

Session Title	Poster Session 2	Session Code	P2
Date and Time	July 5 (Thu.) / 13:00-14:00		
Place	Lobby, ICC Jeju 3F		

P2-01

SC3_1001

Triangular Multi-Core Hollow Optical Fiber for Uncoupled Space-Division and Mode-Division Multiplexing

Seongjin Hong, Yongsoo Lee, Byungjoo Kim, and Kyunghwan Oh
Yonsei Univ., Korea

P2-02

SC3_1006

Technique for Simultaneously Measuring Differential Group Delay of Each Core in a Fewmode Multi-Core Fiber

Ryuki Miyazaki¹, Masaharu Ohashi¹, Hirokazu Kubota¹, Yuji Miyoshi¹, Nori Shibata², Yusuke Sasaki³, and Kazuhiko Aikawa³
¹Osaka Prefecture Univ., Japan, ²Nihon Univ., Japan, ³Fujikura Ltd., Japan

P2-03

SC3_1007

Surface Plasmon Polariton based on Goldcoated D-Shaped Photonic Crystal Fiber Biosensor

Xuanyi Liu, M. S. Aruna Gandhi, and Qian Li
Peking Univ., China

P2-04

SC3_1008

Vibration Monitoring based on the Polarization Dependent Loss of Long Period Fiber Gratings

Yui Shindo¹, Yasuhiro Tsutsumi², Takahiro Hase¹, Masaharu Ohashi¹, Yuji Miyoshi¹, and Hirokazu Kubota¹
¹Osaka Prefecture Univ., Japan, ²Ritsumeikan Univ., Japan

P2-05

SC3_1009

Evaluation of High Alcohol Concentration using a 1.7- μ m Band Near-Infrared Spectroscopy System using Multi-Mode Optical Fibers

Yusuke Tano¹, Motoki Tanaka¹, Yuma Honda¹, Akihiro Maeda¹, Xiaoen Du¹, Fumiki Hanafuji¹, Osanori Koyama¹, Kazuya Ota^{1,2}, Tatsuro Endo¹, and Makoto Yamada¹
¹Osaka Prefecture Univ., Japan, ²Trimatiz Ltd., Japan

P2-06

SC3_1011

Transmittance Modeling of Long-Period Fiber Gratings based on the Photo-Elastic Effect

Kenta Kitahara¹, Yasuhiro Tsutsumi², Takahiro Hase¹, Masaharu Ohashi¹, Hirokazu Kubota¹, and Yuji Miyoshi¹
¹Osaka Prefecture Univ., Japan, ²Ritsumeikan Univ., Japan

P2-07

SC3_1014

High Density Multicore Fibers Employing Small MFD Cores for Datacenters

Yusuke Sasaki, Katsuhiro Takenaga, and Kazuhiko Aikawa
Fujikura Ltd., Japan

P2-08

SC3_1017

Study on 6-LP Mode Amplification of Ring-Core Erbium-Doped Fibers

Masashi Yoshimura¹, Shota Miyagawa¹, Daiki Nobuhira¹, Osanori Koyama¹, Makoto Yamada¹, and Hiroataka Ono²
¹Osaka Prefecture Univ., Japan, ²NTT Corp., Japan

P2-09**SC3_1026****Simultaneous Measurement of Relative Humidity and Temperature by using Polymer Fiber Fizeau/Airgap Fiber Fabry-Perot Interferometers**Jen-Yao Chang¹, Cheng-Ling Lee¹, and Pin Han²**P2-10****SC3_1032****Dispersion Characteristics of High Order Modes of Photonic Bandgap Fibers**

