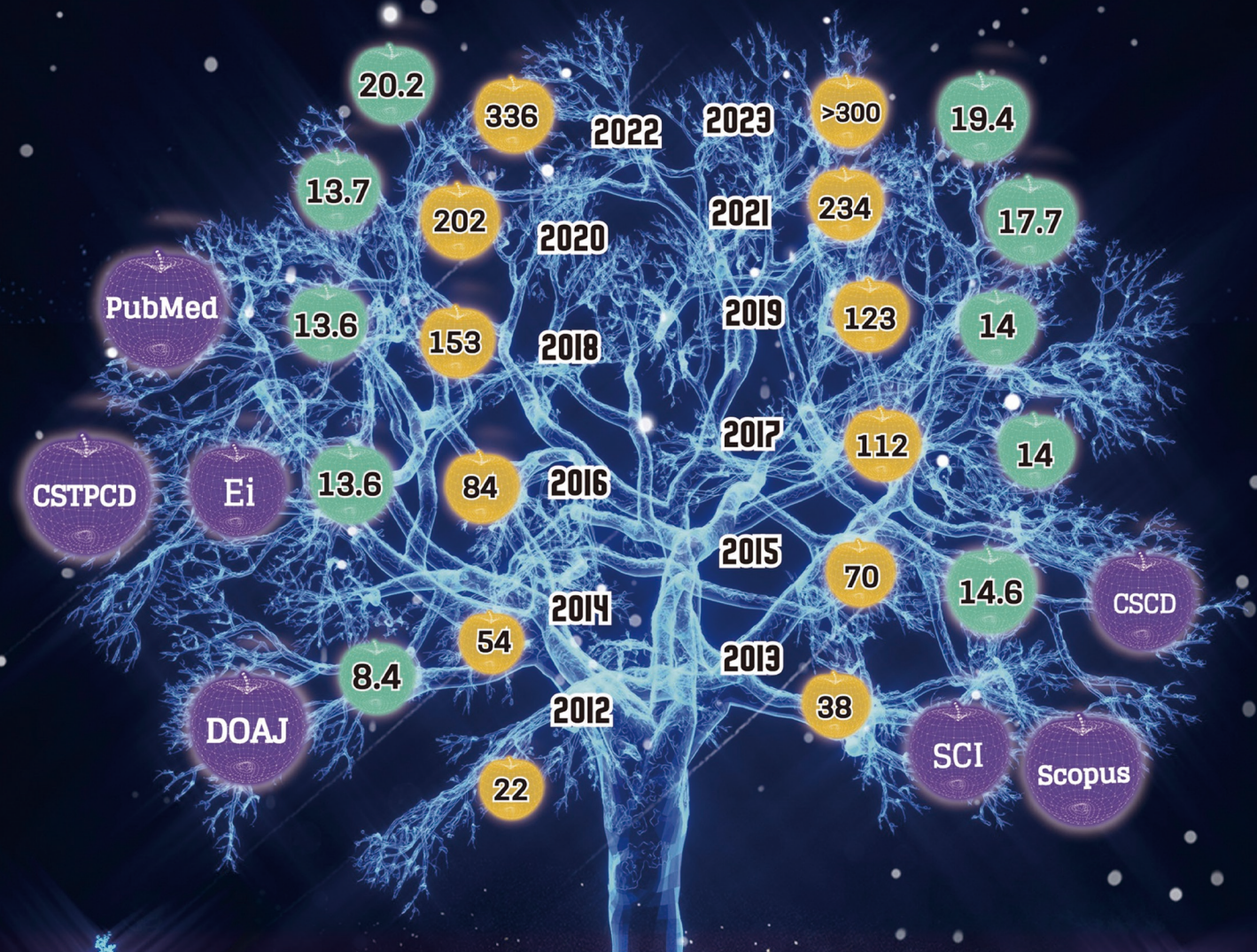
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ABOUT ASIA LIGHT CONFERENCE IN SINGAPORE

5th — 8th March, 2024
Sands Expo and Convention Centre
10 Bayfront Ave, Singapore

Asia Light Conference 2024 is the academic conference of Asia Photonics Expo. It is hosted by journals *Light: Science & Applications*, *eLight*, and *Light: Advanced Manufacturing*, taking place from March 5th — 8th, 2024 in Sands Expo and Convention Centre (Marina Bay Sands) 4th Floor Meeting Room, Singapore.

