

Poster Session 2

March 6 (Tue), 13:00-14:30

- P2001A **Design and application of a thermal probe to an atmospheric pressure plasma jet**
 H. Matsuura
 Osaka Prefecture University, Japan
- P2002A **Spatio-temporal variation of microwave electric field in an atmospheric pressure slot-antenna microwave plasma**
 ¹T. Murase, ²T. Ishijima, ^{1,3}H. Toyoda
 ¹Nagoya University, Japan
 ²Kanazawa University, Japan
 ³Nagoya University, Japan
- P2003A **Evaluation of high energy electrons in an inductively coupled plasma using optical emission spectroscopy**
 ¹T. Takumi, ²T. Ishijima, ^{1,3}H. Toyoda
 ¹Nagoya University, Japan
 ²Kanazawa University, Japan
 ³Nagoya University, Japan
- P2004A **Temporal variation of water vapor pressure inside a bubble under water induced by atmospheric pressure microwave plasma**
 ¹H. Suzuki, ²T. Ishijima, ^{1,3}H. Toyoda
 ¹Nagoya University, Japan
 ²Kanazawa University, Japan
 ³Nagoya University, Japan
- P2005A **Miniaturization of plane-type microwave resonator probe**
 E. Kumazaki, K. Nakamura, H. Sugai
 Chubu University, Japan
- P2006A **Experimental study on inductively coupled rf Ne/N₂ plasmas**
 T. Kimura, R. Nishimura
 Nagoya Institute of Technology, Japan
- P2007A **Diagnostics of atmospheric pressure plasma jet by coaxial resonant probe**
 J. Xu, J. Wang, X. Zha, K. Ding
 Donghua University, China

- P2008A **Application of dc microdischarge with additional anode as a gas-analysis sensor**
- ¹A. Kudryavtsev, ²P. Pramatarov, ²M. Stefanova, ³N. Khromov
¹St. Petersburg State University, Russia
²Bulgarian Academy of Sciences, Bulgaria
³Ioffe Physical-Technical Institute of the Russian Academy of Sciences, Russia
- P2009A **Loss kinetics of hydrogen radicals in silane plasma**
- Y. Abe, A. Fukushima, K. Takeda, K. Ishikawa, H. Kondo, M. Sekine, M. Hori
Nagoya University, Japan
- P2010A **Analysis of surface reactions mechanism on organic materials with H radical irradiation by real-time / in-situ electron spin resonance**
- ¹N. Sumi, ¹K. Ishikawa, ²H. Horibe, ²A. Kono, ^{1,3}K. Takeda, ¹H. Kondo, ^{1,3}M. Sekine, ^{1,3}M. Hori
¹Nagoya University, Japan
²Kanazawa Institute of Technology, Japan
³JST-CREST, Japan
- P2011A **Three dimensional investigation of activated species in O₂/Ar nonequilibrium atmospheric pressure plasma**
- M. Kato, K. Takeda, K. Ishikawa, H. Kondo, M. Sekine, M. Hori
Nagoya University, Japan
- P2012A **Reach behavior of LiMnO₄ adsorbent through application of inductively coupled plasma spectrometry**
- H. Yoon
Korea Basic Science Institute, Korea
- P2013A **Application of inductively coupled plasma spectrometry for the analysis of LiMnO₄ adsorbent exposed to seawater**
- M. Kong
Korea Basic Science Institute, Korea
- P2014A **Enhancement of LIBS detection limit by low pressure laser induced plasma process**
- Y. Deguchi, M. Kuwahara
The University of Tokushima, Japan
- P2015A **EEDF's evolution measured by developed langmuir probe in pure argon rf capacitively coupled plasma discharge.**
- ¹D. Mendil, ¹H. Lahmar, ¹L. Henni, ¹D. Louhibi, ²L. Boufendi
¹Centre for Development of Advanced Technologies, Algeria
²Polytechnic School of the University of Orleans, France

