

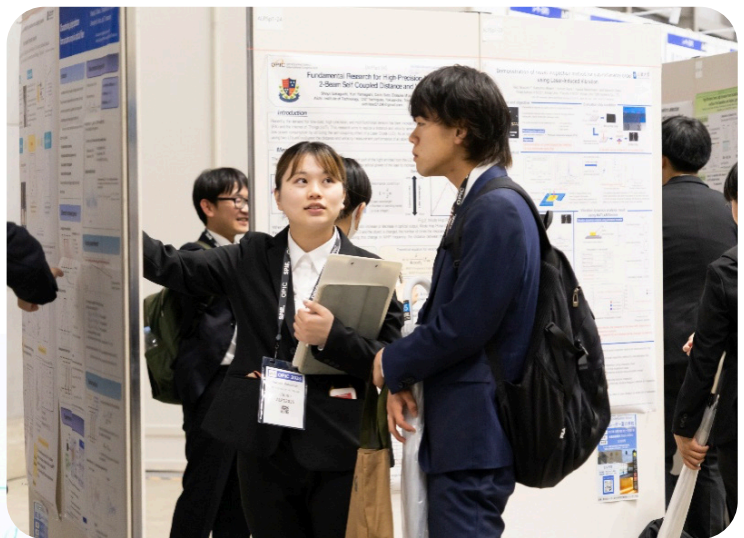
3rd Announcement

Co-located with  
OPTICS & PHOTONICS International Exhibition  
**OPIE '26**

# OPTICS & PHOTONICS International Congress **OPIC 2026**

**20-24 April, 2026**

Pacifico Yokohama, Japan  
<https://opicon.jp/>



**Registration is now open.**  
(Register by April 3 and save!)

Organized by



International Partners

**SPIE.** **PHOTONICS** MEDIA

# Technical Conferences

## ► ALPS2026

### Advanced Lasers and Photon Sources

Sponsored by: The Laser Society of Japan

Conference Chairs:



**Hitoki Yoneda**

The University of Electro-Communications, Japan



**Ruxin Li**

Shanghai Institute of Optics and Fine Mechanics,  
Chinese Academy of Science, China

## ► BISC2026

### Biomedical Imaging and Sensing Conference

Sponsored by: SPIE

Conference Chairs:



**Osamu Matoba**

Kobe University, Japan



**Yuan Luo**

National Taiwan University



**Yasuhiro Awatsuji**

Kyoto Institute of Technology, Japan



**Izumi Nishidate**

Tokyo University of Agriculture  
and Technology, Japan

## ► CPS-SNAP2026

### Cyber Physical Systems enabled by Sensing/Network/AI and Photonics Conference

Sponsored by: The Graduate School for the Creation of  
New Photonics Industries

Conference Chairs:



**Naoya Wada**

National Institute of Information and  
Communication Technology, Japan

## ► FAAP2026

### The Future of Agriculture and Advanced Photonics – The Fusion of Science and Technology for Sustainable Food Production

Sponsored by: Executive Committee of “The Future of Agriculture  
and Advanced Photonics”

Conference Chairs:



**Satoshi Wada**

RIKEN, Japan

## ► HEDLA/HEDS2026

### International Conference on High Energy Density Laboratory Astrophysics / International Conference on High Energy Density Science

Sponsored by: Institute of Laser Engineering, The University  
of Osaka

Conference Chairs:



**Ryosuke Kodama**

The University of Osaka, Japan



**Takayoshi Sano**

Institute of Laser Engineering, The University of  
Osaka, Japan

## ► ICNNQ2026

### International Conference on Nano-photonics, Nano- optoelectronics and Quantum technology

Sponsored by: Institute for Nano Quantum Information  
Electronics, The University of Tokyo

Conference Chairs:



**Yasuhiko Arakawa**

The University of Tokyo, Japan



**Jonathan Finley**

Technical University of Munich, Germany

## ► IP2026

### Information Photonics

Sponsored by: The Optical Society of Japan

Conference Chairs:



**Yoshio Hayasaki**

Utsunomiya  
University, Japan



**Jae-Hyeung Park**

Seoul National  
University,  
Korea



**Stephan Reichelt**

University of  
Stuttgart,  
Germany



**Liangcai Cao**

Tsinghua  
University,  
China

## ► LDC2026

### Laser Display, Imaging and Lighting Conference

Sponsored by: The Optical Society of Japan

Conference Chairs:



**Honorary Chair  
Kazuo Kuroda**

The University  
of Tokyo, Japan



**Hiroshi Murata**

Mie University,  
Japan



**Fergal Shevlin**

DYOPTYKA,  
Ireland

► **LEDIA2026**

**International Conference on Light-Emitting Devices and Their Industrial Applications**

*Sponsored by:* JACG (The Japanese Association for Crystal Growth)

Conference Chairs:



**Hiroshi Amano**  
Nagoya University, Japan

► **LSC2026**

**Conference on Laser and Synchrotron Radiation Combination Experiment**

*Sponsored by:* Institute of Laser Engineering, The University of Osaka

Conference Chairs:



**Toshihiko Shimizu**  
The University of Osaka, Japan

► **LSSE2026**

**Laser Solution for Space and the Earth**

*Sponsored by:* The Executive Committee of Laser Solution for Space and the Earth

Conference Chairs:



**Satoshi Wada**  
RIKEN, Japan

► **META2026**

**Meta Photonics: Design, Fabrication, Characterization, and Applications**

*Sponsored by:* City University of Hong Kong, RIKEN Center for Advanced Photonics

Conference Chairs:



