The 13th International Conference on Nanophotonics

Day 1，May-24		
Afternoon	Conference Registration	
Day 2，May-25		
Morning	Opening Ceremony & Plenary Session (Wenjin Hall, 3F)	
Afternoon	Session 1：Biophotonics (Qingzhiwu Hall, 4F)	Session 2：Nanoplasmonics, Nonlinear Optics, Quantum Optics and Nanolasers (Qinghefang Hall, 4F)
Dinner		
Day 3，May-26		
Morning	Session 1：Biophotonics (Qingzhiwu Hall, 4F)	Session 2：Nanoplasmonics, Nonlinear Optics, Quantum Optics and Nanolasers (Qinghefang Hall, 4F)
Afternoon	Session 1：Biophotonics (Qingzhiwu Hall, 4F)	Session 2：Nanoplasmonics, Nonlinear Optics, Quantum Optics and Nanolasers (Qinghefang Hall, 4F)
13：30-17：30	Poster Session (Wenxuan Lobby, 4F)	
17：30-20：00	Plenary Session&Welcome Banquet (Wenxuan Hall, 4F)	
Day 4，May-27		
Morning	Session 1：Biophotonics (Qingzhiwu Hall, 4F)	Session 3：Nano-optoelectronics, Self Assembly and Nanochemistry, and Green Nanophotonics (Qinghefang Hall, 4F)
Afternoon	Session 1：Biophotonics (Qingzhiwu Hall, 4F)	

Opening Ceremony & Plenary Talks

May 25, 2026
Wenjin Hall, 3F

Time	Content
09:00–09:15	Opening Ceremony
09:15–09:20	Group Photo
09:20–10:20	From Bio-SERS to Single-Molecule SECARS: Linking Molecular Sensing with Nonlinear Nanophotonics (Plenary) **Jürgen Popp**, Friedrich Schiller University, Jena, Germany
10:20–10:40	Coffee Break
10:40–11:40	Silicon Nanophotonics (Plenary) **Daoxin Dai**, Zhejiang University, China
11:40–13:30	Lunch

Session 1:Biophotonics

May 25, 2026
Qingzhiwu Hall, 4F

Time	Content
13:30–14:05	Biological Imaging at the Nanoscale – current methods and trends (Keynote) **Clemens F. Kaminski**, University of Cambridge, UK
14:05–14:30	Alpha-Synuclein Facilitates Dopamine Release in a Calcium- and Phosphorylation-Dependent Manner (Invited) **Gabriele S. Kaminski Schierle**, University of Cambridge, UK
14:30–14:50	Modulating cellular uptake of nanoparticles using 808 nm laser light (Invited) **Iuliia Golovynska**, Shenzhen University, China
14:50–15:05	Theranostic application of stem cells labeled with NIR/visible fluorescent nanoparticles for brain neuroinflammation targeting (Oral) **Rana Zaki Abdul Bari**, Shenzhen University, China
15:05–15:20	Borophene Quantum Dots: A Promising 2D-Derived Nanomaterial for Photothermal Therapy (Oral) **Thankaraj Salammal Sheena**, Shenzhen University, China
15:20–15:40	Coffee Break
15:40–16:15	Optical trapping enabled magnetic resonance sensing with bright fluorescent nanodiamonds (Keynote) **Peter Reece**, University of New South Wales, Australia
16:15–16:40	Volumetric Raman Imaging (Invited) **Xueli Chen**, Xidian University, China
16:40–17:00	Optical transparency windows in near-infrared and short-wave infrared for head and brain: Tissue optical properties, fluorescence bioimaging, and phototherapy (Invited) **Sergii Golovynskyi**, Shenzhen University, China
17:00–17:15	Multifunctional biocompatible oxide-based semiconductors for visible–NIR bioimaging and mechanoluminescent sensing (Oral) **Abeeha Batool**, Shenzhen University, China
17:15–17:30	Sulfur-Coordinated Manganese Single-Atom Catalyst in N,C Framework on rGO for Efficient Tumor Suppression (Oral) **Jamil A. Buledi**, Shenzhen University, China
17:30–17:45	Lysozyme Nanocrystals for Synergistic Antimicrobial Treatment (Oral) **Kinza Arshad**, Shenzhen University, China
17:45–18:00	Thermally Optimized CdS@TiO_2 Heterostructures for Selective Cancer Cell Suppression and Tumor Inhibition in Mouse Model (Oral) **Swarup Kumar Tarai**, Shenzhen University, China
18:00	Dinner

