PECS-XIII in TOKYO
The 13th International Symposium on Photonic and Electromagnetic Crystal Structures

Session information

Poster Session

Poster

Thu. Mar 30, 2023 1:30 PM - 3:30 PM TBD (1F)

[P-01] Resonant Photonic Crystal Interferometry for Sensing

Isabel Barth[1], *Thomas F Krauss[1] (1. York Univ.)

[P-02] Quasi Bound States in the continuum in InGaAs nanopillar array

*Sang woo Ki[1], Jin Kyu Yang[1] (1. Kongju National University)

[P-03] Light Trapping in a 3D Reciprocally Engineered Structure

*Meraj E Mustafa[1], Manfred Eich[1,2], Alexander Yu. Petrov[1,2]
(1. Institute of Optical and Electronic Materials, Hamburg University of Technology, Germany, 2. Institute of Photoelectrochemistry, Helmholtz Zentrum-Hereon, Germany)

[P-04] Short-Pulse, High-Peak-Power Photonic-Crystal Surface-Emitting Lasers based on Self-Evolving Photonic Crystals with Saturable Absorbers

*Ryohei Morita[1], Takuya Inoue[1], Takuma Ueda[1], Susumu Noda[1] (1. Kyoto University)

[P-05] Analysis of photonic band structure for InP/Si hetero twist-stacked photonic crystal slabs

*Yuki Ishii[1], Stepan Trushin[1], Guangtai Lu[2], Satoshi Iwamoto[2], Yasutomo Ota[1]
(1. Keio Univ., 2. RCAST, Univ. Tokyo)

[P-06] Realtime k-clock FMCW LSPCW LiDAR with loop recording

*Shumpei Yamazaki[1], Takemasa Tamanuki[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-07] Large-area radiation-loss-free zero-index states in photonic crystals

*Sho Watanabe[1,2], Kento Kawasaki[1,2], Yuto Moritake[1], Masaaki Ono[2,3], Eiichi Kuramochi[2,3], Masaya Notomi[1,2,3] (1. Tokyo Tech, 2. NTT BRL, 3. NTT NPC)

[P-08] Controlling light-matter interactions through bound states in the continuum

*Dario Gerace[1] (1. University of Pavia)

[P-09] Binary metasurface for efficient Ultraviolet Fluorescence Collection

*Kezheng Li[1], Augusto Martins[2], Sanket Bohora[3], Ashim Dhakal[3], Emiliano Martins[4], Thomas F Krauss[1]
(1. University of York, 2. Harvard University, 3. Phutung Research Institute, 4. Univeristy of Sao Paulo)

[P-10] Mid-infrared Molecular Fingerprint Detection with Chirped Dielectric Metasurface

*Kezheng Li[1], Pin Dong[1], Yue Wang[1], Thomas F. Krauss[1] (1. University of York)

[P-11] High transmission and polarization singularities in glide-symmetric photonic crystal waveguides with sharp bends

*Wei Dai[1], Taiki Yoda[2], Yuto Moritake[1], Masaya Notomi[1,2,3]
(1. Tokyo Tech, 2. NTT BRL, 3. NTT NPC)

[P-12] Experimental Investigation for Meron Polarization Textures in Band Structures of Valley Photonic Crystals

*Hironobu Yoshimi[1,2], Hibiki Kagami[3], Sho Okada[3], Wenbo Lin[4], Tomohiro Amemiya[3,5], Yasutomo Ota[6], Nobuhiko Nishiyama[3,5], Satoshi Iwamoto[1,2]
(1. RCAST, The Univ. of Tokyo, 2. IIS, The Univ. of Tokyo, 3. Department of Electrical and Electronic Engineering, Tokyo Institute of Technology, 4. KIS, The Univ. of Tokyo, 5. IIR, Tokyo Institute of Technology, 6. Department of Applied Physics and Physico-Informatics, Keio Univ.)

