

List of Other Research Papers Published Overseas

(From October 2013 to September 2014)

[17IHPC (International Heat Pipe Conferences) 2013.10, India

ULTRA-THIN HIGH PERFORMANCE HEAT PIPE FOR THIN AND LIGHT PORTABLE COMPUTING DEVICES

..... M. Mochizuki

[IEEE 3D System Integration Conference 2013] 2013.10, San Francisco, California, USA

Glass Interposer with High-Density Three-Dimensional Structured TGV for 3D Systems Integration

..... O. Nukaga, T. Shioiri, S. Yamamoto, T. Suemasu

[18th Microoptics Conference] 2013.10, Japan

Low-loss silicon partial-rib waveguide polarization rotator

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾, D. -L. Kwong¹⁾, K. Goi, A. Oka, H. Kusaka, K. Ogawa

[18th Microoptics Conference] 2013.10, Japan

Bit-error-rate performance of 10 Gb/s Silicon Mach-Zehnder Modulator Module in 100-km optical-fiber transmission

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾, D. -L. Kwong¹⁾, H. Ishihara, K. Oda, T. Ori, K. Goi, K. Ogawa

[62th International Wire and Cable Symposium] 2013.11, NC, USA

New High Efficiency Fusion Splicer and System

..... R. Hasegawa, Y. Iwashita, S. Saito, N. Kawanishi

[62th International Wire and Cable Symposium] 2013.11, Charlotte, NC, USA

Development of new aerial distribution optical cables for rural area economical FTTH network

..... M. Ohno, T. Fukute, M. Isaji, Y. Kudo, S. Shiobara, M. Yamanaka, N. Okada, H. Morioka, H. Kikuchi

[62th International Wire and Cable Symposium] 2013.11, Charlotte, NC, USA

Ultra-High Density Wrapping Tube Optical Fiber Cable with 12-Fiber Spider Web Ribbon

..... M. Isaji, S. Yagi, Y. Takahashi, K. Osato, M. Yamanaka, N. Okada

[26th International Symposium on Superconductivity] 2013.11, Japan

DEVELOPMENT OF COMMERCIAL RE123 COATED CONDUCTORS FOR PRACTICAL APPLICATIONS BY IBAD/PLD APPROACH

..... Y. Iijima

[26th International Symposium on Superconductivity] 2013.11, Japan

EVALUATION OF CODUCTION-COOLED REBCO PANCAKE COILS WITH IBAD/PLD COATED CONDUCTORS

..... M. Daibo, S. Fujita, M. Haraguchi, Y. Iijima, M. Itoh, T. Saitoh

[26th International Symposium on Superconductivity] 2013.11, Japan

DEVELOPMENT OF 66kV-5kA CLASS HTS POWER CABLE WITH IBAD/PLD REBCO TAPES

..... O. Maruyama²⁾, T. Ohkuma²⁾, M. Daibo, K. Watanabe, A. Akashi, M. Nagata, M. Yoshida, T. Saitoh, M. Ito

[22th International Superconductivity Industry Summit] 2013.11, Japan

MASS-PRODUCTION of 2G HTS WIRE BY IBAD/PLD APPROACH

..... Y. Iijima

[KINKEN WAKATE2013] 2013.11, Japan

Initial growth of AlN single crystals by sublimation method using SiC seeds

..... M. Hatada

[International Symposium on extremely advanced transmission technology 2013] 2013.11, Japan

Multi-Core EDFA for 12-Core Fiber Transmission

..... H. Ono³⁾, H. Takara⁴⁾, M. Yamada⁵⁾, K. Ichii, K. Takenaga, S. Mastuo

[International Symposium on extremely advanced transmission technology 2013] 2013.11, Japan

Double-Clad Multi-Core Er/Yb Co-Doped Fiber for Cladding Pumped Amplifier

..... H. Ono³⁾, M. Yamada⁵⁾, K. Ichii, K. Takenaga, S. Matsuo

[International Symposium on extremely advanced transmission technology 2013] 2013.11, Japan

Crosstalk Reduction in Multi-core Fiber Amplifier with Bundled EDF

..... K. Yamaoka⁵⁾, M. Yamada⁵⁾, K. Tsujikawa⁶⁾, H. Ono³⁾, K. Ichii, S. Mastuo

[International Symposium on extremely advanced transmission technology 2013] 2013.11, Japan

