

The 2nd Asian Applied Physics Conference

Venue: Miyazaki Kanko Hotel, Miyazaki, Japan (<https://www.miyakan-h.com/english/>)

Date: Dec. 1-2, 2017

Date	Room	Session		Presentation No.	Presentation Time From To	Title	Authors	Affiliation
1		Registration			12:00 13:00			
1	D	Opening			13:00 13:14			
1		Short Break			13:14 13:24			
1	B	Tin Films and Surfaces	Invited	1Bp-1	13:24 13:52	Scanning Probe Microscopy for the Electrical Characterizations of Nanomaterials and Nanodevices	OJi-Yong Park	Ajou University
1	B		Invited	1Bp-2	13:52 14:20	Estimation of Interface State Density in B-doped p-Type UNCD/a-C:H/n-Type Si Heterojunctions Formed by Pulsed Laser Deposition	ONathaporn Promros1, Rawiwan Chaleawpong1, Phongsaphak Sittimart1, Takanori Hanada2, Tsuyoshi Yoshitake2, Shinya Ohmagari3	King Mongkut's Insitute of Technology Ladkrabang1, Kyushu Univ.2, AIST3
1	B		Invited	1Bp-3	14:20 14:48	Visible Recognition of Putrescine with Molecularly Imprinted Polymer	O Xiaoguang Ying1	Fuzhou University1, U.S.E Co., Ltd2, Kyushu University3
1		Break			14:48 15:00			
1	B	Thin Film and Surfaces & Organic Molecules and Bioelectronics	Δ	1Bp-4	15:00 15:14	Laser-induce phosphorus doping in phosphoric acid liquids for singlecrystalline diamond	OEsam Naeim Hussien Abubakr1,2, Hiroshi Ikenoue1, Tsuyoshi Yoshitake1	Kyushu Univ.1, Aswan University2
1	B		Invited	1Bp-5	15:14 15:42	Electronic structure of CuSCN and its hole transport improvement in organic electronic devices	OHyunbok Lee1, Minju Kim2, Yeonjin Yi2	Kangwon National University1, Yonsei University2
1	B		Invited	1Bp-6	15:42 16:10	Measuring polymeric interface: PTB7/PC71BM vs. P3HT/PC61BM	OYeonjin Yi1, Gyeongho Hyun1, Hyunbok Lee2, Soohyung Park3	Yonsei Univ., Korea1, Kangwon National Univ., Korea2, Helmholtz-Zentrum Berlin3
1	B			1Bp-7	16:10 16:24	Development of a printable chemiresistant gas sensor with MIP conductive ink	OChengkun Jiang, Fumihino Sassa, Kenshi Hayashi	Kyushu Univ.
1		Break			16:24 16:36			
1	B	Applied Materials Science	Invited	1Bp-8	16:36 17:04	-> Withdrawn due to an influence of severe earthquake at Korea.		
1	B		Invited	1Bp-9	17:04 17:32	Se/Sn flux ratio effect on epitaxial SnSe thin films	OSunglae Cho, Van Quang Nguyen	University of Ulsan
1	B		Δ	1Bp-10	17:32 17:46	Preparation and Characterization of Gamma Irradiation Induced Super-Absorbing Hydrogel Hybrids from Styrene Sodium Sulfonate, Carboxymethyl Cellulose and Carboxymethyl Chitosan	OTran Thu Hong, Hirotaka Okabe, Yoshiki Hidaka, Kazuhiro Hara	Kyushu Univ.
1	C	Plasma Electronics	Invited	1Cp-1		-> Move to morning session of Dec. 2 at room D.		
1	C		Invited	1Cp-2	13:52 14:20	UV-Vis spectroscopy study of plasma-activated water	OJ.-S. Oh1, M. Ito1, K. Ogawa2, H. Furuta2, A. Hatta2, E. J. Szili3, R. D. Short3	Meijo Univ.1, Kochi Univ. Technol.2, Univ. South Australia 3
1	C			1Cp-3	14:20 14:34	Growth Enhancement of Sorghum by Plasma Irradiation to The Seeds	OM. Shiratani, Y. Wada, R. Sato, D Yamashita, H. Seo, N. Itagaki, and K. Koga	Kyushu Univ.