Highlighted by UNESCO's International Day of Light, **Asia Light Conference 2024** consists of plenary session and 10 parallel keynote & invited sessions: Tunable Optoelectronics, Micro and Nanophotonics I, Topological Photonics, Quantum Photonics, Terahertz Optoelectronics, Nonlinear Photonics and Functional Lasers, Nano Materials and Luminescence, Advanced Manufacturing, Micro and Nanophotonics II and Biophotonics and Medical Optics. With **Asia Light Conference 2024**, we hope to contribute to the wellbeing of optics frontiers and showcase the advances in optics and photonics.

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Dr. Yukun Wang, CIOMP, Chinese Academy of Sciences

PLENARY SESSION

6th March AM | L4 Melati Jnr 4010AB - 4111

| Time | Content |
|--|---|
| Chair: Prof. Yuhong Bai (CIOMP, Chinese Academy of Sciences) | |
| 08:30-08:35 | Prof. Cheng-Wei Qiu (National University of Singapore) (Opening Speech) |
| 08:35-08:42 | Prof. Ping Jia (CIOMP, Chinese Academy of Sciences) (Opening Speech) |
| 08:42-08:52 | Prof. Yun-Feng Xiao (Peking University) (Opening Speech) Title: Light is a brand |
| 08:52-09:00 | Group Photo |
| Chair: Prof. Cheng-Wei Qiu (National University of Singapore) | |
| 09:00-09:40 | Prof. Xiang Zhang (University of Hong Kong) (Plenary Talk) Title: Photonics at sub-wave length scale |
| 09:40-10:20 | Prof. Qihuang Gong (Peking University) (Plenary Talk) Title: will be updated later on the conference's website |
| 10:20-11:00 | Prof. Alexandra Boltasseva (Purdue University) (Plenary Talk) Title: Advancing Nanophotonics: From Tailorable Materials to Novel Phenomena |
| 11:00-11:40 | Prof. Shanhui Fan (Stanford University) (Plenary Talk) Title: Control of thermal radiation with photonic structures |
| 11:40-12:20 | Prof. Vladimir M. Shalaev (Purdue University) (Plenary Talk) Title: Extreme Space-Time Optics & Quantum Meta-Photonics |
| 12:25-13:30 | Lunch |
| To access the bio & abstract of the plenary speakers, please visit: http://asia.lightconference.cn/light/1.html | |

SESSION 1

TUNABLE OPTOELECTRONICS

6th March PM | L4 Orchid Jnr 4212

| Time | Content |
|--|--|
| Chair: Prof. Yang Li | |
| 14:00-14:35 | Prof. Yanqing Lu (Nanjing University, China) (Keynote) Title: From Liquid Crystal Photonics to Soft Photonics |
| 14:35-15:00 | Prof. Yuzhi Shi (Tongji University, China) (Invited) Title: Exploiting optical lateral forces in optical tweezers |
| 15:00-15:25 | Prof. Xue Bai (Jilin University, China) (Invited) Title: Lanthanide based materials and optoelectronic devices |
| 15:25-15:45 | Coffee break |
| Chair: Prof. Yanqing Lu | |
| 15:45-16:10 | Prof. Yang Li (Tsinghua University, China) (Invited) Title: Integrated lithium niobate photonics: from communications to metrology |
| 16:10-16:35 | Prof. Yanjun Liu (Southern University of Science and Technology, China) (Invited) Title: Photopolymerization-Induced Phase Separation for the Fabrication of Electrically Tunable Liquid Crystal Microlens Arrays |
| 16:35-17:00 | Prof. Zhihan Zhu (Harbin University of Science and Technology, China) (Invited) Title: Nonlinear toolkits for shaping structured light |
| 17:00-17:20 | Prof. Dan Luo (Southern University of Science and Technology, China) (Contributed) Title: Light-driven liquid crystal elastomer actuators: polarization manipulation and application in terahertz metasurface |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 2