Session 2:Nanoplasmonics, Nonlinear Optics, Quantum Optics and Nanolasers

May 25, 2026
Qinghefang Hall, 4F

Time	Content
13:30–14:05	Integrated-photonic quantum computing and networking (Keynote) **Jianwei Wang**, Peking University, China
14:05–14:40	Second Harmonic Generation at the Nanoscale: From Hyper Rayleigh to Second Harmonic Scattering (Keynote) **Pierre François-Brevet**, Université Claude Bernard Lyon 1, France
14:40–15:00	Efficient cross-band frequency conversion in microcavity photonics (Invited) **Qitao Cao**, Peking University, China
15:00–15:20	Excitons in Atomically Thin Two-Dimensional Semiconductors: Property Engineering and Coherent Light Sources (Invited) **Jiaxin Yu**, University of Shanghai for Science and Technology, China
15:20–15:40	Coffee Break
15:40–16:15	Metalasers with arbitrary wave front (Keynote) **Qinghai Song**, Harbin Institute of Technology (Shenzhen), China
16:15–16:40	Chirality nonlinear optics with 2D materials (Invited) **Yi Zhang**, Northwestern Polytechnical University, China
16:40–17:05	Random fiber laser for transform-limited pulse generation and distributed sensing (Invited) **Walter Margulis**, Pontifical Catholic University of Rio de Janeiro, Brazil
17:05–17:30	Science and application of random lasers (Invited) **Zhijia Hu**, Anhui University, China
17:30–17:45	Reconfigurable photothermal doping filament for selective spin manipulation and addressing (Oral) **Zhiwei Liu**, University of Science and Technology of China, China
17:45–18:00	A self-referenced microsphere probe for dipole-resolved population measurement (Oral) **Guangyu Dai**, University of Shanghai for Science and Technology, China
18:00–18:15	Complex exciton-plasmon coupling in WS_2coupled with different plasmonic cavities (Oral) **Sahil Rathi**, Physical Research Laboratory, India
18:15-	Dinner

Session 1:Biophotonics

May 26, 2026
Qingzhiwu Hall, 4F

Time	Content
09:00–09:35	Point-Scanning Super-Resolution: From STED to Depletion-Free, Isotropic, and AI-Enhanced (Keynote) **Junle Qu**, Shenzhen University, China
09:35–10:10	Label-free optical biosensing: going beyond the limits using novel nanophotonic architectures (Keynote) **Andrei V. Kabashin**, Aix-Marseille University, France
10:10–10:45	Organic polymeric optical materials (Keynote) **Dan Ding**, Nankai University, China
10:45–11:10	NIR light excited therapy and diagnosis (Invited) **Bobo Gu**, Shanghai Jiao Tong University, China
11:10–11:30	Nonlinear Super-Resolution Imaging in Deep Tissue (Invited) **Chenshuang Zhang**, Shenzhen University, China
11:30–13:30	Lunch
13:30–13:55	Multifunctional Hemoporfin-based nanoparticles for enhancing photodynamic therapy (Invited) **Buhong Li**, Hainan University, China
13:55–14:20	Tissue Optical Clearing Imaging: From Ex Vivo to In Vivo (Invited) **Dan Zhu**, Huazhong University of Science and Technology, China
14:20–14:45	3D High-Content Pathology and Its Applications in Tumor Immunology(Invited) **Peng Fei**,Huazhong University of Science and Technology, China
14:45–15:05	Preparation of plasmonic enhanced Raman substrates and AI-assisted diagnosis application of CNS-related diseases (Invited) **Dongjie Zhang**, Xidian University, China
15:05–15:25	Structure identification and quantitation of chiral drugs based on a home-built polarized Raman microscope (Invited) **Jing Huang**, South China Normal University, China
15:25–15:45	Coffee Break
15:45–16:05	Integration of SERS and Artificial Intelligence for Biological Sample Analysis (Invited) **Lin Shi**, Xidian University, China
16:05–16:20	Engineered 3D Plasmonic Hotspots via Spherical Nucleic Acids Enrichment (Oral) **Ying Zheng**, Xidian University, China
16:20–16:35	Mitochondria-targeting multifunctional carbon dots for cascaded copper detection: intracellularly and biological fluids (Oral) **Samran Durrani**, Shenzhen University, China

