

Session Title:	[P1] Poster Session 1
Session Date:	August 6 (Tue.), 2024
Session Time:	14:00-16:00
Session Room:	Premier Ballroom C, 2F

[P1-001]

Beam Pointing Instability of a Yb-doped Fiber Amplifier Induced by a Heated-optical Component

Joonhoi Koo, Minkyu Park, Junsu Lee, Dong Joon Kim, Hwihyung Lee, Jong Won Lee, Junhan Park, Hansol Choi, Hwanseong Jeong, Kwang Hyun Lee, and Yong Seok Seo (Agency for Defense Development, Korea)

[P1-002]

Digital Laser with Composite Resonator and its Application in Vortex Laser Generation

Yuan-Yao Lin and Yan-Jyun Wang (Nat'l Sun Yat-sen Univ., Taiwan)

[P1-003]

High Repetition Rate Mid-infrared Femtosecond Fiber Lasers based on Buffer Configuration

Qi Kang (Shenzhen Univ., China), Yihuan Shi (The Hong Kong Polytechnic Univ., Hong Kong S.A.R), Shunxiang Liu (Shenzhen Univ., China), Dongmei Huang (The Hong Kong Polytechnic Univ., Hong Kong S.A.R), Hongfu Huang, and Qiao Wen (Shenzhen Univ., China)

[P1-004]

Long-term Mode-hop-free Fiber Laser Based on Sub-cavity Tracking Feedback Control

Shiyu Xiao, Jianming Shang, Shangshu Ding, Tianwei Jiang, Bin Luo, and Song Yu (Beijing Univ. of Posts and Telecommunications, China)

[P1-005]

60 W Diamond Raman Laser at 607 nm

A Sharp, H. Jasbeer, R. Pahlavani, D. J. Spence (Macquarie Univ., Australia), X. Yang (Univ. of Chinese Academy of Sciences, China), and R. P. Mildren (Macquarie Univ., Australia)

[P1-006]

Massive Wideband Chaos Generation based on Microcomb Cascaded by Noise Phase

Modulator and Dispersion Fiber

Yingjun Fang, Ning Jiang, Anran Li, Rui Wang, Jing Zhang, and Kun Qiu (Univ. of Electronic Science and Tech. of China, China)

[P1-007]

Passive Q-switched Microchip Er:Yb:glass Laser Toward Terahertz Parametric Generation

Yutaka Onodera, Ten Matano, and Kouji Nawata (Tohoku Inst. of Tech., Japan)

[P1-008]

738 nm Deep-red Pulse Laser based on Stimulated Raman Scattering in H₂-filled Hollow-core Fiber

Luohao Lei, Zhiyue Zhou, Zhixian Li, Meng Wang, Hu Xiao, Zilun Chen, Zefeng Wang, and Jinbao Chen (Nat'l Univ. of Defense Tech., China)

[P1-009]

Broadband Erbium Doped Aluminium Oxide Waveguide Amplifier in Thin Film Lithium Niobate

Renfei Kuang, Ling Luo, Xifa Liang, and Qingming Chen (Sun Yat-Sen Univ., China)

[P1-010]

Experimental Observation of Bright Pulses Embedded with Dark Solitons

Dian Duan and Xuewen Shu (Huazhong Univ. of Science and Tech., China)

[P1-011]

Generation of Structured 1 GHz Femtosecond Laser Pulses

Byungjoo Kim, Dohyun Kim, Yeong Gyu Kim, Ha-My Hoang, Jiyeon Choi, and Sanghoon Ahn (Korea Inst. of Machinery & Materials, Korea)

[P1-012]

630 nm High-Power Pulsed Fiber Laser Based on Raman Amplification and Second Harmonic Generation

Dal Yong Lee, Kyungseung Kim, Chungman Lee (GIST, Korea), Jongwan Kim, Changjun Yoon (Hanwha Systems, Korea), and Changsu Jun (GIST, Korea)

[P1-013]

A Waveguide Laser with a Quantum Efficiency of 99%

Harsh Vaid, Sharashti Saxena (Indian Inst. of Tech. Delhi, India), Pradeesh Kannan (Government Victoria College, India), and Amol Choudhary (Indian Inst. of Tech. Delhi, India)

[P1-014]

Research on Multiwavelength High-performance Cascade Diamond Raman Lasers

Jie Ding (Hebei Univ. of Tech., China)

[P1-015]

Experimental Investigation of Stable Self-Q-switched Operation in a Diode-pumped Alexandrite Laser

Atsushi Sato (Tohoku Inst. of Tech., Japan)

[P1-016]

1.4 W Narrow-linewidth Raman Laser in Methane-filled Hollow-core Fiber Operating at 1.5 μm

Wenxi Pei, Zhiyue Zhou, Zhixian Li, Meng Wang, Hu Xiao Zilun Chen, and Zefeng Wang (Nat'l Univ. of Defense Tech., China)

[P1-017]

All-PM Yb Fiber Mode-locked Femtosecond Lasers with a Nonlinear Amplifying Loop Mirror

Eun Kyoung Park, In Chul Park (Hanyang Univ., Korea), Jun Wan Kim, Ju Hee Yang (KERI, Korea), Hoon Jeong (Korea Inst. of Industrial Tech., Korea), and Ji Won Kim (Hanyang Univ., Korea)

[P1-018]

Frequency-Tripling of ns Pulsed Tm-Doped All-Fiber Laser for Multi-Watt Red Emission

Jinju Kim (KAERI, Korea), Woosang Yu (Univ. of Science and Tech., Korea), Kwang-Hoon Ko, and Yongho Cha (KAERI, Korea)

[P1-019]

High-Power Single-Frequency Nanosecond Pulsed All-Fiber Lasers for Coherent Beam Combination

Woosang Yu (Univ. of Science and Tech., Korea), Jinju Kim, Yong-Ho Cha, and Kwang-Hoon Ko (KAERI, Korea)

[P1-020]

NALM-based Figure-8 All-PM Yb-doped Fiber Laser

Junyeong Sung, Byungjoo Kim, Yeonggyu Kim, Jiyeon Choi, and Dohyun Kim (Korea Inst. of Machinery & Materials, Korea)

[P1-021]

Sub-kHz Linewidth Single-Longitudinal-Mode Fiber Laser by Using Triple-Subring Resonators

Zi Wang, Brian Pamukti, Shien-Kuei Liaw, Shih-Hsiang Hsu (Nat'l Taiwan Univ. of Science and Tech., Taiwan), and Hsiou-Hsin Tsai (Taipei Medical Univ., Taiwan)