1	C			1Cp-4	14:34 14:48	Effects of Gas Flow Velocity on Plant Growth of Radish Sprout	OKazunori Koga, Yosuke Wada, Ryoya Sato, Daisuke Yamashita, Hyunwoong Seo, Kazunori Koga, Masaharu Shiratani	Kyushu Univ.
1		Break			14:48 15:00			
1	C		Δ	1Cp-5	15:00 15:14	Effects of electrode material on low pressure plasma-catalytic CO2 methanation	OSatoshi Tanida, Susumu Toko, Akihisa Yamamoto, Kazunori Koga, Masaharu Shiratani	Kyushu Univ.
1	C		Δ	1Cp-6	15:14 15:28	Photoluminescence from (ZnO)0.79(InN)0.21 films fabricated on sapphire substrates	ONanoka Miyahara, Shi Liu, Kazuya Iwasaki, Daisuke Yamashita, Hyunwoong Seo, Kazunori Koga, Masaharu Shiratani, Naho Itagaki	Kyushu Univ.

1	C	Plasma Electronics & Optics and Photonics	△	1Cp-7	15:28	15:42	Correlation analysis between high energy electrons and nanoparticles in AM CCP	ORen Zhou, Kento Mori, Hiroshi Ohtomo, Daisuke Yamashita, Hyunwoong Seo, Naho Itagaki, Kazunori Koga, Masaharu Shiratani	Kyushu Univ.
1	C			1Cp-8	15:42	15:56	Calculation of Absorption Cross-Section for LIDAR Measurement of the Atmospheric Water Vapor	ORyu FUKUSHIMA, Yuya MATTORI, Michihiro UCHIUMI	Natl. Inst. Tech. Ariake Col.
1	C			1Cp-9	15:56	16:10	Development of a Wavelength Control System of a LD LIDAR for an Atmospheric Gas Species	OYuya MATTORI, Ryu FUKUSHIMA, Michihiro UCHIUMI	Natl. Inst. Tech. Ariake Col.
1	C			1Cp-10	16:10	16:24	Development of a Compact LD LIDAR for Measurement of the Atmospheric Water Vapor and Carbon Dioxide	OMichihiro UCHIUMI	National Institute of Technology, Ariake College
1		Break			16:24	16:36			
1	C	Optics and Photonics & Semiconductors & Crystal Engineering		1Cp-11	16:36	16:50	Effect of Arsenic Incorporation into InAs / GaAsSb Superlattice Grown by MOVPE for Mid-Infrared Device	OKakeru Takahashi, Yuki Fujiwara, Yuya Yamagata, Keita Yoshimoto, Yuki Inoue, Ryosuke Wakaki, Koji Maeda, Masakazu Arai	Univ. of Miyazaki
1	C		△	1Cp-12	16:50	17:04	Epitaxial growth of β -FeSi ₂ thin films prepared by co-sputtering with high purity Fe and Si targets	OTomohiro Nogami, Naoyuki Ishizaka, Seiya Uchida, Tsuyoshi Yoshitake	Kyushu Univ.
1	C			1Cp-13	17:04	17:18	Quantum Confinement Effect in Multi-Stacked InAs Quantum Dots Structure Fabricated by Strain Compensation Technique	OFuminori Ishitsuka1, Daisuke Ohori2, Anri Iwamoto1, Tetsuo Ikari1, Kouichi Akahane3, Atsuhiko Fukuyama1	Miyazaki Univ.1, Tohoku Univ.2, NICT3
1	C			1Cp-14	17:18	17:32	Effect of Diameter Distribution on Shape of Photoluminescence Spectrum of GaAs Quantum Nanodisks in Nanopillar Array Structure	OTakuya Goda1, Anri Iwamoto1, Tetsuo Ikari1, Atsuhiko Fukuyama1, Daisuke Ohori2, Cedric Thomas2	Miyazaki Univ.1, Tohoku Univ.2
1	C			1Cp-15	17:32	17:46	MBE growth and characterization of ZnCdO thin films on MgO substrates	OHyo Chang Jang, Kento Matsuo, Shuji Tsutsumi, Tooru Tanaka, Katsuhiko Saito, Qixin Guo	Saga Univ.
