Plenary Session Noyori Conference Hall

Time	Presentation No.	Title, Author(s)
14:30-14:40		**Opening Ceremony**
		Chair: N. Ikarashi
14:40-15:40	29-0-1 (Invited)	**Blue LEDs and Transformative Electronics for Establishing Sustainable Smart Society** Hiroshi Amano (Nagoya University, Japan)
15:40-16:00		
		Chair: T. Uchiyama
16:00-17:00	29-0-2 (Invited)	**CU TIP Innovation: Education Program for Innovator and Research Development for Social and Business Application** Chavalit Ratanatamskul (Chulalongkorn University, Thailand)
17:00-17:15		
17:15-19:15		**Welcome Reception**

Session 1 Room014 Nano-Carbon and related materials and thin films

Time	Presentation No.	Title, Author(s)
		Chair: M. Kusunoki
13:00-13:30	30-1-1 (1361) (Invite)	**Transition metal dichalcogenides based van der Waals heterostacks: fabrication and properties** Ryo Kitaura (Nagoya Univ.)
		Chair: A. Endo
13:30-13:45	30-1-2 (1238)	**Two-Step Excitation in Monolayer Graphene Induced by Near-Infrared Pulse** T. Koyama, K. Mizutani (Nagoya Univ.), H. Ago (Kyushu Univ.) and H. Kishida (Nagoya Univ.)
13:45-14:00	30-1-3 (1236)	**Interface engineering of graphene on SiC** Wataru Norimatsu (Nagoay Univ.), Jianfeng Bao (Inner Mongolia Univ. for Nationalities), Takahiro Ito and Michiko Kusunoki (Nagoay Univ.)
		Chair: T. Koyama
14:00-14:15	30-1-4 (1241)	**Characterization of Epitaxial Graphene Layers on SiC Substrate by Low-temperature Magnetotransport Measurements** Akira Endo (Univ. of Tokyo), Jianfeng Bao (Nagoya Univ.) (Inner Mongolia Univ. for Nationalities), Keita Matsuda, Wataru Norimatsu and Michiko Kusunoki (Nagoya Univ.)
14:15-14:30	30-1-5 (1227)	**Thermal Stability Study of *in-situ* Sb-Doped *n*- $Ge_{1-x}Sn_x$ Epitaxial Layers for Source/Drain Stressor of Strained Ge Transistors** J. Jeon (Nagoya Univ.), A. Suzuki (Nagoya Univ.) (Japan Society for the Promotion of Science), O. Nakatsuka and S. Zaima (Nagoya Univ.)
13:45-14:00		
		Chair: R. Kitaura
14:45-15:15	30-1-6 (1334) (Invite)	**Two dimensional inorganic/organic laminates for high performance flexible thermoelectric materials** Chunlei Wan (Tsinghua Univ.), Ruoming Tian (Toyota Physical and Chemical Research Institute), Ronggui Yang (Univ. of Colorado) and Kunihito Koumoto (Tsinghua Univ.)
15:15-15:30	30-1-7 (1012)	**Synthesis and Characterization of Metal Nanoparticle / Layered Semiconductor Hybrids** Tatsuto YUI, Sotaro Sakai, Hiromu Saito (Niigata Univ.) and Wataru Norimatsu (Nagoya Univ.)
		Chair: W. Norimatsu
15:30-15:45	30-1-8 (1070)	**High-yield Fabrication of Stable n-Type Carbon Nanotube Thin-film Transistors on Flexible Substrate** Fu-Wen Tan, Jun Hirotani, Tomohiro Yasunishi, Shigeru Kishimoto and Yutaka Ohno (Nagoya Univ.)
15:45-16:00	30-1-9 (1175)	**Development of Desktop High-Resolution X-ray Microscope with a Single Carbon Nanotube Emitter** Shintaro Yamazaki, Masaru Irita, Hitoshi Nakahara, Koji Asaka and Yahachi Saito (Nagoya Univ.)

Session 2 Noyori Conferenc Hall (3A 3B 4A 4B)　　Nano-characterization of materials using electron microscopy

Time	Presentation No.	Title, Author(s)
		Chair: K. Saitoh
9:00-9:30	01-2-1 (1343) (Invited)	**Implementing Advanced Sub-sampling Methods for Fast, Low-Dose Scanning Transmission Electron Microscopy (STEM)** Nigel D. Browning (Univ. of Liverpool) (PNNL), Andrew Stevens , Libor Kovarik, Andrey Liyu, B. Layla Mehdi, Bryan Stanfill, Sarah Reehl and Lisa Bramer (PNNL)
9:30-9:45	01-2-2 (1359)	**In-situ ovservation of ferritin in graphene sandwiched structre** Yuki Sasaki (Japan Fine Ceramics Center) (National Institute of Advanced Industrial Science and Technology), Tadahiro Kawasaki (Japan Fine Ceramics Center), Masanori Koshino, Chikara Sato and Kazutomo Suenaga (National Institute of Advanced Industrial Science and Technology)
9:45-10:00	01-2-3 (1064)	**Operando Electron Holography for Measuring Changes in Electric Potential Distributions within Solid-State Lithium Ion Conductors** Tsukasa Hirayama, Yuka Aizawa1, Kazuo Yamamoto1, Takeshi Sato (Japan Fine Ceramics Center), Hidekazu Murata (Meijo Univ), Ryuji Yoshida, Craig A. J. Fisher (Japan Fine Ceramics Center), Takehisa Kato, Yasutoshi Iriyama (Nagoya Univ.)
10:00-10:15	01-2-4 (1115)	***In situ* TEM observation of the charge/discharge reactions at $LiCoO_2$/solid-electrolyte interfaces** Yuki Nomura (Panasonic Corporation) (Nagoya Univ.), Kazuo Yamamoto, Tsukasa Hirayama (Japan Fine Ceramics Center) and Koh Saitoh (Nagoya Univ.)
10:15-10:30	01-2-5 (1111)	**Valence state analysis of Ti in resistive switching region of rutile TiO2-x single crystals memristor** Kengo Yamaguchi, Shotaro Takeuchi, Takuma Shimizu, Tetsuya Tohei (Osaka Univ.), Nobuyuki Ikarasi (Nagoya Univ.), Akira Sakai (Osaka Univ.)
10:30-10:45		
		Chair: N. Ikarashi
10:45-11:15	01-2-6 (1357) (Invite)	**Nanoscale local structural study of ferroelectric materials using convergent-beam electron diffraction** Kenji Tsuda (Tohoku Univ.)
11:15-11:30	01-2-7 (1045)	**4D-STEM: Expanding STEM Imaging Capabilities with Pixelated Detectors** A. N. Bright, E. Yucelen and B. Freitag (Thermo Fisher Scientific)
11:30-11:45	01-2-8 (1162)	**Measurement of orbital angular momentum of electrons using the Dammann vortex gratings** Yuuki Noguchi, Koh Saito (Nagoya Univ.) and Masaya Uchida (Saitama Institute of Technology)
11:45-12:00	01-2-9 (1039)	**Coherent bunched electron beam extracted from a semiconductor photocathode in a transmission electron microscope** M. Kuwahara, K. Aoki, H. Suzuki, H. Asano, T. Ujihara, K. Saitoh and N. Tanaka (Nagoya Univ.)
12:00-12:15	01-2-10 (1150)	**Spectro-Microscopy on the Nanometer Scale** T. U. Kampen, Marko Wîetstruck (SPECS Surface Nano Analysis GmbH), Andreas Oelsner (Surface Concept GmbH), and Gerd Schönhense (Univ. of Mainz)

Session 3 ES 025 Nuclear emulsion workshop for fundamental physics and applications

Time	Presentation No.	Title, Author(s)
		Chair: O. Sato
9:15-9:30	30-3-1 (1004)	**NINJA Experiment: A Neutrino Experiment with Nuclear Emulsion at J-PARC for revealing the matter-dominated universe** Tsutomu Fukuda (Nagoya Univ.), on behalf of the NINJA Collaboration (Nagoya Univ., Kyoto Univ., Kobe Univ., Univ. of Tokyo, Toho Univ., Nihon Univ. and Yokohama National Univ.)
9:30-9:45	30-3-2 (1108)	**Tau neutrino physics in SHiP experiment** **Masahiro Komatsu (Nagoya Univ.) , and SHiP collaboration**
9:45-10:00	30-3-3 (1117)	**Charm Hardon Interaction Cross Section Measurement in DsTau Experiment** Osamu Sato and DsTau Collaboration (Nagoya Univ.)
10:00-10:15	30-3-4 (1135)	**Study of tau-neutrino production with emulsion particle detectors** Tomoko Ariga (Kyushu Univ.) for the DsTau collaboration
10:15-10:30	30-3-5 (1147)	**GRAINE Project:Cosmic Gamma-ray Observation with Balloon-Borne Nuclear Emulsion Telescope** Hiroki Rokujo (Nagoya Univ.) and GRAINE collaboration (Aichi Univ. of Education, ISAS/JAXA, Utsunomiya Univ., Okayama Univ. of Science, Kobe Univ. and Nagoya Univ.)

Session 3 ES 025 Nuclear emulsion workshop for fundamental physics and applications

Time	Presentation No.	Title, Author(s)
		Chair: H. Rokujyo / N. Naganawa
13:15-13:30	30-3-6 (1123)	**Analyses of high Pulse Heigth Volume tracks for identifying cosmic ray nuclei with GRAINE2015 experiments** Atsushi Iyono, Saya Yamamoto, Takashi Shimizu (Okayama Univ. of Science), Shigeki Aoki (Kobe Univ.), Hiroki Rokujo, Toshiyuki Nakako, Kunihiro Morishima, Mitsuhiro Nakamura (Nagoya Univ.) and Koichi Kodama (Aichi Univ. of Education) for the GRAINE experiments
13:30-13:45	30-3-7 (1093)	**Development of Hight Spatial Roesolustion Cold/Ultra-cold Neutron Detector Using Fine-grained Nuclear Emulsion** N. Nakagawa, S. Awano (Nagoya Univ.), M. Hino (Kyoto Univ.), K. Hirota, H. Kawahara, M Kitaguchi (Nagoya Univ.), K. Mishima (High Energy Accelerator Research Organization), H.M. Shimizu, S. Tada (Nagoya Univ.), S. Tasaki (Kyoto Univ.) and A. Umemoto (Nagoya Univ.)
13:45-14:15	30-3-8 (1361) (Invite)	**Energy deposition on nuclear emulsion by recoil ions for directional dark matter searches** Akira Hitachi (Waseda University)
		Chair: K. Morishima
14:30-14:45	30-3-9 (1312)	**ScanPyramids: Measurement of Cosmic Rays inside Khufu's Pyramid and Research for Hidden Structure** Kunihiro Morishima, Mitsuaki Kuno, Akira Nishio, Yuta Manabe and Nobuko Kitagawa (Nagoya Univ.)
14:45-15:00	30-3-10 (1315)	**Cosmic Ray Radiography in the Great Pyramid with Nuclear Emulsion** Mitsuaki Kuno, Kunihiro Morishima, Akira Nishio, Yuta Manabe and Nobuko Kitagawa (Nagoya Univ.)
15:00-15:15	30-3-11 (1124)	**Recent study of muonradiography for Japanese tumulus** Katsumi Ishiguro, Kiyohide Saito (Archaeological Institute of Kashihara, Nara Prefecture) and Mitsuhiro Nakamura (Nagoya Univ.)
15:15-15:30	30-3-12 (1155)	**CT imaging plan for Omuro volcano by cosmic-ray muon** Seigo Miyamoto, Shogo Nagahara (The Univ. of Tokyo), Kunihiro Morishima and Toshiyuki Nakano (Nagoya Univ.)
15:30-15:45	30-3-13 (1180)	**Feasibility Study of Three-Dimensional Muon Tomography with the Radon Transform Technique** Shogo Nagahara, Seigo Miyamoto and Akimichi Taketa (The Univ. of Tokyo)
16:00-16:15		
		Chair: N. Kitagawa
16:15-16:30	30-3-14 (1126)	**Measurement of Momentum Spectrum of Cosmic Rays for Precise Muon Radiography** H. Shibuya, S. Ogawa, Y.Morimoto, T. Matsuo, H. Oshima, A. Kono (Toho Univ.), S. Mikado, Y. Hanaoka (Nihon Univ.), T. Fukuda, M. Nakamura and O. Sato (Nagoya Univ.)

Session 3 ES 025 Nuclear emulsion workshop for fundamental physics and applications

Time	Presentation No.	Title, Author(s)
16:30-16:45	30-3-15 (1282)	**Measurement of cosmic ray flux with ECC on the ground** Nobuko Kitagawa, Kunihiro Morishima, Akira Nishio, Mitsuaki Kuno and Yuta Manabe (Nagoya Univ.)
16:45-17:00	30-3-16 (1156)	**Development of Nuclear Emulsion for Cosmic Ray Radiography** Yuta Manabe, Kunihiro Morishima, Nobuko Kitagawa, Akira Nishio (Nagoya Univ.) and Mitsuaki Kuno
17:00-17:15	30-3-17 (1307)	**Large Crystal Nuclear Emulsion for Cosmic-ray** Akira Nihio, Ken-ichi Kuwabara, Yuta Manabe, Kuno Mitsuaki, Nobuko Kitagawa and Kunihiro Morishima (Nagoya Univ.)
17:15-17:30	30-3-18 (1134)	**First results from glacier muon radiography** Akitaka Ariga (Univ. of Bern) for the Eiger-mu GT collaboration

Session 3 ES 025 Nuclear emulsion workshop for fundamental physics and applications

Time	Presentation No.	Title, Author(s)
		Chair: T. Toshito / M. Kimura
9:15-9:30	01-3-1 (1112)	**Fast and ultrafast secondary neutron measurements in proton therapy** Mitsuhiro Kimura, Toshiyuki Toshito, Hiroyuki Ogino (Nagoya Proton Therapy Center) (Nagoya City Univ.), Yuta Shibamoto (Nagoya City Univ.) Osamu Sato and Mitsuhiro Nakamura (Nagoya Univ.)
9:30-9:45	01-3-2 (1017)	**Prompt gamma-ray imaging for particle beam therapy using nuclear emulsion** Toshiyuki, Toshito, Mitsuhiro Kimura, Hiroyuki Ogino (Nagoya Proton Therapy Center) (Nagoya City Univ.), Yuta Shibamoto (Nagoya City Univ.) Osamu Sato and Mitsuhiro Nakamura (Nagoya Univ.)
9:45-10:00	01-3-3 (1122)	**Radioactivity measurement of the deciduous teeth.** Taku Nakamura, Yuhi Michiue (Gifu Univ.) and Naotaka Naganawa (Nagoya Univ.)
10:00-10:15	01-3-4 (1284)	**Acquisition of Radiation Resistant Ability in Non-Irradiated Cells by Secreted Factors from Low Dose Irradiated Cells.** J. Kumagai, A. Oohashi (Nagoya Univ.) and G. Kashino (Nara Medical Univ.)
10:15-10:30		
		Chair: K. Nakazawa / M. Yoshimoto
10:30-10:45	01-3-5 (1072)	**Development of Particle Identification Method in Nuclear Emulsion** S. Kinbara, R. Murai, K. Nakazawa, J. Yoshida and M. Yoshimoto (Gifu Univ.)
10:45-11:00	01-3-6 (1102)	**Identification of Xi- Particle with Multiple Coulomb Scattering in the E373 experiment** A.M.M. Theint, J. Yoshida, K. Nakazawa and M. Yoshimoto (Gifu Univ.)
11:00-11:15	01-3-7 (1298)	**J-PARC E07 Experiment: Development of Overall Scan** Masahiro Yoshimoto, Kazuma Nakazawa (Gifu Univ.) and Junya Yoshida (ASRC, JAEA)
11:15-11:30	01-3-8 (1329)	**The First Evidence of Ξ Hypernucleus** Kazuma Nakazawa and Junya Yoshida (Gifu Univ.)