Recent progress on multicore amplification technologies

..... M. Yamada⁵⁾, H. Masuda⁷⁾, S. Kobayashi⁸⁾, K. Tsujikawa⁹⁾, H. Ono³⁾, S. Matsuo

[Nanophotonics, Vol.2, No.5-6, pp. 441-454] 2013.12

Multicore fibers for large capacity transmission

..... K. Saioto¹⁰⁾, S. Matsuo

[Journal of Lightwave Technology, Vol.32, No.3, pp.440-449] 2013.12

Design Optimization of Large-Mode-Area All-Solid Photonic Bandgap Fibers for High-Power Laser Applications

..... S. Saitoh¹⁰⁾, K. Saitoh¹⁰⁾, L. Dong¹¹⁾,
M. Kashiwagi, S. Matsuo

[Photonics West 2014] 2014.2, San Francisco

Multicore EDFA for long distance transmission

..... M. Yamada⁵⁾, H. Ono³⁾, S. Matsuo

[Photonics West 2014] 2014.2, San Francisco

Few Mode Fibers with Low DMD Slope Realizing Zero-DMD in Wide Wavelength Range for MIMO Processing

..... M. Ohashi⁵⁾, R. Maruyama, N. Kuwaki,
S. Matsuo

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, San Francisco

Experimental Evaluation of Mode Conversion Ratio at Splice Point for Two-Mode Fibers and its Simulated Effect on MIMO Transmission

..... M. Ohashi⁵⁾, R. Maruyama, N. Kuwaki,
S. Matsuo, K. Sato

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, San Francisco

Asynchronous MDM-OCDFM-based 10G-PON over 40km-SMF and 2km-TMF Using Mode MUX/DeMUX at Remote Node and OLT

..... T. Kodama¹²⁾, T. Isoda¹²⁾, K. Morita¹²⁾,
A. Maruta¹²⁾, N. Wada¹³⁾, G. Cincotti¹⁴⁾,
K. Kitayama¹²⁾, R. Maruyama, N. Kuwaki,
S. Matsuo

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, San Francisco

Multicore-fiber Cable with Core Density of 6 cores/mm²

..... I. Ishida, Y. Amma, K. Hirakawa,
H. Uemura, Y. Sasaki, K. Takenaga,
N. Ito, K. Osato, S. Matsuo

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, USA

Mode Multiplexer/Demultiplexer Based on a Partially Elongated Multi-Core Fiber

..... S. Nishimoto¹⁰⁾, T. Uematsu¹⁰⁾,
K. Saitoh¹⁰⁾, H. Uemura, Y. Sasaki,
K. Takenaga, K. Omichii, R. Goto,
S. Matsuo

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, USA

128-Gb/s DP-QPSK using low-loss monolithic silicon IQ modulator integrated with partial-rib polarization rotator

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, K. Goi, A. Oka,
H. Kusaka, K. Ogawa

[The Optical Fiber Communication Conference and Exposition (OFC) 2014] 2014.3, USA

12-core x 3-mode Dense Space Division MULTIPLEXES Transmission over 40 km Employing Multi-carrier Signal Parallel MIMO Equalization

..... T. Mizuno¹⁵⁾, T. Kobayashi¹⁵⁾,
H. Takara¹⁵⁾, A. Sano¹⁵⁾, H. Kawakami¹⁵⁾,
T. Nakagawa¹⁵⁾, Y. Miyamoto¹⁵⁾, Y. Abe¹⁵⁾,
T. Goh¹⁵⁾, M. Oguma¹⁵⁾, T. Sakamoto¹⁵⁾,
K. Saitoh¹⁰⁾, T. Morioka¹⁶⁾, Y. Sasaki,
I. Ishida, K. Takenaga, S. Matsuo

[Optics Letters] 2014.3

Method for estimating gain coefficient spectrum of erbium-doped fiber based on net gain-loss measurement employing ⁴I_{12/2} level pumping

..... H. Ono¹⁵⁾, M. Yamada⁵⁾, K. Ichii,
S. Matsuo

[International Conference on Dye-sensitized Solar Cell] 2014.3, Japan

Development of DSC Module for Energy Harvesting Applications in Fujikura

..... H. Matsui

[International Conference on Electronics Packaging 2014] 2014.4, Japan

High-ON/OFF-Contrast 10-Gb/s Silicon Mach-Zehnder Modulator in High-Speed Low-Loss Package

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, H. Ishihara, K. Oda,
T. Ori, K. Goi, K. Ogawa