MICRO AND NANOPHOTONICS I

6th March PM | L4 Orchid Jnr 4312

| Time | Content |
|--|--|
| Chair: Prof. Wei Li | |
| 14:00-14:35 | Prof. Min Qiu (Westlake University, China) (Keynote) Title: Optical manipulation on solid surfaces |
| 14:35-15:00 | Prof. Baohua Jia (RMIT University, Australia) (Invited) Title: Laser nanoprinting integrated with in-situ characterization system for miniaturize photonic devices |
| 15:00-15:25 | Prof. Qijie Wang (Nanyang Technological University, Singapore) (Invited) Title: Broadband Room-Temperature Mid-infrared Detection with 2D Materials and Nanoparticles |
| 15:25-15:45 | Coffee break |
| Chair: Prof. Min Qiu | |
| 15:45-16:10 | Prof. Wei Li (CIOMP, China) (Invited) Title: Multidimensional manipulating and sensing of photons |
| 16:10-16:35 | Prof. Guangwei Hu (Nanyang Technological University, Singapore) (Invited) Title: Hyperbolic polaritonics with bulk optical crystals |
| 16:35-17:00 | Prof. Cheng Zhang (Huazhong University of Science and Technology, China) (Invited) Title: Metasurface-enabled Multifunctional Displays |
| 17:00-17:25 | Prof. Qiaoqiang Gan (KAUST, Saudi Arabia) (Invited) Title: Plasmonic-based "rainbow" Chip for Intelligent Spectrometer |
| 17:25-17:50 | Dr. Haiwei Yin (Ideaoptics Inc., China) (Invited) Title: Applications of Deep Spectroscopy in Micro and Nanophotonics |
| 17:50-18:10 | Prof. Zhongwei Jin (China Jiliang University, China) (Contributed) Title: Deep-learning enhanced inverse design of meta-devices |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 3

TOPOLOGICAL PHOTONICS

7th March AM | L4 Orchid Jnr 4212

| Time | Content |
|--|--|
| Chair: Prof. Avik Dutt | |
| 09:00-09:35 | Prof. Che Ting Chan (Hong Kong University of Science and Technology, China) (Keynote) Title: Topological photonic crystals realized using connected and nested structures |
| 09:35-10:00 | Prof. Seababrata Mukherjee (Indian Institute of Science, India) (Invited) Title: Floquet Solitons in Photonic Topological Materials |
| 10:00-10:20 | Prof. Zhen Gao (Southern University of Science and Technology, China) (Contributed) Title: Realization of a topological one-way photonic crystal fiber |
| 10:20-10:40 | Coffee break |
| Chair: Prof. Che Ting Chan | |
| 10:40-11:15 | Prof. Mordechai Segev (Technion – Israel Institute of Technology, Israel) (Keynote) Title: Topological Photonics: Where do we go from here? |
| 11:15-11:40 | Prof. Avik Dutt (University of Maryland, USA) (Invited) Title: Floquet synthetic dimensions for analog Hamiltonian simulation of topological physics |
| 11:40-12:00 | Prof. Ya Bai (Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China) (Contributed) Title: Lightwave driven dynamics in topological states |
| 12:10-13:30 | Lunch |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 4

