

Session Title:	[P2] Poster Session 2
Session Date:	August 7 (Wed.), 2024
Session Time:	13:45-15:45
Session Room:	Premier Ballroom C, 2F

[P2-001]

Vacuum Rabi Spectrum, Lamb Shift, and Atomic Dynamics in an Optical Cavity

Donggeon Kim, Downon Lee, Taegyung Ha, Byung-Tak Park, Youngil Moon, Jongcheol Won, and Moonjoo Lee (POSTECH, Korea)

[P2-002]

Quantum Error Suppression with Multiphoton Subtraction and Teleamplification

Saurabh U. Shringarpure, Yong Siah Teo, and Hyunseok Jeong (Seoul Nat'l Univ., Korea)

[P2-003]

Random-bit Generation using Trapped Ions

Keumhyun Kim, Hyegoo Lee, Junhee Cho, Sangsoo Han, Myunghun Kim, and Moonjoo Lee (POSTECH, Korea)

[P2-004]

High Cooperativity Coupling Between NV-centers and Silica Toroidal Microcavity

Haneul Lee (KAIST, Korea), Elias Huber (Univ. of Stuttgart, Germany), Jae Hoon Lee, Hyun-gue Hong (KRISS, Korea), Sungkun Hong (Univ. of Stuttgart, Germany), and Hansuek Lee (KAIST, Korea)

[P2-005]

A Segmented-blade Trap and Oscillatory Motion of Trapped Ions

Myunghun Kim, Sangsoo Han, Junhee Cho, Keumhyun Kim, Hyegoo Lee, and Moonjoo Lee (POSTECH, Korea)

[P2-006]

Optical System for Large-Area Two-Dimensional Atomic Fermi Gas Research

Sol Kim and Y. Shin (Seoul Nat'l Univ., Korea)

[P2-007]

Teleportation of GKP State with Realistic Optical Squeezing Strength

Sungjoo Cho and Hyunseok Jeong (Seoul Nat'l Univ., Korea)

[P2-008]

Inverse Design Assisted Monolithic Integration of Deterministic Quantum Emitters into hBN Waveguides

Hyunhee Cho (ETRI, Korea), Hyemin Kim (KAIST, Korea), Dong-Jin Shin, Donghun Lee, Su-Hyun Gong (Korea Univ., Korea), and Young-Ho Ko (ETRI, Korea)

[P2-009]

Optimizing Pump Beam Waist in General Condition of Spontaneous Parametric Down-conversion

Jungmo Lee, Kyungdeuk Park, Dong-Gil Im, Dongkyu Kim, Yonggi Jo, Nam Hun Park, and Yong Sup Ihn (Agency for Defense Development, Korea)

[P2-010]

Study on Efficient Spectral Filter for Free-space Quantum Key Distribution in Daylight

Nam Hun Park, Yonggi Jo, Ji Young Moon, Zaeill Kim, and Yong Sup Ihn (Agency for Defense Development, Korea)

[P2-011]

Microwave Quantum Illumination with Optical Memory

Sangwoo Jeon, Jihwan Kim, Duk Y. Kim, Zaeill Kim, Taek Jeong, and Su-Yong Lee (Agency for Defense Development, Korea)

[P2-012]

Effects of Experimental Detection Parameters on Temporal Quantum Correlation Measurements

Akanksha Angural Anand Dubey and Joyee Ghosh (Indian Inst. of Tech. Delhi, India)

[P2-013]

Characterization of Laser-Written Nitrogen-Vacancy Centers in Diamond with Super-Resolution Fluorescence Microscopy

Kyu Ri Choi (Chungbuk Nat'l Univ., Korea), Mohammed Zia Jalaludeen (Okinawa Inst. of Science and Tech., Japan), Dong Hee Park, Bin Chan Joo (Chungbuk Nat'l Univ., Korea), Shilong Li, Sile Nic Chormaic (Okinawa Inst. of Science and Tech., Japan), and Yeon Ui Lee (Chungbuk Nat'l Univ., Korea)

[P2-014]

Constraint-Driven Method for Combinatorial Optimization

Hyunjun Ma and Q-Han Park (Korea Univ., Korea)