[ICEP2014 (International Conference on Electronics Packaging 2014)] 2014.4, Japan

Integrated Vapor Chamber Heat Spreader for High Power Processors

..... Thanh L. Phan, Y. Saito, M. Mochizuki

[ICEP2014 (International Conference on Electronics Packaging 2014)] 2014.4, Japan

Development of 1kW DMFC system with waste heat recovery for improving energy efficiency

..... Y. Morimatsu, Z. Guo, M. Ohashi

[Journal of Lightwave Technology] 2014.4

40G-OCDFM-PON System with an Asymmetric Struc-

ture Using a Single Multi-port and Sampled SSFBG Encoder/Decoders

..... R. Matsumoto¹²⁾, T. Kodama¹²⁾,
S. Simizu¹³⁾, N. Wada¹³⁾, K. Kitayama¹²⁾,
R. Nomura, K. Omichi

[Optics Express] 2014.4

Low-loss high-speed silicon IQ modulator for QPSK/DQPSK in C and L bands

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, K. Goi, A. Oka, H. Kusaka,
Y. Terada, K. Ogawa

[51st National Heat Transfer Symposium of Japan] 2014.5, Hamamatsu, Japan

Heat Pipe Based Cooling System for High Power Sources in Electric Vehicles

..... Randeep SINGH, Ehsan B. HAGHIGHI,
Thanh L. PHAN, M. Matsuda,
M. Mochizuki, Y. Saito

[Optics Express, Vol.22, pp.12060-12069 (2014)] 2014.5

First demonstration of a scalable MDM/CDM optical access system

..... T. Kodama¹²⁾, T. Isoda¹²⁾, K. Morita¹²⁾,
A. Maruta¹²⁾, N. Wada¹³⁾, G. Cincotti¹⁴⁾,
K. Kitayama¹²⁾, R. Maruyama, N. Kuwaki,
S. Matsuo

[Optics Express, Vol.22, pp.14311-14321 (2014)] 2014.6

Two mode optical fibers with low and flattened differential modal delay suitable for WDM-MIMO combined system

..... M. Ohashi⁵⁾, R. Maruyama, N. Kuwaki,
S. Matsuo

[23rd International Conference on Optical Fiber Sensors] 2014.6, Spain

Optical power supply unit utilizing high power laser diode module developed for fiber laser pumping

..... A. Sakamoto, W. Kiyoyama, R. Yamauchi

[23rd International Conference on Optical Fiber Sensors] 2014.6, Spain

Multi-core to 7 single-core-fibers fan-out device with multi-core fiber pigtail connector

..... K. Saitoh¹⁰⁾, K. Omichi, H. Uemura,
K. Sasaki, K. Takenaga, R. Goto,
S. Matsuo, R. Yamauchi

[OECC/ACOFT2014, MO1E5 (2014)] 2014.7, Melbourne, Australia

Multicore Fiber with Dual-Ring Structure

..... K. Takenaga

[OECC/ACOFT2014, TH10C1 (2014)] 2014.7, Melbourne, Australia

Ultra-High Core-Density Cable with Multicore Fiber

..... I. Ishida, S. Matsuo

[IEEE Summer Topicals, TuE2.1 (2014)] 2014.7, Montreal, Canada

Few-Mode Multicore Fiber for Highly Dense Space-Division Multiplexing

..... K. Saitoh¹⁰⁾, M. Koshihara¹⁰⁾, Y. Sasaki,
Y. Amma, K. Takenaga, Ning Guan,
S. Matsuo

[IEEE Summer Topicals, TuE2.4 (2014)] 2014.7, Montreal, Canada

Accuracy of core alignment with end-view function for multicore fiber

..... Y. Amma, A. Takahashi, K. Takenaga,
S. Matsuo

[International Microwave Symposium] 2014.7, Tampa, USA

A ultra low-loss silica-based transformer between microstrip line and post-wall waveguide for millimeter-wave antenna-in-package applications

..... J. Hirokawa¹⁷⁾, M. Ando¹⁷⁾, Y. Uemichi,
O. Nukaga, R. Hosono, N. Guan

[The 20th International Conference on Conversion and Storage of Solar Energy (IPS-20)] 2014.7, Berlin, Germany

High-performance DSC for Energy Harvesting Devices

..... H. Matsui, D. Matsumoto, K. Okada,
N. Tanabe

[19th OptoElectronics and Communications Conference and the 39th Australian Conference on Optical Fibre Technology] 2014.7, Australia