QUANTUM PHOTONICS

7th March AM | L4 Orchid Jnr 4312

| Time | Content |
|--|---|
| Chair: Prof. Jin Liu | |
| 09:00-09:35 | Prof. Xuehua Wang (Sun Yat-sen University, China) (Keynote) Title: Highly-efficient realization of room-temperature strong coupling quantum states |
| 09:35-10:00 | Prof. Kartik Srinivasan (National Institute of Standards and Technology (NIST), USA) (Invited) Title: Quantum light sources on silicon nitride PICs: bulk nonlinearity, heterogeneously-integrated quantum dots, and vapor-phase atoms |
| 10:00-10:25 | Prof. Bo Wang (Nanyang Technological University, Singapore) (Invited) Title: Weakly-Confined perovskite quantum dots as high purity room-temperature single-photon sources |
| 10:25-10:45 | Coffee break |
| Chair: Prof. Xuehua Wang | |
| 10:45-11:10 | Prof. Jing Zhang (Shanxi University, China) (Invited) Title: Atomic Bose-Einstein condensate in a twisted-bilayer optical lattice |
| 11:10-11:35 | Prof. Fei Ding (Leibniz University Hannover, Germany) (Invited) Title: High-rate intercity quantum key distribution with a semiconductor single-photon source |
| 11:35-12:00 | Prof. Zhanghai Chen (Xiamen University, China) (Invited) Title: Manipulation of Van der Waals Exciton Polaritons |
| 12:10-13:30 | Lunch |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 5

TERAHERTZ OPTOELECTRONICS

7th March PM | L4 Orchid Jnr 4212

| Time | Content |
|--|---|
| Chair: Prof. Xiaojun Wu | |
| 14:00-14:35 | Prof. Mona Jarrahi (University of California, Los Angeles, USA) (Keynote) Title: Plasmonic Terahertz Optoelectronics |
| 14:35-15:00 | Prof. Kosuke Murate (Nagoya University, Japan) (Invited) Title: Recent advances in THz parametric generation and detection techniques |
| 15:00-15:20 | Prof. Tao Zhao (University of Electronic Science and Technology of China, China) (Contributed) Title: Ultra-broadband absorption limit by MXene nano-thin film |
| 15:20-15:40 | Coffee break |
| Chair: Prof. Mona Jarrahi | |
| 15:40-16:05 | Prof. Xiaojun Wu (Beihang University, China) (Invited) Title: Generation of 45-mJ High-Energy Strong-Field THz Radiation from Lithium Niobate Crystals |
| 16:05-16:30 | Prof. Aparajita Bandyopadhyay (Indian Institute of Technology Delhi, India) (Invited) Title: Fiber-coupled handheld THz scanners for field applications |
| 16:30-16:50 | Prof. Cheng Chi (Beijing Institute of Technology, China) (Contributed) Title: High-efficiency broadband achromatic metalens for terahertz regime |
| 16:50-17:10 | Dr. Xurong Li (University of California, Los Angeles, USA) (Contributed) Title: High-speed and super-resolution terahertz imaging with a plasmonic photoconductive focal-plane array |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 6

NONLINEAR PHOTONICS AND FUNCTIONAL LASERS

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| Time | Content |
|--|---|
| Chair: Prof. Yuri Kivshar | |
| 14:00-14:35 | Prof. Uriel Levy (The Hebrew University of Jerusalem, Israel) (Keynote) Title: Active metasurfaces |
| 14:35-15:00 | Prof. Rupert F. M. Oulton (Imperial College London, UK) (Invited) Title: Photon thermalization and Bose-Einstein condensation in a InGaAs quantum well open microcavity |
| 15:00-15:25 | Prof. Renmin Ma (Peking University, China) (Invited) Title: Reconfigurable Moiré nanolaser arrays with phase synchronization |
| 15:25-15:45 | Coffee break |
| Chair: Prof. Renmin Ma | |
| 15:45-16:10 | Prof. Yuri Kivshar (Australian National University, Australia) (Invited) Title: Nonlinear metaphotonics empowered by resonances |
| 16:10-16:35 | Prof. Kosmas L. Tsakmakidis (National and Kapodistrian University of Athens, Greece) (Invited) Title: Broadband true invisibility of 3D electrically large objects |
| 16:35-17:00 | Prof. Hong-Gyu Park (Seoul National University, Korea) (Invited) Title: Vortex nanolaser based on a photonic disclination cavity |
| 17:00-17:25 | Prof. Linde Zhang (Shanghai Tech University, Synlumin Conuninex (Shanghai) Enterprise Development Co., Ltd, China) (Invited) Title: Designable spatially coherent wideband radiation and its application in white light lasers |
| 17:25-17:45 | Prof. Wenxin Wang (Harbin Engineering University(Qingdao), China) (Contributed) Title: Lattice plasmons: generation and applications |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 7