[P2-015]

Quantumness Measure from Phase Space Distributions

Ole Steuernagel and Ray-Kuang Lee (Nat'l Tsing Hua Univ., Taiwan)

[P2-016]

Influence of Optically-Induced Surface Spin Texture on Tunnel Magnetoresistance in Topological Spintronic Devices: An Ab Initio Simulation

I-Lin Ho, Jiun-Shen Chen, and Po-Wen Chen (Nat'l Atomic Research Inst., Taiwan)

[P2-017]

Quantum Metrology under Coarse-Grained Measurement

Byeong-Yoon Go, Geunhee Gwak, Young-Do Yoon (KAIST, Korea), Jiyong Park (Hanbat Nat'l Univ., Korea), and Young-Sik Ra (KAIST, Korea)

[P2-018]

Dissipative Coupling Induced Non-Hermitian Skin Effect and Nonreciprocal Transmission

Xinyao Huang (Beihang Univ., China)

[P2-019]

Spectroscopy of ^{24}MgF Buffer Gas Beam with Optical Cycling Transition in Ground Hyperfine State.

Seunghwan Roh, Kikyeong Kwon, Youngju Cho, Giseok Lee, Dongkyu Lim, Yongwoong Lee, Hyunjun Jang, and Eunmi Chae (Korea Univ., Korea)

[P2-020]

Spatio-temporally Coupled Stability in Laser Beam Amplification and Harmonic Generation

Hanjin Jo, Geonhui Lee (Handong Global Univ., Korea), Seungjin Hwang (HIL Lab. Inc., Korea), and Tae Jun Yu (Handong Global Univ., Korea)

[P2-021]

Quantum Coherence between Collective States in an Atomic Vapor Probed by Double-quantum-zero-quantum 2D Coherent Spectroscopy

ShaoGang Yu, YiFeng Geng (Chinese Academy of Sciences, China), HeBin Li (Florida Int'l Univ., USA), and XiaoJun Liu (Chinese Academy of Sciences, China)

[P2-022]

All-optical Manipulation of Polarization of Light in an Atomic Memory

Jineon Kim, Su-Yong Lee, Jihwan Kim, Zaeill Kim, Yong Sup Ihn, Duk Y. Kim, and Taek Jeong (Agency for Defense Development, Korea)

[P2-023]

Error Estimation in Linewidth and Temperature Stability in DPS Quantum Key Distribution

Ming-Sheng Chen, Wei-Rong Zhuo, and Yuh-Renn Wu (Nat'l Taiwan Univ., Taiwan)

[P2-024]

Completely Characterizing Multimode Gaussian Quantum Processes

Geunhee Gwak, Chan Roh, Young-Do Yoon, and Young-Sik Ra (KAIST, Korea)

[P2-025]

Spectrum-To-Position Conversion at the Single-Photon Level in Quantum Memory

Marcin Jastrzebski, Stanislaw Kurzyna, Bartosz Niewe, Mateusz Mazelanik, Wojciech Wasilewski, and Michał Parniak (Univ. of Warsaw, Poland)

[P2-026]

Cross-correlation with Geometry of the Coherence Function of the Fractional Optical Vortices: Determining the Topological Charge

Patnala Vanitha and Do-Kyeong-Ko (GIST, Korea)

[P2-027]

Quantum Communications with Reliable Time-bin Entangled Photons over a Fiber Network

Jin-hun Kim (ETRI, Korea), Jin-Woo Chae (POSTECH, Korea), Youn-Chang Jeong (ETRI, Korea), and Yoon-Ho Kim (POSTECH, Korea)

[P2-028]

Optimal Teleportation via Noisy Quantum Channels without Additional Qubit Resources

Dong-Gil Im, Chung-Hyun Lee, Yosep Kim (POSTECH, Korea), Hyunchul Nha (Texas A&M Univ. at Qatar, Qatar), M. S. Kim (Imperial College London, UK), Seung-Woo Lee (KIST, Korea), and Yoon-Ho Kim (POSTECH, Korea)

[P2-029]