MONOLITHICALLY INTEGRATED SILICON-BASED MACH-ZEHNDER MODULATOR FOR DIGITAL COHERENT COMMUNICATION

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, K. Ogawa, K. Goi, A. Oka,
H. Kusaka, Y. Mashiko

[19th OptoElectronics and Communications Conference and the 39th Australian Conference on Optical Fibre Technology] 2014.7, Australia

LOW-LOSS ALL-ADIABATIC SILICON-WAVEGUIDE POLARIZATION-DIVISION MULTIPLEXER IN C AND L BANDS

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, A. Oka, K. Goi, H. Kusaka,

K. Ogawa

[19th OptoElectronics and Communications Conference and the 39th Australian Conference on Optical Fibre Technology] 2014.7, Australia

Fused Taper Type Fan-in/Fan-out Device for 12 Core Multi-Core Fiber

..... K. Saitoh¹⁰⁾, M. Koshihara¹⁰⁾, H. Uemura,
K. Omichi, K. Takenaga, S. Matsuo

[OECC/ACOFT2014, TU4B-2 (2014)] 2014.7, Australia

Pilot-assisted Channel Impulse Response Estimation of 102.6-km

DMGD-Compensated FMF link over C-Band for MIMO Transmission

..... Nikolaos P. Diamantopoulos¹²⁾,
M. Nakazawa¹²⁾, Y. Yoshida¹²⁾, T. Isoda¹²⁾,
A. Maruta¹²⁾, K. Kitayama¹²⁾,
R. Maruyama, N. Kuwaki, S. Matsuo

[OECC/ACOFT2014, MO1E-3 (2014)] 2014.7, Australia

Novel Technique for Measuring Longitudinal Fiber Parameters of Multi-Core Fiber Based on the OTDR

..... M. Ohashi⁵⁾, K. Kawazu⁵⁾, Y. Miyoshi⁵⁾,
H. Kubota, R. Maruyama, N. Kuwaki

[Electronics Letters, Vo. 50, No.14, pp.1009-1010 (2014)] 2014.7

Inter-core crosstalk measurement in multi-core fibre amplifier using multiple intensity tones

..... H. Ono¹⁵⁾, T. Mizuno¹⁵⁾, H. Takara¹⁵⁾,
M. Yamada⁵⁾, K. Ichii, K. Takenaga,
S. Matsuo

[25th ICEC/ICMC 2014] 2014.7, Enschede, Netherlands

Study of quench behavior of REBCO impregnated pancake coil with a 75-mm-thick copper stabilizer under conduction-cooled conditions

..... K. Tsuchiya¹⁸⁾, N. Ohuchi¹⁸⁾, M. Daibo,
S. Fujita, M. Haraguchi, Y. Iijima

[The 15th International Heat Transfer Conference (IHTC-15)] 2014.8, Japan

FLOW DISTRIBUTION UNIFORMITY EVALUATION IN KW-RANGE DIRECT METHANOL FUEL CELL STACK

..... Y. Nakano, Y. Morimatsu, Z. Guo,
M. Ohashi, M. Mochizuki

[The 15th International Heat Transfer Conference (IHTC-15)] 2014.8, Japan

Super-Thin Heat Pipe in Smartphone Application

..... Thanh-Long PHAN,
Mohammad Shahed AHAMED,
Thang Nguyen, M. Mochizuki, Y. Saito

[IEEE Applied Superconductivity Conference 2014] 2014.8, charlotte, NC, USA

Development for Mass production of Homogeneous RE123 Coated Conductors by Hot-Wall PLD Process on IBAD Template Technique

..... Y. Iijima, Y. Adachi, S. Fujita, M. Igarashi,
K. Kakimoto, M. Ohsugi, N. Nakamura,
S. Hanyu, R. Kikutake, M. Daibo,
M. Nagata, F. Tateno, M. Itoh

[IEEE Applied Superconductivity Conference 2014] 2014.8, charlotte, NC, USA

Development of a 66 kV- 5 kArms class HTS Power Cable with IBAD/PLD REBCO tapes

..... O. Maruyama²⁾, T. Ohkuma²⁾, M. Daibo,
K. Watanabe, K. Akashi, H. Hidaka,
M. Nagata, M. Yoshida, Y. Iijima, M. Itoh,
T. Saitoh