**Din Ping Tsai**  
City University of Hong Kong



**Takuo Tanaka**  
RIKEN, Japan

► **OMC2026**

**Optical Manipulation and Structured Materials Conference**

*Sponsored by:* SPIE, Transformative Research Areas "Revolution of Chiral Materials Science using Helical Light Fields"

Conference Chairs:



**Takashige Omatsu**  
Chiba University, Japan



**Sile Nic Chormaic**  
Okinawa Institute of Science and Technology Graduate University, Japan



**Kishan Dholakia**  
The University of Adelaide, Australia

► **OPTM2026**

**Optical Technology and Measurement for Industrial Applications Conference**

*Sponsored by:* SPIE, Technical Committee for Mechano-Photonics

The Japan Society for Precision Engineering

Conference Chairs:



**Rainer Tutsch**  
Technische Universität Braunschweig, Germany



**Mariko Kajima**  
National Institute of Advanced Industrial Science and Technology, Japan



**Nathan Hagen**  
Utsunomiya University, Japan



**Yasuhiko Mizutani**  
The University of Osaka, Japan

► **OWPT2026**

**Optical Wireless and Fiber Power Transmission Conference**

*Sponsored by:* The Laser Society of Japan

Study Group of Optical Wireless Power Transmission

Conference Chairs:



**Tomoyuki Miyamoto**  
Institute of Science Tokyo, Japan



**Kensuke Ikeda**  
Central Research Institute of Electric Power Industry, Japan

► **SLPC2026**

**Smart Laser Processing Conference**

*Sponsored by:* Japan Laser Processing Society

Conference Chairs:



**Masahiro Tsukamoto**  
Joining and Welding Research Institute, The University of Osaka, Japan



**Andreas Ostendorf**  
Ruhr University Bochum, Germany

► **TILA-LIC2026**

**Tiny Integrated Laser and Laser Ignition Conference**

*Sponsored by:* Micro Solid-State Photonics Association

Conference Chairs:



**Takunori Taira**  
RIKEN, Japan

► **XOPT2026**

**International Conference on X-ray Optics and Applications**

*Sponsored by:* RIKEN SPring-8 Center, Research Center for Precision Engineering

The University of Osaka, Technical Committee for Ultraprecision

Machining of The Japan Society for Precision Engineering

Conference Chairs:



**Kazuto Yamauchi**  
The University of Osaka, Japan



**Makina Yabashi**  
RIKEN, Japan

## OPIC 2026 Plenary Speakers

**Wednesday, 22 April 2026**  
**16:15 - 18:45**



**Dr. Heike Riel**

IBM Fellow, Department Head Science & Technology, IBM Research Europe – Zurich, Switzerland

**Nanostructures and nanodevices toward quantum technology applications**

**16:15-17:05**



**Prof. Susumu Noda**

Institute for Advanced Study, Kyoto University (KUIAS), Japan

**Progress of Photonic Crystals: from Fundamentals to Social Implementation**

**17:05-17:55**



**Prof. Chris Barty**

University of California, Irvine and Lumentron Technologies, Inc., USA

**Finding and Treating Cancer in an Instant: The Promise of Distributed Charge Compton Sources**

**17:55-18:45**

## Tutorial Session

### Tutorial 1 - Monday, 20 April 2026

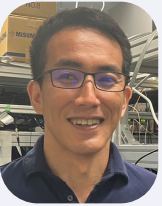


#### **Masaki Tokurakawa**

Institute for Laser Science, University of Electro-Communications

**“Mid-infrared lasers – fundamentals and recent progress”**

**13:00-14:00**



#### **Tomoyuki Horikiri**

Yokohama National University/ LQUOM, Inc.

**“Development of quantum repeaters towards the quantum internet”**

**14:00-15:00**



#### **Atsushi Uchida**

Saitama University

**“Recent developments in photonic artificial intelligence”**

**15:00-16:00**

### Tutorial 2 - Tuesday, 21 April 2026



#### **Hiroyuki Yokoyama**

Tohoku University

**“Novel functional operations of strongly pulse-driven semiconductor lasers”**

**13:00-14:00**



#### **Takasumi Tanabe**

Keio University

**“Microresonator frequency comb for THz transmittance and signal processing”**

**14:00-15:00**



#### **Godai Miyaji**

Tokyo University of Agriculture and Technology

**“Ultrashort pulse laser material processing: how do ultrashort laser pulses work in materials?”**

**15:00-16:00**



# Invited Speakers

## ► ALPS2026

### Nazar Kovalenko

Helmut Schmidt University, Germany  
"Polycrystalline and Single-crystal Cr:ZnS Materials for Ultrafast Lasers: Challenges and Prospects"

### Chunhui Yang

Harbin Institute of Technology  
"The growth of ZGP crystals and their applications in Mid-IR nonlinear optics"

### Lijuan Liu

Technical Institute of Physics and Chemistry  
"Progress in KBe<sub>2</sub>BO<sub>3</sub>F<sub>2</sub> crystal growth, device fabrication, and deep-UV lasers generation"

### Maksym Buryi

The Institute of Plasma Physics of the Czech Academy of Sciences, Czech  
"Role of Er Doping in Paramagnetic Point Defect-Driven Morphology and Luminescence of ZnO Nanorods"

### Kheirreddine Lebbou

Université Claude Bernard Lyon 1, France  
"Large Ti-doped sapphire crystal grown by Kyropoulos technology for high power laser chain"

### Takeshi Higashiguchi

Utsunomiya University, Japan  
"Multiple solid-state-laser pulse irradiation system for EUV emission (tentative)"