Session 4 Room014 X-ray optics and materials science applications with synchrotron light

Time	Presentation No.	Title, Author(s)
		Chair: S. Yagi
8:45-9:00	30-4-1 (1167)	**X-ray spectroscopic analyses for the hydrogen absorption of the nanoparticles** S. Ogawa, C. Tsukada (Nagoya Univ.), T. Murai (Aichi Synchrotoron Radiation Center), H. Yoshida (TOYAMA Co., Ltd.), A. Yoshigoe (Japan Atomic Energy Agency)and S. Yagi (Nagoya Univ.)
9:00-9:15	30-4-2 (1118)	**Study on Adsorption Reaction between Cs and L-cysteine/AuNPs by XPS with Synchrotron Light** C. Tsukada (Japan Atomic Energy Agency), H. Yoshida (Japan Atomic Energy Agency), (TOYAMA Co., Ltd.), S. Ogawa (Nagoya Univ.), A. Yoshigoe (Japan Atomic Energy Agency), S. Yagi (Nagoya Univ.) and T. Yaita (Japan Atomic Energy Agency)
9:15-9:30	30-4-3 (1253)	**DNA-guided Crystallization of Colloidal Nanoparticles into Wulff Polyhedra: Structure and Dehydration Stability Analysis by SAXS** Miho Tagawa, Hayato Sumi, Takumi Isogai, Shunta Harada and Toru Ujihara (Nagoya Univ.)
9:30-9:45	30-4-4 (1261)	**Nanoscale Elemental Analysis using the SR X-ray Beam Combined with Atomic Force Microscopy (I) Spectroscopy Measurements of XANAM** Shushi Suzuki (Nagoya Univ.), Shingo Mukai (Hokkaido Univ.), Wang Jae Chun (Christian Univ.), Masaharu Nomura (KEK-IMSS-PF), and Kiyotaka Asakura (Hokkaido Univ.)
		Chair: E. Ikenaga
9:45-10:00	30-4-5 (1299)	**X-ray Spectroscopic Characterization of Humin as Bioelectrochemical Material** Pham Minh Duyen (Nagoya Univ.), Yasushi Miyata (Nagoya Municipal Industrial Research Institute), Takanori Awata, Keiji Kanda, Satoshi Ogawa, Shozo Ohta, Shinya Yagi and Arata Katayama (Nagoya Univ.)
10:00-10:30	30-4-6 (Drube) (Invite)	**Applications of hard X-ray photoelectron spectroscopy in materials science** Wolfgang Drube (Deutsches Elektronen-Synchrotron DESY)
10:30-11:00	30-4-7 (Miwa) (Invite)	**Synchrotoron X-ray spectroscopy for voltage-controllable spintronic devices** Shinji Miwa (Osaka Univ.)
		Chair: S. Yagi
11:00-11:15	30-4-8 (1127)	**Sulfur K-edge NEXAFS Analysis with He-path System of Vulcanized Squalene** Shinya Yagi (Nagoya Univ.)
11:15-11:30	30-4-9 (1221)	**Nano-laminated Fabrication of Nanoporous Anodic TiO_2-TiO-TiN Composite Films and $LiTiPO_4$ Solid Electrolyte toward High-Security LIB Anode Materials** S.-Z. Kure-Chu (Nagoya Institute of Technology), H. Sakuyama, N. Kawakami, H. Yashiro (Iwate Univ.), Y. Kamiike, M. Okido (Nagoya Univ.) and H. Segawa (National Institute for Material Science)

Session 4 Room014 X-ray optics and materials science applications with synchrotron light

Time	Presentation No.	Title, Author(s)
11:30-11:45	30-4-10 (1225)	**Control of Electrical Property at Metal/Ge Interface with Group-IV Alloy Interlayer** A. Suzuki (Nagoya Univ.), (Japan Society for the Promotion of Science), O. Nakatsuka, M. Sakashita and S. Zaima (Nagoya Univ.)
11:45-12:00	30-4-11 (1244)	**Fabrication and Thermoelectric Mechanism Study of Flexible $Si1_{-x}Ge_x$ Superlattice Films** Ying Peng (Nagoya Univ.), (Guilin University of Electronic Technology), Lei Miao (Guilin University of Electronic Technology), Chao Li, Rong Huang (East China Normal Univ.), Daisuki Urushihara, Toru Asaka (Nagoya Institute of Technology), Masashi Kurosawa, Osamu Nakatsuka and Shigeaki Zaima (Nagoya Univ.)

Session 5 Room013 Energy Conversion and Network Systems for Smart Society

Time	Presentation No.	Title, Author(s)
		Chair: Yu. Matsuda
9:00-9:30	30-5-1 T. Honda (Invite)	**Optical Measurement Methods for High-Speed Gas Flows** Taro Handa (Toyota Technological Institute)
9:30-9:45	30-5-2 (1071)	**Effects of the Arm's Cross-sectional Shape on the Aeroacoustic Noise of a Straight-bladed Vertical-axis Wind Turbine** Hamada, K., Saito, Y., Kono, T, Kiwata, T. and Komatsu, N. (Kanazawa Univ.)
9:45-10:00	30-5-3 (1310)	**Performance of Straight-Bladed Darrieus Wind Turbine in a Shear flow** Takahiro Watari, Rudi Purwo Wijayanto (Kanazawa Univ.), Takahiro Kiwata, Takaaki Kono (Research Center for Sustainable Energy and Technology) and Nobuyoshi Komatsu (Kanazawa Univ.)
10:00-10:15	30-5-4 (1008)	**Simulation of Heat Transport System using Thermal Transpiration Flow** Ko Kugimoto (Toyota Central R&D Labs., Inc.) (Nagoya Univ.), Yasuki Hirota, Yoshimi Kizaki (Toyota Central R&D Labs., Inc.), Hiroki Yamaguchi and Tomohide Niimi (Nagoya Univ.)
10:15-10:30		
		Chair: Tomohiro Degawa
10:30-10:45	30-5-5 (1185)	**Particle Motions in Microscale Multiphase Flow** K. Yamamoto, R. Sakurai and M. Motosuke (Tokyo Univ. of Science)
10:45-11:00	30-5-6 (1053)	**Experimental study of Local Heat Transfer of HFC-245fa in a Plate Heat Exchanger for Binary Cycle Generation** Osamu Kawanami, Shoya Sakoda (Univ. of Hyogo), Toshiyuki Furukawa, Naoto Sasaki and Kenji Kusunoki (Hisaka Works, Ltd.)
11:00-11:15	30-5-7 (Yap)	**La_2O_3-CaO Catalysts Supported on Nanostructured Carbon for Biodiesel Production** Y.H. Taufiq-Yap and G. Abdulkreem-Alsultan (Catalysis Science and Technology Research Centre), (Univ. Putra Malaysia)
11:15-11:30	30-5-8 (1165)	**Effect of coal types on low-temperature oxidation behaviors of coal** Ryo Yoshiie, Masaomi Onda, Yasuaki Ueki and Ichiro Naruse (Nagoya Univ.)
11:30-11:45	30-5-9 (X.Zhang)	**Research on Protective Coating for Steel Slab at High Temperature** Xiaomeng Zhang , Shufeng Ye, Lianqi Wei (Chinese Academy of Sciences), Guoyan Fu and Bo Yu (Chinese Academy of Sciences), (Graduate Univ. of Chinese Academy of Sciences)
11:45-12:00	30-5-10 (1049)	**Influence of particle concentration on the difficulty in the evaluation of diffusion coefficient from particle tracking data: robustness of the logarithmic scale technique** Reiji Motohashi, Itsuo Hanasaki, Yuto Ooi (Tokyo Univ. of Agriculture and Technology) and Yu Matsuda (Naogya Univ.)

International Workshop on Electrical Engineering (IWEE2017)
Theme: Smart operation and control for small power systems

Time	Presentation No.	Title, Author(s)
13:00-13:10	30-IWEE-1	**IWEE2017: Smart operation and control for small power systems Opening**
		Chair: Toshihisa Funabashi
13:10-13:50	30-IWEE-2	**1. Development of DC distribution systems** C.H.Kim（Sungkyunkwan University）
13:50-14:10	30-IWEE-3	**2. Stability control for a small power system by virtual synchronous machine** M, Hojo (Tokushima University)
14:10-14:30	30-IWEE-4	**3. Stability control for off-grid smart house** A. Yona（University of the Ryukyus）
14:30-15:00		
		Chair: Toshihisa Funabashi
15:00-15:20	30-IWEE-5	**4. Development of control system for a small power system by using Real time simulator** M. Aoki (Nagoya Institute of Technology)
15:20-15:40	30-IWEE-6	**5. Smart inverter control for small power systems** N. D. Tuyen（AIST）
15:40-16:00		Discussion and closing

Session 5 Room014 Energy Conversion and Network Systems for Smart Society

Time	Presentation No.	Title, Author(s)
		Chair: Eiji Okamoto
9:00-9:15	01-5-1 (1092)	**Measurement of Channel Characteristics and Communication Quality of Narrow-band PLC in A Large-scale Building** Kenya Ikeda, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
9:15-9:30	01-5-2 (1109)	**Prototype Implementation of 920MHz based multi-hop wireless sensor networks for agricultural use** T. Ogawa, M. Tamura, T. Wada and K. Natio (Aichi Institute of Technology)
9:30-9:45	01-5-3 (1046)	**Prototype development of field sensor network system with infrared radiation sensors** Masatoshi Tamura, Mizuki Murase, Tomoya Ogawa, Takuya Wada, Katsuhiro Naito (Aichi Institute of Technology)
9:45-10:00	01-5-4 (1141)	**A feasibility study of optical wireless MINO systems with high-density arrays** Hirotoshi Sugiura, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
10:00-10:15	01-5-5 (1143)	**A Study on Computational Cost Reduction Using Image Division Approach for Data Demodulation Method in Image-Sensor-Based Visible Light Communication** Z. Tan , S. Arai (Okayama Univ. of Science) and T. Yendo (Nagaoka Univ. of Technology)
10:15-10:30		
		Chair: Tadahiro Wada
10:30-10:45	01-5-6 (1059)	**Application of Reliable Path Finding to a Shared Autonomous Taxi System in a Time-varying Road Network** Zhiguang Liu, Tomio Miwa, Weiliang Zeng and Takayuki Morikawa (Nagoya Univ.)
10:45-11:00	01-5-7 (1052)	**Transmission Delay Reduction of Dynamic Map Data by Using MEC** Shohei Okamoto, Hiraku Okada (Nagoya Univ.), Yoshinao Ishii, Satoshi Makido (Toyota Central R&D Labs., Inc.), Eiji Okamoto (Nagoya Institute of Technology) and Masaaki Katayama (Nagoya Univ.)
11:00-11:15	01-5-8 (1370)	**Low-latency V2I Uplink LDM Transmission Scheme using Superposed Cooperative V2V Transmission** Eiji Okamoto (Nagoya Institute of Technology), Hiraku Okada (Nagoya Univ.), Yoshinao Ishii, and Satoshi Makido (Toyota Central R&D Labs., Inc)
11:15-11:45	01-5-9 (1001) (Invite)	**Energy and Traffic Control in Future Dense Cellular Networks** Abbas Jamalipour (The Univ. of Sydney)

Session 5 Room013 Energy Conversion and Network Systems for Smart Society

Time	Presentation No.	Title, Author(s)
		Chair: Toshihisa Funabashi
9:00-9:15	01-5-10 (1051)	**A Combination of ferrite and powder cores to increase the efficiency in interleaved DC-DC converters** T. Ou (Shimane Univ.), T.HoangChuong, D. Ebisumoto, S. Kimura, Y. Sugihara, S. Ishiwaki and M. Ymamoto (Insutitute of Materials and Systems for Sustainability)
9:15-9:30	01-5-11 (1086)	**An Experimental Study on P-f and Q-V Droop Control of Photovoltaic Power Generation** Yuki Kimpara, Muneaki Kurimoto, Yusuke Manabe, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.)
9:30-9:45	01-5-12 (1090)	**Development of Power Hardware In the Loop (PHIL) using Internet - Comparison of Data Transfer Performance by Data Transfer Protocol-** Yusaku Tamakoshi, Muneaki Kurimoto, Yusuke Manabe, Toshihisa Funaashi, Takeyoshi Kato (Nagoya Univ.) Shin Mitsunari, Mutsumi Aoki (Nagoya Institute of Technology)
9:45-10:00	01-5-13 (1099)	**Impact Assessment of Short-term Fluctuation of High Penetration PV Power Generation on Power System Frequency Control** Zhiping Tan, Muneaki Kurimoto, Yusuke Manabe, Toshihisa Funabashi and Takeyoshi Kato (Nagoya Univ.)
10:00-10:15		
		Chair: Toshihisa Funabashi
10:15-10:30	01-5-14 (1132)	**A Study on the Influence of Variable Curtailment Ratio of Photovoltaic Power Output on Power System Frequency** Tasuku Murase, Muneaki Kurimoto and Toshihisa Funabashi and Takeyoshi Kato (Nagoya Univ.)
10:30-10:45	01-5-15 (1084)	**Basic Study on Reference Voltage of SVR in Looped Distribution System** Shigeki Ishihara, Mutsumi Aoki (Nagoya Institute of Technology), Shunsuke Sasaki and Toshirou Kojima (CHUBU Electric Power Co.,Inc.)
10:45-11:00	01-5-16 (1089)	**Development of Electricity Demand Estimation Model in Distribution Network Based on Grid-Square Statistics** Tetsuya Matsuki1, Muneaki Kurimoto1, Yusuke Manabe2, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.)
11:00-11:15	01-5-17 (1096)	**Development of Several-hours-ahead Forecasting Method of Aggregated Households Electricity Demand by Empirical Approach** Akihiko Nagae, Muneaki Kurimoto, Yusuke Manabe, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.) and Kei Morita (JXTG Nippon Oil & Energy Corporation)

Session 6 Room011 Low-carbon energy and eco-cycle system analysis and assessment

Time	Presentation No.	Title, Author(s)
		Chair: Toshihiko Nakata
9:00-9:30	30-6-1 (1338) (Invite)	**Characterizing beneficiaries in integrated ecosystem services assessments: an artificial intelligence approach.** Ferdinando Villa (Basque Centre for Climate Change (BC3)), (IKERBASQUE, Basque foundation for science)
9:30-9:45	30-6-2 (1278)	**Development of TOPMODEL for Ecosystem Service Assessment in Forest Stream** Kosuke Mukae (Tokyo Univ. of Agriculture), Koji Miwa (Institute of Environmental Rehabilitation and Conservation), Hiromu Okazawa and Tomonori Fujikawa (Tokyo Univ. of Agriculture)
9:45-10:00	30-6-3 (1038)	**Modeling beneficiaries in dynamic Ecosystem Services assessments** Stefano Balbi (Basque Centre for Climate Change (BC3)) and Ferdinando Villa (IKERBASQUE, Basque Foundation for Science)
10:00-10:15	30-6-4 (1166)	**Resource occupancy to capacity ratio indicator assessment as a case in Nagoya green management for low carbon society** Kiichiro Hayashi, Nobuko Kawaguchi (Nagoya Univ.), Minoru Fujii (National Institute for Environmental Studies) and Wataru Kobayashi (Nagoya Univ.)
10:15-10:45		
		Chair: Ferdinando Villa
10:45-11:15	30-6-5 (1336) (Invite)	**Integrated Design for Sustainable Energy Systems** Toshihiko Nakata (Tohoku Univ.)
11:15-11:30	30-6-6 (1375)	**Application of UAV-SfM Technique to Forest Biomass Assessment Supported by an Empirical Crown Shape to Tree Growth Conversion** Takashi Machimura, Ayana Fujimoto, Takanori Matsui (Osaka Univ.), Kiichiro Hayashi (Nagoya Univ.), Satoru Sugita (Chubu Univ.) and Yuya Katada (Nagoya Univ.)
11:30-11:45	30-6-7 (1323)	**A feasibility study about minimum woody-energy system considering local carbon emission in Aizu region** Makoto Ooba (National Institute for Environmental Studies) (Nagoya Univ.), Togawa Takuya, Minoru Fujii and Shogo Nakamura (National Institute for Environmental Studies)
11:45-12:00	30-6-8 (1369)	**The cost benefit and environmental gains of MSW incineration combined with biomass power plant** Lu Sun (National Institute for Environmental Studies (NIES)) (The Univ. of Tokyo), Minoru Fujii (National Institute for Environmental Studies (NIES)), Tomohiro Tasaki (National Institute for Environmental Studies (NIES)) (The Univ. of Tokyo) and Satoshi Ohnishi (Tokyo Univ. of Science)