[P-13] Far-field photonic spin texture of thermal radiation from a non-isothermal nano-antenna

Parry Yu Chen[1], Chinmay Khandekar[2], Roy Ayash[1], Zubin Jacob[2], *Yonatan Y. Sivan[1]
(1. Ben-Gurion University, 2. Purdue University)

[P-14] Distinguishing thermal from non-thermal (“hot”) carriers in illuminated molecular junctions

Yonatan Dubi[1], ieng Wai Un[1], *Yonatan Y. Sivan[1] (1. Ben-Gurion University)

[P-15] The nonlinear optical response and non-equilibrium electron dynamics in ITO

Subhajit Sarkar[1], *Ieng Wai Un[1], Yonatan Y. Sivan[1] (1. Ben-Gurion University)

[P-16] Ultrafast “Hot” nonlinear photoluminescence from metals

Ieng Wai Un[1], Imon Kalyan[1], *Yonatan Y. Sivan[1] (1. Ben-Gurion University)

[P-17] Inverse design of CMOS-compatible silicon nitride nanophotonic resonators for integrated nonlinear optics systems

*Geun Ho Ahn[1], Alexander D. White[1], Jelena Vuckovic[1] (1. Stanford University)

[P-18] Nonlocal Exciton-Photon Interaction and Phononic Hybridization in High-Q Nanobeam Cavities with hBN-Encapsulated Monolayer MoS_2

Chenjiang Qian[1], Viviana Villafañe[1], Pedro Soubelet[1], Andreas V. Stier[1], *Jonathan J. Finley[1] (1. Walter Schottky Institut and Physik Department, Technische Universität München, Am Coulombwall 4, 85748 Garching, Germany)

[P-19] High-Q Two-dimensional Photonic Crystal Nanocavity on Glass with a Top Glass Plate

*Ryusei Kawata[1], Akinari Fujita[1], Pholsen Natthajuks[2], Satoshi Iwamoto[2], Yasutomo Ota[1] (1. Keio Univ., 2. Univ. Tokyo)

[P-20] A topological nanocavity in photonic crystal slabs exhibiting quadrupole topological phase

*Guangtai Lu[1], Yasutomo Ota[2], Satoshi Iwamoto[1] (1. The University of Tokyo, 2. Keio University)

[P-21] Impact incorporating hole-radius modulation in large-scale hole-position optimization of photonic crystal nanocavities

*Eiichi Kuramochi[1,2], Akihiko Shinya[1,2], Masaya Notomi[1,2] (1. Nanophotonics Center, NTT Corp., 2. NTT BRL)

[P-22] One Dimensional III-V Photonic Crystal Cavities on Silicon on Insulator for Frequency Comb Generation

*Loredana Maria Massaro[1], Fabrice Raineri[2]
(1. C2N, CNRS-Université Paris Saclay, France , 2. Institut de Physique de Nice, Université Côte d'Azur, France)

[P-23] Numerical Design of a GaAs Nanobeam Cavity on a Silicon Nitride Waveguide for Efficiently Generating Single Photons by Resonant Excitation

*Natthajuks Pholsen[1], Yasutomo Ota[2], Satoshi Iwamoto[1]
(1. The University of Tokyo, 2. Keio University)

[P-24] Informatic optimization of diamond nanobeam nanocavity for quantum photonic interface

*Keisuke Hirotani[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-25] Si photonic crystal slow-light waveguide optimized by informatics technology

*Keisuke Hirotani[1], Makoto Okano[2], Guangwei Cong[2], Noritsugu Yamamoto[2], Koji Yamada[2], Toshihiko Baba[1]
(1. Yokohama National University, 2. Advanced Industrial Science and Technology)

[P-26] Excitability in a PhC nanolaser with an integrated saturable absorber

Maxime Delmulle[1,2], *Bruno Garbin[1], Loredana Maria Massaro[1], Alexandre Bazin[1], Isabelle Sagnes[1], Konstantinos Pantzas[1], Sylvain Combrie[2], Alfredo De Rossi[2], Fabrice Raineri[1,3]
(1. Université Paris-Saclay, CNRS, Centre de Nanosciences et de Nanotechnologies, 91120 Palaiseau, France, 2. Thales Research and Technology, Campus Polytechnique, 1 avenue Augustin Fresnel, 91767 Palaiseau, France, 3. Université Côte d'Azur, Institut de Physique de Nice, CNRS–UMR 7010, Sophia Antipolis, France)