NANO MATERIALS AND LUMINESCENCE

8th March AM | L4 Orchid Jnr 4212

| Time | Content |
|--|---|
| Chair: Prof. Feng Wang | |
| 09:00-09:35 | Prof. Xiaogang Liu (National University of Singapore, Singapore) (Keynote) Title: Lanthanide Transducers for Advanced Imaging and Assistive Technology |
| 09:35-10:00 | Prof. Fan Zhang (Fudan University, China) (Invited) Title: NIR-II Fluorescent Probes for in vivo Multiplexed Biodetection |
| 10:00-10:25 | Prof. Hans H. Gorris (Masaryk University, Czech Republic) (Invited) Title: Single-molecule immunoassays based on upconversion nanoparticles (UCNP) |
| 10:25-10:45 | Coffee break |
| Chair: Prof. Xiaogang Liu | |
| 10:45-11:10 | Prof. Feng Wang (City University of Hong Kong, China) (Invited) Title: Taming energy transfer in micro/nanostructured materials |
| 11:10-11:35 | Prof. Xiyan Li (Nankai University, China) (Invited) Title: High efficient halide perovskite materials for lighting and display application |
| 11:35-12:00 | Prof. Sanyang Han (Tsinghua University, China) (Invited) Title: Triplet energy transfer at lanthanide nanocrystal-molecule interface |
| 12:00-12:20 | Prof. Xue Liu (Nanyang Technological University, Singapore) (Contributed) Title: Fluorescent graphene quantum dot sensor array for precise multi-label biothiol detection enabled by artificial intelligence |
| 12:30-13:30 | Lunch |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 8

ADVANCED MANUFACTURING

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| Time | Content |
|--|--|
| Chair: Prof. Zhanshan Wang | |
| 09:00-09:35 | Prof. Hongbo Sun (Tsinghua University, China) (Keynote) Title: O-FIB and beyond: Pursuing super-resolution in fs laser 3D manufacturing |
| 09:35-10:00 | Prof. Mohsen Rahmani (Nottingham Trent University, UK) (Invited) Title: Thermally controlled metasurfaces for sensing applications and image generation |
| 10:00-10:25 | Dr. Rachel Won (Nature Photonics, UK) (Editor's talk) Title: Publishing your papers in Nature journals |
| 10:25-10:45 | Coffee break |
| Chair: Prof. Mohsen Rahmani | |
| 10:45-11:20 | Prof. Zhanshan Wang (Tongji University, China) (Keynote) Title: Manufacture and metrology of X-ray and EUV mirrors |
| 11:20-11:45 | Prof. Yoshito Tanaka (Hokkaido University, Japan) (Invited) Title: Nanoplasmonic forces and actuators by controlling light scattering |
| 11:45-12:10 | Prof. Arseniy Kuznetsov (Institute of Material Research and Engineering (IMRE), Singapore) (Invited) Title: will be updated later on the conference's website |
| 12:10-12:30 | Prof. Liaoyong Wen (Westlake University, China) (Contributed) Title: Aluminum-Based Multiscale 3D Lithography: Concept and Applications |
| 12:30-13:30 | Lunch |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 9

