

## List of Other Research Papers Published Overseas

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### [The 1st International Symposium on Photonics and Electronics Convergence-Advanced Nanophotonics and Silicon Device Systems-] October 2011

High-Speed Silicon Photonic Waveguide Mach-Zehnder Modulators for Optical Fiber Telecommunications

.....T.Y. Liow<sup>1)</sup>, X. Tu<sup>1)</sup>, G.Q. Lo<sup>1)</sup>,  
D. L. Kwong<sup>1)</sup>, K. Ogawa, K. Goi,  
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### [International Symposium on Antennas and Propagation 2011, ThD3-2] October 2011, Korea

A Genetic-Algorithm Designed Compact Planar Antenna for Dual-Band WLAN Applications

.....R. Hosono, N. Guan, H. Tayama, H. Furuya

### [International Symposium on Antennas and Propagation 2011, FrE4-3] October 2011, Korea

A UWB Band-Rejected Antenna Fed by Embedded Non-uniform Microstrip Line

.....K. Yashiro<sup>2)</sup>, N. Guan, R. Hosono

### [24th International Symposium on Superconductivity] October 2011

FABRICATION AND EVALUATION ON FUJIKURA'S GdBCO TAPE

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| Coil winding technology development of Y-based HTS transformer - AC loss measurement<br>results of model coil -<br>.....A. Tomioka <sup>8)</sup> , S. Kakami <sup>8)</sup> , M. Isozaki <sup>8)</sup> ,<br>K. Watanabe <sup>8)</sup> , K. Toyama <sup>8)</sup> , S. Sugiyama,<br>M. Konno <sup>8)</sup> , H. Okamoto <sup>7)</sup> , Y. Goshio <sup>7)</sup> ,<br>H. Hayashi <sup>7)</sup> , T. Tsutsumi <sup>6)</sup> , M. Iwakuma <sup>6)</sup> ,<br>A. Tagomori <sup>31)</sup> , T. Machi <sup>31)</sup> , K. Tanabe <sup>31)</sup> ,<br>Y. Shiohara <sup>31)</sup> , T. Saitoh | [Superconductor Science and Technology, VOL. 25, No.6] May 2012<br>Fabrication of BaHfO <sub>3</sub> doped Gd <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> coated conductors with the high I <sub>c</sub> of 85A/cm-w under 3T at liquid nitrogen temperature (77K)<br>.....H. Tobita, K. Notoh <sup>5)</sup> , K. Higashikawa <sup>6)</sup> ,<br>M. Inoue <sup>6)</sup> , T. Kiss <sup>6)</sup> , T. Kato <sup>32)</sup> ,<br>T. Hirayama <sup>32)</sup> , M. Yoshizumi <sup>5)</sup> ,<br>T. Izumi <sup>5)</sup> , Y. Shiohara <sup>5)</sup> |
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| <p><b>[2012 IEEE Antennas and Propagation Society International Symposium, S259.1] July 2012, U.S.A</b><br/> DGA-Designed Bended Film Antenna for Dual-Band WLAN Operation<br/> .....R. Hosono, N. Guan</p>  | <p><b>[Optics Express] July 2012</b><br/> Effectively single-mode all-solid photonic bandgap fiber with large effective area and low bending loss for compact high-power fiber lasers<br/> .....K. Saitoh<sup>14)</sup>, M. Kashiwagi, T. Ichige, K. Takenaga,<br/> S. Tanigawa, S. Matsuo, M. Fujimaki</p>                                       |
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| <p>Large-effective-area Heterogeneous Trenchassisted Twelve-core Fiber under Bending Condition<br/> .....J. Tu<sup>14)</sup>, K. Saitoh<sup>14)</sup>, M. Koshiba<sup>14)</sup>,<br/> K. Takenaga, S. Matsuo</p>   | <p>11-Gbps 80-km Transmission Performance of Zero-Chirp Silicon Mach-Zehnder Modulator<br/> .....T.Y. Liow<sup>1)</sup>, X. Tu<sup>1)</sup>, G.Q. Lo<sup>1)</sup>, D.L. Kwong<sup>1)</sup>,<br/> K. Goi, K. Oda, H. Kusaka, Y. Terada, K. Ogawa</p>   |
| <p>Recent Progress in Multi-core Fiber Design and Analysis<br/> .....M. Koshiba<sup>14)</sup>, K. Saitoh<sup>14)</sup>, K. Takenaga, S. Matsuo</p>   | <p><b>[38th European conference and exhibition on optical communication Mo.1.F.1] September 2012, Netherlands</b><br/> Investigation of Longitudinal Power Decay of a MCF by using a 50-km Weakly-Coupled Multi-Core Fibre<br/> .....K. Saitoh<sup>14)</sup>, M. Koshiba<sup>14)</sup>, I. Ishida, K. Takenaga, S. Matsuo</p>                     |
| <p>Enlargement of Effective Area of Effectively Single-mode All-solid Photonic Bandgap Fiber with Low Bending Loss<br/> .....K. Saitoh<sup>14)</sup>, T. Ichige, M. Kashiwagi, K. Takenaga,<br/> S. Tanigawa, S. Matsuo, M. Fujimaki</p>   | <p><b>[38th European Conference on Optical Communication, Tu.1.F.3] September 2012, Netherlands</b><br/> Large-Effective-Area Uncoupled Few-Mode Multi-Core Fiber<br/> .....K. Saitoh<sup>14)</sup>, M. Koshiba<sup>14)</sup>, Y. Sasaki, K. Takenaga, N. Guan, S. Matsuo</p>   |
| <p>Novel Two-Mode Optical Fiber with Low DMD and Large Aeff for MIMO Processing<br/> .....M. Ohashi<sup>27)</sup>, R. Maruyama, K. Sato, S. Matsuo, N. Kuwaki</p>  | <p><b>[38th European Conference on Optical Communication, Tu.1.F.2] September 2012, Netherlands</b><br/> DMD Free Transmission Line Composed of TMFs with Large Effective Area for MIMO Processing<br/> .....M. Ohashi<sup>27)</sup>, R. Maruyama, N. Kuwaki, S. Matsuo, K. Sato</p>  |
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| <p><b>[Summer Topicals 2012, WC3.2] July 2012, U.S.A</b><br/> Optical Fiber Amplifier Employing a Bundle of Reduced Cladding Erbium-Doped Fibers for Multi-Core Fiber Transmission<br/> .....K. Tsujikawa<sup>28)</sup>, L. Ma<sup>28)</sup>, M. Yamada<sup>27)</sup>, N. Hanzawa<sup>28)</sup>, H. Ono<sup>28)</sup>, K. Ichii, S. Matsuo</p> |   |