[P-27] Strong Chiral Light-Matter Interactions in a Waveguide-Coupled Photonic Crystal Nanocavity

*Nicholas John Martin[1], Dominic Hallett[1], Mateusz Duda[1], Luke Brunswick [1], René Dost[1], Luke Wilson[1] (1. University of Sheffield)

[P-28] Diamond Microdisk Resonators for Group-IV Color Center Cavity QED

*Jakob Grzesik[1], Daniel Riedel[1], Hope Lee[1], Daniil Lukin[1], Dominic Catanzaro[1], Eran Lustig[1], Jean-Michel Borit[1], Jelena Vuckovic[1] (1. Stanford University)

[P-29] Improving quality factors of hexapole point-defect photonic crystal nanocavities

*Kenta Takata[1,2], Eiichi Kuramochi[1,2], Akihiko Shinya[1,2], Masaya Notomi[1,2,3]
(1. NTT Nanophotonics Center, 2. NTT Basic Research Laboratories, 3. Tokyo Institute of Technology)

[P-30] Fabrication of 3D Photonic Band Gap Crystals from Silicon

*Melissa J Goodwin[1], Cornelis A M Harteveld[1], Lars J Corbijn van Willenswaard[1], Timon J Vreman[1], Andreas S Schulz[1], Diana A Grishina[1], Willem L Vos[1] (1. University of Twente)

[P-31] Photonic Energy Density and Scattering from Random and Periodic Arrays of Silicon Pillars

*Melissa J Goodwin[1], Ozan Akdemir[1], Linda Bitenc[1], Ad Lagendijk[1], Willem L Vos[1]
(1. University of Twente)

[P-32] Efficient Slow Light Grating Beam Scanner and 4D LiDAR Action

*Saneyuki Suyama[1], Shota Nawa[1], Makoto Okano[2], Guangwei Cong[2], Noritsugu Yamamoto[2], Koji Yamada[2], Toshihiko Baba[1]
(1. Yokohama National University, 2. Advanced Industrial Science and Technology)

[P-33] Direct quantification of robustness in topologically trivial and non-trivial photonic edge states at telecom wavelengths

*Sonakshi Arora[1], Thomas Bauer[1], Rene Barcyzk[2], Ewold Verhagen[2], L. Kobus Kuipers[1]
(1. Delft University of Technology, 2. AMOLF, Amsterdam)

[P-34] Microwave Observation of a Second-Order Topological Boundary State in a Three-Dimensional Woodpile Photonic Crystal

*Shun Takahashi[1], Yuya Ashida[1], Huyen Thanh Phan[2], Kenichi Yamashita[1], Tetsuya Ueda[1], Katsunori Wakabayashi[2], Satoshi Iwamoto[3]
(1. Kyoto Institute of Technology, 2. Kwansei Gakuin University, 3. The University of Tokyo)

[P-35] Dielectric Metasurfaces for Enhanced Mid-IR Spectroscopy of Solution Phase Analytes

*Soheila Kharratian[1,2], Donato Conteduca[2], Barbara Procacci[1], Daniel J. Shaw[1], Neil T. Hunt[1], Thomas F. Krauss[2]

(1. Department of Chemistry and York Biomedical Research Institute, University of York, York, UK, 2. School of Physics, Engineering and Technology, University of York, York, UK)

[P-36] Spontaneous Emission of PbS Quantum Dots Controlled by 2D Silicon Photonic Crystals

Timon Vreman[1], Pieter van Essen[1], Melissa Goodwin[1], Cornelis Harteveld[1], *Shun Takahashi[1,2], Willem Vos[1] (1. University of Twente, 2. Kyoto Institute of Technology)

[P-37] Zak Phase and the Existence of Topological States in Three-Dimensional Photonic Crystals

*Huyen Thanh Phan[1], Shun Takahashi[2], Satoshi Iwamoto[3], Katsunori Wakabayashi[1]
(1. Kwansei Gakuin University, Japan, 2. Kyoto Institute of Technology, Japan, 3. The University of Tokyo, Japan)

[P-38] High-*Q,* Inverse-Designed, Silicon Nitride L*x*-Type Photonic Crystal Cavities