Experimental Reconstruction of the “Push-And-Pull” Associated with Damping and Diffusion Wigner’s Currents in Quantum Phase Space

Yi-Ru Chen, Hsien-Yi Hsieh, Jingyu Ning, Hsun-Chung Wu, Hua Li Chen, Popo Yang, Ole Steuernagel, Chien-Ming Wu, and Ray-Kuang Lee (Nat’l Tsing Hua Univ., Taiwan)

[P2-030]

Experimental Realization of Optical Cat States by Photon-Addition

Yi-Ru Chen, Hsien-Yi Hsieh, Jingyu Ning, Hsun-Chung Wu, Hua Li Chen, Zi-Hao Shi, Popo Yang, Ole Steuernagel, Chien-Ming Wu, and Ray-Kuang Lee (Nat’l Tsing Hua Univ., Taiwan)

[P2-031]

High-Fidelity Experimental Continuous-Time Quantum Walk in a Frequency Domain System Using a Frequency-Stabilized Laser

Shotaro Namekata, Naoto Namekata, Satoshi Ohya, and Shuichiro Inoue (Nihon Univ., Japan)

[P2-032]

High-performance Atmospheric Beam-wander-correction Technique for Free-space Quantum Communications

Dongkyu Kim, Kyungdeuk Park, Dong-Gil Im, Dohoon Lim, and Yong Sup Ihn (Agency for Defense Development, Korea)

[P2-033]

Atom Spin Gyroscope Using Rb-Xe Gas Cell

Sin Hyuk Yim, Sang Hyuk Hong, Sangkyung Lee, Taek Jeong, and Jeong Bin Nam (Agency for

Defense Development, Korea)

[P2-034]

Surface Plasmon Polariton Pulses Generation via Nonlinear Effects in Graphene Double-Layer Structure

S. G. Moiseev and D.A. Korobko (Ulyanovsk State Univ., Russia)

[P2-035]

Improving Photon Gathering Efficiency in Nitrogen-Vacancy Centers Using Transferred Metalenses

Moohyuk Kim, Minseok Jeon, Nu-Ri Park (Korea Univ., Korea), Seung-Woo Jeon, DongYeon Kang, Sang-Wook Han (KIST., Korea), and Myung-Ki Kim (Korea Univ., Korea)

[P2-036]

Demonstration of Nighttime Thermoelectric Power Generation with Radiative Cooling Utilizing Low-cost Commercial Materials

Yusei Tanto, Ayaka Yomoda, Junnosuke Kokubu, Ryo Sugano, and Takasumi Tanabe (Keio Univ., Japan)

[P2-037]

Controllable Merging BIC in the Photonic Crystal Slab

Ga-Yeong Oh, Cheon-Myeong Park, and Jin-Kyu Yang (Kongju Nat'l Univ., Korea)

[P2-038]

Multiphoton Excitation Schemes in Carbon Nanotube Bright and Dark Excitons

HeeBong Yang and Na Young Kim (Univ. of Waterloo, Canada)

[P2-039]

Complete Optical Absorption in Two-Dimensional Array of Metal Nanoparticles Placed near High Reflectivity Surface

S. G. Moiseev and I. A. Glukhov (Ulyanovsk State Univ., Russia)

[P2-040]

Photonic Bandgap Manipulation of 3D Foam-based Structures

Wei-En Wang and Yu-Chueh Hung (Nat'l Tsing Hua Univ., Taiwan)

[P2-041]

Optical Stability Studies of Perovskite CsPbBr₃ Quantum Dots

Seungjae Kim, Myungsung Kim, Changjun Oh, Seokhyun Han, and Yoonseok Kim (Tech Univ. of Korea, Korea)

[P2-042]

High-Resolution Hydrogen Molecule Detection Utilizing a Nanocandle-Based Optical Sensor

Nu-Ri Park, Min-Joong Kim (Korea Univ., Korea), Jongsu Lee (KIST, Korea), Minah Seo, Yong-Sang Ryu, and Myung-Ki Kim (Korea Univ., Korea)

[P2-043]