H. Kubota, N. Kosake, Y. Miyoshi, and M. Ohashi

Osaka Prefecture Univ., Japan

P2-11**SC3_1036****Femtosecond Mode-Locked Fiber Laser using an Etched Optical Fiber Immersed in Liquid Mxene as a Saturable Absorber**Jeong Je Kim^{1,2}, Hyerim Kim², Chong Min Koo², Jae Ha Lee², Sang Bae Lee², and Kwanil Lee^{1,2}¹University of Science and Technology, Korea, ²KIST, Korea**P2-12****SC3_1038****Dense Double-Cladding Photonic Crystal Fiber with High Birefringence, Large Negative Dispersion and High Nonlinearity**Yong Soo Lee¹, Seongjin Hong¹, So Eun Kim², Byungjoo Kim¹, and Kyunghwan Oh¹¹Yonsei Univ., Korea, ²GIST, Korea**P2-13****SC3_1040****The Rayleigh and Polarization Fading Elimination in Phase-Extracted OTDR**Gukbeen Ryu^{1,2}, Gyu-Tae Kim², Kwang Yong Song³, Sang Bae Lee¹, and Kwanil Lee¹¹KIST, Korea, ²Korea Univ., Korea, ³Chung-Ang Univ., Korea**P2-14****SC3_1041****PER Enhancement of Panda PM Fibers by Polarization Axis Alignment**Yohan Kim^{1,2}, Byunghyuck Moon^{1,2}, Minkyu Park³, Hwanseong Jeong⁴, Seongmook Jeong⁴, Byeong Kwon Ju², and Young Min Jhon¹¹KIST, Korea, ²Korea Univ., Korea, ³Agency for Defense Development, Korea, ⁴LIG NEX1, Korea**P2-15****SC3_1043****Multicore Fiber Mach-Zehnder Interferometers by Programmable Offset Splicing Technique**

Xuan Zhan, Ming Tang, Ruoxu Wang, Songnian Fu, and Deming Liu

Huazhong Univ. of Sci. and Tech., China

P2-16**SC3_1049****Domain Wall Dark Pulse Generation at 1.95 μm using Topological Insulator Saturable Absorber**

Joonhoi Koo and Woojin Shin

GIST, Korea

P2-17**SC3_1055****Long Range One-End Accessible BOCDA Adopting Time Domain Data Processing**Gukbeen Ryu^{1,2}, Gyu-Tae Kim², Kwang Yong Song³, Sang Bae Lee¹, and Kwanil Lee¹¹KIST, Korea, ²Korea Univ., Korea, ³Chung-Ang Univ., Korea**P2-18****SC3_1059****The Novel Rotation Writing Method of Fiber Bragg Grating in Multicore Fiber**

Deng Shunge, Ma Xin, Li Xinwan, and Gao Kan

Shanghai Jiao Tong Univ., China

P2-19**SC3_1061****MOPA Fiber Laser for Photoacoustic Tomography using Arrayed Ultrasound Transducer**A. Yong-Jae Lee¹, B. Jun-Tae Ahn², C. Joo Yong Sim², D. Bong Kyu Kim², E. Min Yong Jeon³, and F. Byeong Ha Lee¹¹Advanced Photonics Research Inst., Korea, ²ETRI, Korea, ³Chungnam Nat'l Univ., Korea**P2-20****SC3_1062****Conically Shaped Radial-Firing Fiber Tip Comprised of Air-Pocket and its Optical Characteristics**Yong-Tak Ryu¹, Seongmin Ju¹, Seong Gu Kang¹, Yuseung Lee¹, and Won-Taek Han^{1,2}¹GIST, Korea, ²Zetto Co. Ltd., Korea**P2-21****SC3_1064****Particles Vibration Frequency Measurement using MultiCore Fiber**

Ma Xin, Deng Shunge, and Li Xinwan

Shanghai Jiao Tong Univ., China

P2-23**SC4_1003****Temperature-Sensing System Employing Longperiod Fiber Grating in Optical IP Network**

Makoto Matsui, Osanori Koyama, Akihiro Kusama, Toshinori Murakami, and Makoto Yamada

Osaka Prefecture Univ., Japan

P2-24**SC4_1004****A Room-Temperature Near-Infrared Nanowire/Quantum-Well Laser**Wei Wei¹, Xin Yan², Xiaofeng Ma¹, Vittorio Giarola¹, and Xia Zhang²¹Guangzhou Univ., China, ²Beijing Univ. of Posts and Telecommunications, China**P2-25****SC4_1005****A Multi-Diameter GaAs Nanowire Array Solar Cell with Axial p-i-n Junctions**Lei Gong¹, Xin Yan¹, Wei Wei², Yao Wu¹, Bang Li¹, Qichao Lu¹, Yanbin Luo¹, Xia Zhang¹, and Xiaomin Ren¹Beijing Univ. of Posts and Telecommunications, China, ²Guangzhou Univ., China**P2-27****SC4_1011****All-Printed Organic and Oxide Tetero-Structure Device with Photoconductivity**