- P2016A **Formation of discharge plasma in aqueous solutions (1):species-selective microscopic measurements on its spatial distribution**
H. Takakuwa, K. Kanno, Y. Kusama, Y. Someya, H. Yuki
Tokyo University of Science, Japan
- P2017A **Formation of discharge plasma in aqueous solutions (2):differences between DC and AC applying on the spatial distribution of active species**
K. Kanno, H. Takakuwa, Y. Kusama, Y. Someya, H. Yui
Tokyo University of Science, Japan
- P2018A **Formation of discharge plasma in aqueous solutions (3): measurements on the time evolution of the spatial distribution for active species**
Y. Someya, Y. Kusama, H. Yui
Tokyo University of Science, Japan
- P2019A **Formation of discharge plasma in aqueous solutions (4): time evolution of spatial distribution of active species in plasmas**
Y. Kusama, Y. Someya, H. Yui
Tokyo University of Science, Japan
- P2020A **Local electron density measurement by curling probe**
A. Pandey, Y. Liang, K. Kato, S. Ikezawa, K. Nakamura, H. Sugai
Chubu University, Japan
- P2021A **Floating method using a pulse signal for measurement of electron energy distribution function in plasmas**
J. Bang, I. Choi, C. Chung
Hanyang University, Korea
- P2022A **A simple analysis method for the I-V curves of single Langmuir probe in non-Maxwellian plasmas**
J. Bang, I. Choi, C. Chung
Hanyang University, Korea
- P2023A **Application of inductively coupled plasma mass spectrometry linked HPLC for determination of various arsenic species in landfill leachate**
¹J. An, ¹J. Bae, ¹H. Jung, ¹J. Kim, ¹M. Kong, ¹M. Kim, ²K. Kim, ¹H. Yoon
¹Korea Basic Science Institute, Korea
²Sejong University, Korea

P2024A	In-flight particle measurement of glass materials in thermal plasmas
	Y. Liu, M. Tanaka, T. Ikeba, S. Choi, T. Watanabe Tokyo Institute of Technology, Japan
P2025A	3-dimensional electromagnetic field calculation of floating metal wire in micro plasma using spiral coil
	K. Fujisaki, K. Yun, S. Minoru Toyota Technological Institute, Japan
P2026A	Intermittent formation and collapse mechanism of ion-acoustic double layer
	K. Tanemura, H. Takamaru Chubu University, Japan
P2027A	Modelling of an Ar/H₂ atmospheric inductively coupled plasma jet
	^{1,2} P. Zhao, ³ H. Nakahiro, ^{1,3} A. Ogino, ² Y. Meng, ^{1,3} M. Nagatsu ¹ Shizuoka University, Japan ² Chinese Academy of Science, China ³ Shizuoka University, Japan
P2028A	Structural change of single-crystalline materials under plasma irradiation
	¹ S. Saito, ² A. Ito, ^{1,2} H. Nakamura ¹ Nagoya University, Japan ² National Institute for Fusion Science, Japan
P2029A	Mechanism of generating ions and radicals in C₃F₆O plasma
	Y. Kondo, Y. Miyawaki, K. Takeda, H. Kondo, K. Ishikawa, T. Hayashi, M. Sekine, M. Hori Nagoya University, Japan
P2030A	Simulation of spatial- and energy-distributions of high-energy O ions
	¹ M. Nakabo, ² K. Ono, ² T. Morita, ³ N. Ohshima, ⁴ T. Ishijima, ^{1,5} H. Toyoda ¹ Nagoya University, Japan ² ULVAC, Japan ³ NEC, Japan ⁴ Kanazawa University, Japan ⁵ Nagoya University, Japan

