

P-14-10

First principles study on Cd and Zn doping in CuInSe₂ and related compounds

T. Maeda and T. Wada, Ryukoku Univ. (Japan)

P-14-11

N-H structure in GaAsN and interaction between N-H local vibration mode and lower frequency phonon

K. Ikeda, M. Inagaki, S. Wada, N. Kojima, Y. Ohshita and M. Yamaguchi, Toyota Technological Inst. (Japan)

P-14-12

Thermally Activated Electron Transport in GaAsN

M. Inagaki, K. Ikeda, N. Kojima, Y. Ohshita and M. Yamaguchi, Toyota Technological Inst. (Japan)

P-14-13

Laser Annealing to Form High-Temperature Phase of FeS₂ (pyrite)

M. Umehara, Y. Takeda, H. Azuma and T. Motohiro, Toyota Central R&D Labs. Inc. (Japan)

P-14-14

Photoelectric Conversion Devices based on InP Porous Structures

R. Jinbo, T. Kudo and T. Sato, Hokkaido Univ. (Japan)

P-14-15

Hydrothermal Synthesis of TiO₂ Porous Hollow Nanospheres for Coating on the Photoelectrode of DSSCs

V. M. Mohan and K. Murakami, Shizuoka Univ. (Japan)

P-14-17

Investigation of Hot Carrier Degradation in STI-based High-Voltage LDMOSFETs by a Novel DCIV technique

Y. He and G. Zhang, Peking Univ. (China)

P-14-18

High accurate TCAD calibration methodology realizing smart-design of integrated power devices consisting of lateral-IGBT & Diode in SOI micro-inverters

H. Kato¹, S. Harada¹, C. S. Yun², V. Menailenko², Y. Ashida¹, S. Takahashi¹ and N. Tokura¹, ¹DENSO Corp. and ²Synopsys Inc. (Japan)

P-14-19

Current Transport Characteristics of Quasi-Al_{1-x}Ga_xN/SiC Heterojunction Bipolar Transistors with Various Band Discontinuities

T. Okuda, H. Miyake, T. Kimoto and J. Suda, Kyoto Univ. (Japan)

P-14-20

Estimation of the Surface Recombination Velocity from Thickness dependence of the carrier Lifetime in n-type 4H-SiC Epilayers

M. Kato, A. Yoshida and M. Ichimura, Nagoya Inst. of Tech. (Japan)

P-14-21 (Late News)

Semi-Quantitative Determination of Radiative Recombination Centers in Silicon Power Devices by Cross-Sectional Cathodoluminescence

R. Sugie, K. Inoue and M. Yoshikawa, Toray Research Center Inc. (Japan)