Session 6 Room011 Low-carbon energy and eco-cycle system analysis and assessment

Time	Presentation No.	Title, Author(s)
		Chair: Takashi Machimura
13:00-13:15	30-6-9 (1303)	**Design of district heating system based on linear heat density in Japan** Takaaki Furubayashi and Toshihiko Nakata (Tohoku University)
13:15-13:30	30-6-10 (1254)	**A study on landscape management and environmental indicators for low-carbon society** Nobuko Kawaguchi, Kiichiro Hayashi, Minoru Fujii (Nagoya Univ.), Hiroyuki Shimizu, Chika Takatori (National Institute for Environmental Studies) and Akito Murayama (The Univ. of Tokyo)
13:30-13:45	30-6-11 (1364)	**Diffusion of Low-carbon District Heating Systems Considering Urban Renewal Strategies: Case of Shinchi-Soma Region in Fukushima, Japan** Yi Dou (National Institute for Environmental Studies) (Nagoya Univ.), Keijiro Okuoka (Nagoya Univ.), Minoru Fujii (National Institute for Environmental Studies), Hiroki Tanikawa (Nagoya Univ.), Tsuyoshi Fujita, and Takuya Togawa (National Institute for Environmental Studies)
13:45-14:00	30-6-12 (1044)	**Assessing the real impact of the ELV to the entire vehicle life cycle, a material reusing and recycling approach.** Fernando Enzo Kenta Sato, Takaaki Furubayashi and Toshihiko Nakata (Tohoku Univ.)
14:00-14:15	30-6-13 (1291)	**Study on energy consumption of CO_2 capture process with phase separation solvents** Takehiro Esaki, Hiroshi Machida, Tatuya Ando, Tsuyoshi Yamaguchi and Koyo Norinaga (Nagoya Univ.)
14:15-14:30	30-6-14 (1309)	**Conscious Survey of Local Governments in Japan about Introduction of Small Hydroelectric Project** Tomoko Okayama (Taisho Univ.), Tomomi Uchiyama (Nagoya Univ.) and Toshihiko Ikeda (Shinshu Univ.)
14:30-15:00		
		Chair: Kayo Sawada
15:00-15:15	30-6-15 (1114)	**The theoretical analysis of False-Turn-ON of GaN HEMT** Toshihiro Iwaki (Shimane Univ.), Seiya Ishiwaki, Yusuke Sugihara (Shimane Univ.), Takashi Sawada (Nagoya Univ.), Kimihiro Nanamori, Mostafa Noah, Shota Kimura (Shimane Univ.) and Masayoshi Yamamoto (Nagoya Univ.)
15:15-15:30	30-6-16 (1003)	**Rhenium Extraction by Aqueous Biphasic Systems Formed from Surfactant Pluronics and Ammonium Sulfate** Kayo Sawada, Kazuki Hirayama, Youichi Enokida (Nagoya Univ.) and Mikael Nilsson (Univ. of California, Irvine)
15:30-15:45	30-6-17 (1294)	**Enrichment and characterization of marine anaerobic ammonium oxidation (anammox) bacteria** T. Awata (Nagoya Univ.), T. Kindaichi, N. Ozaki and A. Ohashi (Hiroshima Univ.)
15:45-16:00		

UHVEM Noyori Conference Hall 3A 3B 4A 4B

New Possibilities for Ultra-High Voltage Electron Microscopy -In Commemoration of the 45th Anniversary of the HVEM Laboratory at Nagoya University-

Time	Presentation No.	Title, Author(s)
9:00-9:15	30-UHVEM-1	**Opening Address**
		Chair: Koh Saitoh
9:15-9:45	30-UHVEM-2 (1352) (Invite)	**Recent reults on in-situ TEM, 3D TEM and data quantification for TEM from the EMAT laboratory** Dominique Schryvers (Univ. of Antwerp)
9:45-10:15	30-UHVEM-3 (1350) (Invite)	***In Situ* Electron Transmission Electron Microsocopy in Materials Science - Possibilities and Prospects** Jakob B. Wagner, Lili Zhang (Technical Univ. of Denmark), Fabrizio Gualandris, Søren Bredmose Simonsen, Luise Theil Kuhn (Univ. of Denmark), Macro Beleggia and Thomas W. Hansen (Technical Univ. of Denmark)
10:15-10:30	30-UHVEM-4 (1069)	**In-situ observation of catalytic nanoporous metals and intermetallics** Takeshi Fujita (Tohoku Univ.), Toyokazu Tanabe (Kanagawa Univ.) , Tsubasa Imai (National Institute for Materials Science), Tomoharu Tokunaga ,Yuta Yamamoto, Shigeo Arai (Nagoya University) and Hideki Abe (National Institute for Materials Science)
10:30-10:45	30-UHVEM-5 (1055)	**Dynamic observations of reduction-oxidation behavior of rhodium nanoparticles supported on zirconia substrate in various gas species by high voltage TEM** H. Tanaka (Toyota Motor Corporation), M. Iwasaki (Toyota Central R&D Labs., Inc.), S. Arai (Nagoya Univ.), K. Kishita, H. Hirata (Toyota Motor Corporation) and S. Muto (Nagoya Univ.)
10:45-11:00		
		Chair: Syo Matsumura
11:00-11:30	30-UHVEM-6 (1346) (Invite)	**Quantitative probing of magnetic properties by electron spectroscopy in the TEM - currently used techniques and perspectives for HVEM** Klaus Leifer (Uppsala Univ.), Thomas Thersleff (Uppsala Univ.)(Stockholm Univ.), Hasan Ali, Björgvin Hjörvarsson, Jan Rusz (Uppsala Univ.)
11:30-12:00	30-UHVEM-7 (1029)	**Electromagnetic field observations using high-voltage electron holography** Toshiaki Tanigaki (Research & Development Group, Hitachi, Ltd.)

UHVEM Noyori Conference Hall 3A 3B 4A 4B

New Possibilities for Ultra-High Voltage Electron Microscopy -In Commemoration of the 45th Anniversary of the HVEM Laboratory at Nagoya University-

Time	Presentation No.	Title, Author(s)
		Chair: Hidehiro Yasuda
13:00-13:30	30-UHVEM-8 (1351) (invite)	**STEM-Based Characterization of Defects in Structural Materials** J. Miao (The Ohio State Univ.), P.J. Phillips (JEOL USA), M. De Graef (Carnegie Mellon Univ.) and Michael J. Mills (The Ohio State Univ.)
13:30-13:45	30-UHVEM-9 (1110)	**Suppression of carbon contamination by oxygen gas introduction using E-STEM-EELS** Takafumi Amino (Nippon Steel & Sumitomo Metal Corporation), Shigeo Arai, Shunsuke Mutoh (Nagoya Univ.), Masayuki Wakita (Nippon Steel & Sumitomo Metal Corporation), (The Iron and Steel Insititute of Japan), Syunya Uji, Hikaru Kawata, Naoki Murayama (Nippon Steel & Sumitomo Metal Corporation), Kazuto Arakawa (Shimane Univ.) and Yoshimasa Takahashi (Kansai Univ.)
13:45-14:00	30-UHVEM-10 (1128)	**High-voltage scanning transmission electron microscopic observation of dislocation structures developed in cyclically deformed [001] Cu single crystals** Tomotaka Miyazawa, Takahiro Kajita, Toshiyuki Fujii (Tokyo Institute of Technology) and Shigeo Arai (Nagoya Univ.)
14:00-14:15	30-UHVEM-11 (1176)	**Direct evaluation of grain boundary hydrogen embrittlement: a novel approach with the RSHVEM and a nano-indenter** Yoshimasa Takahashi (Kansai Univ.), Shigeo Arai, Kimitaka Higuchi, Yuta Yamamoto, Shunsuke Muto and Nobuo Tanaka (Nagoya Univ.)
14:15-14:30		
		Chair: Tamaki Shibayama
14:30-15:00	30-UHVEM-12 (1344) (Invite)	**3 dimensional Large-area Analysis of Synaptic Plasticity in the Mice Brain by Synchronous Operation of Limitless Panorama and 3D Electron Tomography** Hyo-Jeong Kim (Korea Basic Science Institute) (Dankook Univ.), A Reum Je (Korea Basic Science Institute), Ju Hwan Kim, Hak Rim Kim (Dankook Univ.), Hee-Seok Kweon, and Yang Hoon Huh (Korea Basic Science Institute)
15:00-15:15	30-UHVEM-13 (1087)	**Contrast Enhancement of Biological Specimens by Differential Phase Electron Microscopy using the Aharonov-Bohm Effect** Takafumi Ishida (Nagoya Univ.), Wei Li (Dailan Polytechnic Univ.), Takayoshi Tanji, Yuta Yamamoto and Koh Saitoh (Nagoya Univ.)
15:15-15:30	30-UHVEM-14 (1153)	**Detection of the Interaction of SIA Clusters with Vacancies in Tungsten using High-Voltage Electron Microscopy** Kazuto Arakawa (Shimane Univ.), Takafumi Amino (Nippon Steel & Sumitomo Metal Corporation), Shigeo Arai, Yuta Yamamoto, Kimitaka Higuchi, Shunsuke Muto, Nobuo Tanaka (Nagoya Univ.), Hidehiro Yasuda, Tetsuya Yasuda, and Hirotaro Mori (Osaka Univ.)
15:30-15:45	30-UHVEM-15 (1276)	**UHVEM Observation of Dislocations in Crystalline Semiconductor Deformed at Room Temperature** Atsutomo Nakamura, Yu Oshima and Katsuyuki Matsunaga (Nagoya Univ.)
15:45-16:00		
		Chair: Shunsuke Muto
16:00-16:30	30-UHVEM-16 (1349) (Invite)	**High Voltage Electron Microscope Study of Lattice Defect Formation in Fluorite-type Oxide Crystals** Syo Matsumura, Kazuhiro Yasuda, AKM Saiful Islam Bhuian and Seiya Takaki (Kyushu Univ.)

UHVEM Noyori Conference Hall 3A 3B 4A 4B

New Possibilities for Ultra-High Voltage Electron Microscopy -In Commemoration of the 45th Anniversary of the HVEM Laboratory at Nagoya University-

Time	Presentation No.	Title, Author(s)
16:30-17:00	30-UHVEM-17 (1345) (Invite)	**Frontiers of Materials Science Investigated by In Situ Observations at Osaka University** H. Yasuda (Osaka Univ.)
17:00-17:30	30-UHVEM-18 (1348) (Invite)	**Present Status of Multi-Quantum Beam HVEM Activity and Future Prospective in Hokkaido University** Tamaki Shibayama and Seiichi Watanabe (Hokkaido Univ.)

iLIM-2 ES Hall

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Time	Presentation No.	Title, Author(s)
		Chair: Michiko Kusunoki
9:00-9:45	30-iLIM-2-1 (1210) (Plenary Lecture)	**Diamond Transistors for Power Electronics and Biosensing** Hiroshi Kawarada (Waseda Univ.)
		Chair: Yutaka Majima
9:45-10:05	30-iLIM-2-2 (1342) (Invite)	**Phase Change Materials for Sustainable Energy Storage** *Mary Anne White, John Noēl and Samer Kahwaji (Dalhousie Univ.)*
10:05-10:25	30-iLIM-2-3 (1325) (Invite)	**Preparation of Solar Grade Silicon by Interfacial and Electrochemical Processes** T. Homma, M. Kunimoto, Y. Fukunaka (Waseda Univ.) and T. Nohira (Kyoto Univ.)
		Chair: Hiroshi Kawarada
10:25-10:45	30-iLIM-2-4 (1347) (Invite)	**Van der Waals heterostructure composed of $MoSe_2$ and Se terminated GaAs** Koji Onomitsu, Aleksandra Krajewska, Ryan A. E. Neufeld, Fumihiko Maeda, Kazuhide Kumakura, and Hideki Yamamoto (NTT Corporation)
10:45-11:05	30-iLIM-2-5 (K. Takenaka) (Invite)	**Advanced Plasma Processes for Formation of Functional Thin Films** Kosuke Takenaka, Giichiro Uchida (Osaka Univ.), Keisuke Ide, Toshio Kamiya (Tokyo Institute of Technology) and Yuichi Setsuhara (Osaka Univ.)
		Chair: Yuichi Setsuhara
11:05-11:25	30-iLIM-2-6 (1328) (Invite)	**Material Design and Development of New Amorphous Oxide Semiconductors for Future Electronics** Junghwan Kim, Toshio Kamiya and Hideo Hosono (Tokyo Institute of Technology)
11:25-11:45	30-iLIM-2-7 (1252) (Invite)	**How to control mechanical properties of metals 3D-printed by electron beam melting (EBM)** Yuichiro Koizumi, Shi-hai Sun (Tohoku Univ.) (Osaka Univ.), Xiao Ding, Taiyo Takashima (Tohoku Univ.), Shingo Kurosu (Tohoku Univ.) (Iwate Industrial Research Institute), Yufan Zao, Daixiu Wei, Hao Wang, Kenta Aoyagi, Kenta Yamanaka (Tohoku Univ.), and Akihiko Chiba (Tohoku Univ.) (Osaka Univ.)
		Chair: Takao Hanawa
13:15-13:45	30-iLIM-2-8 (1015) (Keynote)	**Biological Responses to Surface-modified Dental Implants: *In Vitro, In Vivo* and *In Situ* Studies** Her-Hsiung Huang (National Yang-Ning Univ.)
		Chair: Takao Hanawa
13:45-14:05	30-iLIM-2-9 (1174) (Invite)	**One-Pot Synthesis of Organic-Inorganic Hybrid Hollow Nanoparticles for Fluorescence Image-Guided Trimodal Therapy** Koichiro Hayashi (Nagoya Univ.)

iLIM-2 ES Hall

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Time	Presentation No.	Title, Author(s)
		Chair: Masakuni Ozawa
14:05-14:25	30-iLIM-2-10 (1186) (Invite)	**Dielectric and Ionic properties of hydroxyapatite for biomedical applications** Naohiro Horiuchi and Kimihiro Yamashita (Tokyo Medical and Dental Univ.)
14:25-14:45	30-iLIM-2-11 (1321) (Invite)	**Electrophoretic Deposition of Luminescent QDs for Improving the Light Extraction Efficiency of GaN Based Light Emitting Diodes (LEDs)** S.Raj. M (Chonbuk National Univ.) (Nagoya Univ.). Ozawa and Y. T. Yu (Nagoya Univ.)
		Chair: Hirokazu Katsui
14:45-15:05	30-iLIM-2-12 (1226) (Invite)	**Anisotropic Magnetic Properties and Cr Substitution Effects on the Curie Temperature of MnAlGe Layered Compounds** Rie Y. Umetsu (Tohoku Univ.), Yoshifuru Mitsui (Kagoshima Univ.), Ji Xia, Hirokazu Katsui (Tohoku Univ.), Yoshito Nozaki, Isamu Yuitoo, Teruaki Takeuchi (Waseda Univ.), Tomoyasu Taniyama (Tokyo Institute of Technology) and Hiroshi Kawarada (Waseda Univ.)
14:05-15:25	30-iLIM-2-13 (M. Tsukamoto) (Invite)	**Variation of femtosecond laser induced periodic nanostructures by changing dielectric constant of plastic on Ti substrate** Masahiro Tsukamoto, Takahiro Oga, Keisuke Takenaka, Y. Sato (Osaka Univ.), Godai Miyaji (Tokyo University of Agriculture and Technology) and Togo Shinonaga (Okayama Univ.)