P2031A	On the study of the physical processes responsible for the breakdown of helium by 248 nm laser pulses
	¹ G. Mehena, G. Yosr E E-D ¹ Cairo University, Egypt ² King Abdul-Aziz University, Saudi Arabia
P2032A	Simulation of H₂ breakdown process induced by laser irradiation
	¹ X. Zhang, ¹ Y. Deguchi, ² J. Liu ¹ The University of Tokushima, Japan ² Xi'an Jiaotong University, China
P2033A	FDTD simulation of millimeter-wave corrugated waveguides
	¹ H. Nakamura, ³ Y. Tamura, ⁴ K. Sawada, ^{1,2} S. Kubo ¹ National Institute for Fusion Science, Japan ² Nagoya University, Japan ³ Konan University, Japan ⁴ Shinshu University, Japan
P2035A	Simulation study of difference between crystal and non-crystal tungsten under noble gas irradiation
	¹ A. Takayama, ² S. Saito, ¹ A. Ito, ² N. Ohno, ^{1,2} H. Nakamura ¹ National Institute for Fusion Science, Japan ² Nagoya University, Japan
P2036A	A study on plasma parameters in various Ar/SF₆ inductively coupled plasmas
	S. Oh, H. Lee, C. Chung HanYang University, Korea
P2037A	Interactions with plasmas on gallium nitride at high temperature
	¹ R. Kometani, ¹ S. Chen, ¹ Y. Lu, ¹ C. David, ¹ K. Ishikawa, ¹ H. Kondo, ² T. Egawa, ¹ H. Amano, ¹ M. Sekine, ¹ M. Hori ¹ Nagoya University, Japan ² Nagoya Institute of Technology, Japan
P2038A	Depth profiles on stoichiometry of plasma-etched GaN
	¹ Y. Lu, ¹ S. Chen, ¹ R. Kometani, ¹ K. Ishikawa, ¹ H. Kondo, ¹ K. Takeda, ¹ M. Sekine, ² T. Egawa, ¹ H. Amano, ¹ M. Hori ¹ Nagoya University, Japan ² Nagoya Institute of Technology, Japan

- P2039A **Effect of DC-bias superposed to the upper electrode of dual-frequency capacitively coupled plasma**
¹T. Komuro, ^{1,2}K. Takeda, ¹K. Ishikawa, ^{1,2}M. Sekine, ³Y. Ohya, ¹H. Kondo, ^{1,2}M. Hori
¹Nagoya University, Japan
²JST-CREST, Japan
³Tokyo Electron Miyagi Ltd., Japan
- P2040A **Clarification of highly selective SiO₂ etching process using C₅HF₇ gas**
¹Y. Miyawaki, ¹Y. Kondo, ¹K. Takeda, ¹H. Kondo, ¹K. Ishikawa, ²A. Yamazaki, ²A. Ito, ²H. Matsumoto, ¹M. Sekine, ¹M. Hori
¹Nagoya University, Japan
²Zeon Corporation, Japan
- P2041A **Formation of smooth surface on 193 nm photoresist by C₅HF₇/O₂/Ar plasma**
¹K. Asano, ¹H. Yamamoto, ¹Y. Miyawaki, ¹K. Takeda, ¹H. Kondo, ¹K. Ishikawa, ²A. Yamazaki, ²A. Ito, ²H. Matsumoto, ¹M. Sekine
¹Nagoya University, Japan
²Zeon Corporation, Japan
- P2042A **In situ XPS analysis of ArF photoresist surface modified by fluorocarbon ions and radicals**
T. Takeuchi, S. Amasaki, K. Takeda, K. Ishikawa, H. Kondo, M. Sekine, M. Hori
Nagoya University, Japan
- P2043A **Controllable fabrication of Si nanocones with non-destructive outside-wall by cryogenic plasma etching**
W. Sun, S. Tian, X. Xia, J. Li, C. Gu
Institute of Physics, Chinese Academy of Sciences, China
- P2044C **Ar ion irradiations of Fe-Al₂O₃ granular films**
¹I. Sakamoto, ¹H. Nakayama, ¹T. Ishida, ¹R. Kinoshita, ²S. Purwanto, ³S. Honda, ⁴M. Koike, ⁴M. Yasumoto, ⁵N. Hayashi, ⁶T. Toriyama
¹Hosei University, Japan
²PTBIN-BATAN, Indonesia
³Shimane University, Japan
⁴AIST, Japan
⁵Kurume Institute of Technology, Japan
⁶Tokyo City University, Japan
- P2045C **Development of nylon 6 - carbon nanotube composite for mechanical application**
¹T. Suzuki, ¹S. Inoue, ¹D. Tsuboi, ²K. Nojima, ²A. Tsuchimoto, ¹M. Kumar, ¹Y. Ando
¹Meijo University, Japan
²Toyogyushi Corporation, Japan