1	C			1Cp-16	17:46	18:00	Relationship between Substrate Orientation and Surface Morphology of GeSn Grown on GaAs Substrate	OYuki Fujiwara1, Kakeru Takahashi1, Takeshi Fujisawa2, Koji Maeda1, Masakazu Arai1	Univ. of Miyazaki1, Hokkaido Univ.2
1	D	Superconductivity	Invited	1Dp-1	13:24	13:52	Recent development of Korean HTS power and industry applications	OMinwon Park1, S. Lee1, J. Choi2, S. Cho2	Changwon National Univ.1, Supercoil Co.2
1	D		Invited	1Dp-2	13:52	14:20	Development of high performance MgB ₂ and iron-based superconducting wires	OYanwei Ma	IEE, CAS
1	D			1Dp-3	14:20	14:34	Three-dimensional and Non-destructive Microstructural Analysis in Hot-press Processed (Ba, K)Fe ₂ As ₂ /Ag Tape by use of X-ray Micro-CT	OMasayoshi Inoue1, Koki Tamae1, Shyam Mohan1, Shuhei Bochi1, Kohei Higashikawa1, He Huang2, Chao Yao2, Yanwei Ma2, Takanobu Kiss1	Kyushu Univ.1, Chinese Academy of Sciences2
1	D			1Dp-4	14:34	14:48	Analysis of E - I characteristics of REBCO coated conductors under the influence of local Ic variation	OTakumi Suzuki1, Daiki Tsujino1, Syunsuke Oomura1, Kohei Higashikawa1, Masayoshi Inoue1, Valery Petrykin2, Sergey Lee2, Takanobu Kiss1	Kyushu Univ.1, SuperOx Japan2
1		Break			14:48	15:00			
1	D	Superconductivity & Nanocarbon Technology		1Dp-5	15:00	15:14	Spatially Resolved Measurement on Local Electromagnetic Field Distribution in a Long Gd1Ba2Cu3O7- δ Coated Conductor during Magnetic Moment Relaxation by use of Hall Probe Magnetometry	OTakanobu Kiss, Yuta Onodera, Shohei Noda, Kazutaka Imamura, Kohei Higashikawa, Takumi Suzuki, Masayoshi Inoue	Kyushu Univ.
1	D			1Dp-6	15:14	15:28	Hall Probe Magnetometry for Measuring In-field Current Transport Properties of REBCO Coated Conductors	OShyam Mohan, Yuta Onodera, Kazutaka Imamura, Takumi Suzuki, Kohei Higashikawa, Masayoshi Inoue, Takanobu Kiss	Kyushu Univ.
1	D		Invited	1Dp-7	15:28	15:56	Electro-mechanical striction of MoS ₂ on honeycomb-structured PbTiO ₃ thin films	Hye-Jin Jin, Woo Young Yoon, OWilliam Jo	Department of Physics and Renewable Energy Center (NREC), Ewha Womans University
1	D		Invited	1Dp-8	15:56	16:24	Atomistic study of the alloying behavior of crystalline SnSe _{1-x} S _x	OJungdae Kim1, Trinh Thi Ly1, Ganbat Duvjir1, Nguyen Minh Hai1, Sunglae Cho1, Taewon Min2, Jinho Byun2, Jaekwang Lee2	University of Ulsan, Korea1, Pusan National University, Korea2
1		Break			16:24	16:36			
1	D	Spintronics and Magnetics & Interdisciplinary Physics and Related Areas of Sci. and Tech.	Invited	1Dp-9	16:36	17:04	Four-Point-Probe Machine Design as a Learning Tool in Semiconductor Measurement	OPichanan Teesetsoopon, Suphawatt Yiangamsiri, S.Tipawan Khlayboonme, Warawoot Thowladda, Wisanu Pecharapa	King Mongkut's Institute of Technology Ladkrabang
1	D			1Dp-10	17:04	17:18	Gamma Irradiation Induced Pectin-Acrylic acid- (2-Acrylamido-2-methyl-1-propanesulfonic acid) Hydrogel for Selectively Metal Ion Adsorption	OMD MURSHED BHUYAN, Yoshiki Hidaka, Hirotaka Okabe, Kazuhiro Hara	Kyushu Univ.