Nitride IB 015 International Symposium of Growth, Characterization, and Simulation of Nitride Semiconductors

Time	Presentation No.	Title, Author(s)
		Chair: Hiroshi Amano
9:00-9:45	30-Nitride-1 (1365) (Invite)	**Progress in Power Semiconductor Silicon Carbide Technology for Sustainable Development** H. Matsunami (Kyoto Univ.)
9:45-10:15	30-Nitride-2 (1056) (Invite)	**GaN-based semiconductor devices for power switching systems** Hidetoshi Ishida, Ryo Kajitani, Yusuke Kinoshita, Hidekazu Umeda, Shinji Ujita, Masahiro Ogawa, Kenichiro Tanaka, Tatsuo Morita, Satoshi Tamura, Masahiro Ishida and Tetsuzo Ueda (Panasonic Corporation)
10:15-10:30		
		Chair: Yoshio Honda
10:30-11:00	30-Nitride-3 (1360) (Invite)	**InAlGaN/GaN-HEMT Device Technologies for High-Power-Density W-band Amplifiers** Kozo Makiyama (Fujitsu Laboratories Ltd.)
11:00-11:15	30-Nitride-4 (1095)	**Electrical Characteristics of GaN MOS Diodes with Dry Etched-Surface** Shinji Yamada, Hideki Sakurai (Nagoya Univ.) (ULVAC ISET), Masato Omori (Nagoya Univ.), Yamato Osada, Ryuichiro Kamimura (ULVAC ISET), Tatsuya Oyobiki, Kenya Nishiguchi (Hokkaido Univ.), Tamotsu Hashizume (Nagoya Univ.) (Hokkaido Univ.), and Tetsu Kachi (Nagoya Univ.)
11:15-11:30	30-Nitride-5 (Deki)	**Crystal Plane Dependence of Interface States Density in c- and m-plane GaN MOS Capacitors** Manato Deki, Kentaro Nagamatsu, Atsushi Tanaka, Maki Kushimoto, Shugo Nitta, Yoshio Honda (Nagoya Univ.), and Hiroshi Amano (Nagoya Univ.) (VBL)

Nitride IB 015 International Symposium of Growth, Characterization, and Simulation of Nitride Semiconductors

Time	Presentation No.	Title, Author(s)
		Chair: Toru Ujihara
13:30-14:00	30-Nitride-6 (1333) (Invite)	**High-temperature Annealing of Sputtered AlN Films on Sapphire** Hideto Miyake, Shiyu Xiao, Kazumasa Hiramatsu (Mie Univ.)
14:00-14:30	30-Nitride-7 (1335) (Invite)	**Growth of bulk GaN crystal by Na flux method** Y. Mori, M. Imanishir, M. Yoshimura, and M. Imade (Osaka Univ.)
14:30-14:45		
		Chair: Kenji Shiraishi
14:45-15:15	30-Nitride-8 (1332) (Invite)	**The effect of pressure and temperature on growth rate and layer uniformity in the sublimation growth of AIN crystals** Koichi Kakimoto (Kyushu Univ.)
15:15-15:30	30-Nitride-9 (1160)	**Multiphysics Flow Simulation with Appropriate Conditions Predicted by Thermodynamic Analysis of Driving Force of GaN Crystal Growth** Yoshihiro Yamamoto, Kento Kawakami, Katsunori Yoshimatsu, Naoya Okamoto (Nagoya Univ.), Yoshihiro Kangawa (Kyushu Univ.) (Nagoya Univ.), Koichi Kakimoto (Kyushu Univ.), Kenji Shiraishi (Nagoya Univ.)
15:30-15:45	30-Nitride-10 (1061)	**Thermodynamic Modeling of GaN MOVPE: Contribution of Surface State** A. Kusaba (Kyushu Univ.), Y. Kangawa (Kyushu Univ.) (Nagoya Univ.), P. Kempisty (Nagoya Univ.), (Polish Academy of Sciences), K. Shiraishi (Nagoya Univ.), K. Kakimoto (Kyushu Univ.) and A. Koukitu (Tokyo Univ. of Agriculture and Technology)
15:45-16:00	30-Nitride-11 (1142)	**Optical Characterization of GaN and SiC Crystals by Optical Axis Mapping** Katsuo Tsukamoto (Osaka Univ.) (Tohoku Univ.), Masayuki Imanishi (Osaka Univ.), Kenta Murayama (Nagoya Univ.), Yusuke Mori (Osaka Univ.)

Nitride IB 015 International Symposium of Growth, Characterization, and Simulation of Nitride Semiconductors

Time	Presentation No.	Title, Author(s)
		Chair: Yutaka Ohno
9:00-9:30	01-Nitride-1 (1337) (Invite)	**GaN-based HEMTs for High-Voltage Operation** Masaaki Kuzuhara (Univ. of Fuku)
9:30-10:00	01-Nitride-2 (1339) (Invite)	**Foresights in sophisticating power electronics with diversification of semiconductor material for power device.** Tsuyoshi Funaki (Osaka Univ.)
10:00-10:30	01-Nitride-3 (1366) (Invite)	**Three-Dimensional Imaging of Threading Dislocations in GaN Crystals by Multiphoton-Excitation Photoluminescence** Tomoyuki Tanikawa, Kazuki Ohnishi, and Takashi Matsuoka (Tohoku Univ.)
10:30-10:45		
		Chair: Shunta Harada
10:45-11:00	01-Nitride-4 (1021)	**A Methodology for Multiphysics Simulation of Gallium Nitride MOVPE Method using Thermodynamic Analysis of Driving Force of Gallium Nitride Crystal Growth** Kento Kawakami, Yoshihiro Yamamoto, Katsunori Yoshimatu, Naoya Okamoto (Nagoya Univ.), Yoshihiro Kangawa (Kyushu Univ.) (Nagoya Univ.), Koichi Kakimoto (Kyushu Univ.), Kenji Shiraishi (Nagoya Univ.)
11:00-11:15	01-Nitride-5 (1240)	**Theoretical study on the structure variation of a sidewall quantum well on a GaN nanorod** Xu Zhang (Zhengzhou Univ.) (National Taiwan Univ.) and C. C. Yang (National Taiwan Univ.)
11:15-11:30	01-Nitride-6 (1274)	**Enlargement of the SiC Crystal with Low Dislocation Densities** R. Murai, H. Lin, K. Murayama, S. Harada, M. Tagawa (Nagoya Univ.) and T. Ujihara (Nagoya Univ.) (AIST)
11:30-11:45	01-Nitride-7 (1131)	**Stability of the carbon and oxygen impurities in the subsurface layer near the polar GaN surfaces** Powel Kempisty (Nagoya Univ.) (Polish Academy of Sciences), Yoshihiro Kangawa (Kyushu Univ.) (Nagoya Univ.), Kenji Shiraishi (Nagoya Univ.), Stanislaw Krukowski (Polish Academy of Sciences), Michal Bockowski (Polish Academy of Sciences) (Nagoya Univ.), Koichi Kakimoto (Kyushu Univ.) and Hiroshi Amano (Nagoya Univ.)

Session 1 IB Building Entrance 16:00-17:00 Nano-Carbon and related materials and thin films

Presentation No.	Title, Author(s)
P-1-1 (1013)	**First Principles Study in the GaN/Al_2O_3 Interface Structures** Kenta Chokawar, Masaaki. Araidai and Kenji Shiraishi (Nagoya Univ.)
P-1-2 (1022)	**Fabrication and Magnetic Behaviour of Ni Magnetic Nanowire Arrays** A. Azizan, K. Yamada and M. Shima (Gifu Univ.)
P-1-3 (1023)	**Texture Growth of Chemically Synthesized Co_3O_4 Films** Kensuke Hayashi, Keisuke Yamada and Mitsuhiro Shima (Gifu Univ.)
P-1-4 (1025)	**Intercalation of nickel atoms under graphene film on SiC(0001)** Yutaro Ouchi, Wataru Norimatsu, Takahiro Ito (Nagoya Univ.), Ryoji Finahashi (AIST) and Michiko Kusunoki (Nagoya Univ.)
P-1-5 (1034)	**Enhancement of Hole Injection in AlGaN-based DUV LEDs with Carbon Nanotube Electrode by Electrostatic Doping** M. Soda, S. Kishimoto, H. Amano and Y. Ohno (Nagoya Univ.)
P-1-6 (1035)	**Stability of Metal Species in Amorphous-SiO_2** Takeshi Miyajima, Hiroki Shirakawa, Masaaki Araidai and Kenji Shiraishi (Nagoya Univ.)
P-1-7 (1065)	**Growth of Boron-Doped Graphen by Thermal Decomposition of B_4C Thin Film on SiC** Nao Takata, Wataru Norimatsu, Takahiro Ito and Michiko Kusunoki (Nagoya Univ.)
P-1-8 (1098)	**First-Principles Study on interface orientation dependence of Si thermal oxidation** Takuya Nagura, Kenta Chokawa, Hiroki Shirakawa (Nagoya Univ.), Masaaki Araidai (Nagoya Univ.), (JST- ACCEL), Hiroyuki Kageshima (Shimane Univ.), (JST-ACCEL), Tetsuo Endoh (Tohoku Univ.) , (JST-ACCEL) and Kenji Shiraishi (Nagoya Univ.), (JST-ACCEL)
P-1-9 (1103)	**Response of carbon nanotube thin-film transistors to electrolyte solution** Kana Hasegawa, Nguyen Xuan Viet, Takuya Ushiyama, Shigeru Kishimoto and Yutaka Ohno (Naogya Univ.)
P-1-10 (1116)	**Growth of Carbon Nanotube/Graphene Composite Film on Silicon Carbide** Yoshito Nagae, Wataru Norimatsu and Michiko Kusunoki (Nagoya Univ.)
P-1-11 (1136)	**Epitaxial growth of two-dimensional GaN film on SiC substrates** S. Nakao, W. Norimatsu and M. Kusunoki (Nagoya Univ.)
P-1-12 (1137)	**Magnetic Strain Sensor Using Spin Valve GMR Films with FeSiB Free Layer** Y. Hashimoto, N. Yamamoto, T. Kato, D. Oshima, and S.Iwata (Nagoya Univ.)

Session 1 IB Building Entrance 16:00-17:00 Nano-Carbon and related materials and thin films

Presentation No.	Title, Author(s)
P-1-13 (1138)	**Growth of Zigzag Graphene Nanoribbons on SiC Substrate** Y. Harada, Keita Matsuda, K. Higuchi, W. Norimatsu and M. Kusunoki (Nagoya Univ.)
P-1-14 (1139)	**Electrochemical Reaction of Nono-Carbons for PM Monitoring in Diesel Engine Exhaust** Masaya Ito, Peiling Lv, Masahiro Nagao, Kazuyo Kobayashi (Nagoya Univ.), Yanbai Shen (Northeastern Univ.) and Takashi Hibino (Nagoya Univ.)
P-1-15 (1140)	**Scanning X-ray magnetic circular dichroism observation of magnetic state of ion-irradiation bit patterned $L1_0$-MnGa films** T. Ishikawa, K. Fukuta, D. Oshima, T. Kato, T. Nakamura, Y. Kotani, K. Toyoki and S. Iwata (Nagoya Univ.)
P-1-16 (1187)	**Graphene Nano-Mesh Formed by Thermal Decomposition of SiC/B_4C Nano-Composite Film** Keita Matsuda, Wataru Norimatsu and Michiko Kusunoki (Nagoya Univ.)
P-1-17 (1219)	**Effect of Ar Flow Rate on the Growth of Epitaxial Graphene on SiC (0001) Substrate** Tomo-o Terasawa, Wataru Norimatsu and Michiko Kusunoki (Nagoya Univ.)
P-1-18 (1220)	**In-situ TEM study on structural changes of a multiwall carbon nanotube under applying an electrical current** Kentaro Yamauchi , Koji Asaka , Hitoshi Nakahara and Yahachi Saito (Nagoya Univ.)
P-1-19 (1222)	**Band-gap engineering of black phosphorus by an electrochemical etching** Yohei Sato (The Univ. of Tokyo), Takanari Takahashi (Tokyo Institute of Technology) , Yumiko Katayama (The Univ. of Tokyo), Takao Sasagawa (Tokyo Institute of Technology), and Kazunori Ueno (The Univ. of Tokyo)
P-1-20 (1235)	**Ultrafast Decay of Photoluminescence from Monolayer Graphene on SiC Substrate** H. Imaeda, T. Koyama, H. Kishida (Nagoya Univ.), J. Bao (Inner Mongolia Univ. for The Nationalities), W. Norimatsu and M. Kusunoki (Nagoya Univ.)
P-1-21 (1302)	**Controlling two-dimensional structure of DNA-functionalized nanoparticle crystals on supported lipid bilayer** T. Isogai, H. Sumi (Nagoya Univ.), R. Tero (Toyohashi Univ. of Technology), S. Harada, T. Ujihara and M. Tagawa (Nagoya Univ.)
P-1-22 (1363)	**Development of secondary battery electrode using nano carbon** Yasushi Miyata (Nagoya Municipal Industrial Research Institute), (Nagoya Univ.), Hirotaka Kunieda (Hiroshima Co.,Ltd), Hiroshi Yamada (Nagoya Univ.), Tomohiko Tagawa (Nagoya Univ.), (National Institute of Technology, Toyota College)
P-1-23	**Crystallization of $NaClO_3$ Metastable Phase from Unsaturated Mother Solution Achieved by Excitation of Plasmonic Nanoarray** Hiromasa Niinomi (Chiba Univ.), Teruki Sugiyama (Taiwan National Chiao Tung Univ.) (Nara Institute of Science and Technology), Miho Tagawa, Toru Ujihara (Nagoya Univ.), Yusuke Mori, Shunta Harada (Osaka Univ.) Kenta Murayama (Nagoya Univ.), Katsuhiko Miyamoto and Takashige Omatsu (Chiba Univ.)