*Peter Aubrey Heidt[1], Masato Takiguchi[1,2], Hisashi Sumikura[1,2], Akihiko Shinya[1,2], Masaya Notomi[1,2,3]
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[P-39] Dielectric metasurfaces for high resolution detection of lipid nanovesicles

*Donato Conteduca[1], Steven D Quinn[1], Thomas F Krauss[1] (1. University of York)

[P-40] Scaling Theory of Wave Confinement in Classical and Quantum Periodic Systems

*Marek Kozon[1,2], Ad Lagendijk[1], Matthias Schlottbom[2], Jaap J.W. van der Vegt[2], Willem L. Vos[1]
(1. Complex Photonic Systems (COPS), University of Twente, 2. Mathematics of Computational Science (MACS), University of Twente)

[P-41] Discontinuous Galerkin Method to Model Light Propagation in Photonic Crystals of any size

*Marek Kozon[1,2], Lars J. Corbijn van Willenswaard[1,2], Matthias Schlottbom[2], Willem L. Vos[1], Jaap J.W. van der Vegt[2]

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[P-42] Photon Confinement in 3D Photonic Band Gap Superlattices

*Marek Kozon[1,2], Matthias Schlottbom[2], Jaap J.W. van der Vegt[2], Willem L. Vos[1]
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[P-43] Towards efficient electro-optic transduction in thin-film lithium niobate

*Hana K Warner[1], Jeffrey Holzgrafe[1], David Barton[1], C.J. Xin[1], Emma Batson[2], Marco Colangelo[2], Di Zhu[1], Amirhassan Shams-Ansari[1], Graham Joe[1], Neil Sinclair[1,3], Karl K Berggren[2], Marko Loncar[1]
(1. John A. Paulson School of Engineering and Applied Sciences, Harvard University, USA, 2. Research Laboratory of Electronics, Massachusetts Institute of Technology, USA, 3. 3Division of Physics, Mathematics and Astronomy, and Alliance for Quantum Technologies, California)

[P-44] High NA, Low Profile Prism Lens for Beam Collimation in Si Photonic Crystal SLG Beam Scanner

Kohei Yamamoto Yamamoto[1], *Kohei Yamamoto Yamamoto[1], Mikiya Kamata Kamata[1], Ryo Tetsuya Tetsuya[1], Toshihiko Baba Baba[1] (1. Yokohama National University)

[P-45] Photonic Crystal Nanolaser Biosensor Improved by using Photo-Electrochemical Circuit

*Shoji Hachuda[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-46] Design of a nanocavity in an AlN-diamond hybrid nanobeam structure with a photonic band gap

*Yeting Yang[1,2,3], Siyuan Gao[1,2,3], Satoshi Iwamoto[1,2,3]
(1. University of Tokyo, 2. Research Center for Advanced Science and Technology, 3. Institute of industry science)

[P-47] Tailored OAM from Gain and Absorption in Three Coupled Microcavities

*Adam Mock Mock[1,2], Kenta Takata[1,3], Masaya Notomi[1,3,4]
(1. NTT Basic Research Laboratory, 2. School of Engineering and Technology, Central Michigan University, 3. Nanophotonics Center, NTT Corporation, 4. Department of Physics, Tokyo Institute of Technology)

[P-48] Photonic molecule using highly manufacturable Tamm optical states

*Talal Aqeel Alshammari[1], Ruth Oulton[1], Edmund Harbord[1] (1. University of Bristol)

[P-49] 64-Gbps 3.5-V_{pp} Si Photonic Crystal Slow Light Optical Modulators

*Keisuke Kawahara[1], Mikiya Kamata[1], Yosuke Hinakura[1], Makoto Okano[2], Guangwei Cong[2], Noritsugu Yamamoto[2], Koji Yamada[2], Toshihiko Baba[1] (1. Yokohama Nat'l Univ., 2. AIST)

[P-50] Non-Hermiticity Induced Unique Eigenstates in Periodic Plasmonic Systems

*Yuto Moritake[1], Taiki Yoda[2,3], Masaya Notomi[1,2,3] (1. Titech, 2. NTT BRL, 3. NTT NPC)