- P2046C **Analysis of the structural and physicochemical characteristics of bone graft materials using autogenous teeth**
- ¹J. Oh, ²Y. Kim, ¹S. Kim, ²P. Yun, ³I. Yeo, ¹S. Jin, ¹H. Kim, ¹S. Yu, ⁴I. Um, ⁵G. Kim
- ¹Chosun University, Korea
- ²Seoul National University Bundang Hospital, Korea
- ³Seoul National University, Korea
- ⁴Korea Tooth Bank, Korea
- ⁵Dankook University, Korea
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- P2047C **Comparative study of bone formation following grafting with different ratio of particle dentin and tricalcium phosphate combination**
- S. Jin, S. Kim
- Chosun University, Korea
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- P2048C **A comparative study on the bone formation capacity of autogenous tooth graft materials with toothash powder grafted to the tooth extraction socket of adult dogs**
- Z. Piao, S. Yang, S. Kim, J. Oh, S. Lim
- Chosun University, Korea
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- P2049C **Preparation and characterization of Co(II, III) complex with N₂S₂ coordination environment similar to the active site of nitrile hydratase**
- M. Shinmura, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
- Nagoya Institute of Technology, Japan
-
- P2050C **Syntheses and characterization of N₂O₂-Fe(III) complexes with high selectivity for nitric oxide and modification on Au electrode**
- M. Ishikawa, T. Suwabe, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
- Nagoya Institute of Technology, Japan
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- P2051C **Combining RuO₂ and carbon nanotube/graphene to manufacture the flexible field emission display device**
- Y. Huang
- National Taiwan University of Science and Technology, Taiwan
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- P2052C **Composite of hydroxyapatite and Ytria partially stabilized prepared by spark plasma sintering**
- D. Kawagoe, E. Hokuto, S. Akiko, N. Satoshi
- Oyama National College of Technology, Japan

- P2053C **Synthesis and properties of a new Co(III) complex with N₃S₂-type ligand for NO sensing materials**
T. Mizuno, D. Tsurudome, T. Yano, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda
Nagoya Institute of Technology, Japan
- P2054C **Cr-SiC strain sensitive cermet films prepared by ion beam sputteing**
¹Y. Kakehi, ¹K. Satoh, ²M. Matsumoto, ²H. Takenaka, ²M. Sawamura
¹Technology Research Institute of Osaka Prefecture, Japan
²Nippon Liniac Co., Ltd., Japan
- P2055C **Development of novel metal/diamond functionally graded grinding wheel for CFRP drilling by a preform centrifugal mixed-powder method**
¹M. Shibuya, ¹H. Sato, ²E. Miura-Fujiwara, ¹T. Kunimine, ¹Y. Watanabe
¹Nagoya Institute of Technology, Japan
²University of Hyogo, Japan
- P2056C **Three-dimensional visualization of Al₃Ti particle distribution in Al-Al₃Ti alloy processed by equal channel angular pressing**
T. Hishikawa, H. Sato, T. Kunimine, Y. Watanabe
Nagoya Institute of Technology, Japan
- P2057C **Estimation of the cooling rate distribution during centrifugal casting by using lamellar spacing of Al-Al₂Cu eutectic structure**
¹Y. Hattori, ¹H. Sato, ^{1,2}M. Eri, ¹W. Yoshimi
¹Nagoya Institute of Technology, Japan
²University of Hyogo, Japan
- P2058C **Effects of Al₃CuTi₂ volume fraction on grain refining performance of Al-Al₃CuTi₂ grain refiner for aluminum casting alloys**
¹K. Yamanaka, ²T. Matsuoka, ¹T. Kunimine, ¹H. Sato, ¹Y. Watanabe
¹Nagoya Institute of Technology, Japan
²Kyoto University, Japan, Japan
- P2059C **Synthesis and characterization of wutzite ZnO-spinel Zn₂TiO₄ core-shell nanocomposites**
C. Hu, Y. Liang
Natioanl Taiwan Ocean University, Taiwan
- P2060C **Thermo-elasto-plasticity and creep analysis of thick cylinders and pressure vessels made of functionally graded materials**
¹S. Jamian, ²H. Sato, ²H. Tsukamoto, ²Y. Watanabe
¹Universiti Tun Hussein Onn Malaysia, Malaysia
²Nagoya Institute of Technology, Japan