Session 2　Noyori Conference Hall Entrance　09:00-17:30

Nano-characterization of materials using electron microscopy

Presentation No.	Title, Author(s)
P-2-1 (1042)	**3D Internal Void Analysis of ASS-LIB Composite Electrode by Union Operation Image Processing of FIB-SEM data** Yuta Yamamoto, Yasutoshi Iriyama (Nagoya Univ.), (JST-ALCA) and Shunsuke Muto (Nagoya Univ.)
P-2-2 (1068)	**Quantitative atomic-site-analysis of functional dopants by electron-channeling-enhanced microanalysis** Masahiro Ohtsuka (Nagoya Univ.) and Shunsuke Muto (Advanced Measurement Technology Center),（Nagoya Univ.)
P-2-3 (1078)	**Effects of surface morphology and composition of Ti alloy with nanotube on cell culture** M. Mori, S. Kobayashi, S. Okano (Ehime Univ.), K. Kuroda (Nagoya Univ.), T. Okamoto (Ehime Univ.)
P-2-4 (1083)	**Phase Imaging from Electron Diffraction** J. Yamasaki (Osaka Univ.) (Nagoya Univ.), Y. Shimaoka (Osaka Univ.) and H. Sasaki (Furukawa Electric Co., Ltd.)
P-2-5 (1085)	**Hole Distribution in Spin-Ladder Superconducting Materials by Site-Selective EELS** Hiroki Kumeno, Masahiro Ohtuska, Shunsuke Muto (Nagoya Univ.) and Ognjen Milat (Institute of Physics, Zagreb)
P-2-6 (1151)	**Determination of occupation sites of trace dopant and oxygen vacancy in environmental barrier coating by beam-rocking TEM-EDX analysis** Kenji Oda, Masahiro Ohtsuka, Shunsuke Muto (Nagoya Univ.), Makoto Tanaka and Satoshi Kitaoka (Japan Fine Ceramics Center)
P-2-7 (1154)	**Strain measurement of simulated finFET structures of Ge and GeSn prepared by MOCVD** Koh Saitoh, Shota Ou (Nagoya Univ.) Sinichi Ike (Nagoya Univ.), (Japan Society for the Promotion of Science), Osamu Nakatsuka, Shigeaki Zaima (Nagoya Univ.)
P-2-8 (1101)	**Microstructure Analysis of Globules Embedded in Al-based Immiscible Alloys with an Amorphous Phase** Takeshi Nagase (Osaka Univ.), Mamoru Takemura, Mitsuaki Matsumuro (Osaka Research Institute of Industrial Science and Technology), Megumi Matsumoto (Kyoto Univ.) and Yoshikazu Fujii (Kobe Univ.)
P-2-9 (1179)	**The study of high-temperature annealing process of sputtered AIN films** Shi-yu Xiao, Yi-kang Liu, Hideto Miyake and Kazumasa Hiramatsu (Mie Univ.), Shunta Harada and Toru Ujihara（Nagoya Univ.）
P-2-10 (1218)	**Field Emission and Field Ion Microscope Images Reflecting Electronic Orbitals of a Graphene Edge** Toru Hoshino, Yudai Watanabe, Masaru Irita, Hitoshi Nakahara, Koji Asaka and Yahachi Saito (Nagoya Univ.)
P-2-11 (1223)	**Formation of nanostructures on platinum thin film and tungsten carbide by helium plasma irradiation** Yudai Tomita, Shin Kajita, Noriyasu Ohno, Hirohiko Tanaka and Yusuke Ichino (Nagoya Univ.)
P-2-12 (1247)	**Preparation and Characterization of ZnS:Mn Grown on Hydroxyapatite Nanorods** H. Shima and T. Ikoma (Tokyo Institute of Technology)
P-2-13 (1257)	**The Effect of Helium Plasma Irradiation on Rhodium and Ruthenium** T. Nojima, S. Kajita (Nagoya Univ.), N. Yoshida (Kyushu Univ.), S. Kawaguchi, N. Ohno, H. Tanaka (Nagoya Univ.), and T. Akiyama (National Institute for Fusion Science)
P-2-14 (1267)	**Structural study of GaN nanowires prepared by hydride vapor phase epitaxy using transmission electron microscopy** Kohei Nishi, Koh Saitoh, Lekhal Kaddour, Si-Young Bae and Hiroshi Amano (Nagoya Univ.)
P-2-15 (1285)	**Development of Electrostatic Cs/Cc Corrector with Annular and Circular Electrodes** Tadahiro Kawasaki, Ryuji Yoshida, Takeharu Kato (Japan Fine Ceramics Center), Tsunenori Nomaguchi, Shunichi Motomura, Toshihide Agemura (Hitachi High-Technologies), Tetsuji Kodama (Meijo Univ.), Masahiro Tomita (Vacuum Device Ltd.), and Takashi Ikuta (Osaka Electro-Communication Univ.)

Session 2　Noyori Conference Hall Entrance　09:00-17:30

Nano-characterization of materials using electron microscopy

Presentation No.	Title, Author(s)
P-2-16 (1288)	**Effect of Sr/Ti Ratio on flash-sintering behaviors of $SrTiO_3$** T. Yoshino, T. Tokunaga and T. Yamamoto (Nagoya Univ.)
P-2-17 (1289)	**Microstructure analysis for WC-12wt%Co alloys by high resolution STEM** T. Itoh, T. Tokunaga and T. Yamamoto (Nagoya Univ.)
P-2-18 (1292)	**Fabrication and analysis of Pt/Co/Ta multilayer disks for investigation of a magnetic chirality** Hiroshi Suzuki, Makoto Kuwahara, Takafumi Ishida, Masahiro Nagao and Koh Saitoh (Nagoya Univ.)
P-2-19 (1295)	**Bandgap measurement of gallium phosphide using electron energy loss spectroscopy in SP-TEM** Kosuke Murayama, Makoto Kuwahara and Kota Aoki (Nagoya Univ.)
P-2-20 (1296)	**Fabrication and Evaluation of Structure Controlled Magnetic Thin Film for TEM Observation** Kousuke Hamanaka, Hiroshi Suzuki, Takafumi Ishida, Makoto Kuwahara and Koh Saitoh (Nagoya Univ.)
P-2-21 (1297)	**Determination of the displacement vector of stacking faults by the phase retrieval of the electron rocking curves** Hiroyuki Ishizuka, Koh Saitoh and Shigeo Arai (Nagoya Univ.)
P-2-22 (1300)	**Development of TEM Specimen Holders with Three Electrodes for In-Situ Observation of Hetero Interfaces in Solid Oxide Fuel Cells** H. Hiroshima (Nagoya Univ.), T. Ishida, T. Tanji (Nagoya Univ.), (GREEN), M. Tomita (Vacuum Device Inc.), K. Higuchi and K. Saitoh (Nagoya Univ.)
P-2-23 (1301)	**Evaluation of Focal-depth Extension Using an Annular Aperture in Aberration-corrected STEM** Takeshi Owaki, Takafumi Ishida and Koh Saitoh (Nagoya Univ.)
P-2-24 (1311)	**Determination of the crystal chirality by convergent-beam electron diffraction using electron vortex beams** Nakayama Shota and Saitoh Koh (Nagoya Univ.)
P-2-25 (1320)	**Transmission electron microscopy structural analysis of sputtered MoS_2 for 3D-LSI** Yuuta Suzuki (Nagoya Univ.), Shin Hirano, Jun'ichi Shimizu, Kentaro Matsuura, Iriya Muneta (Tokyo Institute of Technology), Masahiro Nagao (Nagoya Univ.), Hitoshi Wakabayashi (Tokyo Institute of Technology) and Nobuyuki Ikarashi (Nagoya Univ.)
P-2-26	**Economical and environmentally-friendly process for upgrading quality of zircon concentrate** A. Ramadan, A. Salah, E. Ata, E. Musa, H. Awad, S. Fayed, M. K. Gouda, H. Abdul Fattah, S. A. Salman and A. Atlam (Univ. Nasr City Cairo)

Session 3 IB Building Entrance 10:30-11:30

Nuclear emulsion workshop for fundamental physics and applications

Presentation No.	Title, Author(s)
P-3-1 (1107)	**Development of a Nuclear Emulsion Plate for X-ray Topography** Satoshi Yamaguchi (TOYOTA Central R&D Labs., Inc.) , Naotaka Naganawa and Mitsuhiro Nakamura (Nagoya Univ.)
P-3-2 (1148)	**Development of Time Resolving Multi-Stage Shifter with Nuclear Emulsion for the Balloon-Born Experiment GRAINE 2018** Kenji Kuretsubo, Shigeki Aoki, Keita Ozaki, Haruka Matsumoto, Toshitsugu Marushima, Fukashi Mizutani, Motoya Nakamura, Satoru Takahashi, Kyohei Yamada (Kobe Univ.) and Hiroki Rokujo (Nagoya Univ.)
P-3-3 (1163)	**State of preparations for GRAINE experiment in 2018** Y. Nakamura, H. Rokujo, H. Kawahara, and M. Morishita (Nagoya Univ.)
P-3-4 (1270)	**Development of next high-speed scanning system for nano tracks in fine-grained nuclear emulsion** Ryuta Kobayashi, Toshiyuki Nakano, Tatsuhiro Naka, Masahiro Yoshimoto and Atsuhiro Umemoto (Nagoya Univ.)
P-3-5 (1271)	**A development of time-resolved emulsion detector by multi-stage shifter** Satoru Takahashi, Shigeki Aoki, Keita Ozaki, Kenji Kuretsubo, Haruka Matsumoto, Toshitsugu Marushima, Fukashi Mizutani, Motoya Nakamura, Kyohei Yamada (Kobe Univ.) and Hiroki Rokujo (Nagoya Univ.)
P-3-6 (1324)	**The Hybrid Analysis of Nuclear Emulsion Detector and Scintillation Detector with Time Resolving Multi-Stage-Shifter for the Accelerator Neutrino Experiment NINJA** Toshistugu Marushima, Shigeki Aoki, Kenji Kuretsubo, Satoru Takahashi, Haruka Matsumoto, Kyohei Yamada (Kobe Univ.),Collaboration NINJA (Kobe Univ.), (Kyoto Univ.), (Nagoya Univ.), (The University of Tokyo), (Toho Univ.), (Yokohama National Univ.)
P-3-7 (1330)	**The analysis of Xi absorbing nuclei using beta decay and kinematic fitting** Y. Nagase, S. Kinbara and K. Nakazawa (Gifu Univ.)
P-3-8 (1353)	**Fully Automated Track Following System for the Emulsion Counter Hybrid-Experiment** Ryosuke Goto, Jyunya Yoshida, Masahiro Yoshimoto and Kazuma Nakazawa (Gifu Univ.)
P-3-9 (1354)	**Production and Treatment of Nuclear Emulsion Sheets with Large Scale and Volume** Masaki Ohashi, Kazuma Nakazawa, Kaoru Hoshino, Junya Yoshida, Masahiro Yoshimoto, Sweet May, Aye Moh Moh Thient, Shinji Kinbara, Ryousuke Goto, Yuichi Nagase, Naohiro Muramoto and Ryouta Kuzuya (Gifu Univ.) and J-PARC E07Collaboration
P-3-10 (1355)	**Development of the method for high-precision measurement of nuclear emulsion density to study double hypernuclei** R. Kuzuya, S. Kinbara and K. Nakazawa (Gifu Univ.)
P-3-11 (1356)	**Automatic System for Refreshment applied to Naked “Fresh” Emulsion Sheets** N. Muramoto, M. Ohashi, J. Yoshida, K. Nakazawa (Gifu Univ.)

Session 3　IB Building Entrance　10:30-11:30

Nuclear emulsion workshop for fundamental physics and applications

Presentation No.	Title, Author(s)
P-3-12 (1362)	**Study of binding energies and lifetimes for light mirror hypernuclei (A<5)** May Sweet, Junya Yoshida, Masahiro Yoshimoto and Kazuma Nakazawa (Gifu Univ.)
P-3-13 (Nakamura)	**Measurement of the lower part of PCV of Hamaoka NPP No2 by transmission -type muon radiography with nuclear emulsion** Kunihiro Morishima, Mitsuhiro Nakamura (Nagoya Univ.), Kenji Tsuji and Masataka Ooyama (Chubu Electric Power Co., Inc.)

Session 4 IB Building Entrance 16:00-17:00

X-ray optics and materials science applications with synchrotron light

Presentation No.	Title, Author(s)
P-4-1 (1120)	**Synchrotron Light Analyses for Gold Nanoparticles Fabricated by CsCl Aqueous Solution** C. Tsukada (Japan Atomic Energy Agency), H. Yoshida (Japan Atomic Energy Agency), (TOYAMA Co., Ltd.), S. Ogawa (Nagoya Univ.), A. Yoshigoe (Japan Atomic Energy Agency), S. Yagi (Nagoya Univ.) and T. Yaita (Japan Atomic Energy Agency)
P-4-2 (1168)	**Solution plasma synthesis and XAFS analysis of the hydrogen storage nanoparticles** S. Ogawa, C. Tsukada and S. Yagi (Nagoya Univ.)
P-4-3 (1233)	**Characterization of Crystallinity and Energy Band Alignment of $Ge1-_xSn_x/Ge1-_x-_ySi_xSn_y$ Heterostructure** M. Fukuda, M. Sakashita, M. Kurosawa, O. Nakatsuka, and S. Zaima (Nagoya Univ.)
P-4-4 (1242)	**Pt L_3-edge XAFS Study on Photodeposition Process of Pt Nanoparticles on TiO_2 Surface** Tomoko Yoshida (Osaka City Univ.), Yuji Nakano, Yasuhiro Minoura, Muneaki Yamamoto, Satoshi Ogawa and Shinya Yagi (Nagoya Univ.)
P-4-5 (1248)	**Pressure-induced phase transition of garnet-type lithium-ion conductor $Li_7La_3Zr_2O_{12}$** Eiichi Hirose, Ken Niwa (Nagoya Univ.), Kunimitsu Kataoka, Junji Akimoto (AIST) and Masashi Hasegawa (Nagoya Univ.)
P-4-6 (1250)	**Experimental Investigation of the Structural Behavior In Tin Nitrides under High Pressures** T. Inagaki, K. Niwa and M. Hasegawa (Nagoya Univ.)
P-4-7 (1255)	**High pressure and high temperature synthesis of novel rhenium nitride** Shin Takayama, Ken Niwa and Masashi Hasegawa (Nagoya Univ.)
P-4-8 (1262)	**Nanoscale Elemental Analysis using the SR X-ray Beam Combined with Atomic Force Microscopy (II) Imaging of XANAM** Shushi Suzuki (Nagoya Univ.), Shingo Mukai (Hokkaido Univ.), Wang Jae Chun (Int. Christian Univ.), Masaharu Nomura (KEK-IMSS-PF), and Kiyotaka Asakura (Hokkaido Univ.)
P-4-9 (1275)	**Thomson Scattering Measurement of Helium Detached Plasmas in NAGDIS-II** H. Ohshima, S. Kajita, H. Tanaka, N. Ohno (Nagoya Univ.), H. van der Meiden (Dutch Institute for Fundamental Energy Research) and R. Yasuhara (National Institute for Fusion Science)

Session 4　IB Building Entrance　16:00-17:00

X-ray optics and materials science applications with synchrotron light

Presentation No.	Title, Author(s)
P-4-10 (1277)	**Preparation of Ga_2O_3 and Ag loaded Ga_2O_3 photocatalysts for CO_2 reduction with water** Yu Kawaguchi (Osaka City Univ.), Muneaki Yamamoto (Nagoya Univ.), Akiyo Ozawa and Tomoko Yoshida (Osaka City Univ.)
P-4-11 (1279)	**Study on silver loaded metal oxide photocatalysts proceeding artificial photosynthesis** Yuma Kato (Osaka City Univ.), Muneaki Yamamoto (Nagoya Univ.), Akiyo Ozawa and Tomoko Yoshida (Osaka City Univ.)
P-4-12 (1313)	**Chemical States of Ag Nanoparticles for Effective CO_2 Photoreduction** Muneaki Yamamoto (Nagoya Univ.), Tomoko Yoshida (Osaka City Univ.) and Shinya Yagi (Nagoya Univ.)