### Enhao Li

Shanghai Institute of Optics and Fine Mechanics, China  
"Holmium-doped high-power lasers and their potential applications in driving LPP-EUV light sources"

### Marcus Seidel

Deutsches Elektronen-Synchrotron (DESY), Germany  
"Peak-power scaling of nonlinear pulse compression with multi-pass cells"

### Ye Tian

Shanghai Institute of Optics and Fine Mechanics, China  
"Intense Terahertz Sources for the Time-Resolved Control of Phonon and Electron Dynamics"

### Kyung Taec Kim

Gwangju Institute of Science & Technology, Korea  
"Ultra-high-fidelity temporal metrology of laser pulses based on tunneling ionization"

### Hiroyuki Harada

Japan Atomic Energy Agency, Japan  
"High Intensity Proton Accelerator Driven by Laser Technology"

### Leily Kiani

(Lawrence Livermore National Laboratory, USA)  
"Demonstration of a 1 TW peak power, joule-level ultrashort Tm:YLF laser"

### Satoshi Ashihara

The University of Tokyo, Japan  
"Mid-Infrared Solid-State Lasers for Advanced Vibrational Spectroscopy"

### Minglie Hu

Tianjin University, China  
"High-Performance Deep-Ultraviolet Picosecond and Femtosecond Lasers"

### Richard Mildren

Macquarie University, Australia  
"Diamond Raman lasers as high power linewidth narrowers (tentative)"

### Masamori Endo

Tokai University, Japan  
"Fully Planar Solar-Pumped Fiber Lasers: Current Status and Future Prospects"

### Michal Chyla

HiLASE Centre, Institute of Physics, Czech Academy of Sciences, Czechia  
"Advances in High Average Power Laser Technology at HiLASE Centre"

### Kentaro Sakai

National Institute for fusion science, Japan  
"Development of a mid-infrared laser for next-generation EUV light sources"

### Thanh-Hung Dinh

National Institutes for Quantum Science and Technology (QST), Japan  
"Compact Coherent EUV Light Source: Recent Developments and Applications at QST-KPSI"

### Bong Joo Kang

Korea Research Institute of Chemical Technology (KRICT), Korea  
"Time-resolved THz Stark spectroscopy of molecules in solution"

### Tsuneyuki Ozaki

Institut national de la recherche scientifique (INRS), Canada  
"Interplay of THz Nonlinearities in InSb in the Strong-Field THz Regime"

### Auro Perego

Aston University, UK  
"Optical Darboux transform for solitons: multiplexing and demultiplexing in the nonlinear Fourier domain"

### Cheng Zhang

Huazhong University of Science and Technology, China  
"Ultraviolet Light Beam Shaping by Dielectric Metasurfaces"

### Vygantas Mizeikis

Shizuoka University, Japan  
"Realization of form birefringence through femtosecond laser printing"

### Shuhei Ichikawa

Osaka University, Japan  
"Circularly Polarized InGaN Light Emitters Integrated with Metasurface"

### Robert Murray

Imperial College London, UK  
"2.94  $\mu$ m Laser Ablation Ambient Mass Spectrometry Imaging For Cellular Scale Metabolic Imaging"

### Yoshinori Harada

Kyoto Prefectural University of Medicine, Japan  
"Cryo-Raman Spectroscopy Reveals Cardiac Cycle-Linked Redox Dynamics"

### Jianqi Hu

The University of Hong Kong, China  
"Towards self-referenced optical frequency combs on chip"

### Tobias Herr

Deutsches Elektronen-Synchrotron (DESY), Germany  
"Frequency combs in nanostructured microresonators"

### Birgitta Bernhardt

Institute of Experimental Physics Graz University of Technology, Austria  
"Dual comb spectroscopy with novel frequency comb sources"

### Martin Fermann

IMRA America, USA  
"Precision harmonically modelocked fiber frequency combs"

### Michele Giunta

Menlo systems, Germany  
"Advances in Precision Frequency Metrology with Optical Frequency Combs"

### Kaiyi Wu

Chalmers University of Technology, Sweden  
"Stabilized microcombs for high precision metrology applications"

### Paul-Antoine Moreau

National Cheng Kung University, Taiwan  
"Quantum Imaging, Fundamental and Practical Uses"

### Kai-Chi Chang

University of California, USA  
"High-dimensional Quantum Information Processing and Communication via Quantum Frequency Combs"

### Warit Asavanant

OptQC Corp., Japan  
"Development of Optical Quantum Computer"

## ► BISC2026

### Kaicheng Liang

Nanyang Technological University (NTU), Singapore  
"Ultraviolet-C light for biomedical microscopy: why, how, and what's next"

### Masaaki Sato

Kyoto Institute of Technology, Japan  
"A multi-scale optical imaging framework for linking neural activity, circuits, and behavior"

### Andy Harvey

University of Glasgow, United Kingdom  
"Computational 3D super-resolution microscopy in a snapshot"

### Uné Būtaité

University of Exeter, United Kingdom  
"An optical inverter for imaging through multi-mode fibres"

### Chao Zuo

Nanjing University of Science and Technology, China  
"Computational phase imaging for label-free 3D microscopy: noninterferometric phase retrieval and intensity diffraction tomography"

**Yasuaki Kumamoto**

Osaka University, Japan  
*"Random-Access Multipoint Raman Probes for In Situ Nerve Identification: From Instrumentation to Applications"*

**Yuji Matsuura**

Tohoku University, Japan  
*"Non-invasive blood component analysis using mid-infrared photothermal spectroscopy"*