Fabrication of Photonic Crystal Nanocavities based on Monocrystalline Yttrium Iron Garnet

K. Taniguchi, T. Kitai, T. Yambe, S. Gao (Keio Univ., Japan), S. Iwamoto (The Univ. of Tokyo, Japan), and Y. Ota (Keio Univ., Japan)

[P2-044]

2D Semiconducting Devices with Atomically Clean Metal Contacts

Yumeng Liu, Yizhuo Wang, and Yaping Dan (Shanghai Jiao Tong Univ., China)

[P2-045]

Theoretical Study on Orthogonal Lattice Waveguide (OLW) with Partial Air Cladding Layers for Circular Defect in 2 Dimensional Photonic Crystal (CirD) Laser Diode

Kazuki Sato, Hikari Kubota, Yuki Adachi, Yuto Kudo, Masato Morifuji, Hirotake Kajii, Akihiro Maruta, and Masahiko Kondow (Osaka Univ., Japan)

[P2-046]

Analytical Photoresponses of Gated Nanowire Photoconductors

Yinchu She and Yaping Dan (Shanghai Jiao Tong Univ., China)

[P2-047]

Mxene (Ti₃C₂T_x) film-based Surface Plasmon Resonance in the Short-Wave Infrared (SWIR) range

Han-Na Kim, Da In Song, Young-Ho Jin (Sungkyunkwan Univ., Korea), Hyerim Kim (Korea Univ., Korea), Jisung Kwon, Aran Yu (Sungkyunkwan Univ., Korea), Chong Min Koo (Korea Univ., Korea), and Myung-Ki Kim (Sungkyunkwan Univ., Korea)

[P2-048]

Resonant Raman Spectroscopy of 2D Breathing Kagome Lattice Nb₃TeCl₇

Saejin Oh, Jinsu Kang (Sungkyunkwan Univ., Korea), Wei Nong, Kedar Hippalgaonkar (Nanyang Tech. Univ., Singapore), Shuo-Wang Yang, Gang Wu (Inst. of High Performance Computing, Singapore), Jae-Young Choi (Sungkyunkwan Univ., Korea), and Ji-Hee Kim (Pusan Nat'l Univ., Korea)

[P2-049]

Demonstration of Magneto-optical Microdisk Resonators Based on Yttrium Iron Garnet

T. Yambe, T. Kitai, K. Taniguchi, S. Gao, R. Imamura, H. Kumazaki, S. Fujii (Keio Univ., Japan), S. Iwamoto (The Univ. of Tokyo, Japan), T. Tanabe, and Y. Ota (Keio Univ., Japan)

[P2-050]

Simulation of Meta Vortex Retarder in a Ray-tracing Software

Bryan D. Stone, Yijun Ding (Synopsys Inc., USA), Hayoung Lee, and JiSoo Park (Synopsys Inc., Korea)

[P2-051]

Embedded Gold Nanoparticles in Crystalline Thin Film Lithium Niobate

Lingrui Chu, Han Zhu, and Feng Chen (Shandong Univ., China)

[P2-052]

Localized Exciton-polaritons in WSe₂ Integrated with Photonic Crystal Nanocavity

Heejin Choi (Hanbat Nat'l Univ., Korea), Hwi Je Woo (KRISS, KOREA), Seonyeong Kim (Paul Scherrer Institut, Switzerland), Hyungsik Oh (Sejong Univ., Korea), Young Jae Song (SKKU Advanced Inst. of Nanotechnology, Korea), Sunae Seo (Sejong Univ., Korea), and Chang-Won Lee (Hanbat Nat'l Univ., Korea)

[P2-053]

Study on Near-field Diffraction in the Fabrication of Crossed Gratings Using Photomask Exposure Method

Vu Nam Le and Dinh Quy Pham (Academy of Military Science and Tech., Vietnam)

[P2-054]

Modeling of 1D Photonic Crystal Phosphor Structures for Efficient Color Conversion of Quantum Dots

Sanghoon Lee, Daeun Ji, and Kyungtaek Min (Tech Univ. of Korea, Korea)

[P2-055]