[IEEE Applied Superconductivity Conference 2014] 2014.8, charlotte, NC, USA

Characteristics of REBCO coated conductors for 25T cryogen-free superconducting magnet

..... H. Oguro¹⁹⁾, S. Awaji¹⁹⁾, K. Watanabe¹⁹⁾,
S. Fujita, H. Satoh, M. Daibo, Y. Iijima,
M. Itoh

[IEEE Applied Superconductivity Conference 2014] 2014.8, charlotte, NC, USA

Evaluation of epoxy impregnated REBCO pancake coil using vacuum impregnation

..... M. Daibo, S. Fujita, M. Haraguchi,
Y. Iijima, M. Itoh, T. Saitoh

[15th IUMRS-ICA 2014] 2014.8, Japan

Development of Commercial RE123 Coated Conductors by using IBAD template and Hot-Wall PLD process for Magnet Applications

..... Y. Iijima

[40th European conference and exhibition of optical communication] 2014.9, France

128Gb/s DP-QPSK Silicon Modulator Module Integrated with Driver Amplifiers

..... T. -Y. Liow¹⁾, Xiaoguang Tu¹⁾, G. -Q. Lo¹⁾,
D. -L. Kwong¹⁾, K. Goi, K. Oda,
Y. Mashiko, K. Ogawa

[40th European conference and exhibition of optical communication] 2014.9, Cannes, France

Few-mode Multicore Fibre with 36 Spatial Modes (Three

| | |
|--|--|
| <p>modes (LP01, LP11a, LP11b) ×12 cores) K. Saitoh¹⁰⁾, M. Koshihara¹⁰⁾, Y. Sasaki, Y. Amma, K. Takenaga, S. Matsuo</p> <p>[40th European conference and exhibition of optical communication] 2014.9, Cannes, France Multicore fibre-based Mode Multiplexer/Demultiplexer for Three-Mode Operation of LP01, LP11a, and LP11b S. Nishimoto¹⁰⁾, T. Uematsu¹⁰⁾, K. Saitoh¹⁰⁾, K. Takenaga, H. Uemura, Y. Sasaki, K. Omich, R. Goto, M. Shoichiro</p> <p>[40th European conference and exhibition of optical communication] 2014.9, Cannes, France Longitudinal Fiber Parameter Measurements of Two-Mode Fiber Links by using OTDR M. Ohashi⁹⁾, H. Kubota⁵⁾, Y. Miyoshi⁵⁾, R. Maruyama, N. Kuwaki</p> | <p>[5th International Conference on Photonics 2014] 2014.9, Kuala Lumpur, Malaysia Recent progress on multicore EDFA for long distance transmission M. Yamada⁵⁾, Hiroji Masuda⁷⁾, S. Kobayashi⁸⁾, K. Tsujikawa¹⁵⁾, H. Ono¹⁵⁾, S. Matsuo</p> <p>[40th European conference and exhibition of optical communication] 2014.9, Cannes, France 120.7-Tb/s (7 SDM/180 WDM/95.8 Gb/s) MCF-ROPA Unrepeated Transmission of PDM-32QAM Channels over 204 km H. Takara¹⁵⁾, T. Mizuno¹⁵⁾, H. Kawakami¹⁵⁾, Y. Miyamoto¹⁵⁾, H. Masuda⁷⁾, K. Kitamura⁷⁾, H. Ono¹⁵⁾, S. Asakawa¹⁵⁾, K. Tsujikawa¹⁵⁾, M. Yamada⁵⁾, Y. Amma, K. Hirakawa, S. Matsuo</p> |
|--|--|

- | | |
|---|--|
| <ul style="list-style-type: none"> 1) Institute of Microelectronics/A*STAR (IME) 2) International Superconductivity Technology Center (ISTEC) 3) NTT Photonics Laboratories 4) NTT Network Innovation Laboratories 5) Osaka Prefecture University 6) NTT Network Service Systems Laboratories 7) Shimane University 8) Chitose Institute of Science and Technology 9) NTT Access Network Service Systems Laboratories 10) Hokkaido University 11) Clemson University | <ul style="list-style-type: none"> 12) Osaka University 13) National Institute of Information and Communications Technology (NICT) 14) University Roma TRE 15) NTT Corporation 16) Technical University of Denmark 17) Tokyo Institute of Technology 18) HIGH ENERGY ACCELERATOR RESEARCH ORGANIZATION (KEK) 19) Tohoku University |
|---|--|