[P1-022]

Using the External Feedback Light to Control the Mode-locked Depth of a Q-switched Solid-state Laser

Kai-Ting Yen, Ai-Ling Li, Pin-Hsun Wang, and Kuam-Wei Su (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P1-023]

Development of Ultrafast Laser System with Fixed CFBG and CVBG for Preclinical Study of Pigmented Lesions

Jun Wan Kim, Seolwon Park, Guang-Hoon Kim, and Juhee Yang (KERI, Korea)

[P1-024]

Bifurcate Transformation Path in an Ytterbium-doped Fiber Laser with Two Mode-locking Pulse States

Xinxu Duan, Yuantong Liu, Zhengxin Gao, Hongbo Jiang, Xiaoyun Tang, and Lei Jin (Harbin Engineering Univ., China)

[P1-025]

738 nm Deep-red Pulse Laser Based on Stimulated Raman Scattering in H₂-filled Hollow-core Fiber

Luohao Lei, Xuanxi Li, Wenxi Pei, Jing Shi, Zhiyue Zhou, Zefeng Wang, and Jinbao Chen (Nat'l Univ. of Defense Tech., China)

[P1-026]

Astigmatism Measurement Based on the Emergence of Structured Laser Beams

X. L. ZHENG, M. X. HSIEH, and Y. F. CHEN (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P1-027]

Q-switched Fiber Laser at 1.9 μm Using a Mixture of Gold Nanorods and Polyvinyl Alcohol as a Saturable Absorber

Varsha and Gautam Das (Lakehead Univ., Canada)

[P1-028]

Simulation Study of a >14 W, 420 nm Laser Based on Second-harmonic Generation and Sum-frequency Generation

Chungman Lee, Dalyong Lee, Kyoung-Seung Kim, and Changsu Jun (GIST, Korea)

[P1-029]

Manipulation of Sub-pulse Sequence and High-order Vortex Beams for Actively Q-switched Pr:YLF Visible Lasers

Shengbo Xu, Yunru Chen, Ran Xia, Yifang Li, Yu Xiao, Xiahui Tang, and Gang Xu (Huazhong Univ. of Science and Tech., China)

[P1-030]

Dual-Wavelength Intracavity Diamond Raman Laser with High Peak Power

Hui Chen, Xiaowei Li, Yufan Cui, Yulei Wang, Zhiwei Lu, and Zhenxu Bai (Hebei Univ. of Tech., China)

[P1-031]

Stabilization of Spatiotemporal Solitons in Multimode Fiber Femtosecond Lasers

Chenxin Gao, Chengjiu Wang, Zhenghao Jiao, Bo Cao, Chengying Bao, and Changxi Yang (Tsinghua Univ., China)

[P1-032]

Characteristics of Chaos in a Whispering-Gallery Mode Semiconductor Microlasers

Jin-Long Xiao, Chun-Guang Ma, Zhi-Xiong Xiao, Yue-De Yang, and Yong-Zhen Huang (Inst. of Semiconductors, Chinese Academy of Sciences, China)

[P1-033]

Experimental Study of Two-Photon Absorption in High-Q Germanium WGM Optical Microresonators at 2.68 μm

T.S. Tebeneva, V.E. Lobanov, D. A. Chermoshentsev, K.N. Min'kov (Russian Quantum Center, Russia), I.A. Kaplunov (Tver State Univ., Russia), I.I. Vinogradov (Space Research Inst. of the Russian Academy of Sciences, Russia), I.A. Bilenko, and A.E. Shitikov

[P1-034]

Improvement of Fabrication Process for Highly Efficient Walk-off Compensated $\beta\text{-BaB}_2\text{O}_4$ Wavelength-Conversion Devices Using Room-temperature Bonding

Shion Naito, Tomoya Tanaka, and Ichiro Shoji (Chuo Univ., Japan)

[P1-035]

Betatron Radiation Based on Laser Plasma Acceleration for High-resolution Medical Images

Kyungnam Kim, Yonghun Hwangbo, Chur Kim, Seokgi Jeon, and Jaehoon Kim (KERI, Korea)

[P1-036]

Simultaneous Generation of Structured Dual-NIR Optical Parametric Oscillators on $\text{chi}^{(2)}$ Nonlinear Mode Converter

K.-H. Chang, J.-H. Lai, B.-W. Wu, T.-F. Pan, M.-S. Tsai, H.-H. Chiu, C.-C. Fan (Nat'l Taiwan Univ., Taiwan), S. Mohand Ousaid, A. Boudrioua (Universite Sorbonne Paris Nord, France), H. Yokoyama, E. Higurashi (Tohoku Univ., Japan), H. Akiyama (The Univ. of Tokyo, Japan), C.-M. Lai (Industrial Tech. Research Inst., Taiwan), and L.-H. Peng (Nat'l Taiwan Univ., Taiwan)

[P1-037]

Nondestructive Detection of Low Concentrations Glucose via Broadband Background-Free Mid-Infrared Absorption Spectroscopy

Shinta Ozawa, Neil Irvin Cabello (Toyota Technological Inst., Japan), Yue Zhao (Muroran Inst. of Tech., Japan), and Takao Fuji (Toyota Technological Inst., Japan)

[P1-038]

Investigation of Nonlinear Optical Responses in MBE Growth Thin Film Chromium Telluride

Mu-Hsuan Tsai, Jia-Chi Lan, Bo-Yi Chen (Nat'l Sun Yat-sen Univ., Taiwan), Tzu-Tai Huang, Jung-Chun-Andrew Huang (Nat'l Cheng Kung Univ., Taiwan), and Chao-Kuei Lee (Nat'l Sun Yat-sen Univ., Taiwan)

[P1-039]

Demonstration of All-optical Multi-order Differentiator for Femtosecond Chirped Pulses

Yijian Zhang, Xian Zhou (Univ. of Science and Tech. Beijing, China), Hong-Guang Duan (Ningbo Univ., China), and Chao Mei (Univ. of Science and Technology Beijing, China)

[P1-040]

Double Abrupt Foci from Second Harmonic Generation of Circle Pearcey Beams

Yongzheng Yang, Zhenhang Xu, Anqi Liang, and Dongmei Deng (South China Normal Univ., China)

[P1-041]

Coherent Control through High-Intensity Excitation: A Simulation of Two-Dimensional Coherent Spectroscopy