- P2061C **Fabrication of Ti-ZrO₂ functionally graded material using slurry-pouring method in melting ice medium**
 J. Murali, T. Kunimine, H. Tsukamoto, H. Sato, Y. Watanabe
 Nagoya Institute of Technology, Japan
- P2062C **Thermal property of a large size nanocomposite including electrically aligned nanofiller fabricated by an array of interdigitated parallel wire electrodes**
 M. Nakano, S. Hasegawa, Y. Kitamura, J. Suehiro
 Kyushu University, Japan
- P2063C **Heteroepitaxial InP growth on Si(001) using MOCVD**
 ¹K. Shin, ^{1,2}S. Lee, ¹S. Oh, ¹D. Moon, ¹S. Park, ¹C. Yang, ²Y. Cho, ¹Y. Nanishi, ¹E. Yoon
 ¹Seoul National University, Korea
 ²Samsung Electronics, Korea
- P2064C **Wear behavior of gas tunnel type plasma sprayed TiN reinforced Fe-based metallic glass coatings**
 ¹A. Kobayashi, ¹Y. Subramaniam, ²S. Kalidass
 ¹Osaka University, Japan
 ²City University of Hong Kong, Hong Kong
- P2066C **Study of optical properties and surface morphology of MEH-PPV embedded with annealed ZnO nanoparticles**
 N. Zayana, M. Rusop
 Universiti Teknologi MARA, Malaysia
- P2067C **Optical properties of silica-encapsulated ZnSe nanocrystals prepared by water-in-oil microemulsions**
 L. Kang, L. Areum, K. Ji Hyeon, P. Sang Joon
 Kyungwon University, Korea
- P2068C **Composite of InP-ZnS quantum dot and TiO₂ particle to improve the performance of phosphor converted white LED**
 K. Lee, S. Kang, D. Kim, S. Kim, J. Baek
 Korea Photonics Technology Institute, Korea
- P2069C **Grain refinement of as-cast pure Al by cold rolled Al-Ti alloy refiner**
 ¹H. Sato, ¹K. Ota, ¹M. Furukawa, ¹M. Azuma, ¹Y. Watanabe, ²Z. Zhang, ²K. Tsuzaki
 ¹Nagoya Institute of Technology, Japan
 ²National Institute for Materials Science, Japan

P2070C	Influence of Al addition on mechanical properties and microstructure of copper cast by the centrifugal mixed-powder method
	¹ T. Kunimine, ¹ M. Yamada, ^{1,2} Y. Oya, ¹ H. Sato, ¹ Y. Watanabe ¹ Nagoya Institute of Technology, Japan ² Ohya-Chuzosho Co., Ltd., Japan
P2071C	Effect of oxidation condition on exfoliation resistance and color tone of oxide film formed on Ti-Nb-Ta-Zr alloy
	¹ E. Miura-Fujiwara, ² S. Yamada, ² Y. Watanabe, ² H. Sato, ² T. Kasuga, ³ M. Niinomi ¹ University of Hyogo, Japan ² Nagoya Institute of Technology, Japan ³ Tohoku University, Japan
P2072C	Large area of self-assembled colloidal crystals
	E. Cabrera, P. Sabine, P. Esther, B. Enric Universitat de Barcelona, Spain
P2073C	Growth of nano cube MgO on silicon substrate using pulsed laser deposition
	¹ S. Kaneko, ¹ T. Ito, ¹ M. Soga, ¹ Y. Motoizumi, ¹ M. Yasui, ¹ Y. Hirabayashi, ¹ T. Ozawa, ² M. Yoshimoto ¹ Kanagawa Prefectural Government, Japan ² Tokyo Institute of Technology, Japan
P2074C	Mechanical properties of copper nano films on equilibrium thermal vibration
	H. Chang National Applied Research Laboratories, Taiwan
P2075C	Synthesis of Sb-doped ZnO nanowires by vapor-liquid-solid (VLS) method
	¹ K. Chen, ² T. Tsai, ¹ C. Hsu ¹ National University of Tainan, Taiwan ² National Cheng Kung University, Taiwan
P2076C	Influence of screen effect on electron field emission via selected-area growth of In₂O₃:Sn nanowires
	C. Kuo, L. Pei-jung, J. Chien-chang, L. Su-jien National Tsing Hua University, Taiwan
P2077C	Oxygen deficient states enhanced capacitance properties of BaTi₄O₉ nanowires synthesized by molten salt method
	¹ N. Yang, ¹ C. Tseng, ¹ C. Juan, ¹ J. Wu, ¹ S. Lin, ² S. Chang ¹ National Tsing Hua University, Taiwan ² National Chung Hsing University, Taiwan

