

International Workshop on Nanodevice Technologies 2018 (IWNT2018) Poster Session

Poster No.	Title	Presenter
P-1	Optical Memory Waveguides Using Photochromic Material for Neural Network	K. Tanimoto, Y. Asahara, Y. Amemiya, and S. Yokoyama
P-2	Integration of photodiodes and CMOS operational amplifiers	T.Uruma, T.Tabei, Y.Amemiy1, T.Sato, S.Yamada, K.Okada, S.Yokoyama
P-3	Study of Optical Resonator Biosensors with Anti-Reflective Coatings	Jun Maeda, Riku Funamoto, Yuuto Nakashima, Yoshiteru Amemiya, and Shin Yokoyama
P-4	Study of Optical Biosensors with CMOS Compatible Spot - Size Converters	Yuuto Nakashima, Jun Maeda, Riku Funamoto, Yoshiteru Amemiya, and Shin Yokoyama
P-5	Study of Spin Seebeck Thermoelectric Conversion Devices Using Anomalous Nernst Effect	Tatsuyoshi Ono, Yoshiteru Amemiya, Tetsuo Tabei, and Shin Yokoyama
P-6	Silicon photonic biosensor chip with MEMS microvalves	Yoshiteru Amemiya, Yuuto Nakashima, Jun Maeda, and Shin Yokoyama
P-7	Application of Short Turnaround CMOS Circuits to Biomedical Engineering - Temperature monitoring using ring oscillator -	T. Tabei, T. Sato, T. Meguro, K. Okada, S. Yamada, Y. Amemiya, S. Yokoyama, A. Nakamura, H. Murakami, S. Nishimura, K. Miyao, S. Makihira, R. Shimizu, R. Mihara, and M. Furuse
P-8	Large Area Annealing Method by Magnetic Field Deflected Atmospheric-pressure Thermal-Plasma-Jet irradiation	K. Teramoto, H. Hanafusa, and S. Higashi
P-9	Facile preparation of metal-organic frameworks by spray-assisted synthesis	Masaru Kubo, Motoyoshi Ishimura, Yuusuke Miyoshi, Manabu Shimada
P-10	Preparation and Evaluation of Photocatalytic Ag-TiO ₂ Nanoparticulate Films	Dianping Jiang, K. Kusdianto, Masaru Kubo, Manabu Shimada
P-11	Synthesis of Polymer Coated Multiwalled Carbon Nanotubes by Spray-Assisted Plasma-Enhanced Chemical Vapor Deposition	Lakshmpura R. Hemanth, Keita Nishihara, Masaru Kubo, Manabu Shimada
P-12	Organic Nanodevices Using Fullerene-Containing Electrically Conducting Electron Beam Resist	Tatsuya Yasukawa, Tetsuo Tabei and Anri Nakajima
P-13	Effects of CF ₄ surface etching on 4H-SiC MOS Capacitors	K. Kobayakawa, K. Muraoka, H. Sezaki, S. Ishikawa, T. Maeda, and S.-I. Kuroki