**Dalip Mehta**

Indian Institute of Technology Delhi  
*"Multimodal and Multi-Spectral Microscopy with Virtual Staining Based Digital Pathology using Deep Neural Networks for Label-Free Detection of Cancer"*

**Rakesh Singh**

Indian Institute of Technology (BHU) Varanasi, India  
*"Decomposition-based quantitative analysis of Jones matrix microscopy"*

**Tom Vettenburg**

University of Dundee, UK  
*"Recovery of phase contrast behind scattering lipid layer"*

**Teruyoshi Nobukawa**

Japan Broadcasting Corporation (NHK), Japan  
*"Computational passive three-dimensional imaging via self-interference incoherent digital holography"*

**Lipei Song**

Nankai University, China  
*"Investigation on the information transmission ability of optical fiber modes for developing ultrathin fiber endoscope"*

**Pei-Kuen Wei**

National Taiwan University  
*"Monitoring Cell Viability via Surface Plasmon Resonance Imaging (SPRI) of Metallic Nanostructures"*

**► CPS-SNAP2026****Guillermo Carpintero**

Universidad Carlos III de Madrid  
*"Bridging the interconnection gap with dielectric waveguide technology"*

**Takanori Fukao**

The University of Tokyo  
*"Advances in LiDAR-related Sensing Technologies for Field Robotics"*

**Tamio Tanigawa**

National Institute of Advanced Industrial Science and Technology  
*"Human-Machine Collaborative System based on CPS"*

**Akinori Taira**

Mitsubishi Electric Corporation  
*"Terahertz Wave Sensing Technology for Visualizing Hidden Objects"*

**Keiichiro Kagawa**

Shizuoka University  
*"Time-compressive pseudo-direct LiDAR image sensors based on deep sensing"*

**► FAAP2026****Hiromichi Itoh**

Graduate School of Agricultural Science, Kobe University  
*"Application of Speaking Plant Approach to Growth Control of Saffron (Crocus sativus L.)"*

**Daisuke Yasutake**

Kyushu University  
*"Advanced Photonics for Non-destructive Root Growth Monitoring in Hydroponic Leafy Vegetables"*

**Yoshihisa Usami**

Farmship, Inc.  
*"From Lettuce to Matcha: Photonics- and AI-Driven Innovation in Plant Factories"*

**Kotaro Takayama**

Toyohashi University of Technology  
*"Implementing the Speaking Plant Approach for Advanced Environmental Control in Greenhouse Horticulture"*

**Xinyue Li**

Institute of Food Research, NARO  
*"Building and understanding the science-based NIR spectroscopy for measuring agricultural product quality"*

**Ricardo Inamasu**

Brazilian Agricultural Research Corporation (EMBRAPA)  
*"Agri Open Innovation: Efforts to Enhance Agricultural Productivity Through Open Innovation"*

**Tetsuo Iwaki**

Agri Open Innovation Institute  
*"Agri Open Innovation: Efforts to Enhance Agricultural Productivity Through Open Innovation"*

**Akane Mizusawa**

Tokyo University of Agriculture and Technology  
*"Enhancement of soybean growth with phosphate solubilizing bacteria and recycled phosphorus"*

**Sakae Shibusawa**

Tokyo University of Agriculture and Technology  
*"Fusion of Science and Technology for Sustainable Food Production"*

**Ryoei Kawabata**

LIFE AI  
*"Field-Driven Deployment of Organic Photovoltaics (OPV) for Agricultural Use in Japan"*

**► HEDLA/HEDS2026****Toshihiro Fujii**

Osaka Metropolitan University  
*"The Amaterasu particle: searching for the universe's most energetic particles"*

**Gianluca Gregori**

University of Oxford  
*"Accelerator's Experiments to Probe Beam Instabilities in Blazars' Pair Jets"*

**Guang-yue Hu**

University of Science and Technology of China  
*"Laboratory observation of ion drift acceleration via reflection off laser-produced magnetized collisionless shocks"*

**Hantao Ji**

Princeton University  
*"Magnetic Reconnection: Past, Present, Future, and HEDLA Experiments"*

**Daiji Kato**

National Institute for Fusion Science  
*"From high-density plasma experiments to kilonova spectra: Assessment of radiative transition probabilities for lanthanide ions"*

**Yohei Kawazura**

Utsunomiya University  
*"Inertial Range of MRI Turbulence and its Implications for Gyrokinetic Heating"*

**Yasuhiro Kuramitsu**

The University of Osaka  
*"Relativistic astrophysical plasmas in the laboratories: on the origins of cosmic rays"*

**Martin Lemoine**

Paris Cité University  
*"Particle acceleration and transport in magnetized turbulence"*

**Shuichi Matsuikiyo**

Kyushu University  
*"Spatiotemporal resolution of ion-scale structures in a magnetized plasma shock reproduced by using power laser experiment"*

**Yosuke Mizuno**

Shanghai Jiao Tong University  
*"Recent progress of GRMHD simulations of black hole accretion flows"*

**Haruhiko Saito**

The University of Tokyo  
*"Toward Experimental Studies of Ion High-Beta Plasma and Electron-Positron Plasma in Dipole Magnetic Fields"*

**Joao Santos**

University of Bordeaux  
*"Ion acceleration in quasi-critical plasmas using high-density transparent gas jets: towards high-repetition rate sources for fundamental science and applications"*

**Masaomi Tanaka**

Tohoku University  
*"Radiation from Heavy-Element Plasma in Neutron Star Mergers"*

**Petros Tzeferacos**

University of Rochester  
*"Laboratory Experiments of Astrophysical Processes in Magnetized Turbulence"*