2	D		Invited	1Cp-1	9:14	9:42	Nonthermal Biocompatible Plasma (NBP) Sources and their Interactions with Functionalized Nanoparticles for Plasma Bioscience and Medicine	Y. J. Hong, N. Nagendra, OE. H. Choi	Kwangwoon Univ.
2	E	Short Presentation 2 min each & Poster Session		2EPo-1	9:50	12:00	Improvement of Steam Generation by Oblique Angle Deposition	OSung Do Kim, Yong Soo Kim	Ulsan univ.
2	E		△	2EPo-2	9:50	12:00	Reducing red-shift in electroluminescence spectra for asymmetric metal/Ge/metal diodes	OKentarō Tanaka1, Takayuki Maekura1, Taiki Goto1, Wataru Itaya1, Keisuke Yamamoto1, Hiroshi Nakashima2, Dong Wang1	1-Eggs, Kyushu Univ.1, GIC, Kyushu Univ. 2
2	E		△	2EPo-3	9:50	12:00	Near-edge X-ray absorption fine-structure spectroscopic study on ultrananocrystalline diamond/nonhydrogenated amorphous carbon composite films prepared by coaxial arc plasma deposition	OKoki Murasawa1,2, Mohamed Egiza1, Mohamed Ali1, Tsuyoshi Yoshitake1	Kyushu Univ.1, OSG Corporation2
2	E			2EPo-4	12:00	12:14	Carrier Transport Properties at Low Temperatures in p-Type Si/n-Type β -FeSi ₂ Heterojunctions Created by Radio-Frequency Magnetron Sputtering	ONathaporn Promros1, Phongsaphak Sittimart1, Tomohiro Nogami 2, Tsuyoshi Yoshitake 2	King Mongkut's Institute of Technology Ladkrabang1, Kyushu Univ.2
2	E		△	2EPo-5	9:50	12:00	Sputtering Growth of SiC Films on Si(111) Substrates by Using Impurity Mediated Crystallization Method	OKouki Imoto, Daisuke Yamashita, Hyunwoong Seo, Kazunori Koga, Masaharu Shiratani, Naho Itagaki	Kyushu Univ.
2	E		△	2EPo-6	9:50	12:00	Effects of Gas Pressure on Crystal Quality of ZION Films Fabricated by RF Magnetron Sputtering	OLiu Shi, Nanoka Miyahara, Jiahao Lyu, Daisuke Yamashita, Hyunwoong Seo, Kazunori Koga, Masaharu Shiratani, Naho Itagaki	Kyushu Univ.
2	E		△	2EPo-7	9:50	12:00	Effects of Gap between Electrodes and Seeds on Plasma Induced Plant Growth Enhancement	OYosuke Wada, Ryoya Sato, Daisuke Yamashita, Hyunwoong Seo, Naho Itagaki, Kazunori Koga, Masaharu Shiratani	Kyushu Univ.
2	E			2EPo-8	9:50	12:00	Study on Thermal Degradation Kinetics of Carboxylate-based Hydrogel by Thermogravimetric Analysis	ONguyen Sura, Hirotaka Okabe, Yoshiki Hidaka, Kazuhiro Hara	Kyushu Univ.