Gul Hassan, Muhammad Umair Khan, Muhammad Asim Raza, and Jinho Bae

Jeju Nat'l Univ., Korea

P2-29**SC4_1013****Thickness and Temperature Dependency of Variation of Dielectric Functions of Phase-Change VO₂ Film**Sun-Je Kim¹, Sungwook Choi², Jangwoon Sung¹, Yong Wook Lee², and ByoungHo Lee¹¹Seoul Nat'l Univ., Korea, ²Pukyong Nat'l Uni., Korea**P2-30****SC4_1015****A High-Responsivity Subwavelength GaAs Nanowire Photodetector with a Dipole Antenna**Yanni Tang¹, Xin Yan¹, Wei Wei², Bang Li¹, Qichao Lu¹, Yanbin Luo¹, Xia Zhang¹, and Xiaomin Ren¹¹Beijing Univ. of Posts and Telecommunications, China, ²Guangzhou Univ., China**P2-31****SC4_1017****Multi-Mirror Alexandrite Laser Cavity Design with Thermal Lens Effect**Young Jun An^{1,2}, Byunghyuck Moon^{1,2}, Hee Dong Yang¹, Byeong-Kwon Ju², and Young Min Jhon¹¹KIST, Korea, ²Korea Univ., Korea

P2-32**SC4_1018****Characterization of Degradation in Organic Light Emitting Diodes by Terahertz Spectroscopy**Yeongkon Jeong^{1,2}, Soo Jong Park², Sang-Hun Lee¹, Byeong-Kwon Ju², Young Min Jhon¹, and Minah Seo¹

1KIST, Korea, 2Korea Univ., Korea

P2-33**SC4_1023****Side-Channel PCF for Surface-Enhanced Raman Spectroscopy**

Udaya Rahubadde, Li Xia, and Nishan Wu

Huazhong Univ. of Sci. and Tech., China

P2-34**SC4_1029****Piezo-Phototronic Dependent Enhanced Charge Transportation in SbSI Micro Rod Photodetector**

Yuvasree Purusothaman, Nagamalleswara Rao Alluri, and Sang-Jae Kim

Jeju Nat'l Univ., Korea

P2-35**SC4_1033****Inductively Coupled Plasma Dry Etching for Nano Structured III-V on Si Lasers**Sushil Tandukar¹, and Il-Sug Chung^{1,2}¹Technical Univ. of Denmark, Denmark, ²UNIST, Korea**P2-36****SC4_1034****Wavelength Tunable Intra-Cavity Nonlinear Polarization Rotation Mode-Locked Single Pulse Laser**Byunghyuck Moon^{1,2}, Hee Dong Yang^{1,3}, Byeong-kwon Ju², and Young Min Jhon¹

1KIST, Korea, 2Korea Univ., Korea, 3Univ. of Seoul, Korea

P2-37**SC4_1036****Ohmic Contacts to n-Type InP for High-Speed Silicon-on-Chip Vertical-Cavity Lasers**Vladimir Topić¹, Sushil Tandukar¹, Gyeong Cheol Park¹, and Il-Sug Chung^{1,2}

1Technical Univ. of Denmark, Denmark, 2UNIST, Korea

P2-38**SC4_1038****Theoretical Study of a Tunable Transmissive Subtractive Color Filter using Thin Metal Films and Transparent Conducting Oxide**

Jungsan Kim and Min-Suk Kwon

UNIST, Korea

P2-39**SC4_1044****On-Chip Temperature Sensor using High-Q Si₃N₄ Micro-Disk Resonator**

Gumin Kang

KIST, Korea

P2-40**SC4_1046****All-Printed Stretchable Photo-Conductive Device Fabricated on Engineered PDMS**

Muhammad Asim Raza, Gul Hassan, Muhammad Umair Khan, and Jinho Bae

Jeju Nat'l Univ., Korea

P2-41**SC4_1048****Optical Complex Signal Generation based on Optical Injection Locking and Its Performance Analysis**

Jun-Hyung Cho, Yoo-Seung Hong, and Hyuk-Kee Sung

Hongik Univ., Korea

Inkjet Printed Organic-Inorganic Bilayer Photoconductive Sensor

Muhammad Umair Khan, Gul Hassan, Muhammad Asim Raza, Chong Hyun Lee, and Jinho Bae
Jeju Nat'l Univ., Korea

Bandwidth Improvement of DML by Change of Bondwire Length

Hyoung-Joo Jeon¹, Young-Tak Han², Seok-Tae Kim², and Yongsoo Baek²
¹Univ. of Sci. and Tech., Korea, ²ETRI, Korea

On-Chip Photon Pair Source in Silicon Waveguide

Woncheol Shin, Kyungdeuk Park, and Heedeuk Shin
POSTECH, Korea