**Suming Weng**

Shanghai Jiao Tong University  
*"Origin of the prolonged eclipse in spider pulsar binaries solved with advanced polarimetry with advanced polarimetry"*

**Weipeng Yao**

Sorbonne University  
*"Particle acceleration in laser-driven magnetised shocks and their collisions"*

**Dawei Yuan**

National Astronomical Observatories, Chinese Academy of Sciences  
"Electron stochastic acceleration in laboratory-produced kinetic turbulent plasmas"

**Gabriel Rigon**

LULI, Ecole Polytechnique  
"Hydrodynamic turbulence in Supernova Remnants: A laboratory astrophysics approach"

**Guillaume Loisel**

Sandia National Laboratories  
"The ZAPP collaboration: elucidating astrophysical puzzles using the Z facility"

**Steeffano Merlini**

Imperial College  
"Investigating Shock-Driven Turbulence in High Energy Density Plasmas at the MAGPIE pulsed-power facility"

**Archie Bott**

University of Oxford  
"Experimental characterisation of microturbulence-suppressed thermal conduction in weakly collisional, magnetised plasma"

**Vicente Valenzuela-Villaseca**

Lawrence Livermore National Laboratory  
"Frontiers in magnetized rotating plasmas: a path to accretion disc physics in the laboratory plasmas (tentative)"

**Xue-Ning Bai**

Tsinghua University  
"The magnetohydrodynamic-particle-in-cell method, its applications and extension"

**Timothy Johnson**

Lawrence Livermore National Laboratory  
"Biermann-Battery-Driven Magnetized Collisionless Shock Precursors in Laser-Produced Plasmas"

**Hiroya Yamaguchi**

Japan Aerospace Exploration Agency  
"XRISM and laboratory astrophysics (tentative)"

**Dongsu Ryu**

Ulsan National Institute of Science and Technology  
"Shock waves, turbulence, and particle acceleration in clusters of galaxies"

**Sabrina Nagel**

Lawrence Livermore National Laboratory  
"Experiments on high energy density Rayleigh Taylor and Richtmyer Meshkov flows at the National Ignition Facility"

**Luca Orusa**

Princeton University  
"Particle acceleration in perpendicular shocks: from the Lab to the Cosmos"

**Derek Schaeffer**

University of California, Los Angeles  
"Anomalous Electron Heating in Laboratory Magnetized Collisionless Shocks"

**Fabio Bacchini**

KU Leuven  
"Fully kinetic simulations of compact-object accretion and outflows"

**Tilo Doeppner**

Lawrence Livermore National Laboratory  
"Observing the onset of pressure-driven K-shell delocalization"

**Fan Guo**

Los Alamos National Laboratory  
"The Origin of Nonthermal Particle Acceleration during Magnetic Reconnection"

**Tim Ziegler**

Helmholtz-Zentrum Dresden-Rossendorf  
"Advancing the Energy Frontier of Plasma-Based Proton Acceleration with Petawatt Lasers"

**Chang Hee NAM**

Gwangju Institute of Science and Technology  
"High Energy Proton Generation from Ultrathin Solid Targets Driven by a Multi-PW Laser"

**► ICNNQ2026****Alfred Forchel**

University of Würzburg  
"Advances in Infrared Lasers for Trace Component Sensing"

**Connie Chang-Hasnain**

Chinese University of Hong Kong  
"Progress in vertical cavity surface emitting lasers"

**Takuo Tanemura**

The University of Tokyo  
"Light Manipulation with Functional and Electro-Optic Metasurfaces"

**Min Seok Jang**

KAIST  
"Single-gate dynamic beam switching metasurfaces"

**Takuya Inoue**

Kyoto University  
"High-power photonic-crystal surface-emitting lasers for long-distance free-space optical communications"

**Yu-Jung Lu**

Academia Sinica  
"Plasmon-Enhanced Exciton Relocalization in Quasi-2D Perovskites for Room-Temperature Plasmonic Lasing"

**Yung-Jr Hung**

National Sun Yat-sen University  
"Silicon photonic gyroscopes: tactical-grade precision at consumer cost"

**Daichi Kozawa**

NIMS  
"Deterministic Formation of Single Organic Color Centers in Single-Walled Carbon Nanotubes"

**Thomas Busch**

OIST Graduate University  
"Making statistics work: quantum engines in ultracold gases"

**Hai Son Nguyen**

Ecole Centrale de Lyon  
"Bound states in the continuum in photonic crystals"

**Jehyun Kim**

UNIST  
"Collective subradiant state from cavity-coupled multiple quantum emitters"

**Jesús Zúñiga Pérez**

CNRS  
"GaN room-temperature polaritons: from Bose-Einstein condensation to electrically-injected polariton lasers"

**► IP2026****Xin Yuan**

Hangzhou University  
"Snapshot Compressive Imaging Reconstruction: From Traditional AI to Generative AI"

**Susumu Fukatsu**

University of Tokyo  
"Revisiting Ghost Imaging in a New Light"

**Kazuuya Nakano**

Seikei University  
"Optical Imaging System for Medical Examination Using Visible Light"

**Hwi Kim**

Korea University  
"Wave-optic design algorithms for diffractive waveguide augmented reality displays"

**Stephan Reichelt**

University of Stuttgart  
"From Design to Reality: Camera-in-the-Loop Far-Field Holography"

**Wei-Feng Hsu**

National Taipei University of Technology  
"A Waveguideless Near-Eye Augmented-Reality Display Utilizing Coherent Backlight Units and Integral Imaging"

**Javier García Monreal**

Universitat de València  
"Cepstrum based interferometric imaging"