Rishabh Tripathi, Krishna Kumar Maurya, and Rohan Singh (Indian Inst. of Science Education and Research Bhopal, India)

[P1-042]

A Quantitative Study of Excitonic Interactions Using Phenomenological Models

Pradeep Kumar, Bhaskar De, Rishabh Tripath, and Rohan Singh (Indian Inst. of Science Education and Research Bhopal, India)

[P1-043]

Mid-Infrared Single-Photon Sources: The Potential of ZBLAN Glass Optical Fibers

Shruti Jain and Deepak Jain (Indian Inst. of Tech. Delhi, India)

[P1-044]

Time-Domain Characterization of Resonance-Band Dispersive Wave in an Ar-Filled Anti-Resonant Hollow-Core Fiber

Jinyu Pan, Zhiyuan Huang, Yifei Chen, Zhuozhao Luo (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), Fei Yu, Dakun Wu (Univ. of Chinese Academy of Sciences, China), Tiandao Chen, Donghan Liu, Yue Yu (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), Wenbin He, Xin Jiang (Univ. of Chinese Academy of Sciences, China), Meng Pang, Yuxin Leng, and Ruxin Li (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China)

[P1-045]

GHz-rate, 56-fs Ultrafast Laser Generation based on Cascaded Nonlinear Pulse Compression

X. Zhang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), W. He (Russell Centre for Advanced Lightwave Science, China), X. Wang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), B. Wang, Q. Huang (Russell Centre for Advanced Lightwave Science, China), Y. Zheng (iFiber Optoelectronics Tech. Co., Ltd., China), R. Yin (Russell Centre for Advanced Lightwave Science, China), Z. Huang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), X. Jiang (Russell Centre for Advanced Lightwave Science, China), Y. Leng (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), and M. Pang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China)

[P1-046]

Experimental Investigation of an All-PM Dispersion-compensated Phase-biased Thulium-doped Fiber Lase

Ni Feng, Huiting Tang, and Renlai Zhou (Harbin Engineering Univ., China)

[P1-047]

Experimental Analysis of Inter-pulse Phase and Timing Relation in GHz-rate Harmonically Mode-locked Fiber Laser Using Dispersive Time-delay Interferometry

B. Wang, X. Wang, W. He, X. Zhang, Q. Huang, Z. Huang, X. Jiang, and M. Pang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China)

[P1-048]

Multiple Pulsing Bistability within Covalent Organic Framework (COF) Saturable Absorber-based Fiber Lasers

Hsuan-Sen Wang, Ahmed F. M. EL-Mahdy, Shiao-Wei Kuo (Nat'l Sun Yat-sen Univ., Taiwan), Gong-Ru Lin (Nat'l Taiwan Univ., Taiwan), Wen-Hsuan Kuan, Kuei Huei Lin (Univ. of Taipei, Taiwan), and Chao-Kuei Lee (Nat'l Sun Yat-sen Univ., Taiwan)

[P1-049]

Efficient Pulse Amplification and Temporal Compression in a 1790 nm Femtosecond Thulium Fiber Amplifier

Ibrahim H. Abughazaleh, Panuwat Srisamran, Matthew D. Gerard, Duanyang Xu, Yongmin Jung, David J. Richardson, and Lin Xu (Univ. of Southampton, UK)

[P1-050]

Observation of Breathing Solitons in a Three-dimensional Phase Space in a Mode-locked Fibre Laser

Q. Huang, W. He, X. Zhang, X. Wang, B. Wang, Z. Huang, X. Jiang, and M. Pang (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China)

[P1-051]

A Saturable Absorber Based on Nanomaterial Heterojunction and Its Application in Broadband Ultrafast Lasers

Tianguo Zhang (Nanjing Univ. of Information Science and Tech., China), Sibghat Ullah (Southeast Univ., China), Feng Zhang, and Xueming Liu (Nanjing Univ. of Information Science and Tech., China)

[P1-052]

Composition-dependent Charge Carrier Dynamics in Bulk $\text{Mo}_{1-x}\text{W}_x\text{Se}_2$ Alloys

Junho Park, Seonggeon Gim, Yeongkwan Kim, and Fabian Rotermund (KAIST, Korea)

[P1-053]

Utilizing the Short-Pulsed Laser on Integrated Circuits to Induce Single-Event Transient Phenomena

Chien-Ping Hung, Chun-Hao Liang, Jia-Han Li, and Hsin-Shu Chen (Nat'l Taiwan Univ., Taiwan)

[P1-054]

Analysis of Shadowgram to Measure Sharp Density Profile for Laser Wakefield Accelerator

Yonghun Hwangbo, Kyungham Kim, Chur Kim, Sukgi Jeon, and Jaehoon Kim (KERI, Korea)

[P1-055]

Independent Phase and Amplitude Control of Second Harmonic Generation by Nonlinear Polaritonic Metasurface

Jaesung Kim, Jaeyeon Yu (UNIST, Korea), Gerhard Boehm, Mikhail Belkin (Technical Univ. of Munich, Germany), and Jongwon Lee (UNIST, Korea)

[P1-056]

Two-Dimensional Coherent Spectroscopy Simulations with Arbitrary Inhomogeneous Distribution

Bhaskar De and Rohan Singh (Indian Inst. of Science Education and Research Bhopal, India)

[P1-057]

Drifting Platons in Normal-Dispersion Kerr Microresonators

Valery E. Lobanov, Olga V. Borovkova, Alexander K. Vorobyev, Dmitry A. Chermoshentsev, and Igor A. Bilenko (Russian Quantum Center, Russia)

[P1-058]

Time-Resolved Faraday Rotation in Magnetophotonic Metasurfaces

A. I. Musorin, A. M. Chernyak, and A. A. Fedyanin (Lomonosov Moscow State Univ., Russia)

[P1-059]

Application of Nonlinear Microscopy for Investigation of Magnetic Inhomogeneities and Domain Wall Motion

Stepanov M.A., Guskov A.A., Mitetelo N.V., and Lavrov S.D. (MIREA - Russian Technological Univ., Russia)

[P1-060]

Elucidating Electronic States in Monolayer WS_2 Through Broadband Nonlinear Optical Spectroscopy

Jungseok Choi, Tayyaba Batool, Seungjae Lim, Jaeung Lee, and Dong-Il Yeom (Ajou Univ., Korea)

[P1-061]

70 nJ Kerr-lens Mode-locked Ti:Sapphire Oscillator with Herriott Multi-pass Cavity