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| <p>1.01-Pb/s (12 SDM/222 WDM/456 Gb/s) Crosstalk-managed Transmission with 91.4-b/s/Hz Aggregate Spectral Efficiency</p>  | <p>Pump Light Source for Distributed Raman Amplification in Multi-Core Fibers with LD Sharing Planar Lightwave Circuit</p>  |
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| <p>Optical Fiber Amplifier Employing a Bundle of reduced Cladding Erbium-doped Fibers for Multi-core Fiber Transmission<br/>.....M. Yamada<sup>27)</sup>, K. Tsujikawa<sup>28)</sup>, L. Ma<sup>28)</sup>, N. Hanzawa<sup>28)</sup>, H. Ono<sup>28)</sup>, K. Ichii, S. Matsuo</p>  | <p>Current Status and Future Prospect of IBAD-Processed Coated Conductor<br/>.....S. Hanyu, M. Igarashi, R. Kikutake, Y. Iijima</p>   |
| <p><b>[System-in-a-Package Global Summit 2012 (SEMI-CON Taiwan 2012)] September 2012, Taiwan</b></p>  | <p><b>[System-in-a-Package Global Summit 2012 (SEMI-CON Taiwan 2012)] September 2012, Taiwan</b></p>  |
| <p>FPC-based ultra-slim device embedded board utilizing wafer level chip scale package</p>  | <p>.....S. Okude</p>  |

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