**► LDC2026****Takuro Ideguchi**

The University of Tokyo  
"Mid-Infrared Photothermal Microscopy for Live-Cell Imaging"

**Hideaki Kano**

Keio University  
"Coherent Raman Spectroscopic Imaging of the Brain: From Lipid Maturation to Subcellular Organelle Visualization"

**Mei Yang**

Xiamen University  
"Fabrication of GaN-based visible and UVA VCSELs"



**Motoaki Iwaya**

Meijo University  
"AlGaIn-based UV-B Laser Diodes: Growth-Temperature Optimization, >50% Carrier Injection Efficiency, and Room-Temperature CW Lasing at 318 nm"

**Jung Ping Liu**

Feng Chia University  
"Holographic Display by Binary Computer-Generated Holograms"

**Taro Beppu**

Sony Semiconductor Solutions  
"Long-Range and High-Resolution LiDAR Based on a Stacked SPAD Depth Sensor for Automotive LiDAR Applications"

**Tetsuhiko Muroi**

NHK  
"Incoherent Digital Holography Aiming to Capturing Three-Dimensional Video"

**Tomoyoshi Shimobaba**

Chiba University  
"Real-time 3D computer holography and its applications"

**Yoshinobu Matsuda**

Kyoto University  
"Full-color luminescent nitride semiconductor microstructures toward advanced optical functionality"

**Viktor Dubec**

Kvant  
"High-power visible laser beams and their safe application in art and industry"

**Wei Chia Su**

National Changhua University of Education  
"HOE fabrication"

**Wen Kai Lin**

National Yang Ming Chiao Tung University  
"HOE for near-eye display"

**Young Joo Kim**

Yonsei University  
"AI-driven pseudo laser source of high coherence and low speckle, and its application to digital holographic microscopy"

**Peter G. R. Smith**

University of Southampton  
"Wavefront control of transparent augmented reality display"

**Yasuhiro Takaki**

Tokyo University of Agriculture and Technology  
"Holographic contact lens display: R&D project overview and ultra-thin optical system"

**Haruki Mizushima**

Shinshu University  
"Perceptual characteristics with eye rotation angle compensation in holographic contact lens display"

**Takeo Miyake**

Waseda University  
"Materials, devices, and systems for holographic contact lens display"

**Kenji Yamamoto**

Tokushima University  
"Data computation and 3D perception for holographic contact lens display"

**Kenji Yamamoto**

Tokushima University  
"Data computation and 3D perception for holographic contact lens display"

**Seiga Kiribayashi**

SEQSENSE  
"LiDAR Technology in Security Robot SQ-2"

**Andrzej Kaczorowski**

SWAVE  
"Holographic display technology for AR"

**Manabu Nakamura**

CITIZEN FINEDEVICE  
"Development of ultra-compact and ultra-thin spatial light modulators for realizing holographic contact lens display"

**Taku Kinoshita**

SEED  
"Development of multilayer waterproof resin structure for holographic contact lens display"

**Harutaka Shiomi**

Kochi University  
"Computer-Generated Hologram Computation using Polynomial Approximation"

**Naru Usukura**

SHARP  
"Compact and Lightweight VR Glasses Featuring Double Path Pancake Optics"

**Daisuke Iwai**

Osaka University  
"When Light Becomes Matter: Perceptual Material Transformation in Projection Mapping"

**Genta Masada**

Tamagawa University  
"Quantum entanglement properties of two-mode squeezed light passing through a foggy space and its application to quantum LiDAR"

**Rui Nishiyama**

Stainley & CASIO  
"A novel guide luminaire using DOE"

**Masato Ishino**

Osaka University  
"Sky projection using laser and drone, at Yumeshima for EXPO2025, Kyoto International Conference Center, and Joso Kinugawa Fireworks Festival"

**► LEDIA2026****Tomohiro Nishitani**

Photo electron Soul  
"GaN Photoemission-Based Electron Beam Devices Enabling Innovative Metrology and Inspection in Semiconductor Manufacturing"

**Hiroyuki Sekiguchi**

Meijo University  
"Hybrid-Integrated MicroLED-Electrode Probes for High-Resolution Optogenetic Neural Modulation"

**Kazunobu Kojima**

Osaka University  
"Optical characterization of semiconductor crystals with high quantum efficiency of radiation"

**Takao Ota**

Yamagata University  
"Systematic investigation of exciton dynamics and emission efficiency in blue- and green-emitting InGaIn/GaN nanopyramids"

**Daisuke Iida**

King Abdullah University of Science and Technology/Taiyo Nippon Sanso Corporation  
"Challenges in InGaIn-based red micro-LEDs"

**Koichi Okamoto**

Osaka Metropolitan University  
"Engineering Light Emission in InGaIn/GaN QWs: Plasmon-Assisted and Cooperative Perspectives toward High-Speed and Energy-Efficient LEDs"

**Naoya Kumagai**

Tokyo University of Agriculture and Technology  
"High-Speed HVPE Homoepitaxial Growth of Thick AlN Layers for Wafer Fabrication"

**Yoshitaka Nakatsu**

Nichia Corporation  
"High Power GaIn-based laser diodes"

**► LSC2026****Tomohiko Saitoh**

Tokyo University of Science  
"Electronic Structure of Bulk Single-Crystalline In-Ga-Zn-O Revealed by Hard X-ray Photoemission Spectroscopy"

**Akihiko Ikeda**

The University of Electro-Communications  
"XFEL experiments above 100 T"

**Kazuki Ohishi**

CROSS  
"Operando Small- and Wide-Angle Neutron Scattering and Muon Spin Relaxation on Battery Materials"