- P2078C **Synthesis of Ga-doped SnO₂ nanowires**
¹Y. Lu, ¹H. Cheng-liang, ²H. Ting-jen, ³T. Tsung-ying
¹National University of Tainan, Taiwan
²National Nano Device Laboratories, Taiwan
³National Cheng Kung University, Taiwan
- P2079C **Continuous generation of Ru nanoparticles by atmospheric pressure microplasma process**
K. Chang, Y. Kuo
National Taiwan University of Science and Technology, Taiwan
- P2080C **Raman spectra and magnetic property analysis of Nd doped ZnO thin films**
S. Munisamy, M. Tanemura, T. Soga, T. Hihara
Nagoya Institute of Technology, Japan
- P2081C **Ge/GeSe heterostructure nanowires**
C. Wang, X. Jing, W. Hongyun, Z. Yao, X. Xiaofeng, X. Huaizhong, X. Jinzhou
Donghua University, China
- P2082C **Particle size dependent properties of nanocrystalline SnO₂**
¹M. Subramanian, ^{2,3}K. Prasad, ¹M. Tanemura, ⁴S. Ramasamy
¹Nagoya Institute of Technology, Japan
²University of Madras, India
³Regional Institute of Education, India
⁴Anna University, India
- P2083C **Growth and characteristics of Ga-doped ZnO nanowalls/nanorods by hydrothermal reaction**
¹J. Wu, ¹C. Huang, ²S. Young, ³C. Hsiao, ¹T. Chu
¹National Yunlin University of Science and Technology, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan
- P2084C **Exciton-type superconductivity of Sn/Si clusters fabricated by a plasma-gas-condensation used hard-landing method**
¹Y. Kurokawa, ¹T. Hihara, ¹I. Ichinose, ²K. Sumiyama
¹Nagoya Institute of Technology, Japan
²Tokyo Denki University, Japan