Measurement of Leakage Radiation from Random Nanoislands for Machine Learning-Based Prediction

Hongki Lee (Univ. of California San Diego, USA), Seongmin Im, Sukhyeon Ka, Jooyoung Kim, Jaekwon Lee, Kar-Ann Toh, and Donghyun Kim (Yonsei Univ., Korea)

[P2-056]

Electrically Driven Single-Photon Emitters in a van der Waals Heterostructure

Jae-Pil So and Hong-Gyu Park (ETRI, Korea)

[P2-057]

Enhancement of Second-harmonic Generation in Strained TMD Heterobilayer

Gunwoo Na, Sehwan Chang, Hoo-Cheol Lee, and Hong-Gyu Park (Seoul Nat'l Univ., Korea)

[P2-058]

NeuroWeb: Ultra-thin, Minimally Invasive Surface Electrode Array for Probing Neural Activity

Young-Woo Pyo and Hong-Gyu Park (Seoul Nat'l Univ., Korea)

[P2-059]

Experimental Demonstration of Compact and Broadband 3 dB Power Splitter on SOI Platform

Seokjin Hong, Berkay Neseli, Jae-Yong Kim, Hyo-Hoon Park, and Hamza Kurt (KAIST, Korea)

[P2-060]

Experimental and Comparative Analysis of Variable Focus Metalens and Airy Metalens

Cheng Hung, Sunil Vyas, Cheng Hung Chu, Kuang-Yuh Huang, and Yuan Luo (Nat'l Taiwan Univ., Taiwan)

[P2-061]

Modulation of InP Nanowire Lasers via Ionic Liquid Gating

Chia-Hung Wu (Nat'l Yang Ming Chiao Tung Univ., Taiwan) and Kuo-Ping Chen (Nat'l Tsing Hua Univ., Taiwan)

[P2-062]

Enhance Photoluminescence of MoS₂ Sandwiched in Dielectric Photonic Crystals by Bloch Surface Mode

Der-Ming Fu, Tsan-Wen Lu, Pin-Ruei Huang (Nat'l Yang Ming Chiao Tung Univ., Taiwan), Shih-Yen Lin (Academia Sinica, Taiwan), and Po-Tsung Lee (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P2-063]

Theoretical Study on Light Output from Edge of Orthogonal Lattice Waveguide (OLW) in Two-dimensional Photonic Crystal Laser

Hikari Kubota, Kazuki Sato, Yuki Adachi, Masato Morifuji, Hirotake Kajii, Akihiro Maruta, and Masahiko Kondow (Osaka Univ., Japan)

[P2-064]

High-Precision Selective Dry Etching of the GaAs Core Layer Having Embedded InAs Quantum Dots Layers towards Photonic Crystal Laser

Hiroataka Muto, Ryo Kato, Rubing Zuo, Hanqiao Ye, Hirotake Kajii, Masato Morifuji, Tetsuya Yagi, Akihiro Maruta, and Masahiko Kondow (Osaka Univ., Japan)

[P2-065]

GaN-based Photonic-Crystal Surface-Emitting Lasers Made from Edge-Emitting Laser Structure

Edwin Tsai, Wen-Chia Hsieh, and Gray Lin (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P2-066]

Absorbance Enhancement of a Multilayer Mode-Guiding Ge Infrared Photodetector Structure with a Subwavelength Surface Grating

Ching-Yu Hsu (Nat'l Yang Ming Chiao Tung Univ., Taiwan), Zingway Pei (Nat'l Chung Hsing Univ., Taiwan), and Jia-Ming Liu (Univ. of California, Los Angeles, USA)

[P2-067]

Terahertz Emitter Based on Co/Mo with Amplitude Control and Polarization Reversal Capabilities

P.Yu. Avdeev, A.V. Gorbatova, E.D. Lebedeva (MIREA – Russian Technological Univ., Russia), N.S. Gusev, M.V. Sapozhnikov (Institute for Physics of Microstructures RAS, Russia), and A.M. Buryakov (MIREA – Russian Technological Univ., Russia)

[P2-068]