Session 5　IB Building Entrance　10:30-11:30

Energy Conversion and Network Systems for Smart Society

Presentation No.	Title, Author(s)
P-5-1 (1030)	**A Control Method of Voltage Source Inverter with Photovoltaic Generation System and Energy Storage** Hiroyuki Nakagawa, Masahide Hojo, Kenji Yamanaka (Tokushima Univ.), Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.)
P-5-2 (1040)	**High-Efficiency DC/DC Charger for Electric Vehicle** Hidehito Matayoshi, Tomonobu Senjyu (Univ. of the Ryukyus) and Toshihisa Funabashi (Nagoya Univ.)
P-5-3 (1054)	**Power Quality Improvement of a Microgrid with Induction Motor by an Inverter Power Supply** Hibiki Kawaguchi, Masahide Hojo, Kenji Yamanaka (Tokushima Univ.), Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.)
P-5-4 (1057)	**Influence of Short-wave Radiation Schemes in WRF on Irradiance Forecasting Accuracy** Naoto Kai, Muneaki Kurimoto, Yusuke Manabe, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.) and Fumichika Uno (National Institute of Advanced Science and Technology)
P-5-5 (1104)	**Low Permittivity Insulator Using Epoxy/ Hollow Silica Nanocomposite** Takuma Yoshida, Muneaki Kurimoto, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.) and Yasuo Suzuoki (Aichi Institute of Technology)
P-5-6 (1105)	**Permittivity Characteristics of Dielectric Elastomer Materials Used for Energy Harvesting** Kento Naya, Muneaki Kurimoto, Toshihisa Funabashi, Takeyoshi Kato (Nagoya Univ.) and Yasuo Suzuoki (Aichi Institute of Technology)
P-5-7 (1106)	**HVDC Grid Interconnection of Photovoltaic Power Generation Facility by DC Method Using Cascaded DC-DC Converter** Ryoya Ohta, Hidehito Matayoshi, Tomonobu Senjyu (Univ. of the Ryukyus) and Toshinisa Funabashi (Nagoya Univ.)
P-5-8 (1144)	**Predictability of extreme forecast error on regional surface solar radiation using multi-center grand ensemble forecast.** Fumichika Uno, Hideaki Ohtake (Meteorological Research Institute), (University of Tsukuba), (University of Oxford) Mio Matsueda (Meteorological Research Institute) and Yoshinori Yamada (University of Tsukuba), (University of Oxford)
P-5-9 (1146)	**Surface Layer and Morphology of Lithium Metal Negative Electrode for Rechargeable Batteries** Hidetoshi Sonoki, Hiroko Kuwata (Mie Univ.), Masaki Matsui (Mie Univ.), (Kobe Univ.) (Japan Science and Technology Agency, PRESTO) and Nobuyuki Imanishi (Mie Univ.)
P-5-10 (1205)	**Research of electric power regeneration using automotive cooling fan (Investigation of causes for efficiency decrease of wind turbine mounted on actual vehicle)** Satoshi Ashizawa, Yutaka Hasegawa, Shinichi Oda and Tatsuo Ushijima (Nagoya Institute of Technology)

Session 5　IB Building Entrance　10:30-11:30

Energy Conversion and Network Systems for Smart Society

Presentation No.	Title, Author(s)
P-5-11 (1326)	**A Study on Demand Response using Air Conditioner System** Kazuho Hasegawa, Shunsuke Horie, Daiki Owaki, Masayoshi Hamanaka, Kazuto Yukita, Yasuyuki Goto, and Toshiro Matsumura (Aichi Institute of Technology)
P-5-12 (1327)	**A New Power Flow Calculation Method Considering Frequency Fluctuation Analysis** Shunsuke Horie, Tadahiro Goda, Kazuto Yukita and Yasuyuki Goto (Aichi Institute of Technology)
P-5-13 (1340)	**Study on control of wind power generator by MPPT using pole number converter and GaN semiconductor** Masayoshi Hamanaka (Aichi Institute of Technology), Takanori Matsuyama (Kashiwa-Kai), Kazuto Yukita, Toshiro Matsumura and Yasuyuki Goto (Aichi Institute of Technology)
P-5-14 (1341)	**Study on a DC Feeding System in a Electric Power System with Distributed Power Supply** Daiki Owaki, Tadashi Hosoe, Kazuto Yukita, Toshiro Matsumura and Yasuyuki Goto (Aichi Institute of Technology)

Session 5 IB Building Entrance 16:00-17:00

Energy Conversion and Network Systems for Smart Society

Presentation No.	Title, Author(s)
P-5-15 (1016)	**Basic design of the combined field sensing system in IT Agriculture.** Takuya Wada, Masatoshi Tamura, Tomoya Ogawa and Katsuhiro Naito (Aichi Institute of Technology)
P-5-16 (1018)	**A Study on Nodes' Operation of Wireless Sensor Networks Using Drones for Precision Agriculture** Tomoya Moribe, Hiraku Okada, Kentoro Kobayashi and Masaaki Katayama (Nagoya Univ.)
P-5-17 (1066)	**Eco-routing problem considering fuel consumption and probabilistic travel time budget** Weiliang Zeng, Tomio Miwa and Takayuki Morikawa (Nagoya Univ.)
P-5-18 (1082)	**Performance Improvement of PLC-based Multiple Machine Control by Selective Transmission of Control Commands** Shun Sawada, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
P-5-19 (1119)	**Adaptive Channel Coding Scheme Based on State Estimation Error for Wireless Feedback Control Systems** Yosuke Miwa, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
P-5-20 (1121)	**Evaluation of influence of packet collision rate variation on consensus control of multi-agent systems** Shunsuke Noro, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
P-5-21 (1125)	**Selection of Multiple Access Schemes Based on Control Quality in Wireless Control over the IEEE 802.15.4 Beacon-enabled Mode** Yushi Uematsu, Kentaro Kobayashi, Hiraku Okada and Masaaki Katayama (Nagoya Univ.)
P-5-22 (1019)	**SO_x Emissions from Oxy-fuel Coal Combustion in a Fluidized Bed** Ryosuke Asai, Yasuaki Ueki, Ryo Yoshie, Ichiro Naruse (Nagoya Univ.)
P-5-23 (1020)	**Behavior of Pyrolysis and Steam Gasification of Various Plastics** Shimpei Matsunaga, Yasuaki Ueki, Ryo Yoshiie, Ichiro Naruse (Nagoya Univ.)
P-5-24 (1026)	**Development of Sprayable Ultra-Fast Response Pressure-Sensitive Paint** Yasuhiro Egami (Aichi Institute of Technology), Ai Natsubori (Toyohashi University of Technology), Takuya Fukuzumi and Yudai Sato (Aichi Institute of Technology)

Session 5　IB Building Entrance　16:00-17:00

Energy Conversion and Network Systems for Smart Society

Presentation No.	Title, Author(s)
P-5-25 (1028)	**Analysis of Curing Behavior of PDMS layer at Single-Molecule Level** Ryo Iwao, Yu Matsuda, Hiroki Yamaguchi and Tomohide Niimi (Nagoya Univ.)
P-5-26 (1050)	**Development of Optical Temperature Distribution Technique for Gas-Liquid Two-Phase Flows** Kohei Ogawa, Yu Matsuda (Nagoya Univ.), Osamu Kawanami (University of Hyogo), Yasuhiro Egami (Aichi Institute of Technology), Hiroki Yamaguchi and Tomohide Niimi (Nagoya Univ.)
P-5-27 (1074)	**Enrichment Behaviors of Trace Elements in Submicron Particles during Coal Gasification process** Shota Atsumi, Yasuaki Ueki, Ryo Yoshiie and Ichiro Naruse (Nagoya Univ.)
P-5-28 (1077)	**Capture and Oxidation Mechanism of Elemental Mercury in Coal Combustion Gas** Masaya Sakaida, Yasuaki Ueki, Ryo Yoshiie, Ichiro Naruse (Nagoya Univ.)
P-5-29 (1079)	**Modeling of Coalescence and Detachment Behaviors of Ash Particle in Pulverized Coal Combustion** Tatsuya Matsuyama, Yasuaki Ueki, Ryo Yoshiie and Ichiro Naruse (Nagoya Univ.)
P-5-30 (1157)	**Development of a Micro-Hydraulic Turbine Excellent in Foreign Matter Passage Performance** Akira Kaneko, Satoshi Honda, Tomomi Uchiyama, Tomohiro Degawa (Nagoya Univ.) and Tomoko Okayama (Taisho Univ.), Korakanh Pasomsouk (National Univ. of Laos)
P-5-31 (1041)	**Ash Particle Properties during Combustion or Gasification of Coke** Yasuaki Ueki, Ryo Yoshiie and Ichiro Naruse (Nagoya Univ.)
P-5-32	**Catalytic Gasification of Oil Palm Frond Biomass in Supercritical Water for Hydrogen Production** M. S. Mastuli (Univ. Putra), (Univ. Teknologi MARA) , N. Kamarulzaman (Univ. Teknologi MARA) and Y. H. Taufiq-Yap (Univ. Putra)

Session 6　IB Building Entrance　16:00-17:00

Low-carbon energy and eco-cycle system analysis and assessment

Presentation No.	Title, Author(s)
P-6-1 (1024)	**Modeling the Effect of Solar UV Radiation on Plant Litter Decomposition** Javier Martínez-López and María Almagro (BC3 Basque Centre for Climate Change)
P-6-2 (1063)	**PubChemQC Project: a Large-Scale First-Principles Electronic Structure Database for Data-driven Chemistry** Maho Nakata and Tomomi Shimazaki (RIKEN)
P-6-3 (1204)	**Study on Aerodynamic Transient Characteristics due to Blade Pitch Control of Horizontal Axis Wind Turbine** Ribero Nakamura, Yutaka Hasegawa, Shinya Otsuka and Tatsuo Ushijima (Nagoya Institute of Technology)
P-6-4 (1206)	**Numerical Study on Structural System Oscillation for Horizontal Axis Wind Turbine Rotors with Multi Body Dynamics** Tatsuya Urano, Yutaka Hasegawa and Tatsuo Ushijima (Nagoya Institute of Technology)
P-6-5 (1207)	**Study on compression work reduction of centrifugal compressor for Micro Gas Turbine system using evaporative cooling method** Kazuki Nishiyama, Yutaka Hasegawa (Nagoya Institute of Technology), Yoshihiro Kojima (Nagoya Univ.), Tatsuo Ushijima (Nagoya Institute of Technology)
P-6-6 (1269)	**Evaluation of Energy Consumption and Quality of Aerial Photogrammetry using UAV and Helicopter** Satoru Sugita, Hiromichi Fukui (Chubu Univ.) and Kiichiro Hayashi (Nagoya Univ.)
P-6-7 (1272)	**Carbon Stock and Ecosystem Service Mapping of Various Land Use Types by Integrated ES Modelling in Aichi, Japan** Wataru Kobayashi, Kiichiro Hayashi (Nagoya Univ.) and Makoto Ooba (National Institute of Environmental Studies)
P-6-8 (1280)	**Performance Investigation for improving energy efficiency of Industrial process-Chemical heat pumps in heat upgrading cycle of $CaCl_2$ hydration.-** Takehiro Esaki, Atsuhiro Ichinose and Noriyuki Kobayashi (Nagoya Univ.)
P-6-9 (1281)	**Relationship between Particle Size Distribution and Absorption Ability of Principal Ions in Clinker Ash** Takuma Uchida, Hiromu Okazawa, Tomonori Fujikawa (Tokyo University of Agriculture)

Session 6　IB Building Entrance　16:00-17:00

Low-carbon energy and eco-cycle system analysis and assessment

Presentation No.	Title, Author(s)
P-6-10 (1293)	**Enhancement of microbial nitrate removal by humin-assisted bioelectrochemical system** S. Deguchi, T. Awata and A. Katayama (Nagoya Univ.)
P-6-11 (1304)	**Optimal Design of Woody Biomass Harvesting System Based on a Spatial Information Analysis of Forest Resources** Kosuke Okano, Takaaki Furubayashi and Toshihiko Nakata (Tohoku Univ.)
P-6-12 (1305)	**Analyzing Food and Energy Nexus Based on Supply Resources, Material Flows, and Prices** Saki Kawashima, Takaaki Furubayashi and Toshihiko Nakata (Tohoku University)
P-6-13 (1316)	**Improvement in Stability of Surfactant-Free Water-in-Fuel Emulsion Prepared Ultrasonically Using Oxygen-Supersaturated Water** Tomohiro Itoh, Masaki Ueda, Kohhei Suzuki and Yoshihiro Kojima (Nagoya Univ.)
P-6-14 (1322)	**Ultrasonic Degradation of Chitosan in Aqueous Solution** Kohhei Suzuki, Aya Nakanishi, Tomohiro Itoh and Yoshihiro Kojima (Nagoya Univ.)

UHVEM　Noyori Conference Hall Entrance　09:00-17:30

New Possibilities for Ultra-High Voltage Electron Microscopy -In Commemoration of the 45th Anniversary of the HVEM Laboratory at Nagoya University-