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P-14	Pseudo-self-alignment 4H-SiC Trench pMOSFETs for High-Frequency CMOS inverter	Jun Inoue, Shin-Ichiro Kuroki, Seiji Ishikawa, Tomonori Maeda, Hiroshi Sezaki, Takahiro Makino, Takeshi Ohshima, Mikael Östling, Carl-Mikael Zetterling
P-15	Charge-Trap Deactivation of Multi-Line-Beam CLC poly-Si TFTs by Channel Impurity Doping	M. Hiraiwa, T. T. Nguyen, and S. I. Kuroki
P-16	Characterization of 3C-SiC nMOSFETs in Harsh Environments; High Temperature and High Gamma-Ray Radiation	Kohei Nagano, Tatsuya Meguro, Akinori Takeyama, Takahiro Makino, Takeshi Ohshima, Yasunori Tanaka, Shin-Ichiro Kuroki
P-17	Ultra high temperature operation of 4H -SiC pMOSFETs	J. Kajihara , S .-I. Kuroki, S. Ishikawa, T. Maeda, H. Sezaki, T. Makino, T. Ohshima, M. Östling, and C.-M. Zetterling
P-18	Novel Self-aligned Process for 4H-SiC nMOSFETs	Tatsuya Kurose, Shin-Ichiro Kuroki, Seiji Ishikawa, Tomonori Maeda, Hiroshi Sezaki, Takahiro Makino, Takeshi Ohshima, Mikael Östling, and Carl-Mikael Zetterling
P-19	High-Temperature Reliability of Ni/Nb Ohmic Contacts on 4H-SiC For Harsh Environment Applications	V. V. Cuong, S. Ishikawa, H. Sezaki, T. Maeda, and S.-I. Kuroki
P-20	Correlation between field effect mobility and accumulation conductance at 4H-SiC MOS interface with BaO ₂	K. Muraoka, S. Ishikawa, H. Sezaki, T. Maeda, and S.-I. Kuroki
P-21	Characteristics of p-channel TFTs with (100)-oriented poly-Si thin films	Thi Thuy Nguyen, Mitsuhsa Hiraiwa, and Shin-Ichiro Kuroki
P-22	Low-k Mesoporous Pure Silica Zeolite Synthesis with the Centrifugation Process of a Zeolite Precursor	T. Sato, S. Kuroki, Y. Kayaba, and T. Kikkawa
P-23	Modification of Seebeck coefficients for Si by metal coating	Yutaka Furubayashi, Takafumi Tanehira, Atsushi Yamamoto, Kei Yonemori, Seiji Miyoshi, and Shin-Ichiro Kuroki
P-24	Time-Domain CMOS Radar System utilizing a Cross-shaped Dome Antenna Array for Microwave Confocal Imaging	Hang Song, Hikaru Sato, Xia Xiao and Takamaro Kikkawa
P-25	0.5-20 GHz Microwave Characteristics of Glycerin-Saline Mixtures for a Breast Phantom	Hikaru. Sato, Hang. Song, Hayato. Kono, Xia. Xiao, Ryo. Miyake and Takamaro. Kikkawa

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P-26	Gain-Boosted Feedback Amplifier Design Using Leaky Tapped Transformer	S. Yasuda, S. Amakawa
P-27	Embedded System Implementation of Parallelized Hough Transform for High-Speed Straight-Line Detection	J. Guan, F. An, X. Zhang, L. Chen, and H. J. Mattausch
P-28	Block-based Feature Vector Normalization Circuit for Image Object Detection	Aiwen Luo, Fengwei An, Xiangyu Zhang, Lei Chen and Hans Jürgen Mattausch
P-29	An Extraction Method of Leaf Expansion Vector for Measurement of Growth of Lettuce in Hydroponic Culture	Y. Sakane, T. Okamoto, T. Koide, T. Tamaki, A-T. Hoang, T. Kasama, W.P. Bula, Y. Endo, R. Miyake, A. Ogawa, M. Komine, C. Sone, Y. Kaneta, K. Toyofuku, T. Kamata, K. Kimura, Y. Ishikawa
P-30	A Prototyping of an Endoscopic Image Recognition System for Computer-Aided Diagnosis of Colorectal Tumor	T. Okamoto, S. Abe, Y. Sakane, T. Koide, A-T Hoang, T. Tamaki, B. Raytchev, K. Kaneda, S. Yoshida, H. Mieno, S. Tanaka, H. Toishi, T. Sugawara, M. Tsuji, M. Odagawa, N. Tamba, T. Sugihara, N. Sugihara
P-31	An Image Analysis Method for Lettuce Leaf and Root Growth Analysis in Hydroponic Culture	T. Koide, T. Okamoto, Y. Sakane, A-T. Hoang, T. Kasama, W-P. Bula, Y. Endo, R. Miyake, A. Ogawa, M. Komine, C. Sone, Y. Kaneta, Y. Yaji, K. Toyofuku, T. Kamata, K. Kimura, Y. Ishikawa
P-32	Solvent properties for light intensity of guanine crystals	Yudai Takanezawa, and M. Iwasaka
P-33	Fabrication of hybrid vesicle using guanine crystals for cell imaging	A. Mootha, K. Suzuki, M. Iwasaka