Joint Power Allocation and Probabilistic Shaping for OFDM-UWOC Systems

Liyan Zhang (Tsinghua Univ., China), Xinke Tang (Peng Cheng Lab., China), Sihui Zheng, Weijie Dai, Xiao-Ping Zhang, and Yuhan Dong (Tsinghua Univ., China)

[P2-069]

Deep Learning Based Positioning Scheme for Single UAV-Assisted VLC Systems

Zongyao Zhao, Jiawei Hu (Tsinghua Univ., China), Xinke Tang (Peng Cheng Lab., China), Xiao-Ping Zhang, and Yuhan Dong (Tsinghua Univ., China)

[P2-070]

Empirical Analysis of Turbulence Effects on Orbital Angular Momentum (OAM) Mode Propagation: Experimental Setup and Neural Network Classification

Mariam Alkhateri, Ravi K. Saripalli, Ramzil Galiev, Asma Alahmadi, Juan Coronel, Chaouki Kasmi, and Steevy J. Cordette (Tech. Innovation Inst., UAE)

[P2-071]

Online Phase and Amplitude Distortion Compensation in FOPA Transmission Systems

Long H. Nguyen, Sonia Boscolo, and Stylianos Sygletos (Aston Univ., UK)

[P2-072]

End-to-End Demonstration of All-optical Underwater Communication Network Using G.9960 Compliant OFDM Technology

Ryusei Oikawa and Naoto Yoshimoto (Chitose Inst. of Science and Tech., Japan)

[P2-073]

Wavelength Division Multiplexer using PhC-based MMI on SiN Platform

Soibam Aruna Chan and Ramesh Kumar Sonkar (Indian Inst. of Tech. Guwahati, India)

[P2-074]

A Novel Power-efficient Hybrid Asymmetrically Clipped Optical OTFS for Visible Light Communications

Rui Wang, Jianhua Pei, Yuxuan Liao, Jian Song, and Yuhan Dong (Tsinghua Univ., China)

[P2-075]

Impairment-tolerant DGD Monitoring using Optical Labels in WDM Coherent Optical Transmission Systems

Tao Yang and Xue Wang (Beijing Univ. of Posts and Telecommunications, China)

[P2-076]

Effect of Single and Double QWs on InGaAs/GaAs Heterojunction Bipolar Light Emitting Transistors

Yun-Jie Huang, Shu-Jui Hsu, Sung-Pu Yang, Kuang-Yu Hsueh, Shu-Yun Ho, and Chao-Hsin Wu (Nat'l Taiwan Univ., Taiwan)

[P2-077]

Availability of Twisted Partially Coherent Beams in Underwater Free-space Optical Links

Weijie Dai, Yize Zhang, Xiaoqian Liu, Liyan Zhang (Tsinghua Univ., China), Xinke Tang (Peng Cheng Lab., China), Jian Song, and Yuhan Dong (Tsinghua Univ., China)

[P2-078]

On Arbitrary Turbulent Fading in OAM based Underwater Free-space Optical Links

Weijie Dai, Xiaoqian Liu, Shuang Tang, Liyan Zhang (Tsinghua Univ., China), Xinke Tang (Peng Cheng Lab., China), Jian Song, Yuhan Dong (Tsinghua Univ., China), Wei Su, and Dun Wang (Shenzhen Rainbow Ship And Oil Engineering Co., Ltd., China)

[P2-079]

Reconfigurable Soliton Crystals in Integrated Microresonators

X. X. Chia, K. Y. K. Ong, A. A. Rahim, G. F. R. Chen, P. Xing, and D. T. H. Tan (Singapore Univ. of Tech. and Design, Singapore)

[P2-080]

Singularity Analysis of Gradient Projection Method for Dynamic Polarization Control

Yuxi Xu, Zongkai Li, Bin Zhang, and Dawei Wang (Sun Yat-sen Univ., China)

[P2-081]

Stabilization of Spatial Mode Conversion Based on Dual-Phase Modulation Using Different Wavelength Sources

YuanHao Jiang, Tomohiro Meada, and Hideyuki Sotobayashi (Aoyama Gakuin Univ., Japan)

[P2-082]