Presentation No.	Title, Author(s)
P-UHVEM-1 (1014)	**High-Voltage Electron Microscopy Tomography and Structome Analysis of Unique Spiral Bacteria from the Deep Sea** Masashi Yamaguchi (Chiba Univ.), Hiroyuki Yamada (The Research Institute of Tuberculosis), Kimitaka Higuchi, Yuta Yamamoto, Shigeo Arai (Nagoya Univ.), Kazuyoshi Murata (National Institute for Physiological Sciences) Yuko Mori, Hiromitsu Furukawa (System in Frontier Inc.), Mohammad Shorif Uddin (Jahangirnagar Univ.) and Hiroji Chibana (Chiba Univ.)
P-UHVEM-2 (1081)	**Analysis of non-linear electron transmittance due to multiple scatterings and correction of artificial density in tomography reconstructions** Y. Ubata (Osaka Univ.), J. Yamasaki (Osaka Univ), (Nagoya Univ.), K. Murata (National Institute for Physiological Sciences), R. Kuwahara (Okinawa Institute of Science and Technology Graduate Univ.), K. Takahashi, S. Inamoto (Toray Research Center, Inc.), H. Yasuda and H. Hori (Osaka Univ.)
P-UHVEM-3 (1100)	**HVEM study of the microstructures of nanoporous copper catalysts with nano twin boundary.** Kazue Nishimoto, Takayuki Sakurai, Satoshi Kameoka, An Pang Tsai (Tohoku Univ.), Shigeo Arai, Koh Saitoh (Nagoya Univ.)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-1 (1002)	**Hydrogen absorption of composites prepared from $Zr_{65}Pd_{35}$ and $Zr_{65}Pd_{30}Pt_5$ amorphous alloys** Masakuni Ozawa, Naoya Katsuragawa, Masatomo Hattori, Toshinobu Yogo (Nagoya Univ.), Shin-ichi Yamamura (Tohoku Univ.)
P-iLIM-2-2 (1005)	**Immobilization of Polyrotaxanes onto Ti for Modulating Cell Function** Yoshinori Arisaka, Atsushi Tamura, Yusuke Tsutsumi, Takao Hanawa and Nobuhiko Yui (Tokyo Medical and Dental Univ.)
P-iLIM-2-3 (1006)	**Synthesis of Tailor-Made Ceramic Nanocrystals by Organic Ligand-Assisted Hydrothermal Method towards Bio-Medical Applications** Satoshi Ohara (Osaka Univ.), Kosuke Nozaki, Akiko Nagai and Kimihiro Yamashita (Tokyo Medical and Dental Univ.)
P-iLIM-2-4 (1007)	**Stereolithographic Additive Manufacturing of Bulky Ceramic Components with Micro Geometric Structures** Soshu Kirihara (Osaka Univ.)
P-iLIM-2-5 (1010)	**Relationship among Marginal Reproducibility, Machinability and Mechanical Property of Zirconia Blank for CAD/CAM System** Naohiko Iwasaki, Maho Shiozawa, Yusuke Ymamaoto, Tetsuya Suzuki and Hidekazu Takahashi (Tokyo Medical and Dental Univ.)
P-iLIM-2-6 (1011)	**Numerical Study on Joining Process for Dissimilar Pipe Joint of Low Activation Ferritic Steels** Hisashi Serizawa, Masakazu Murakami (Osaka Univ.), Takuya Nagasaka (National Institute for Fusion Science) and Hiroyasu Tanigawa (National Institute for Quantum and Radiological Science and Technology)
P-iLIM-2-7 (1027)	**Amino Acid-aided Synthesis of a Nanoperovskite Catalyst for Aerobic Oxidation** Keigo Kamata (Tokyo Institute of Technology), (PRESTO), (JST), Kosei Sugahara (Tokyo Institute of Technology), Satoshi Muratsugu (PRESTO), (JST), (Nagoya Univ.) and Michikazu Hara (Tokyo Institute of Technology), (ALCA), (JST)
P-iLIM-2-8 (1032)	**Synthesis of surface-modified nanoporous Pd from PdNiP metallic glass** K. Higuchi, K. Hayashi, W. Sakamoto (Nagoya Univ.), T. Wada H. Kato (Tohoku Univ.) and T. Yogo (Nagoya Univ.)
P-iLIM-2-9 (1033)	**Synthesis of organic-inorganic hybrid hollow nanoparticles for gene delivery** Takuma Maruhashi, Koichiro Hayashi, Toshinobu Yogo, Wataru Sakamoto (Nagoya Univ.), Fuyuko Watanabe and Tetsuo Sasano (Tokyo Medical and Dental Univ.)
P-iLIM-2-10 (1037)	**Antibacterial and hydrophilic properties of anodized Ti-Ag alloy** Joe Kitazawa, Kensuke Kuroda , Masazumi Okido (Nagoya Univ.) and Naofumi Ohtsu (Kitami Institute of Technology)
P-iLIM-2-11 (1047)	**Protein Adsorptivity and Osteoconductivity of WCA-controlled Titanium Implants** Yusuke Mori, Kensuke Kuroda and Masazumi Okido (Nagoya Univ.)
P-iLIM-2-12 (1048)	**Biocompatibility improvement of PEEK by surface modification** Hiroki Akiyama, Kensuke Kuroda , Masazumi Okido (Nagoya Univ.) and Hiroyasu Kanetaka (Tohoku Univ.)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-13 (1058)	**Molten Pool Behavior and Mechanism of Biomedical Co-Cr-Mo Alloy in Powder-bed Electron Beam Additive Manufacturing** Yufan Zhao, Yuichiro Koizumi, Kenta Aoyagi, Kenta Yamanaka, Daixiu Wei and Akihiko Chiba (Tohoku Univ.)
P-iLIM-2-14 (1060)	**Synthesis of Sm-Co Alloy Nanoparticles by the Solvated Electrons in Sodium-Ammonia Solution** Osamu Terakado (National Institute of Technology, Hakodate College), Masataka Shiino, Haruki Tani and Masahiro Hirasawa (Nagoya Univ.)
P-iLIM-2-15 (1062)	**Improvement of photocurrent properties of Al-doped ZnO/$BiFeO_3$ layered thin films prepared by chemical solution deposition process** Shohei Tsuchimori, Koichiro Hayashi, Wataru Sakamoto (Nagoya Univ.), Isamu Yuitoo, Teruaki Takeuchi (Waseda Univ.) and Toshinobu Yogo (Nagoya Univ.)
P-iLIM-2-16 (1067)	**Solvothermal Synthesis of spinel oxide for lithium-ion buttery** Kazuhiro Maeda, Koichiro Hayashi, Wataru Sakamoto and Toshinobu Yogo (Nagoya Univ.)
P-iLIM-2-17 (1075)	**Fabrication of Porous Titania Thin Layers Using Well-Defined Titania Particles** T. Kojima, Y. Goshima, M. Tamba, N. Uekawa (Chiba Univ.) , W. Sakamoto and T. Yogo (Nagoya Univ.)
P-iLIM-2-18 (1076)	**Bioactivity Improvement of Biomedical Co-Cr-Mo Alloy by Surface Modification** Daixiu Wei, Yuichiro Koizumi (Tohoku Univ.), Kensuke Kuroda, Masazumi Okido (Nagoya Univ.), Akihiko Chiba (Tohoku Univ.)
P-iLIM-2-19 (1080)	**Free-formable Microfluidic Organic Light Emitting Diode Ribbons Using Liquid Organic Semiconductors** A. Nobori, H. Kuwae, N. Kobayashi, T. Kasahara (Waseda Univ.), J. Oshima (Nissan Chemical Industries, LTD.), S. Shoji and J. Mizuno (Waseda Univ.)
P-iLIM-2-20 (1091)	**Observation of Large Magnetoresistance in Single Crystals of Transition Metal Pnictides MCu_2P_2 (M = Zr, Hf)** X. Liang, H. Namiki, R. Yano, T. Takahashi, M. Murase, and T. Sasagawa (Tokyo Institute of Technology)
P-iLIM-2-21 (1094)	**Electrolytic leaching of Rare Earth Element from Neodymium Magnet Using Molten Salt** M. Wakita, T. Ito, T. Hagio, Y. Kamimoto, and R. Ichino (Nagoya Univ.)
P-iLIM-2-22 (1097)	**Synthesis of Magnetic FAU-type Zeolite Using Seed Assisted Method and Its Adsorption Properties** T. Hagio, K. Yamaoka, Y. Kamimoto and R. Ichino (Nagoya Univ.)
P-iLIM-2-23 (1113)	**Exploration of Magnetically Induced Weyl semimetals in homologous phases of layered chalcogenides** Masayuki Murase and Takao Sasagawa (Tokyo Institute of Technology)
P-iLIM-2-24 (1133)	**Antibacterial Activity of Ag-Containing Amorphous Calcium Phosphate Films Fabricated by RF Magnetron Sputtering** K. Ueda, B. Inoue, K. Ito, K. Ogasawara and T. Narushima (Tohoku Univ.)
P-iLIM-2-25 (1145)	**Effects of Surface Modification on Lignocellulosic Porous Carbon Materials by Vacuum Ultraviolet Treatment** Seren Maeda, Hiroyuki Kuwae, Shuichi Shoji and Jun Mizuno (Waseda Univ.)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-26 (1152)	**Fabrication and piezoelectric properties of Mn-doped $NaNbO_3$-$BaTiO_3$ ceramics** Naoto Yabuuchi, Tatsuro Murata, Koichiro Hayashi, Wataru Sakamoto and Toshinobu Yogo (Nagoya Univ.)
P-iLIM-2-27 (1158)	**Hydrothermal treatment of Mg alloys to improve hydrophilicity for implants** Liwei ZHU, Kensuke Kuroda and Masazumi Okido (Nagoya Univ.)
P-iLIM-2-28 (1159)	**Solvothermal Synthesis and Characterization of Sodium-Vanadium Oxide as Cathode Material for Lithium Ion Battery** J. Umeda (Aichi Center for Industry and Science Technology), T. Asano, K. Hayashi, W. Sakamoto and T. Yogo (Nagoya Univ.)
P-iLIM-2-29 (1161)	**Innovative Development of Production and Evaluation Technologies of Silicon Compounds and Their Thin Films for Advanced Fields** K. Harada and J. Kumagai (Nagoya Univ.)
P-iLIM-2-30 (1164)	**Evaluation of the Mechanical Properties of a Faceguard Made of Fiber-Reinforced Thermoplastics** Takahiro Wada, Hiroshi Churei, Mako Yokose, Haruka Takayanagi, Naohiko Iwasaki, Toshiaki Ueno, Hidekazu Takahashi and Motohiro Uo (Tokyo Medical and Dental Univ.)
P-iLIM-2-31 (1169)	**Multi-Domain Structures in Gallium Ferrite Ferroelectric/Ferrimagnetic Thin Films** Shintaro Yasui, Tsukasa Katayama, Yosuke Hamasaki (Tokyo Institute of Technology), Takahisa Shiraishi, Akihiro Akama, Takanori Kiguchi (Tohoku Univ.),and Mitsuru Itoh (Tokyo Institute of Technology)
P-iLIM-2-32 (1170)	**Growth of perpendicularly magnetized Mn-based layered compound thin films on $BaTiO_3$(001)** Tomoyasu Taniyama, Takamasa Usami, Mitsuru Itoh (Tokyo Institute of Technology), Rie Umetsu (Tohoku Univ.), Yoshito Nozaki, Isamu Yuito, Teruaki Takeuchi and Hiroshi Kawarada (Waseda Univ.)
P-iLIM-2-33 (1171)	**Investigation of Preparation for Mn-Bi using Electrodeposition and Their Magnetic Properties** Mikiko Saito (Waseda Univ.) and R. Y. Umetsu (Tohoku Univ.)
P-iLIM-2-34 (1172)	**Nanoporous Electrode Formed by Electrodeposition and Dealloying on Aligned CNT Films** Mikiko Saito, Jun Mizuno (Waseda Univ.), Hiroshi Nishikawa (Osaka Univ) and Michiko Kusunoki (Nagoya Univ.)
P-iLIM-2-35 (1173)	**Surface Cavity Shape and Pressure Drop by Soot Deposition in model DPF filter** Maki Nakamura and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-36 (1177)	**Preparation of ICD induced cancer cells and activation of immune system** Tsuyoshi Kimura, Takaaki Kubota (Tokyo Medical and Dental Unive), Naoko Nakamura (Tokyo Medical and Dental Unive), (Shibaura Institute of Technology), Yoshihide Hashimoto and Akio Kishida (Tokyo Medical and Dental University)
P-iLIM-2-37 (1178)	**Catalytic Electrophilic Fluorination of Aromatic Compounds** Yusuke Kita, Shunsuke Shigetani (ToKyo Institute of Technology) and Michikazu Hara (ToKyo Institute of Technology), (ALCA), (JST)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-38 (1181)	**First-Principles Study of Strain-Induced Metal-Insulator Transition in a Lanthanum Nickelate Layered Perovskite** Yasuhide Mochizuki (Tokyo Institute of Technology), Hirofumi Akamatsu (Kyushu Univ.), Yu Kumagai (Tokyo Institute of Technology) and Fumiyasu Oba (Tokyo Institute of Technology)
P-iLIM-2-39 (1182)	**Formation of Ceria-Based Nanoparticle on Single Crystal Substrate** R. Kashima, T. Karai, T. Hattori, M. Hattori and M. Ozawa (Nagoya Univ.)
P-iLIM-2-40 (1183)	**Diesel Soot Combustion on Using Ceria Zirconia Composite Catalysts** Fukutaro Mizuno, Masatomo Hattori, Koji Yokota and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-41 (1184)	**Preparation and catalytic properties of composite materials by heating Pd-Zr glass** Atsuhiko Masuda, Naoya Katsuragawa, Masatomo Hattori and Masaki Ozawa (Nagoya Univ.)
P-iLIM-2-42 (1188)	**Separation of Chlorobenzenes from Water and Their Dechlorination Using an Admicellar Sorbent Impregnated with Fe/Ni-Particles** Hiroaki Matsumiya and Shunsuke Ijiri (Nagoya Univ.)
P-iLIM-2-43 (1189)	**Crystal Growth of Ultrathin Si and Ge Layers on Ag Surfaces** Masashi Kurosawa, Akio Ohta, Masaaki Araidai and Shigeaki Zaima (Nagoya Univ.)
P-iLIM-2-44 (1190)	**Regulation of periodontal ligament-derived cell morphology by type III collagen-coated hydroxyapatite** K. Nozaki, K. Fujita, N. Horiuchi, K. Yamashita, H. Miura, A. Nagai and K. Itaka (Tokyo Medical and Dental Univ.)
P-iLIM-2-45 (1192)	**Current Conduction in Al_2O_3 Films Formed by Atomic Layer Deposition Using Water and Ozone as Oxidant** A. Hiraiwa (Waseda Univ.), (Nagoya Univ.), S. Okubo, D. Matsumura (Waseda Univ.), and H. Kawarada (Waseda Univ.)
P-iLIM-2-46 (1193)	**Synthesis of Spherical Magnetic Nanoclusters and their Magnetorheological Effect** Hiroya Abe (Osaka Univ), Kazuyoshi Sato (Gunma Univ.), Yoshikazu Suzuki (Univ. of Tsukuba) and Takashi Naka (Natinal Institute of Materials Science)
P-iLIM-2-47 (1194)	**Effect of the cooling rate on the mechanical properties of Ti-Ni-Cu-Zr based crystalglassy composites** Jing Jiang, Hidemi Kato and Dmitri V. Louzguine-Luzgin (Tohoku Univ.)
P-iLIM-2-48 (1195)	**Fragility and Crystallization Behavior of $Fe_{40}Co_{35}P_{10}C_{10}B_5$ Metallic Glass** Xiaoyu Liang, Parmanand Sharma and Hidemi Kato (Tohoku Univ.)
P-iLIM-2-49 (1196)	**Preparation and hydrogen storage properties of Pd-Pt nanoparticles** Takamasa Matsubara, Masatomo Hattori and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-50 (1197)	**Formation of $CeAlO_3$ interlayer on CeO_2 $NP_S Al_2O_3(0001)$ structure** Takashi Hattori and Masakuni Ozawa (Nagoya Univ.)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-51 (11978)	**Effect of platinum on core-shell type CeO_2/ZrO_2 catalyst** Masato Misaki, Masaki Iwakawa, Koji Yokota and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-52 (1199)	**Preparation and hydrogen storage properties of Pd-base nanocomposite particles** Shoji Ando, Hitoshi Kato and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-53 (1200)	**Effects of europium addition on fundamental catalytic properties of ceria** Masataka Kitagawa and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-54 (1201)	**Preparation and photoemission properties of Eu-doped CeO_2 nanoparticles** Masashi Matsumoto, Yusuke Yoshimura and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-55 (1202)	**Soot combustion on CeO_2 nanoparticle catalysts** Keita Nakamura, Koji Yokota and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-56 (1203)	**Preparation of Alumina-Ceria-Zirconia Composite Nanoparticles and Catalytic Performance** Naoki Kadowaki, Masatomo Hattori and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-57 (1208)	**Calcification of preosteoblasts cultured on titanium with periodic micron/nano-groove topography produced with femtosecond laser irradiation** Peng Chen (Tokyo Medical and Dental Univ.), Masahiro Tsukamoto (Osaka Univ.), Togo Shinonaga (Okayama Univ.), Yusuke Tsutsumi, Maki Ashida, Hisashi Doi and Takao Hanawa (Tokyo Medical and Dental Univ.)
P-iLIM-2-58 (1209)	**Fabrication of Tetragonal $Sr_{1-x}Ba_xVO_3$ Thin Film with d^1 Configuration** H. Kyokane, K. Shimizu, K. Shigematsu (Tokyo Institute of Technolgy), H. Hojo (Tokyo Institute of Technolgy), (Kyushu Univ.) and M. Azuma (Tokyo Institute of Technolgy)
P-iLIM-2-59 (1211)	**Numerical investigations on the stress distribution around local inclusions** R. Fincato and S. Tsutsumi (Osaka Univ.)
P-iLIM-2-60 (1212)	**Corrosion Behavior of Titanium under Drying Thin Electrolyte Layer Simulating Oral Cavity Environment** Yusuke Tsutsumi, Maki Ashida, Peng Chen, Hisashi Doi and Takao Hanawa (Tokyo Medical and Dental Univ.)
P-iLIM-2-61 (1213)	**Mouthguard Biosensor Integrated with BLE Telemetry System for Monitoring Human Oral Information** Koji Toma, Keisuke Tomoto, Zhiwei Zhang, Hiroki Nitta, Takahiro Arakawa, Shuhei Takeuchi, Toshiaki Sekita (Tokyo Medical and Dental Univ.), Yasuhiro Iwasaki (Kansai Univ.), Shunsuke Minakuchi and Kohji Mitsubayashi (Tokyo Medical and Dental Univ.)
P-iLIM-2-62 (1214)	**Novel amorphous oxide semiconductor materials for thin-film transistors and light-emitting devices** Toshio Kamiya (Tokyo Tech.), (Waseda Univ.), Naoto Watanabe (Tokyo Tech.), Junghwan Kim (Waseda Univ.), Keisuke Ide (Tokyo Tech.), Hidenori Hiramatsu, Hideo Hosono (Tokyo Tech.), (Waseda Univ.)
P-iLIM-2-63 (1215)	**Thermopower analysis of metal-insulator transition in epitaxially strained $LaTiO_3$ thin films** Takayoshi Katase (Tokyo Institute of Technology), (Japan Science and Technology Agency) Keisuke Ide, Hidenori Hiramatsu, Hideo Hosono and Toshio Kamiya (Tokyo Institute of Technology)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-64 (1216)	**Effects of film microstructures on operation characteristics of amorphous In-Ga-Zn-O thin-film transistors** Keisuke Ide, Masato Ota, Takayoshi Katase (Tokyo Tech.), Kosuke Takenaka, Yuichi Setsuhara (Osaka Univ.), Atsushi Hiraiwa, Hiroshi Kawarada (Waseda Univ.), Hidenori Hiramatsu, Hideo Hosono and Toshio Kamiya (Tokyo Tech.), (Osaka Univ.)
P-iLIM-2-65 (1217)	**Phase Transition of Water Absorbed in Nanopores of HKUST-1** Hitoshi Kawaji, Tomokazu Komiyama and Suguru Kitani (Tokyo Institute of Technology)
P-iLIM-2-66 (1224)	**Effect of sintering conditions on the formation of aluminum titanate prepared by spark plasma sintering** Fumito Endo, Mettaya Kitiwan and Takashi Goto (Tohoku Univ.)
P-iLIM-2-67 (1228)	**Application of Friction Stir Processing to Weld Toe** Yoshikazu Danno, Hajime Yamamoto, Kazuhiro Ito, Yoshiki Mikami and Kazuyuki Kohama (Osaka Univ.)
P-iLIM-2-68 (1229)	**Heavy n- and p-type doping for polycrystalline $Ge_{1-x}Sn_x$ layers using pulsed laser annealing in water** K. Takahashi, M. Kurosawa (Nagoya Univ.), (Japan Science and Technology Agency), H. Ikenoue (Kyushu Univ.), M. Sakashita, O. Nakatsuka and S. Zaima (Nagoya Univ.)
P-iLIM-2-69 (1230)	**Preparation of SiAlON layer by laser chemical vapor deposition** Takumi Nakano, Hirokazu Katsui and Takashi Goto (Tohoku Univ.)
P-iLIM-2-70 (1231)	**Preparation of SiO_2 Films by Laser-Plasma Hybrid CVD** Akisumi Kunimoto, Hirokazu Katsui and Takashi Goto (Tohoku Univ.)
P-iLIM-2-71 (1232)	**Effect of Plasma Electrode Diameter to Droplet Temperature in Plasma MIG Welding** Sarizam Bin Mamat, Shinichi Tashiro and Manabu Tanaka (Osaka Univ.)
P-iLIM-2-72 (1234)	**Electroless Gold Plating over Platinum Nanogap Electrodes** Yutaka Majima, YoonYoung Choi, Ain Kwon and Yasuo Azuma (Tokyo Institute of Technology)
P-iLIM-2-73 (1237)	**Non-Viral Gene Transduction into Cardiomyocyte Using Apatite Nanoparticle** Shuhei Ishii, Ai Oono, Wakana Nakamura, Yu Natsume, Tetsushi Furukawa, Akiko Nagai and Tetsuo Sasano (Tokyo Medical and Dental Univ.)
P-iLIM-2-74 (1239)	**Synthesis of Graphite Encapsulated Ni Nanoparticles as the Catalyst by Rotary Chemical Vapor Deposition** S. Nakamura (Sumitomo Metal Mining Co., Ltd.), H. Katsui and T. Goto (Tohoku Univ.)
P-iLIM-2-75 (1243)	**Microstructural and Mechanical properties of Titanium with Solid-Solution Elements by Powder Metallurgy Process** Junko Umeda, Shota Kariya, Mizuki Fukuo, and Katsuyoshi Kondoh (Osaka Univ.)
P-iLIM-2-76 (1245)	**Optimize The Microstructure and Mechanical Properties of High Pressure Torsion Processed Co-Cr-Mo Alloy by Short Annealing** Huihong Liu (Osaka Univ.), Murat Isik, Mitsuo Niinomi (Tohoku Univ.), Peng Chen, Takao Hanawa (Tokyo Medical and Dental Univ.), Tomoya Nagira and Hidetoshi Fujii (Osaka Univ.)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-77 (1246)	**SiC-TiC Composite Thin Films Grown by Radiofrequency Magnetron Sputtering** Chisaki Hiwatari, Tadashi Shitota, Kazuo Shinozaki and Toshiyuki Ikoma (Tokyo Institute of Technology)
P-iLIM-2-78 (1249)	**Microstructure analysis and surface treatment of carbon nanotubes for bonding to Cu** Omid Mokhtari (Osaka Univ.), Wataru Norimatsu, Keita Matsuda, Michiko Kusunoki (Nagoya Univ.), Jun Mizuno (Waseda Univ.) and Hiroshi Nishikawa (Osaka Univ.)
P-iLIM-2-79 (1251)	**Feasibility of indirect osteoblast differentiation by liposomal clodronate** Emi Okada, Hidemi Nakata, Maiko Yamamoto, Shohei Kasugai and Shinji Kuroda (Tokyo Medical and Dental Univ.)
P-iLIM-2-80 (1256)	**Glass-to-glass Anlodically-bonded Interfaces Whose Light Transmittance and Electric Conductivity Changes from Area to Area** Makoto Takahashi (Osaka Univ.)
P-iLIM-2-81 (1258)	**Tissue-Specific Delivery of Nucleotide and Protein using Hollow Hybrid Nanoparticle** Fukuyo Watanabe, Shuhei Ishii, Tetsushi Furukawa (Tokyo Medical and Dental Univ.), Takuma Maruhashi, Koichiro Hayashi (Nagoya Univ.) and Tetsuo Sasano (Tokyo Medical and Dental Univ.)
P-iLIM-2-82 (1259)	**Electrical characteristics in Ni nanogap electrodes with asymmetric width under application of magnetic field** Yasuo Azuma and Yutaka Majima (Tokyo Institute of Technology)
P-iLIM-2-83 (1260)	**Relationship between the Composition and Thermal Conductivity for Ni_3Al-Ni_3V Dual Two-phase Intermetallic Alloys** S. Sembosh, Y. Kaneno, A. Iwase (Tohoku Univ.), (Osaka Prefecture Univ.), T. Takasugi (Osaka Prefecture Univ) and Y. Kawahito (Osaka Univ.)
P-iLIM-2-84 (1263)	**Mechanical properties of Co-added AuCuAl biomedical shape memory alloys** Hideki Hosoda, Koki Yamaji, Tsuyoshi Koida (Tokyo Institute of Technology), Kenji Goto (Tokyo Institute of Technology) (Tanaka Kikinzoku Kogyo K. K.), Hiroyasu Kanetaka (Tohoku Univ.), Akira Uise, Masaki Tahara and Tomonari Inamura (Tokyo Institute of Technology)
P-iLIM-2-85 (1264)	**Bioactive Nanostructured Ceramic Layer Fabricated on Ti-based Bulk Metallic Glass Having Antibacterial Property** N. Matsushita, T. Ikoma (Tokyo Institute of Technology), K. Kuroda (Nagoya Univ.), T. Wada, H. Kato (Tohoku Univ.), M. Honda (Meiji Univ.), T. Kishi and T. Yano (Tokyo Institute of Technology)
P-iLIM-2-86 (1265)	**Phase constitution and mechanical properties of Ti-Cr based biomedical alloys** Masaya Iwasaki, Masaki Tahara, Tomonari Inamura and Hideki Hosoda (Tokyo Institute of Technology)
P-iLIM-2-87 (1266)	**Solid solution of chromium–vanadium diboride and its eutectics with silicon carbide by melt-solidification** Hirokazu Katsui, Kishin Morita and Takashi Goto (Tohoku Univ.)
P-iLIM-2-88 (1268)	**Effect of Al addition on phase constitution of Ti–3Mo–6Sn biomedical shape memory alloys** Ryosuke Ibaki, Kazuki Endoh (Tokyo Institute of Technology) (JFE Steel Co., Ltd.), Masaki Tahara, Tomonari Inamura and Hideki Hosoda (Tokyo Institute of Technology)