[P-51] Theory of Photonic Crystal Polaritons in Periodically Patterned Multilayer Waveguides

*Simone Zanotti[1], Hai Son Nguyen[2,3], Momchil Minkov[4], Lucio Claudio Andreani[1], Dario Gerace[1]
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[P-52] Lasing, anti-lasing, and non-Hermitian skin effect

*Tetsuyuki Ochiai[1] (1. National Institute for Materials Science)

[P-53] Complex photonic systems: an information theory perspective

*Francesco Riboli[1] (1. National Research Council of Italy (CNR))

[P-54] Radial Transfer Matrix Model for Nearfield Emission Optimization

*Stefan Appel[1], Kai Müller[1], Jonathan James Finley[1]
(1. Walter Schottky Institute, Technische Universität München)

[P-55] Photonic Device for Electromagnetic Wave Visualization

*Liucun Li[1], Hiroyuki Arai[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-56] Photo-Thermal Control in Si Photonic Devices

*Liucun Li[1], Takemasa Tamanuki[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-57] Polarization-independent absorption enhancement of a GaAs quantum well embedded in an air-bridge bull's-eye cavity with metal electrodes

*Sangmin Ji[1], Takeyoshi Tajiri[2], Xiao-Fei Liu[3], Haruki Kiyama[4], Akira Oiwa[3], Julian Ritzmann[5], Arne Ludwig[5], Andreas Dirk Wieck[5], Satoshi Iwamoto[1]
(1. The University of Tokyo, 2. University of Electro-Communications, 3. Osaka University, 4. Kyushu University, 5. Ruhr-Universität Bochum)

[P-58] Multi-dimensional topological physics in one-dimensional photonic lattice

*Duy Hoang Minh Nguyen[1], Hai Chau Nguyen[2], Dung Xuan Nguyen[3], Chiara Devescovi[1], Thibaud Louvet[4], Xavier Letartre[4], Dario Bercioux[1,5], Pierre Viktorovitch[4], Hai Son Nguyen[4,6]
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[P-59] Observation of topological states in Si photonics SSH structure

*Toi Nakama[1], Reona Nakamura[1], Armandas Balcytis[5,1], Hiroyuki Ito[1], Toshihiko Baba[1], Tomoki Ozawa[2], Yasutomo Ota[3], Satoshi Iwamoto[4]
(1. Japan/Yokohama National University, 2. Japan/Tohoku University, 3. Japan/Keio University, 4. Japan/the University of Tokyo, 5. RMIT University/Australia)

[P-60] Flash and beam-scanning three-dimensional LiDAR system based on dually modulated photonic-crystal surface-emitting lasers

*Menaka De Zoysa[1], Ryoichi Sakata[1], Kenji Ishizaki[1], Takuya Inoue[1], Masahiro Yoshida[1], John Gelleta[1], Yoshiyuki Mineyama[2], Tomoyuki Akahori[3], Satoshi Aoyama[3], Susumu Noda[1]
(1. Kyoto University, 2. SpaceView inc., 3. Brookman Technology Co. Ltd.)

[P-61] Development of novel photonic crystal cavities for strain tuning of color centers in diamond

*Michael Haas[1], Kazuhiro Kuruma[1], Graham Joe[1], Daniel Assumpcao[1], Katie Barajas[1], Bart Machielse[2], Marko Loncar[1] (1. Harvard University, 2. AWS Center for Quantum Networking)

[P-62] Ambient Light Tolerance of Si Photonics FMCW LiDAR Chip with Photonic Crystal Slow Light Grating Beam Scanner

*Mikiya Kamata[1], Takemasa Tamanuki[1], Ryo Tetsuya[1], Toshihiko Baba[1]
(1. Yokohama Nat'l Univ.)