- P2085C **Raman, cathodoluminescence and field emission of ZnO:Sb nanowires**
¹C. Fang, ²W. Jyh Ming, ¹L. Lin Tsang, ³K. Cheng Hsiang
¹National Chung-Hsing University, Taiwan
²Feng-Chia University, Taiwan
³National Tsing-Hua University, Taiwan
- P2086C **Synthesis of In₂O₃ nanostructure via plasma enhanced chemical vapor deposition**
W. Li, R. Yang, X. Wang, T. Wang, J. Zheng, X. Li
Peking University, China
- P2087C **The aligned ZnO nanowire with buffer layer for dye-sensitized solar cells**
¹M. Kao, ¹H. Z. Chen, ¹S. L. Young, ²C. C. Lin, ²C. Y. Kung
¹Hsiuping University of Science and Technology, Taiwan
²National Chung Hsing University, Taiwan
- P2088C **Ga-doped vertically aligned ZnO nanorod arrays using hydrothermal method**
¹J. Guo, ¹C. Huang, ²S. Young, ³C. Hsiao, ¹T. Yang, ³S. Chang
¹National Yunlin University of Science and Technology, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan
- P2089C **Growth of Ni-doped aligned ZnO nanorods by aqueous method**
¹T. Yang, ¹C. Huang, ²S. Young, ³C. Hsiao, ¹J. Guo, ³S. Chang
¹National Yunlin University of Science and Technology, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan
- P2090C **Photoelectric properties of ZnSeTe and ZnCdSeTe nanotips**
¹T. Liu, ¹C. Hsiao, ²S. Young, ³C. Huang, ¹S. Chang
¹National Cheng Kung University, Taiwan
²Formosa University, Taiwan
³National Yunlin University of Science and Technology, Taiwan
- P2091C **Hydrothermal synthesis of Al-doped ZnO nanorod arrays on glass substrate**
¹G. Huang, ¹C. Huang, ¹C. Huang, ¹J. Guo, ¹T. Yang, ²S. Young, ³C. Hsiao
¹National Yunlin University of Science and Technology, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan

- P2092C **Annealing induced formation and optical properties of spinel ZnAl_2O_4 nanostructures from $\text{ZnO-Al}_2\text{O}_3$ core-shell nanowires**
- X. Deng, Y. Liang, C. Hu, H. Zhong
National Taiwan Ocean University, Taiwan
- P2093C **Growth of Li-doped aligned ZnO nanorods by hydrothermal method**
- ¹L. Lai, ¹S. Young, ¹Z. Lin, ²C. Huang, ³C. Hsiao
¹Formosa University, Taiwan
²National Yunlin University of Science and Technology, Taiwan
³National Cheng Kung University, Taiwan
- P2094C **Synthesis of Mg-doped ZnO nanorods by aqueous solution method**
- ¹Y. Liu, ¹S. Young, ²C. Huang, ³C. Hsiao, ¹Z. Lin
¹Formosa University, Taiwan
²National Yunlin University of Science and Technology, Taiwan
³National Cheng Kung University, Taiwan
- P2095C **Morphology and characterization of spinel Zn_2SnO_4 single-crystal nanowires**
- C. Huang, Y. Liang
National Taiwan Ocean University, Taiwan
- P2096C **Effects of a UV photodetector on the moisture factor of a humidity sensor with a ZnSe nanotip**
- ¹C. Hsiao, ¹C. Hsiao, ¹S. Chang, ²S. Young, ³C. Huang
¹National Cheng Kung University, Taiwan
²National Formosa University, Taiwan
³National Yunlin University of Science and Technology, Taiwan
- P2097C **Study of magnetic and optical properties of Cu-doped ZnO nanorods**
- ¹J. Huang, ¹M. Huang, ¹T. Yang, ¹C. Huang, ²S. Young, ³C. Hsiao
¹National Yunlin University of Science, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan
- P2098C **Role of active species from solution plasma in controlling nanoparticles size**
- M. Bratescu, S. Cho, O. Takai, N. Saito
Nagoya University, Japan