Ki Han Lee, In Hyung Baek, Hyun Woo Kim, Key Young Oang, Jun Heo, Kyu-Ha Jang, Kitae Lee (KAERI, Korea), Kyung Wan Kim (Chungbuk Nat'l Univ., Korea), and Young Uk Jeong (KAERI, Korea)

[P1-062]

Fabry-Perot Resonance Enhanced Absorption of Hexagonal Boron Nitride

Seong Joon Jeon, Su Beom Song (POSTECH, Korea), Kenji Watanabe, Takashi Taniguchi (Nat'l Inst. for Materials Sciences, Japan), Moon-ho Jo, and Jonghwan Kim (POSTECH, Korea)

[P1-063]

Quantum Confined Excitons in MoSe₂ by Electrostatic Potentials

Sera Yang, Taeho Kim (POSTECH, Korea), Kenji Watanabe, Takashi Taniguchi (Nat'l Inst. for Materials Science, Japan), Moon-ho Jo, and Jonghwan Kim (POSTECH, Korea)

[P1-064]

Towards Deterministic Perfect Soliton Crystals in Microtoroids with Saturable Absorption

Hayato Matsuyama, Atsushi Takano, Riku Imamura, Heng Wang, Shun Fujii, and Takasumi Tanabe (Keio Univ., Japan)

[P1-065]

Anharmonic Behavior of Coherent Phonons within Bi₂Te₃ Thin Film Excited by Femtosecond Laser Pulse

Jia-Chi Lan, Jin-Wei Li (Nat'l Sun Yat-sen Univ., Taiwan), Tzu-Tai Huang, Jung-Chun-Andrew Huang (Nat'l Cheng Kung Univ., Taiwan), and Chao-Kuei Lee (Nat'l Sun Yat-sen Univ., Taiwan)

[P1-066]

Generation of 300 GHz Waves Using an Electro-optic Modulation Comb

Yasunori Yoshida, Mei Kuroiwa, Naoya Sano, Yamato Kitamura, Haruki Yaguchi, Yasuo Minami, and Atsushi Ishizawa (Nihon Univ., Japan)

[P1-067]

Design of Multi-band Terahertz Metamaterial Absorbers Based on Symmetry of Metallic Micro-particles

Wei Jia and Jing Bai (Univ. of Minnesota Duluth, USA)

[P1-068]

Controllable THz Emission from a Hybrid Heterostructure Co/WSe₂ with a Rashba-Interface

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

[P1-069]

Real-time Non-destructive THz Imaging for Capsule Pill Inspection

Taehee Jeong and Yeong-Hwan Ahn (Ajou Univ., Korea)

[P1-070]

Restricted Terahertz Dynamics of Two-Dimensional Water Layer

Gangseon Ji, Hyosim Yang, Min Choi (UNIST, Korea), Seondo Park (Seoul Nat'l Univ., Korea), Hyeonjun An, Hyoung-Taek Lee, Joonwoo Jeong (UNIST, Korea), Yun Daniel Park (Seoul Nat'l Univ., Korea), Kyungwan Kim (Chungbuk Nat'l Univ., Korea), Noejung Park (UNIST, Korea), Jeeyoon Jeong (Kangwon Nat'l Univ., Korea), Dai-Sik Kim, and Hyeong-Ryeol Park (UNIST, Korea)

[P1-071]

Domain Structure of Ferroics after the Impact of Picosecond Terahertz Pulses

Zhemerov E. I., Brekhov K. A., and Mishina E. D. (MIREA - Russian Technological Univ., Russia)

[P1-072]

Mechanical Control of Perovskite Phonon-Polaritons Using THz Flexible Fabry-Perot Cavity

Hwan Sik Kim and Yeong-Hwan Ahn (Ajou Univ., Korea)

[P1-073]

Optimizing Terahertz Beam Splitting with Copper Sulfide (CuS) Nanosheet Film

JaeYeong Lee (Univ. of Ulsan, Korea), Sungsan Kang (Hongik Univ., Korea), Hyeonggi Park, Su Jeong Park (Univ. of Ulsan, Korea), Sangyeon Pak (Hongik Univ., Korea), and Teun-Teun Kim (Univ. of Ulsan, Korea)

[P1-074]

Intense THz Applications in the fs-THz Beamline at Pohang Accelerator Laboratory

Jeongmin Jang and Hee Jun Shin (POSTECH, Korea)

[P1-075]

Self-injection Locking of a Mid-infrared DFB Laser to an External Cavity

Kwang-Hoon Ko, Byung Jae Chun, Yong-Ho Cha (KAERI, Korea), Fabian Rotermund, Hanseuk Lee (KAIST, Korea), and Hyunmin Park (KAERI, Korea)

[P1-076]

Humidity Detection of Terahertz Wave based on Surface-modified Polymer Mesh Membranes with Photografting PEGMA Brush

Borwen You, Shiun-Yun Chang, Yuan-Chi Wu, Pin-Jung Lu (Nat'l Changhua Univ. of Education, Taiwan), and Ja-Yu Lu (Nat'l Cheng Kung Univ., Taiwan)

[P1-077]

Terahertz Fiber Waveguide with Enhanced Bending Flexibility: A Vaseline Core and PTFE Holey Cladding Approach

Yong Soo Lee, Mingyu Lee, Inhee Maeng, Seung Jae Oh, and Kyunghwan Oh (Yonsei Univ., Korea)

[P1-078]

Anisotropic and Photosensitive Properties of PEDOT:PSS/PEDOT:NiTsPc Using Terahertz Time-Domain Spectroscopy

Wei-Lin Shu (Nat'l Tsing Hua Univ., Taiwan), Wei-Tsung Chuang (Nat'l Synchrotron Radiation Research Center, Taiwan), and Yu-Chueh Hung (Nat'l Tsing Hua Univ., Taiwan)

[P1-079]

Characterization of DNA Methylation with THz Time Domain Spectroscopy using Parallel-Plate Waveguide

Mun-Won Park, Sung-Woo Cho, and Tae-In Jeon (Korea Maritime and Ocean Univ., Korea)

[P1-080]

Probing Terahertz Electric Potentials Across Ring-shaped Quantum Barriers

Taehee Kang (KIST, Korea), Richard H. J. Kim (Ames Nat'l Lab., USA), Jinwoo Lee, Minah Seo (KIST, Korea), and Dai-Sik Kim (UNIST, Korea)

[P1-081]