[P-63] Stimulated Generation of Indistinguishable Single Photons from a Quantum Ladder System

Friedrich Sbresny[1], Lukas Hanschke[2], Eva Schöll[2], William Rauhaus[1], Bianca Scaparra[1], Katarina Boos[1], Eduardo Zubizarreta Casalengua[3], Hubert Riedl[1], Elena del Valle[4], Jonathan J. Finley[1], Klaus Jöns[2], *Kai Müller[1]
(1. Technical University of Munich, 2. Paderborn University, 3. University of Wolverhampton, 4. Universidad Autónoma de Madrid)

[P-64] Remote Entanglement of Superconducting Qubits via Solid-State Spin Quantum Memories

*Hodaka Kurokawa[1], Moyuki Yamamoto[1], Yuhei Sekiguchi[1], Hideo Kosaka[1]
(1. Yokohama National University)

[P-65] Calculations of Real Photonic Band Gap Crystals as Opposed to Utopian Ones

Lars J. Corbijn van Willenswaard[1,2], Stef Smeets[3], Nicolas Renaud[3], Matthias Schlottbom[2], Jaap J.W. van der Vegt[2], *Willem L. Vos[1]
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[P-66] Experimental observation of chiral exceptional points in graphene-loaded non-Hermitian photonic crystals

*Satoshi Suzuki[1,2], Shutaro Otsuka[1,2], Takahiro Uemura[1,2], Taiki Yoda[2,3], Yuto Moritake[1], Masaaki Ono[2,3], Eiichi Kuramochi[2,3], Masaya Notomi[1,2,3]
(1. Department of Physics, Tokyo Institute of Technology, 2. NTT Basic Research Laboratories, 3. Nanophotonics Center, NTT Corporation)

[P-67] On-demand lasing-state control of PCSEL by manipulating current injection distribution under QCW operation incorporating deep learning

*Koki Izumi[1], Menaka De Zoysa[1], Yuichiro Nakagawa[1], Naoki Gyoja[1], Takuya Inoue[1], Shumpei Katsuno[1], Masahiro Yoshida[1], Kenji Ishizaki[1], Ranko Hatsuda[1], Susumu Noda[1]
(1. Kyoto Univeristy)

[P-68] Nanofin photonic crystal cavities in thin-film lithium niobate

*David Barton[1], Mengjie Yu[1], Rebecca Cheng[1], Dylan Renaud[1], Jeffrey Holzgrafe[1], Di Zhu[1], Amirhassan Shams-Ansari[1], Neil Sinclair[1], Marko Loncar[1] (1. Harvard University)

[P-69] Improvement of Coupled Three-Cavity System for Efficient and Fast On-Demand Photon Transfer

*Ryota Mitsuhashi[1], Takashi Asano[1], Susumu Noda[1] (1. Kyoto Univ.)

[P-70] Realtime operation of Si photonic crystal slow-light waveguide FMCW LiDAR

*Takemasa Tamanuki[1], Shumpei Yamazaki[1], Toshihiko Baba[1] (1. Yokohama National University)

[P-71] Generation of Quasi bound-state in the continuum in photonic moiré at magic configurations

*Chirine Amin Saadi[1], Hai Son Nguyen[1], Sébastien Cueff[1], Lydie Ferrier[2], Serge Mazauric[3], Ségolène Callard[1], Xavier Letartre[1]
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[P-72] RGB color image capturing utilizing imaging spectral encoder

*Saifa Moroda[1], Yasuo Ohtera[1] (1. Toyama Prefectural University)

[P-73] Spatially Shaping Waves to Penetrate Deep Into the Forbidden Gap of Photonic Crystals

Manashee Adhikary[1,3], Timon J. Vreman[1], Marek Kozoň[1,4], Cornelis A.M. Harteveld[1], Ad Lagendijk[1], Ravitej Uppu[1,2], *Willem L. Vos[1]

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[P-74] Visible to Near-Infrared Thin-Film Lithium Niobate for Scalable Quantum Networks

*Dylan Renaud[1], Daniel Assumpcao[1], Graham Joe[1], Amir Shams-Ansari[1], Di Zhu[2], Yaowen Hu[1], David Barton[1], Neil Sinclair[1,3], Marko Loncar[1]
(1. Harvard University, 2. Institute of Materials Research and Engineering (A*STAR), 3. California Institute of Technology)

[P-75] Highly efficient grating coupler consisting of photonic-crystal-like rectangular-lattice perforated hole array and partially-etched linear gratings

*Rikuto Taira[1], Saneyuki Suyama[1], Keisuke Hirotani[1], Toshihiko Baba[1]
(1. Yokohama National University)