- P2099C **Temperature dependent properties of FePt particles encapsulated in MWCNTs**
¹K. Hori, ¹T. Kaneko, ¹Y. Fujiwara, ¹H. Sato, ¹K. Maeda, ²T. Kato, ²S. Iwata, ¹K. Hata, ¹T. Kobayashi
¹Mie University, Japan
²Nagoya University, Japan
- P2100C **Growth of Cu-doped ZnO nanorods by hydrothermal method**
¹M. Huang, ¹J. Huang, ¹T. Yang, ¹C. Huang, ²S. Young, ³C. Hsiao
¹National Yunlin University of Science and Technology, Taiwan
²National Formosa University, Taiwan
³National Cheng Kung University, Taiwan
- P2101C **Surface morphology evolution of nano-scaled CuO in acetic acid solution of spray fog environment**
H. Chen, T. Chiang, M. Wu, B. Chen, Y. Yang
Kao Yuan University, Taiwan
- P2102C **Synthesis of cobalt nanoparticles via the liquid phase plasma reduction method**
¹S. Jung, H. Kim, H. Lee, J. Lee, B. Kim, S. Kim
¹Sunchon National University, Korea
²Chosun University, Korea
³Sejong University, Korea
- P2103C **Modification of inside the pores of mesoporous silica with Ag nanoclusters by solution plasma method**
¹Y. Tanida, ^{1,2,3}T. Ueno, ^{1,2,3}N. Zettsu, ^{1,2,3,4}N. Saito
¹Nagoya University, Japan
²Nagoya University, Japan
³Nagoya University, Japan
⁴Japan Science and Technology Institute, Japan
- P2104C **Effect of H₂O₂ concentrations on microstructural and optical properties of 2 at.% Sn⁴⁺ doped ZnO nanorods deposited by electrochemical method**
¹M. Huang, ¹L. Jing-chie, ²W. Ching-chen, ¹C. I-chen, ³P. Kun-cheng
¹National Central University, Taiwan
²Industrial Technology Research Institute, Taiwan
³Ingchi University of Technology, Taiwan

P2105C	Formation of one-dimensionally self-aligned Si-based quantum dots on untrathin SiO₂ and its application to light emitting diodes
	¹ K. Makihara, ² H. Deki, ³ M. Ikeda, ¹ S. Miyazaki ¹ Nagoya University, Japan ² Hiroshima Kokkuso Gakuin University, Japan ³ Hiroshima University, Japan
P2106C	Structural characteristics of metal nanoparticles synthesized by a glow discharge in aqueous
	¹ S. Cho, ² M. Bratescu, ^{2,3} N. Saito, ^{1,3} O. Takai ¹ Nagoya University, Japan ² Nagoya University, Japan ³ CREST-JST, Japan
P2107C	Influence of annealing temperature on the properties of nanostructure ZnO/MgO multilayer thin film for MIS capacitor application
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P2108C	Aqueous dispersion of TiO₂ nanoparticles prepared by plasma on liquid surface
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P2109C	Application of DSSC using TiO₂ nanostructures(wires, particles) by autoclave process
	H. Yang Sungkyunkwan University, Korea
P2110C	The enhanced morphological, electrical and optical properties of nanostructured copper (I) iodide thin films by intermittently sprayed solution concentration
	N. Muhamad, M. Mahmood Universiti Teknologi MARA (UiTM), Malaysia
P2111C	Characteristics of seed layer for synthesis of ZnO nanorod arrays using aqueous solution method
	E. Choi Sungkyunkwan University, Korea

P2112C	Formation mechanism of transition metal boride nanoparticles by RF thermal plasmas
	Y. Cheng, S. Choi, T. Watanabe Tokyo institute of technology, Japan
P2113C	Effects of the temperature on the synthesis of gold nanoparticles for nanofluid by solution plasma
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P2114C	The effects of ZnO buffer layer thickness on the properties of ZnO nanowire
	H. Chen, M. Kao, S. Young Hsiuping University of Science and Technology, Taiwan
P2115C	Mechanism of gold and silver nanoparticles fabrication with pulsed laser ablation in supercritical CO₂
	S. Machmudah, W. Diono, M. Sasaki, M. Goto Kumamoto University, Japan
P2116C	Selective detection of gamma-aminobutyric acid by Two-dimensional array of ZnSe-ferritin nanodots
	H. Lee, K. Ji Hyeon, Y. Hyon Hee, P. Sang Joon Kyungwon University, Korea
P2117C	Effect of Al₃Ti, TiC and TiB₂ particles on the grain refinement of pure magnesium
	¹ Y. Watanabe, ¹ Y. Gao, ² J. Guo, ¹ H. Sato, ³ S. Miura, ⁴ H. Miura ¹ Nagoya Institute of Technology, Japan ² Henan University of Science and Technology, China ³ Hokkaido University, Japan ⁴ The University of Electro-Communications, Japan
P2118C	Synthesis of TiO₂ nanoparticles by solution plasma
	H. Yoshizawa, T. Ban, Y. Ohya Gifu University, Japan