Session 2:Nanoplasmonics, Nonlinear Optics, Quantum Optics and Nanolasers

May 26, 2026
Qinghefang Hall, 4F

Time	Content
09:00–09:35	Extreme Complex Spatiotemporal Structuring of Light (Keynote) **Qiwen Zhan**, Westlake University, China
09:35–10:00	Ultra-weak force measurement with optical levitation in vacuum (Invited) **Fangwen Sun**, University of Science and Technology of China, China
10:00–10:25	Multifunctional metasurface based on TFLN platform (Invited) **Tao Li**, Nanjing University, China
10:25–10:50	Ultra-miniature and sensitive optical fiber-tip gas sensors: from photothermal to photoacoustic spectroscopy technology (Invited) **Aping Zhang**, The Hong Kong Polytechnic University, China
10:50–11:15	Ultrasensitive sensing based on plasmonic lasing with ultralow threshold (Invited) **Bowen Liu**, Chongqing University, China
11:15–13:30	Lunch
13:30–14:05	Nanomaterials or “nanocriticalmaterials”? (Keynote) **Anderson Gomes**, Universidade Federal of Pernambuco, Brazil
14:05–14:40	Design of Nanoparticles for Precision Plasmonics (Keynote) **Hans Ågren**, Uppsala University, Sweden
14:40–15:05	Novel effects in light-responsive polymeric composites (Invited) **Emiliano Descrovi**, Politecnico di Torino, Italy
15:05–15:30	Two-dimensional multi-beam steering based on optical phase array (Invited) **Yaocheng Shi**, Zhejiang University, China
15:30–15:50	Controllable Exciton Management in Advanced and Efficient Organic light-emitting diodes (OLEDs) (Invited) **Guodan Wei**, Tsinghua Shenzhen International Graduate School, China
15:50–16:05	Sub-micron, wide-field quantum imaging with undetected photons(Oral) **Qinwei Liu**, Zhejiang University, China

Plenary & Dinner

Wenxuan Hall, 4F

Time	Content
17:30–18:30	Neuro-Nanophotonics: Integrating Nanophotonics with Neurobiotechnology, Artificial Intelligence and Quantum Science for Brain Theranostic (Plenary) **Paras N Prasad**, University at Buffalo, USA
18:30–	Welcome Banquet