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Hiroshima University  
"Spin-selective photoexcitation in topological surface states"

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University of Tsukuba  
"Ultrafast time-resolved scanning electron microscopy to characterize operando high-speed electronics"

**Takuo Sasaki**

QST  
"Real-Time Structural Analysis of III-Nitride Epitaxy Using Synchrotron XRD"

**Hirotake Itoh**

Kwansei Gakuin University  
"Terahertz Field-Induced Gigantic Enhancement of Electronic-Ferroelectric Polarization in LuFe2O4"

**Takuya Satoh**

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"Angular Momentum and Chirality of Phonons by Circularly Polarized Raman Scattering"

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JASRI  
"Deep prior-based denoising for scientific measurements"

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"X-ray detected ferromagnetic resonance spectroscopy for observation of spin and orbital currents"

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QST  
"NanoTerasu BL02U RIXS Instrument and the BL11W Tender Diffraction Beamline Plan"

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"Two types of all-optical switching in NiCo<sub>2</sub>O<sub>4</sub> thin films"

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"Quantitative measurement of photon-helicity-induced magnetic effects in metallic thin film heterostructures"

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Korea Institute of Science and Technology  
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"X-ray analyses of decorated glass beads excavated in Japan"

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"Charge-transfer cobalt-octacyanidotungstates exhibiting room temperature bistability and photoresponsivity"

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University of Hyogo  
"Wavelength-dependent Refractive Index Measurement of Transparent Materials via Image Analysis"

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University of Tokyo  
"Review of Recent Scintillation Study on Zero-dimensional Metal Halide Crystals and Their Evaluation with Synchrotron Facilities"

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RIKEN  
"Cross Correlation Phenomena in Altermagnets"

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"Contrasting annealing-induced electron doping in Ce-free T'-type cuprates: a XAFS study of La<sub>1.8</sub>Eu<sub>0.2</sub>CuO<sub>4</sub> and Pr<sub>2</sub>CuO<sub>4</sub>"

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Osaka University  
"Raman and XRF Analysis of 17th-Century Porcelain Excavated at the 1730 Jesuit House, Parian, Cebu City"

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Development all solid ultraviolet laser"

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"Ultrafast picosecond ultraviolet luminescence"

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Diagnostic and Research Institute of Pathology, Medical University of Graz  
"Technologies for a rapid response platform to CBRN threats"

**Sotaro Uemura**

Graduate School of Science, The University of Tokyo  
"Nanopore Single-Molecule Sensing as an Early-Warning Infrastructure for Biological Threats"

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National Institutes for Quantum Science and Technology (QST)  
"Development of high-power, high-repetition-rate Nd:YAG laser with a well-managed beam"

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Institute for Advanced Study, Kyoto University (KUIAS)  
"Photonic-Crystal Surface-Emitting Lasers as Solutions for Space and Earth"

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Institute for Laser Technology  
"Fabrication of construction materials for a lunar base using laser additive manufacturing"

**Jan Vanda**

HiLASE Centre  
"High-Power Lasers for Orbital Maintenance: From Terrestrial Laser Capabilities to Space Sustainability"

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The University of Electro-Communications  
"Observation of ultrahigh atmosphere from the ground - toward whole atmosphere lidar -"

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"New laser guide star system at the Subaru telescope and its astronomical application"

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Japan Agency for Marine-Earth Science and Technology  
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Research Institute for Applied Mechanics, Kyushu University  
"New perspective in clouds and climate studies by spaceborne active sensors"

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KAIST  
"Electronic Structure Descriptors for Selective CO<sub>2</sub> Reduction Reaction"

**Dongshuang Wu**

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"Seeing beyond the surface: uncovering electrochemical interfaces by near ambient-pressure operando HAXPES"

**Mengran Li**

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"Rigorous diagnosis for zero-gap membrane-electrode assemblies"

**Satoshi Kamiguchi**

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"Development of laser hammering vehicle for inspections of tunnel concrete"

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Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Science (SIOM)  
"A laser-plasma-based space radiation simulator"

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Department of Applied Chemistry, Kyung Hee University  
"Localized Water-Depleted Zones Enable Enhanced C2 Formation in Electrochemical CO2 Reduction"

**Minho Kim**

College of Applied Science, Department of Applied Chemistry, Kyung Hee University  
"Density functional study on the highly active and stable oxygen evolution electrocatalysts for renewable energy conversion (tentative)"

**Ko Hamamoto**

Japan Aerospace Exploration Agency (JAXA)  
"Overview of JAXA's Satellite-based LiDAR Altimeter Mission"

**Yoshihide Hayashizaki**

K.K.DNAFORM  
"Integrated Approach to Biological Threats - The Cutting Edge of Diagnostic Technology for Naturally Occurring Pandemics and Biological Weapons"

**Kengo Usui**

K.K.DNAFORM  
"Portable Nucleic Acid Detection Systems: Revolutionizing Approaches to Security"

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University of Turin and INFN Turin  
"The DISCARD and ORBITAC projects: development of a CubeSat for Space Debris Investigation, Tracking and Avoidance"

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Mines Paris - PSL  
"High power pulsed laser interaction for space debris propulsion"

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City University of Hong Kong  
"Harnessing the Local-Nonlocal Transition for High-Q Metasurface Resonances"

**Pin Chieh Wu**

National Cheng Kung University  
"Multi-Resonant Metasurfaces for Full-Spectrum Wavefront Engineering and Imaging Applications"

**Yu-Jung Lu**

Academia Sinica  
"From Ultrafast Exciton-Polariton Dynamics to Scalable Devices in MoS2-Nitride Plasmonic Heterostructures"