2	E			2EPo-9	9:50	12:00	Investigation of a phase diagram for the synthesis of single-phase rare-earth nickelates	OJin San Choi, Bo Yun Choi, Jin Ho Choi, Ill Won Kim, Tae Heon Kim	Ulsan Univ.
2	E		△	2EPo-10	9:50	12:00	Fabrication of lateral spin-valves comprising FeSi ₂ spin-transfer layers by electron beam lithography	OHiroyuki Ishimoto1, Kazuki Kudo1, Ken-ichiro Sakai2, Tsuyoshi Yoshitake1	Kyushu Univ.1, Kurume Col.2
2	E			2EPo-11	9:50	12:00	Characterization of Local Critical Current Distribution in Hot-pressed Ag-sheathed (Ba,K)Fe ₂ As ₂ Tape by In-field Scanning Hall-probe Microscopy	OKoki Tamae1, Shyam Mohan1, Shuhei Bochi1, Kohei Higashikawa1, Masayoshi Inoue1, He Huang1,2, Chao Yao1,2, Yanwei Ma1,2, Takanobu Kiss1	Kyushu Univ.1, IEE CAS2
2	E			2EPo-12	9:50	12:00	Large Size Single Crystal Growth of Methylammonium Lead Tribromide perovskite	OSung Han Lee, Jong-Won Yun, Yong Soo Kim	University of Ulsan
2	E		△	2EPo-13	9:50	12:00	Characterization of Longitudinal Distribution of Local Critical Currents in Long Ni-alloy Reinforced High-strength Bi-2223 Tape	OLin Lyu, Hiroaki Ohfuji, Yuhei Nishimiya, Yukihisa Kumagai, Kohei Higashikawa, Masayoshi Inoue, Takanobu Kiss	Kyushu Univ.
2	E			2EPo-14	9:50	12:00	Measurement of Local Magnetization Distribution in Bent and Welded Stainless Steel by Scanning Hall-probe Microscopy	OShogo Ohta1, Hiroki Nakagiri1, Kohei Higashikawa1, Masayoshi Inoue1, Kenji Suzuki2, Masaru Tomita2, Takanobu Kiss1	Kyushu Univ.1, Railway Technical Research Institute2
2	E			2EPo-15	9:50	12:00	Extended Current-Voltage Characteristics in Both Bi-2223 and RE-123 Tapes Over 8 Decades of Electric Fields Including Flux Creep and Flux Flow Regime	OYuta Onodera1, Takanobu Kiss1, Kohei Hisajima1, Shyam Mohan1, Kazutaka Imamura1, Takumi Suzuki1, Kohei Higashikawa1, Masayoshi Inoue1, Akira Ibi2, Takato Machi2, Teruo Izumi2	Kyushu Univ.1, AIST2
2	E		△	2EPo-16	9:50	12:00	Evaluation of Triple Layer Gas Sensor for Higher Functionality	OYutaro Nakai, Fumihiro Sassa, Kenshi Hayashi	Kyushu Univ.
2	E		△	2EPo-17	9:50	12:00	Photoluminescence and Photovoltaic properties of Cl-doped ZnTeO intermediate band solar cells	OShuji Tsutsumi1, Kento Matsuo1, Tooru Tanaka1, Katsuhiko Saito1, Takeshi Tayagaki2, Qixin Guo1	Saga Univ.1, AIST2
2	E			2EPo-18	9:50	12:00	Control electrical properties of MoS ₂ through resistive switching phenomena of Nb:STO	Owoo Young Yoon, Hye-Jin Jin, William Jo	Department of Physics and Renewable Energy Center (NREC), Ewha Womans University
2	E			2EPo-19	9:50	12:00	Measurement of Thermal Diffusivity of Transparent Solids Using the Periodic Thermal Wave Method	OBo Hyun Hwang, Bo Kwan Cheon, Jae Ran Lee, Sok Won Kim	Department of Physics, University of Ulsan
2	E	Closing			12:00	12:15			

△ Application for presentation award.