Study on Demethylation of Cancer DNAs by High-power THz Radiation

Chaeyoon Kim (KAIST, Korea), Seung Won Jin (SMG-SNU Boramae Medical Center, Korea), Seong Cheol Lee, Donghak Oh, Soojeong Back, Bumki Min (KAIST, Korea), Joo-Hiuk Son (Univ. of Seoul), Hee-Jin Yang (SMG-SNU Boramae Medical Center, Korea), and Fabian Rotermund (KAIST, Korea)

[P1-082]

Anisotropic Transmission Behavior of Vertically-Aligned MXene Nanoplates as Terahertz Polarizer

Eon-Taek Oh, Changjae Lee, Tae Gwan Park (KAIST, Korea), Seongeun Lee, Seon Joon Kim (KIST, Korea), Yun-Seok Choi (Los Alamos Nat'l Lab., USA), Dong Ki Yoon, and Fabian Rotermund (KAIST, Korea)

[P1-083]

Terahertz Plasmonic Hollow-core Waveguide Based on a Metal-wire-woven Hole Array

Borwen You, Liang-Cheng Yu, Hung-Yi Tsai, Yen-Shan Lin (Nat'l Changhua Univ. of Education, Taiwan), and Ja-Yu Lu (Nat'l Cheng Kung Univ., Taiwan)

[P1-084]

Terahertz Plasmonic Sensor based on Metal-coated Plastic Woven Wire Mesh

Ja-Yu Lu (Nat'l Cheng Kung Univ., Taiwan), Borwen You (Nat'l Changhua Univ. of Education, Taiwan), and Chien-Yu Chen (Nat'l Cheng Kung Univ., Taiwan)

[P1-085]

THz Vector Beam Generation from ZnTe(100) Excited by Circularly Polarized Pulse

Hiroaki Iwase and Seigo Ohno (Tohoku Univ., Japan)

[P1-086]

A Universal Infrared Absorption Analysis System Using Deep Learning

Eito Nakgawa, Hiroto Sasaki, and Yoshiaki Nishijima (Yokohama Nat'l Univ., Japan)

[P1-087]

Sub Terahertz-wave Parametric Generation Frequency Controlled by Spectral Drill Cavity

Shin'ichiro Hayashi (Nat'l Inst. of Information and Communications Tech., Japan), Seigo Ohno (Tohoku Univ., Japan), Katsuhiko Miyamoto (Chiba Univ., Japan), Yoshiharu Urata (PHLUXi, Inc., Japan), Kouji Nawata (Tohoku Inst. of Tech., Japan), and Norihiko Sekine (Nat'l Inst. of Information and Communications Tech., Japan)

[P1-088]

High-Peak-Power Femtosecond Pulses from Passively Mode-Locked Vertical External-Cavity

Surface-Emitting Laser

Yu-Hsin Hsu (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P1-089]

Analysis of Atmospheric Turbulence on a High-Power Laser Beam in Laboratory Environment

Juan Coronel, Asma AlAhmadi, Aaasha Alteneiji, Jawaher Alameri, Karim Elayoubi, Guillaume Matras, and Chaouki Kasmi (Tech. Innovation Inst., UAE)

[P1-090]

Investigation of Coherent Beam Combining Employing Spatial-Dependent Active SPGD Algorithm

Jong-Won Lee, Hwihyeong Lee, Seung Won Jun, Byung Suh Park, Hwanseong Jeong, and Yong Seok Seo (Agency for Defense Development, Korea)

[P1-091]

25-TW Ti:sapphire Laser with Fiber Oscillator

Jae Hee Sung, Seong Ku Lee, and Hyung Taek Kim (GIST, Korea)

[P1-092]

Convolutional-Neural-Network-based Control and Optimization for High-Power Laser Profile

Y. Mashiba, Y. Miyasaka, Ko. Kondo, N. Nakanii, A. Kon, Y. Fukuda, M. Nishiuchi, and H. Kiriyaama (Nat'l Inst. for Quantum Science and Tech., Japan)

[P1-093]

High-power Thin-disk Multi-pass Amplifier as Seeder of Two Polarization Combined High-power Yb-doped Fiber Amplifiers

Tatsuya Shinozaki (SCT Inc., Japan), Kazuhiro Kawashima (SHINKOSHA Co., Ltd., Japan), Hideomi Koinuma (SCT Inc., Japan), and Satoshi Wada (RIKEN, Japan)

[P1-094]

Characterization of the Spatiotemporal Electric Field of Laser Pulses Using a Michelson Interferometer

Yeong Gyu Kim, Dohyun Kim, Byungjoo Kim, Jiyeon Choi, and Sanghoon Ahn (Korea Inst. of Machinery and Materials, Korea)

[P1-095]

Thermal Convection Induced Beam Distortion and Its Suppression in High-repetition-rate Liquid SBS-PCM

Yifu Chen, Bowen Tan, Kun Wang, Yulei Wang, Zhenxu Bai, and Zhiwei Lu (Hebei Univ. of Tech., China)

[P1-096]

A Study on Manufacturing CNT Composites Bipolar Plate for the Fuel Cell Using a Nanosecond Pulsed Laser

S. Baek, D. M. Yasin, and D. Lee (Kongju Nat'l Univ., Korea)

[P1-097]

Real-time Laser Beam Quality Measurement Equipment

C.Jeong and D.Lee (Kongju Nat'l Univ., Korea)

[P1-098]

Evaluation of Tensile Strength and Joining Characteristics of Metal-Plastic Joints by Changing Laser Process Parameters

Haetan Kim, Yusin Kim, and Changkyoo Park (Seoul Nat'l Univ. of Science and Tech., Korea)

[P1-099]

The Effect of the Composition of a Concrete Mixture during Laser Cutting

Youngjin Seo and Dongkyoung Lee (Kongju Nat'l Univ., Korea)

[P1-100]

Stable and Precise Intermittent Operation of Average Power 8W, ps Laser Pulses at 266nm by Hybrid Shutter

Jomsool Kim, Seungho Kwon, Ryon Cheong, Wonil Myeong, and Kilhwan Jeon (Laser Spectronix Ltd., Korea)

[P1-101]

Laser Ablation of LFP depending on Relative Humidity

Myeongho Park, Mincheoul Seong, Haeun Kim, and Dongkyoung Lee (Kongju Nat'l Univ., Korea)

[P1-102]

Highly Simplified Fabrication of Fine-Patterned Electrodes based on Laser Ablation Using Mode Converter

Hakyung Jeong, Hayoung Youn, Jae-Hak Lee, Jun-Yeob Song, Seongheum Han, Ah-Young Park, Hyunkyoo Moon, Seung Jin Oh, and Seungman Kim (Korea Inst. of Machinery & Materials, Korea)