GN-Model Performance Evaluation of Distributed Raman Amplification for WDM Transmission

Natsupa Taengnoi (Kasetsart Univ., Thailand), Kyle R. H. Bottrill, and Periklis Petropoulos (Univ. of Southampton, UK)

[P2-083]

Bandwidth Insensitive Blind Linear-Equalizer with Weight Taps Pre-Estimation

Benedictus Yohanes Bagus Widhianto, and Jyehong Chen (Nat'l Yang-Ming Chiao-Tung Univ., Taiwan)

[P2-084]

Nonlinear Channel Modeling of WDM Systems with Universal Generalization Ability

Dengpan Chang, Jiaming Liu, Rui Wang, Jing Zhang, Bo Xu, and Kun Qiu (Univ. of Electronic Science and Tech. of China, China)

[P2-085]

A Proposed Accurate and Generalizable Few-Shot Learning Algorithm for Joint Modulation Format Identification and OSNR Monitoring in Future Dynamic Coherent Optical Communications

Di Zhang, Hanyu Zhang, Yameng Cao, and Yan Ling Xue (East China Normal Univ., China)

[P2-086]

Modeling of Gain and Q-Factor Characteristics in Semiconductor Optical Amplifier based on Convolutional Neural Network

Ryoma Katsura and Daisuke Hisano (Osaka Univ., Japan)

[P2-087]

Optical-cryptographic System based on an Electrically Tunable Focus Lens and a Random Data Representation

Edward Mosso (Univ. de Tarapacá, Chile)

[P2-088]

Low-complexity and Multiplier-free Baud-rate Timing Phase Error Detector for High-speed Optical IM/DD System

Jianwei Tang (Peng Cheng Lab., China), Bang Yang (Harbin Inst. of Tech., China), Jinlong Wei (Peng Cheng Lab., China), Chen Cheng (Harbin Inst. of Tech., China), Yaguang Hao, Qi Wu, Jianyu Wang, Junpeng Liang, Zhaopeng Xu, Zhongliang Sun (Peng Cheng Lab., China), Yanfu Yang (Harbin Inst. of Tech., China), and Weisheng Hu (Peng Cheng Lab., China)

[P2-089]

Numerical Comparison of Supervised Machine Learning-based On-Off Encoded Eigenvalue Demodulation Methods

Kohei Nishida, Daisuke Hisano, Juan David Ariza Cabrera, Ken Mishina, and Akihiro Maruta (Osaka Univ., Japan)

[P2-090]

The Effects of Delay in Aggregated Quantum Networks

Nicolò Lo Piparo, William J. Munro, and Kae Nemoto (Okinawa Inst. of Science and Tech., Japan)

[P2-091]

High Speed Transceivers for the Optical Wireless Communication Systems

Saad Saeed, Abdullah Nafis Khan, and Usman Younis (Information Tech. Univ. of the Punjab, Pakistan)

[P2-092]

Experimental Investigation on Opto-Electronic Adaptive Equalizer with Parallel Scalability

Shuhei Otsuka, Zheqing Sun, Tomoya Suzuki, and Takahide Sakamoto (Tokyo Metropolitan Univ., Japan)

[P2-093]

Experimental Demonstration of Trigonometric-memory-polynomial Improved-weighted Decision-feedback Equalizer in a C-band 100-Gbit/s PAM-4 System

Xing Liu, Yun Liu, and Jian Zhao (South China Univ. of Tech., China)

[P2-094]

Bandwidth Insensitive Blind Linear-Equalizer with Weight Taps Pre-Estimation

Benedictus Yohanes Bagus Widhianto and Jyehong Chen (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P2-095]

Predict Traffic and Resource Distribution Based on Evolve Graph Convolution Network In Edge Computing Optical Network

Tianyu Jin, Shan Yin, and Shanguo Huang (Beijing Univ. of Posts and Telecommunications, China)

[P2-096]

Analysis on Angular Noise Tolerance of Binary Phase Shift Keying based Time Domain Index Modulation Signals

Wataru Imajuku and Daichi Aoki (Kindai Univ., Japan)

[P2-097]