iLIM-2 ES 0103 15:45-17:00

2nd International Symposium on Creation of Life Innovation Materials for Interdisciplinary and International Researcher Development (iLIM-2)

Presentation No.	Title, Author(s)
P-iLIM-2-89 (1273)	**Analysis of Elementary Reactions at Oxidative and Reductive Sites of Titanium Oxide with Adsorbed Water by ESR spectroscopy** J. Kumagai, T. Sawai (Nagoya Univ.), T. Yoshida (Osaka City Univ.) and H. Yoshida (Kyoto Univ.)
P-iLIM-2-90 (1283)	**Annealing Decay Behavior of Ti^{3+} Produced on Titanium Oxide Photocatalysts with Alcohols Observed by ESR spectroscopy** Yasunori Uto, Hiroyuki Sahashi (Nagoya Univ.), Tomoko Yoshida (Osaka City Univ.), Hisao Yoshida (Kyoto Univ.), Jun Kumagai (Nagoya Univ.)
P-iLIM-2-91 (1286)	**Evaluation of osteoconductivity on nitrogen-doped TiO_2 scales formed by oxynitridation of Ti using MC3T3-E1 cell** M. Furuya (Tohoku Univ.), M. Hashimoto, S. Kitaoka (Japan Fine Ceramics Center) and H. Kanetaka (Tohoku Univ.)
P-iLIM-2-92 (1287)	**Material properties and fitting accuracy evaluation of resin for a 3D printer** Rui Wang , Hiroyasu Kanetaka , Kotone Yokota and Masahiko Kikuchi (Tohoku Univ.)
P-iLIM-2-93 (1290)	**A new HAp coating method for a PEEK surface** Hiroyasu Kanetaka (Tohoku Univ.), Kenta Igarashi and Kensuke Kuroda (Nagoya Univ.)
P-iLIM-2-94 (1308)	**Numerical calculation of energy band offset of $Si_{1-x}Sn_x$ by density functional calculation** Yuki Nagae (Nagoya Univ.), Masashi Kurosawa (Nagoya Univ.), (Japan Science and Technology Agency), Masaaki Araidai, Osamu Nakatsuka, Kenji Shiraishi and Shigeaki Zaima (Nagoya Univ.)
P-iLIM-2-95 (1317)	**Development of Low-Temperature Plasma Process for High Quality Functional Films Formation** Yuichi Setauhara, Kosuke Takenaka, Giichiro Uchida (Osaka Univ.), Keisuke Ide and Toshio Kamiya (Tokyo Institute of Technology)
P-iLIM-2-96 (1318)	**Functionalization of Organic Material Surfaces for Development of Functional Materials** Yuichi Setsuhara, Kousuke Takenaka and Giichiro Uchida (Osaka Univ.)
P-iLIM-2-97 (1319)	**Oxidation Reaction on Non-Precious Metal Catalysts** Masatomo Hattori (Nagoya Univ.), Masaaki Haneda (Nagoya Institute of Technology) and Masakuni Ozawa (Nagoya Univ.)
P-iLIM-2-98 (1371)	**Effect of Ti surface dielectric constant on periodic nanostructures formation by femtosecond laser irradiation** Takahiro Oga, Masahiro Tsukamoto, Yuji Sato, Keisuke Takenaka and Satoru Asai (Osaka Univ.)
P-iLIM-2-99 (1372)	**Single Crystalline Boron-doped Diamond Superconducting Quantum Interference Devices** Taisuke Kageura, Ikuto Tsuyuzaki, Masakuni Hideko (Waseda Univ.), Yosuke Sasama, Takahide Yamaguchi, Yoshihiko Takano, Minoru Tachiki, Shuuichi Ooi, Kazuto Hirata, Shunichi Arisawa (National Institute for Materials Science) and Hiroshi Kawarada (Waseda Univ.)
P-iLIM-2-100 (1373)	**Synthesis of Diamond Nanocylinder Arrays Using Template-Assisted Antenna-edge-type Microwave Plasma Chemical Vapor Deposition** Wenxi Fei, Masafumi Inaba, Yu Hirano (Waseda Univ.), Hideki Masuda (Tokyo Metropolican Univ.) and Hiroshi Kawarada (Waseda Univ.)
P-iLIM-2-101 (1374)	**Normally-off Diamond p-FET Application in Cascode with Breakdown voltage over 1.7KV** Te Bi, Junxiong Niu, Nobutaka Oi, Masafumi Inaba, Toshio Sasaki and Hiroshi Kawarada (Waseda Univ.)

Nitride IB Building Entrance 16:00-17:00

International Symposium of Growth, Characterization, and Simulation of Nitride Semiconductors

Presentation No.	Title, Author(s)
P-Nitride-1 (1009)	**Decay time of photoluminescence from single Schockley stacking faults in n-type 4H-SiC** Masashi Kato, Shinya Katahira (Nagoya Institute of Technology) and Shunta Harada (Nagoya Univ.)
P-Nitride-2 (1036)	**Ab Initio Study of the Electron Transfer Process in the Dye Sensitized Solar Cells** Koji Yasuda and Lu Minghao (Nagoya Univ.)
P-Nitride-3 (1043)	***Ab initio* approach to polarity inversion of AlN caused by oxygen atoms** Motoshi Uchino, Toru Akiyama, Kohji Nakamura, Tomonori Ito, Hideto Miyake and Kazumasa Hiramatsu (Mie Univ.)
P-Nitride-4 (1073)	**Ab initio study for structural transformation in group-III nitrides** Yuma Tsuboi, Toru Akiyama, Kohji Nakamura, and Tomonori Ito (Mie Univ.)
P-Nitride-5 (1191)	**SiC solution growth with very low dislocation densities** K. Murayama, S. Harada, R. Murai, M. Tagawa (Nagoya Univ.) and T. Ujihara (Nagoya Univ.), (National Institute of Industrial Science and Technology)
P-Nitride-6 (1306)	**Evaluation of Polytytpe of SiC Grown by Top-Seeded Solution Growth Technique Using Various Composition of Cr in Si-Cr Based Solvents** K. Suzuki, M. Takahashi, N. Tsuchimoto, K. Hyun, T. Taishi (Shinshu Univ.), K. Murayama, S. Harada, and T. Ujihara (Nagoya Univ.)
P-Nitride-7 (1314)	**The effect of the structure of seed attachment on polytype and morphology in solution growth of SiC by TSSG method** N. Tsuchimoto, K. Suzuki, M. Takahashi, K. Hyun, T. Taishi (Shinshu Univ.), K. Murayama, S. Harada and T. Ujihara (Nagoya Univ.)