**Kentaro Iwami**

Tokyou University of Agriculture and Technology  
"Functional Metalenses and their Application to Instrumentation"

**Haruka Takekuma**

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"Intermetallic Compound Nanoparticles as Novel Plasmonic Materials"

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"Plasmonic Nanogap Reactors for Nanoscale Molecular Transformation and Sensing"

**► OMC2026****Natalia Litchinitser**

Duke University  
"Structuring polarization states of light in space and time"

**Haoran Ren**

Monash University  
"Structured Light Interfacing with Nanophotonic Structures"

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"Out-of-equilibrium dynamics of levitated nanoparticles"

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University of Adelaide  
"Sensing and rotation using light possessing orbital angular momentum"

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"Catch, move and twist using optically controlled quantum sensors"

**Malcolm Kadodwala**

University of Glasgow  
"Chiral Nanophotonics: Enabling Ultrasensitive Detection in Biophysical Measurements"

**Michael Damzen**

Imperial College London  
"Interferometric Generation of Vortex Light"

**Yu-Chieh Lin**

Riken  
"Harmonic Emission from Ultrafast Optical Vortex Beams in Quartz"

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Imperial College London  
"Towards microfluidic chips for efficient chiral recognition"

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National Taiwan University  
"Metasurface-Based Optical Elements for Biomedical Applications"

**Jyrki Saarinen**

University of Eastern Finland  
"3D printed optics challenging optical measurement"

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Yonsei University  
"Depth-enhanced computational microscopy for high-throughput, high-resolution optical imaging"

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"Efficient and accurate measurement of optical surfaces with computer generated holograms"

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"Data-driven single-frame fringe projection profilometry 3D reconstruction: network, dataset and system"

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"Geometric phase elements and their application to polarimetry"

**Rainer Tutsch**

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University of Ottawa  
"Design of C-band Photonic Power Converters and Their Application in Free Space Links"

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Space Solar  
"Space-based solar power"

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"Current status and prospects of III-V compound thin-film multi-junction solar cells"

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Fraunhofer Institute for Solar Energy  
"High Efficiency Photonic Power Converters: Current Status and Outlook"

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Institute of Science Tokyo  
"Wide-Bandgap Perovskite Photovoltaic Power Converter for Blue-Light Optical Wireless Power Transmission"

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NTT Space Environment and Energy Labs  
"Demonstration of high-efficient 1kW-1km laser transmission under strong atmospheric turbulence"

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"GaN based optical power converters for OWPT"

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Phion  
"Practicality of Optical Wireless Power Transfer for consumer electronic and IoT devices"

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PowerLight Technologies  
"Roadmap to The Future of Laser Power Beaming"

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National Institute of Advanced Industrial Science and Technology (AIST)  
"Advanced Ultrashort Pulse Laser Processing for Shaping the Future Industries"

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FURUKAWA ELECTRIC CO.  
"Advances in fiber lasers and blue diode lasers, and their latest laser process applications"

**Beat Neuenschwander**

Bern University of Applied Sciences, Institute for Applied Laser, Photonics and Surface Technologies ALPS, Switzerland  
"Progresses in Laser Material Processing with Ultrashort Pulsed Lasers and its Industrial Applications"

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Hiroshima University  
"High-Efficiency and Low-Heat-Input Additive Manufacturing Using Hot-Wire Laser Wire DED"

**Felix Sima**

National Institute for Laser, Plasma and Radiation Physics (INFLPR), Romania  
"Tailoring and up-scaling 3D laser processing of transparent materials for lab-on-a-chip applications"

**Mizue Mizoshiri**

Nagaoka University of Technology, Japan  
"Femtosecond laser multipulse-induced copper precipitation from glyoxylic acid copper complex"

**Evgeny Gurevich**

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**Yasuhiro Okamoto**

Hiroshima University  
"Effect of intensity distribution and its prospect in laser material processing"

**Camilo Florian**

Kassel University, Germany  
"Polymer replication of laser-induced periodic surface structures for robust wetting applications"

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Japan Atomic Energy Agency  
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**► TILA-LIC2026****Qiang Li**

Institute of Laser Engineering, Beijing University of Technology, China  
">200 W, high-brightness double-clad crystalline waveguide Yb:YAG laser"  
"Distributed Face Cooling Laser Gain Medium by Gradient Ceramic Interlayer Bonding"

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"High-performance New Lasers and Wavelength-conversion Devices"

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"Transfer integration of tiny lasers for enhanced performance and expanded functionality"

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Korea Advanced Institute of Science & Technology (KAIST), Daejeon, South Korea  
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RIKEN Quantum Computing (RIKEN RQC), Saitama, Japan  
"Pulsed laser systems for ultrafast manipulation of neutral atoms in quantum science"

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European XFEL  
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**Harald Sinn**

European XFEL  
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Mon. 20 April	Tue. 21 April	Wed. 22 April	Thu. 23 April	Fri. 24 April
<b>Registration</b>				
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<b>Tutorial</b>	<b>Tutorial</b>			
		<b>Poster Sessions</b>		
		<b>OPIE '26</b>	(Exhibition Hall)	

Registration Type		On/Before 3 April 2026	After 3 April 2026
General	Member	JPY 75,000	JPY 82,000
	Non-Member	JPY 89,000	JPY 95,000
Student / Retiree	Member	JPY 25,000	JPY 29,000
	Non-Member	JPY 29,000	JPY 32,000

5-5, Shin-Ogawamachi,  
Shinjuku-ku, Tokyo 162-0814, Japan  
Email : [contact@opicon.jp](mailto:contact@opicon.jp)