[P1-103]

Effect of Laser Nitriding in Microstructure and Mechanical Properties of Mold Steel

HyeonSik Kang and C. Park (Seoul Nat'l Univ. of Science and Tech., Korea)

[P1-104]

Production of Perforated Metallic Gas Diffusion Layer for PEMFC using Nanosecond Laser

Dawit Musse, Seungeun Baek, and Dongkyoung Lee (Kongju Nat'l Univ., Korea)

[P1-105]

Femtosecond Laser-Assisted SiC Wafer Thinning Process

Hayoung Youn, Jaeseung Lim, Seongheum Han, Jae-Hak Lee, Ah-Young Park, Jun-Yeob Song, and Seungman Kim (Korea Inst. of Machinery & Materials, Korea)

[P1-106]

Low Temperature III-V and Si Wafer Bonding with Lateral Outgassing Channels

Jaeseong Jeon, Sushil Tandukar, Sangmin Oh, and Il-Sug Chung (UNIST, Korea)

[P1-107]

Fs Pulse Laser-induced Micro-LED Transfer Process

Jaeseung Lim (Korea Inst. of Machinery & Materials, Korea), Sumin Kang (Seoul Nat'l Univ. of Science and Tech., Korea), Seongheum Han, Jae-Hak Lee, Ah-Young Park, Jun-Yeob Song (Korea Inst. of Machinery & Materials, Korea), Seunghwoi Han (Chonnam Nat'l Univ., Korea), and Seungman Kim (Korea Inst. of Machinery & Materials, Korea)

[P1-108]

Laser Diode-pumped Compact Hybrid Lithium Niobate Microring Laser

Junxia Zhou, Ting Huang, Zhiwei Fang, Rongbo Wu (East China Normal Univ., China), Yuan Zhou (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), Jian Liu, Haisu Zhang, Min Wang, and Ya Cheng (East China Normal Univ., China)

[P1-109]

Femtosecond Laser Direct Writing of Tilted Waveguide Bragg Grating for Refractive Index Sensing

Jiaming Wu, Jintao Caia, and Xuewen Shu (Huazhong Univ. of Science and Tech., China)

[P1-110]

Wavelength-tunable Narrow-linewidth Laser Diode based on Self-injection Locking with a High-Q Lithium Niobate Microring Resonator

T. Huang (East China Normal Univ., China), Y. Ma (Shanghai Inst. of Optics and Fine Mechanics, China), Z. Fang, J. Zhou (East China Normal Univ., China), Y. Zhou (Shanghai Inst. of Optics and Fine Mechanics, China), Z. Wang, J. Liu, H. Zhang, M. Wang, J. Xu, and Y. Cheng (East China Normal Univ., China)

[P1-111]

Measurement of the Excimer-laser Ablation Threshold using the Random Phase Plate

Osamu Konda, Hiroaki Motosugi, and Taisuke Miura (Gigaphoton Inc., Japan)

[P1-112]

Superwetting Structures Treated by a Femtosecond Laser for Spontaneous Directional Transport of Droplets

Shuai Yang, Meng Li, Chu Li, Linyu Yan, Qiang Li, Qihuang Gong, and Yan Li (Peking Univ., China)

[P1-113]

Wavelength-Tunable Narrow-Linewidth Laser Diode Based on Self-Injection Locking with a High-Q Lithium Niobate Microring Resonator

T. Huang (East China Normal Univ., China), Y. Ma (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), Z. Fang, J. Zhou (East China Normal Univ., China), Y. Zhou (Shanghai Inst. of Optics and Fine Mechanics, Chinese Academy of Sciences, China), Z. Wang, J. Liu, H. Zhang, M. Wang, J. Xu, and Y. Cheng (East China Normal Univ., China)

[P1-114]

Femtosecond Laser Inscribed Directional Coupler in MgO:LN Waveguide

Shih-Zhe Pan (Feng Chia Univ., Taiwan), Yu-Ting Song, Ze-Wei Xu, Zhi-Ming Hsieh, Wei-Wei Hsiang (Fu Jen Catholic Univ., Taiwan), and Shou-Tai Lin (Feng Chia Univ., Taiwan)

[P1-115]

Laser Polishing of Micro-Holes in Quartz

Chung-Wei Cheng and Yang-Chang Hou (Nat'l Yang Ming Chiao Tung Univ., Taiwan)

[P1-116]

Investigation of Ultrafast-Laser-Induced Material Modification Based on Electron Density Measurement

Kota Takabayashi, Guoqi Ren, Qinru Zheng, Yuta Teshima, Junya Hattori, and Yusuke Ito (The Univ. of Tokyo, Japan)

[P1-117]

Fabrication of an Anti-reflective Microstructure on Diamond by Femtosecond Laser Oblique Machining

Yunfei Li, He Cao, and Gong Wang (Hebei Univ. of Tech., China)

[P1-118]

Waveform Control of Terahertz Optical Microwave Generation by Optical Frequency Comb Synthesizer/Analyzer and its Application to TOF Distance Measurement

Daisuke Noso, Ryo Uchiyama, and Tatsutoshi Shioda (Saitama Univ., Japan)

[P1-119]

Thin Film Thickness Measurement and Analysis with a Deep Learning Algorithm Considering Intensity Fluctuations of Light Source

Joonyoung Lee (Univ. of Science and Tech., Korea) and Jonghan Jin (KRISS, Korea)

[P1-120]

Chirped Spectral-domain Interferometry for an Extended Measurement Range of Surface Profiler

Hyun Sung Kim, Seung Seok Lee, and Eun Seo Choi (Chosun Univ., Korea)

[P1-121]

Investigation of Suitable Repetition Frequency Difference in Dual Refractive-Index-Sensing Optical Combs

M. Higaki, S. Miyamura (Tokushima Univ., Japan), S. Taue (Kochi Univ. of Tech., Japan), Y. Tokizane, E. Hase (Tokushima Univ., Japan), T. Minamikawa (Osaka Univ., Japan), and T. Yasui (Tokushima Univ., Japan)

[P1-122]

Development of an All-polarization-maintaining Tri-comb Fiber Laser with a Mechanical-sharing Configuration

Kosei Nagao, Takahisa Miura, Takashi Kato, Akifumi Asahara, and Kaoru Minoshima (The Univ. of Electro-Communications, Japan)

[P1-123]