MICRO AND NANOPHOTONICS II

8th March PM | L4 Orchid Jnr 4212

| Time | Content |
|--|---|
| Chair: Prof. Shuwen Zeng | |
| 14:00-14:35 | Prof. Zhipei Sun (Aalto University, Finland) (Keynote) Title: Miniaturized Spectrometers with Bandgap Engineerings |
| 14:35-15:00 | Prof. Qing Dai (National Center for Nanoscience and Technology, China) (Invited) Title: Control of polaritons in low-dimensional nanomaterials |
| 15:00-15:25 | Prof. Di Zhu (National University of Singapore, Singapore) (Invited) Title: Non-classical light generation and control on thin-film lithium niobate photonic integrated circuits |
| 15:25-15:45 | Coffee break |
| Chair: Prof. Zhipei Sun | |
| 15:45-16:10 | Prof. Shuwen Zeng (French National Centre for Scientific Research , France) (Invited) Title: Ultra-sensitive Plasmonic Biosensors based on Two-Dimensional NanoMaterials |
| 16:10-16:35 | Prof. Dangyuan Lei (City University of Hong Kong, China) (Invited) Title: Plasmonic nanocavity enhanced nonlinear optics |
| 16:35-17:00 | Prof. Jianwei Wang (Peking University, China) (Invited) Title: Topological Quantum Photonics |
| 17:00-17:20 | Prof. Yang Chen (University of Science and Technology of China, China) (Contributed) Title: Chiroptics empowered by resonant metastructures |
| To access the bio & abstract of the speakers, please visit: http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

SESSION 10

BIOPHOTONICS AND MEDICAL OPTICS

8th March PM | L4 Orchid Jnr 4312

| Time | Content |
|---|--|
| Chair: Prof. Yukun Wang | |
| 14:00-14:35 | Prof. Robert J. Zawadzki (University of California Davis, USA) (Keynote) Title: Progress on assessment of retinal function with optical coherence tomography (OCT) |
| 14:35-15:00 | Prof. Hongda Wang (The Changchun Institute of Applied Chemistry, China) (Invited) Title: Studying the structure and functions of cell membranes by single molecule approaches |
| 15:00-15:25 | Prof. Tong Ling (Nanyang Technological University, Singapore) (Invited) Title: Label-free imaging of functional activities in primary neurons and retinal cells |
| 15:25-15:45 | Coffee break |
| Chair: Prof. Robert J. Zawadzki | |
| 15:45-16:10 | Prof. Yasuno Yoshiaki (University of Tsukuba, Japan) (Invited) Title: Computational augmentation of optical coherence microscopy |
| 16:10-16:35 | Prof. Linbo Liu (Nanyang Technological University, Singapore) (Invited) Title: Spectrally extended line field optical coherence tomography angiography |
| 16:35-16:55 | Dr. Xinyu Liu (Singapore Eye Research Institute, Singapore) (Contributed) Title: Triple-input polarization-sensitive optical coherence tomography in ophthalmology |
| 16:55-17:15 | Dr. Jiajie Chen (Shenzhen University, China) (Contributed) Title: Optothermal Tweezers for Bio-Nanoparticles Manipulation and DNA Identification |
| 17:15-17:30 | Poster Awards Ceremony |
| To access the bio & abstract of the speakers, please visit: | |
| http://asia.lightconference.cn/introduce-pid-2-ty-6-tty-13.html | |

Innovation



- *Advanced Light Source*
- *Hyper-spectral Imaging*
- *Optics Manufacturing*

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Company Profile

Spectroscopy is an optical sensing technology that uses light as a messenger to detect matter's information. With the emergence of novel materials such as metamaterials, traditional energy spectra are insufficient to meet the detection demands. It needs to develop comprehensive spectral technologies capable of covering multi-dimensional light fields signals, such as momentum, polarization, phase, etc. Meanwhile, driven by the demands of high-throughput material analysis, it is imperative to systematically introduce artificial intelligence deep learning technology. We collectively refer to these technologies as Deep Spectroscopy.

Ideaoptics is the first spectral technology enterprise that develops Deep Spectroscopy based on photonic and artificial intelligence technology. We are working within applications including research & science, microelectronics, optoelectronics, photonics, energy, biomedicine and industrial inspection and metrology. We provide spectrometers, spectral systems and customized spectral analysis solutions. We use Deep Spectroscopy to help customers solve problems more efficiently and at lower cost.

- 2011 ● The first full-band UV-Vis-NIR miniature spectrometer in China.
- 2013 ● The first angle resolved spectrometer.
- 2014 ● The first angle-resolved micro-spectrometer.
- 2016 ● The first modular micro-spectroscopy system.
- 2021 ● The first optical metrology equipment for wafer-level AR optical waveguides.
- 2022 ● The first specialized optical measurement system of metalens and metasurfaces.

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