Session 1:Biophotonics

May 27, 2026
Qingzhiwu Hall, 4F

Time	Content
09:00–09:35	Brightness modulation of lanthanide-doped upconversion nanoparticles (Keynote) **Guanying Chen**, Harbin Institute of Technology, China
09:35–10:10	NIR-II Fluorescence Imaging for Biomedical Applications (Keynote) **Jun Qian**, Zhejiang University, China
10:10–10:35	Manipulating intermolecular electron transfer in organic photosensitizer for efficient Type I photodynamic therapy (Invited) **Wenbo Hu**, Northwestern Polytechnical University, China
10:35–10:55	Flexible tactile sensors and intelligent touch (Invited) **Rongrong Bao**, Beihang University, China
10:55–11:15	Spectral manipulation and X-ray imaging based on lanthanide-doped fluoride materials (Invited) **Lei Lei**, China Jiliang University, China
11:15–11:35	In vivo in situ microscopic imaging based on multimode fibers (Invited) **Zhong Wen**, Zhejiang University, China
11:35–13:30	Lunch
13:30–13:50	High spatiotemporal light-field microscopy with physics-assisted deep-learning reconstruction (Invited) **Dongyu Li**, Huazhong University of Science and Technology, China
13:50–14:10	Long-wavelength light excited photodynamic therapy (Invited) **Shaowei Wang**, Xi'an Jiaotong University, China
14:10–14:30	Development of Multifunctional Nanoprobes in the Second Near-Infrared Region and Their Application in Biomedical Optical Diagnosis and Therapy (Invited) **Nuernisha Alifu**, Xinjiang Medical University, China
14:30–14:50	NIR fluorescence optical window and bioimaging (Invited) **Zhe Feng**, Zhejiang University, China
14:50–15:05	A NIR-II AIEgen-Antibody Conjugate Enables Combined Photoimmunotherapy of Advanced Pancreatic Cancer (Oral) **Jinxian Wu**, Hainan University, China
15:05–15:20	Photo-Empowered Macrophage-Based Drug Delivery System Overcomes Motility Suppression and Significantly Enhances Deep Tumor Drug Delivery (Oral) **Zhaoming Fu**, Hainan University, China
15:20–15:40	Coffee Break
15:40–15:55	Balloon-assisted photoacoustic endoscopy for long-working-distance esophageal imaging (Oral) **Julin Xiao**, Zhejiang University, China
15:55–16:10	Imaging window selection for NIR fluorescence wide-field microscopy and its biological applications (Oral) **Baixuan Wu**, Zhejiang University, China

Session 3: Nano-optoelectronics, Self Assembly and Nanochemistry, and Green Nanophotonics

May 27, 2026
Qinghefang Hall, 4F

Time	Content
09:00–09:35	Ln^{3+}-doped Cholesteric Films of Cellulose Nanocrystals: Influence on Lanthanide Spectroscopy and Photonic Applications (Keynote) **José Maurício A. Caiut**, University of São Paulo, Brazil
09:35–10:00	Synthesis and Hybridization of Perovskite Nanocrystals for Photonic Applications (Invited) **Feng Wang**, City University of Hong Kong, China
10:00–10:25	Breaking the conventional limits of lanthanide-doped nanoparticles by fabricating heterostructures (Invited) **Zhongzheng Yu**, University of Cambridge, UK
10:25–10:45	Wide-Bandgap Quantum-Dot Photodetectors for Deep-UV Detection and Imaging (Invited) **Jun Hu**, Zhejiang University, China
10:45–11:05	Laser-generated nanoobjects for broadband nanophotonics (Invited) **Ekaterina V. Barmina**, Prokhorov General Physics Institute, Russia
11:05–11:20	Graphene/Aluminum Quantum Dots/p-GaN Heterostructure for Self-Powered Deep-UV Photodetection and Light-Intensity-Tunable Bipolar Photoresponse (Oral) **Hao Wu**, Hangzhou City University, China
11:20–13:30	Lunch