Shape Measurement of Objects Moving Laterally at Constant Speed using Line Digital Holography

Yuma Sato and Yoshio Hayasaki (Utsunomiya Univ., Japan)

[P1-124]

Electronically-tunable Flat Electro-optic Frequency Comb

Yange Zhang, Jiarong Zhang, Haotian Shu, and Yihan Li (Beihang Univ., China)

[P1-125]

Development of an Iodine-stabilized Laser and Frequency Measurement of Hyperfine Components of the R(36)39-0 Transition

Akiko Nishiyama, Sho Okubo, Takumi Kobayashi, Akio Kawasaki, and Hajime Inaba (AIST, Japan)

[P1-126]

Broadband-ness of q-plate with Their Three q-plate Configuration

NILESH RAJPUT, KANAKA RAJU P., and G. RAGHAVAN (Defence Inst. of Advanced Tech., India)

[P1-127]

Comparison of EIT Signals from Rb Vapor Cell Coupled with Different Optical Fiber

Combinations

Seung Kwan Kim, Sun Do Lim, Jae-Keun Yoo, and In-Ho Bae (KRISS, Korea)

[P1-128]

Dynamic Observation of a Woodlouse with Improved Multibeam X-ray Optical System

Hiroki Sumiish (Tohoku Univ., Japan), Wolfgang Voegeli (Tokyo Gakugei Univ., Japan), Kentaro Kajiwara (Japan Synchrotron Radiation Research Inst., Japan), Hiroyuki Kudo (Univ. of Tsukuba, Japan), Xiaoyu Liang, and Wataru Yashiro (Tohoku Univ., Japan)

[P1-129]

Image-frequency-resolved Electro-optic Dual-comb Spectroscopy Using a Single Modulator Without Optical Filter

Yushang Du, Xin Zhao, and Zheng Zheng (Beihang Univ., China)

[P1-130]

Characterisation of SiC-SPAD for UV Detection

Abdallah Karmalawi, Dong-Hoon Lee, and In-Ho Bae (KRISS, Korea)

[P1-131]

Accurate Estimation of Measurement Position in BOCDR Using Rayleigh-Induced Noise

Keita Kikuchi, Ryo Inoue, Haruki Sasage, Heeyoung Lee (Shibaura Inst. of Tech., Japan), and Yosuke Mizuno (Yokohama Nat'l Univ., Japan)

[P1-132]

Multi-Wavelength Array Sensors for Real-time Laser Process Monitoring

Kisoo Kim (Korea Photonics Tech. Inst., Korea), Shinho Kim (Monitech Co., Ltd., Korea), Sungjae Bong (Jeonnam Technopark, Korea), and Yongjoon Cho (Monitech Co., Ltd., Korea)

[P1-133]

Development of an Er-fiber Comb Using a Semiconductor Saturable Absorber with an Intra-Cavity Electro-Optic Modulator

Tsubasa Kashimura, Yohei Sugiyama, Yuki Toyoda (Yokohama Nat'l Univ., Japan), Yoshiaki Nakajima (Toho Univ., Japan), Daisuke Akamatsu, and Feng-Lei Hong (Yokohama Nat'l Univ., Japan)

[P1-134]

Detection Efficiency Calibration of Single Photon Avalanche Photodiodes by Using a 1550 nm Pulsed Laser

In-Ho Bae, Abdallah Karmalawi, and Dong-Hoon Lee (KRISS, Korea)

[P1-135]

A Preliminary Analysis on 3D Shear Wave Elastography with Laboratory X-ray Source

Ren Nasukawa (Tohoku Univ., Japan), Chika Kamezawa (Inst. of Materials Structure Science, Japan), Yasukazu Nakaye, Yasutaka Sakuma, Masaru Kuribayashi (Rigaku Corp., Japan), Liang Xiaoyu (Tohoku Univ., Japan), Kazuyuki Hyodo (Inst. of Materials Structure Science, Japan), Akio Yoneyama (SAGA Light Source, Japan), and Wataru Yashiro (Tohoku Univ., Japan)

[P1-136]

An Integrated Photonics Calibration Circuit Based on Cascaded Attenuators

Jing Zhang (Nat'l Metrology Centre, A*STAR, Singapore), Karthik Panicker (Inst. of Materials Research and Engineering, A*STAR, Singapore), Thomas Y.L. Ang (Inst. of High Performance Computing, A*STAR, Singapore), Rui Jie Goh (Singapore Inst. of Tech., Singapore), and Victor Leong (Inst. of Materials Research and Engineering, A*STAR, Singapore)

[P1-137]

Spectrum Analyser Using a VIPA Etalon to Observe Lasing Modes of a Spectral Drill Laser

Seigo Ohno (Tohoku Univ., Japan), Katsuhiko Miyamoto (Chiba Univ., Japan), Shin'ichiro Hayashi (Nat'l Inst. of Information and Communications Tech., Japan), Yoshiharu Urata (PHLUXi, Inc., Japan), Kouji Nawata (Tohoku Inst. of Tech., Japan), and Norihiko Sekine (Nat'l Inst. of Information and Communications Tech., Japan)

[P1-138]

Frequency-comb-referenced Continuous-wave Terahertz Spectroscopy with Enhanced Frequency Resolution and Precision

Guseon Kang, Jaeyoon Kim, Dong-Chel Shin (KAIST, Korea), Joohyung Kim (Seoul Nat'l Univ. of Science and Tech., Korea), Seung-Woo Kim, and Young-Jin Kim (KAIST, Korea)

[P1-139]

FMCW Laser Ranging Beyond Coherence Length Based on Digital Phase Noise Compensation

Hangtian Lu, Gang Hu, Xiuyuan Sun, Zhongyang Xu, and Shilong Pan (Nanjing Univ. of Aeronautics and Astronautics, China)

[P1-140]

Advancing Security: Dye-Doped PMMA Fibers for Flexible Anticounterfeiting Encoding Chips

Xia Yuhan, Sun Xiyu, and Yu-Cheng Chen (Nanyang Technological Univ., Singapore)

[P1-141]

Fiber-optic Humidity Sensor Using M13 Bacteriophage and D-shaped Optical Fiber

Sung Yoon Cho, Min Su Kim, Ji Su Kim, Byeong Kwon Choi, Soyeon Ahn (Chungnam Nat'l Univ., Korea), Jong Min Lee (Hallym Univ., Korea), and Min Yong Jeon (Chungnam Nat'l Univ., Korea)

[P1-142]