Daylight Noise Baseline for Outdoor Visible Light Communication with CMOS Sensors

Don Barber, Murali Tummala, and John McEachen (Naval Postgraduate School, USA)

[P2-098]

On Adaptive Traffic Restoration in P2MP-TRX-based WSONs

Yuxiao Zhang, Meihan Wu, Ruoxing Li, Qian Lv, and Zuqing Zhu (Univ. of Science and Tech. of China, China)

[P2-099]

Multipath Interference Noise Mitigation Based on the Regulation of MZM Driver Voltage

Xia Sheng, Hao Liu (China Telecom Research Inst., China), Yangbo Wu, Bowen Tan, Jia Feng, Gen Lv, Jinbo Li (Huawei Technologies Co., Ltd., China), Leyan Fei (Shanghai Jiao Tong Univ., China), Kai Lv, Anxu Zhang, Lipeng Feng, Yuyang Liu, Xishuo Wang, Xiaoli Huo (China Telecom

Research Inst., China), and Qunbi Zhuge (Shanghai Jiao Tong Univ., China)

[P2-100]

A 2.39-Gbps ADO-OFDM VLC System with Iterative Receiver

Xuan Huang, Xu Xia, and Peng Chen (China Telecom Research Inst., China)

[P2-101]

Gray-Scale Maskless Lithography Setup for Single-Shot Fabrication of Designed Phase Masks

Joonsik Park, Nakkyu Baek, Kyung Chul Lee (Yonsei Univ., Korea), Junghyun Bae, Wook Park (Kyung Hee Univ., Korea), and Seung Ah Lee (Yonsei Univ., Korea)

[P2-102]

SiNx Optical Waveguides for Digital Holographic Microscopy: Preliminary Fabrication and Evaluation

Yumi Murai, Yusuke Kikuchi (The Univ. of Electro-Communications, Japan), Katsunari Okamoto (Okamoto Lab., Japan), Hideo Isshiki, and Eriko Watanabe (The Univ. of Electro-Communications, Japan)

[P2-103]

A Study on the Optimal Range of the Angle Between Lasers in Self-coupled Distance and Velocity Sensors

Yuri Yamagishi, Daiki Sato, Daisuke Mizushima, and Norio Tsuda (Aichi Inst. of Tech., Japan)

[P2-104]

Photoluminescence and Two-Photon Luminescence Spectra of MAPbI₃ Perovskite with and without Molecule Passivators

Sheng Hsiung Chang, Anjali Chandel, and Shou-En Chiang (Chung Yuan Christian Univ., Taiwan)

[P2-105]

Tuneable Localized Plasmon Resonances by Exploiting Self-Assemble Properties of Metal Nanoparticles

Cheolhun Kang, Seongcheol Ju, Donggyu Lim, Dohyun Kim, Hyeonwoo Kim, Incheol Jung, Seunghyun Oh, Hojae Kwak, and Kyu-Tae Lee (Inha Univ., Korea)

[P2-106]

Dual-cavity Structures for Reflection Modulation with Fixed Transmission

Cheolhun Kang, Seongcheol Ju, Dohyun Kim, Donggyu Lim, Incheol Jung, Hyeonwoo Kim, Hojae Kwak, and Kyu-Tae Lee (Inha Univ., Korea)

[P2-107]

Study of Thermal Annealing on Optical Properties of ITO Thin Films in the Infrared Regime

Donggyu Lim, Seunghyun Oh, Seongcheol Ju, Hojae Kwak, Hyeonwoo Kim, Incheol Jung, Chang Kwon Hwangbo, and Kyu-Tae Lee (Inha Univ., Korea)

[P2-108]

Manipulation of Resonance Orders in Tri-layered Structures for Reflective RGB Colors with High Color Purity

Dohyun Kim, Incheol Jung, Seongcheol Ju, Cheolhun Kang, Donggyu Lim (Inha Univ., Korea), Jong G. Ok (Seoul Nat'l Univ. of Science and Tech., Korea), Hui Joon Park (Hanyang Univ. Korea), and Kyu-Tae Lee (Inha Univ., Korea)

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