Poster information

May 26,2026
Wenxuan Lobby, 4F
13:30-17:30
Q&A and Scoring 16:30-17:30

No.	Content
1	Plasmonic effect of metal nanoparticles on luminescence and Raman scattering of two-dimensional MoS2 and HfS2 **Sergii Golovynskyi**, Shenzhen University,China
2	A near-infrared triggered multi-functional indocyanine green nanocomposite with NO gas release function inducing improved photothermal therapy **Haiyang Wang**, Xinjiang Medical University, China
3	Targeted Theranostic Nanoprobes Assisted In Vivo NIR-II Fluorescence Imaging-Guided Surgery Therapy for Alveolar Echinococcosis **Chi Zhang**, Xinjiang Medical University, China
4	Cobalt-Coordinated Boron Single-Atom Catalysts on Reduced Graphene Oxide within an N,C Framework for Enhanced Antitumor Therapy **Anwar Ul Haq**, Shenzhen University,China
5	Tuning endocytosis and exocytosis of luminescent nanoparticles via serum concentration in cell culture medium **Iuliia Golovynska**, Shenzhen University,China
6	Synthesis, Characterization, and Imaging Study of a Second Near-Infrared Window Fluorescent Molecular Probe Targeting Carbonic Anhydrase IX in Clear Cell Renal Cell Carcinoma **Jiateng Wang**, The First Affiliated Hospital of Xinjiang Medical University, China
7	Acid-Responsive Membrane-Anchoring/Click Reaction Cascade-Mediated Precision Adjuvant Photodynamic Therapy for Postoperative Bladder Cance **Weijie Zhang**, The First Affiliated Hospital of Xinjiang Medical University, China
8	Theranostic nanoprobes assisted NIR-II fluorescence imaging for efficient angiography and tumour therapy **Yuxiang Gao**, Xinjiang Medical University, China
9	Structural, microstructure, optical, thermal, and dielectric properties of Sr1-xKxFeNbO6, $0 \leq X \leq 0.8$, double perovskite for optoelectronic and wireless applications **Kamran Ullah**, Shenzhen University,China
10	Antitumor Nanomedicine Targeting Telomere/Telomerase System Integrated Diagnosis and Treatment **Jiayi Chen**, Zhejiang University,China
11	Nanobiophotonics: Imaging, Sensing, Nanomedicine — From Physical Principles to Precision Immuno-Oncology **Yishen Mao**, The First Affiliated Hospital of Xinjiang Medical University, China

12	Experimental Study on PSMA-Targeted NIR-Il Fluorescence/MRI Dual-Modal Imaging for Prostate Cancer Diagnosis **Zubeila Aihemaiti**, The First Affiliated Hospital of Xinjiang Medical University, China
13	A Novel Au NanoarrayPerovskite@SiO_2 Platform for Vibronic Coupling-Enhanced SERS **Xiaodong Li**, Xidian University,China
14	A novel integrin-targeted NIR-II nanoprobe enables precise surgical navigation for gastric cancer **Jiaxi Cheng**, Zhejiang University,China
15	Deep-tissue three-photon fluorescence imaging of kidney using methylene blue **Shunxin Wang**, Zhejiang University,China
16	Near infrared IIb reflection confocal microscopy imaging based on fiber optical circulator **Ziliang Chen**, Zhejiang University,China
17	Filter-Free Spectrally Selective Photodetectors for Single-Pixel Computational Imaging **Zhong Ji**, Xidian University,China
18	Germanium-substituted Xanthenoid Dye with Extended Blood Circulation for Safe, Stable, and High-Contrast Near-Infrared Imaging **Xiaolong Liu**, Zhejiang University,China
19	Deep-Tissue Super-Resolution Imaging of Living Arabidopsis Tissues with Airyscan **Haohong Gan**, Zhejiang University,China
20	NIR-II fluorescence projection technology for augmented reality surgical navigation **Zihang Liu**, Zhejiang University,China
21	Selecting an optimal imaging window for NIR fluorescence wide-field microscopy **Baixuan Wu**, Zhejiang University,China
22	Label-free Spatial-frequency-shift Super-resolution Imaging by Wavevector Resonance Modulation **Haonan Zhang**, Zhejiang University,China
23	Real-time synchronized optoelectronic single-shot imaging on a chip **Zhiyuan Liu**, Zhejiang University,China