Impact of Core Radius Fluctuations on Four-Wave Mixing Efficiency in Optical Fiber

Thjalfe Ulvenberg, Jacob Gade Koefoed, Lars Søjgaard Rishøj, Michael Galili, and Karsten Rottwitt (Technical Univ. of Denmark, Denmark)

[P1-143]

Self-Adhesive Packaging for Strain Monitoring Based on Fibre Bragg Grating Sensors

Pingyu Zhu, Fuming Xie, Jinfu Lu (Guangzhou Univ., China), and Marcelo A. Soto (Universidad Tecnica Federico Santa Maria, Chile)

[P1-144]

Loss Characteristics of Helically Twisted Hollow Elliptical Core Fibers

Mingjie Cui (The Hong Kong Polytechnic Univ., Hong Kong S.A.R), Zhuo Wang (South China Normal Univ., China), and Changyuan Yu (The Hong Kong Polytechnic Univ., Hong Kong S.A.R)

[P1-145]

Coherent Tunneling Control in Magnetic/Nonmagnetic Waveguides On-chip

O.V. Borovkova, A.A. Kolosova, V.E. Lobanov, I.A. Bilenko, V.I. Belotelov, and D.A. Chermoshentsev (Russian Quantum Center, Russia)

[P1-146]

Perfect Optical Fiber Coupling with Subwavelength Coupling Length

Myeongjin Kim and Q-Han Park (Korea Univ., Korea)

[P1-147]

Energy-evolution and Guiding Regimes of Air Waveguide Induced by Femtosecond Laser Filamentat

Zhiwenqi An, Jiayun Xue, Pengfei Qi, and Weiwei Liu (Nankai Univ., China)

[P1-148]

Linear and Nonlinear Coupling in a Weak Coupled Normal Dispersion 7-core Optical Fiber

M. D. Gervaziev, N. Bochkarev, A. A. Revyakin, D. S. Kharenko, and S. A. Babin (Inst. of Automation and Electrometry SB RAS, Russia)

[P1-149]

Design of the Fiber Laser with $Ti_3C_2T_x$ -Coated Etched Fiber as Saturable Absorber for Soliton Rain and Bound State Soliton Generation

Radomyr Diachenko and Kwanil Lee (KIST, Korea)

[P1-150]

Topology Optimization of Nonlinear Optical Switch Using Adjoint Variable Method

Hayase Hirao, Akito Iguchi, and Yasuhide Tsuji (Muroran Inst. of Tech., Japan)

[P1-151]

Theoretical Study into Splicing Mismatch in a Large Mode Area Double Clad Fiber for High Power Laser

Ingwon Kim, Suh-young Kwon, and Ju Han Lee (Univ. of Seoul, Korea)

[P1-152]

Polychromatic Floquet-Bloch Oscillations in Photonic Lattices

Zhen Zhang (Huazhong Univ. of Science and Tech., China), Yuan Li, Xiankai Sun (The Chinese Univ. of Hong Kong, Hong Kong S.A.R), and Xuewen Shu (Huazhong Univ. of Science and Tech., China)

[P1-153]

A 100 dB Microwave Photonic Filter

Reena Parihar and Amol Choudhary (Indian Inst. of Tech. Delhi, India)

[P1-154]

Laser Amplification at 1948nm in Double-cladding Tm/Al Co-doped Photonic Crystal Fiber Amplifier Fabricated by Laser Additive Manufacturing

Nan Zhao, Zeren Luo (Guangdong Polytechnic Normal Univ., China), Jiaming Li (South China Normal Univ., China), and Chun Shan (Guangdong Polytechnic Normal Univ., China)

[P1-155]

Waveguide Discontinuity Analysis with Full-wave Finite Element 3D Propagation Operator Method

Hyunuk Ahn, Akito Iguchi (Muroran Inst. of Tech, Japan), Keita Morimoto (Univ. of Hyogo, Japan), and Yasuhide Tsuji (Muroran Inst. of Tech, Japan)

[P1-156]

Dual-wavelength Soliton Fibre Laser Based on Passive Mode-locking

Yantong Shen, Tianyue Wu, Chen Chen, and Xueming Liu (Nanjing Univ. of Information Science and Tech., China)

[P1-157]

Mode-Dependent Losses in Nested Antiresonant Hollow Core Fibers

Shogo Ota (Osaka Prefecture Univ., Japan), Hirokazu Kubota, and Yuji Miyoshi (Osaka Metropolitan Univ., Japan)

[P1-158]

Demonstration of Single-End-Access Brillouin Sensing Using Plastic Optical Fibers with 1 kHz Sampling Rate

Seiga Ochi (Yokohama Nat'l Univ., Japan), Shuto Tsurugai (Shibaura Inst. of Tech., Japan), Kohei Noda (The Univ. of Tokyo., Japan), Heeyoung Lee (Shibaura Inst. of Tech., Japan), and Yosuke Mizuno (Yokohama Nat'l Univ., Japan)

[P1-159]

Exploring Twist Sensing Capabilities in Plastic Optical Fibers through Multimodal Interference

Ryo Takano, Hamza Javid, and Yosuke Mizuno (Yokohama Nat'l Univ., Japan)

[P1-160]

Exploring Polytetrafluoroethylene Cladding for Liquid Core Waveguides

Yong Soo Lee (KIST, Korea), Seokjin Kim, Changyong Oh, Baekmin Kim, and Kyunghwan Oh (Yonsei Univ., Korea)

[P1-161]

Measurement of the Relaxation Properties of the Single Mode Optical Fibres Irradiated by the Gamma-rays

Vaclav Prajzler, Marek Zikmund, Lenka Benkova (Czech Technical Univ. in Prague, Czech Republic), Vit Placek, Petr Havranek, Martin Cabalka (UJV Rez, Czech Republic), Jiri Helan, Michal Velc, and Jiri Stefl (OPTOKON Kable Co., Ltd., s.r.o., Czech Republic)

[P1-162]

All-optical Tunable Attenuator with a Multi-walled Carbon Nanotubes Coated Long-period Fiber Grating

Ying Wan (Nanjing Univ. of Information Science and Tech., China) and Chen Jiang (Nanjing Univ. of Posts and Telecommunications, China)

[P1-163]

Large Mode Area Bend Compensated ARC Fiber for High-power Laser Output

Soorej Thekkeyil (Indian Inst. of Tech. Delhi, India), Anirban Dhar (CSIR-Central Glass & Ceramic Research Inst., India), and Deepak Jai (Indian Inst. of Tech. Delhi, India)