P1001A  **Improvement of water treatment efficiency in 3D integrated micro solution plasmas**  
Y. Himeno, T. Shirafuji  
Osaka City University, Japan

P1002A  **Effect of superposition of ultrasonic power on microwave plasma under water**  
1T. Takahashi, 1N. Takada, 1,2H. Toyoda  
1Nagoya University, Japan  
2Nagoya University, Japan

P1003A  **Application of atmospheric pressure plasma in element analysis of agricultural products**  
1J. Kularatne, 1H. Kano, 2M. Ito, 2T. Ohta, 1K. Takeda, 1K. Ishikawa, 1H. Kondo, 1M. Sekine, 1M. Hori  
1Nagoya University, Japan  
2NU Eco Engineering, Japan  
3Meijo University, Japan

P1004A  **Behavior of metastable He atom at middle pressure in micro hollow cathode discharge**  
1M. Inoue, 2T. Ohta, 2M. Ito, 2M. Hori  
1Wakayama University, Japan  
2Meijo University, Japan  
3Nagoya University, Japan

P1005A  **MEMS plasma VUV light source**  
1R. Sato, 1S. Kumagai, 2M. Hori, 1M. Sasaki  
1Toyota Technological Institute, Japan  
2Nagoya University, Japan

P1006A  **Line profile of Pb atom at middle pressure in micro hollow cathode lamp**  
1M. Inoue, 2T. Ohta, 2M. Ito, 2M. Hori  
1Wakayama University, Japan  
2Meijo University, Japan  
3Nagoya University, Japan

P1007A  **VUV emission from transportable micro plasma light source system**  
1D. Yasumatsu, 1H. Matsuyama, 1S. Kumagai, 2K. Takeda, 2N. Ebizuka, 2M. Hori, 1M. Sasaki  
1Toyota Technological Institute, Japan  
2Nagoya University, Japan
**P1008A**  
Influence of oxygen gas on the characteristics of self-organized luminaous pattern formation in atmospheric DC glow discharge with liquid electrode  
N. Shirai, S. Uchida, F. Tochikubo  
Tokyo Metropolitan University, Japan

**P1009A**  
Temporal variation of alkaline metals in an atmospheric-pressure pulsed-plasma with liquid electrode  
H. Suzuki, T. Takaba, N. Takada, H. Toyoda  
Nagoya University, Japan

**P1010A**  
Time-resolved measurement of electric field in Ar and N₂ atmospheric-pressure microwave plasmas  
K. Egashira, T. Murase, H. Toyoda  
Nagoya University, Japan

**P1011A**  
Development of large volume planar inductively coupled thermal plasma torch with current modulation  
M. Akao, K. Kuraishi, Y. Tanaka, Y. Uesugi, T. Ishijima, T. Yoshida  
Kanazawa University, Japan

**P1012A**  
Measurement of hydroxyl radical in an atmospheric pressure plasma driven by nano-second pulsed discharge  
I. Yagi, Y. Nakagawa, R. Ono, T. Oda, K. Takaki  
The University of Tokyo, Japan

**P1013A**  
High H radical density produced by 1-m-length atmospheric pressure microwave plasma system  
Tokyo Electron Ltd., Japan

**P1014A**  
Absolute O atom density measurement in surface wave plasma with a compact microwave plasma light source by vacuum ultraviolet absorption spectroscopy  
X. Chang, K. Sasaki, M. Nagatsu  
Shizuoka University, Japan

Hokkaido University, Japan
P1015A Production of surface-wave excited plasma in low pressures
   T. Noda, M. Nakabo, H. Toyoda
   Nagoya University, Japan

P1016A Decompositions of CO₂ and NOx by large flow atmospheric microwave plasma LAMP -Industrial application to motorcar-
   1S. Niwa, 1Y. Morii, 1A. Pandey, 1S. Ikezawa, 2N. Nagase
   1Chubu University, Japan
   2Nagase Ironworks, Japan

P1017A Development of LAMP (large flow atmospheric microwave plasma) system into motorcar
   1Y. Morii, 1S. Niwa, 1A. Pandey, 1S. Ikezawa, 2N. Nagase
   1Chubu University, Japan
   2Nagase Ironworks, Japan

P1018A The atmospheric pressure plasmas
   1H. Kano, 2K. Takeda, 3H. Kondo, 4S. Den, 1Y. Higashijima, 2M. Hori
   1NU EcoEngineering Co., LTD., Japan
   2Nagoya University, Japan
   3Katagiri Engineering Co., Ltd., Japan
   4NU System Inc., Japan

P1019A Photocatalytic destruction of ethylene using microwave discharge electrodeless plasma lamp
   1S. Jung, 2D. Lee
   1Sunchon National University, Korea
   2Sunchon National University, Korea

P1020A Control of helium jet trajectory by atmospheric pressure jet plasma
   S. Park, W. Choe
   Korea Advanced Institute of Science and Technology, Korea

P1021A Atmospheric pressure glow discharge in the frequency range based on the mechanism of ion capture
   L. Jia, W. Liu
   Beijing Jiaotong University, China

P1022A Measurement of carbon nanowalls / silicon substrate temperature by fourier-domain low-coherence interferometry
   1T. Hiraoka, 1T. Tsutsumi, 2H. Kato, 1K. Takeda, 2T. Ohta, 1H. Kondo, 1K. Ishikawa, 2M. Ito, 1M. Sekine, 1M. Hori
   1Nagoya University, Japan
   2Meijo University, Japan
<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1023A</td>
<td>Real time temperature measurements of film-covered-substrate employing fourier domain low coherence interferometer during plasma processes</td>
<td>T. Tsutsumi, T. Hiraoka, K. Takeda, K. Ishikawa, Ohta, M. Ito, H. Kondo, M. Sekine, M. Hori</td>
<td>Nagoya University, Japan, Meijo University, Japan</td>
</tr>
<tr>
<td>P1024A</td>
<td>Effects of configuration on resonance characteristics of plane-type microwave resonator probe</td>
<td>E. Kumazaki, K. Nakamura, H. Sugai</td>
<td>Chubu University, Japan</td>
</tr>
<tr>
<td>P1025A</td>
<td>Thomson scattering diagnostics of pulsed filament discharges produced at near-atmospheric pressure</td>
<td>K. Tomita, N. Bolouki, K. Nagata, Y. Yamagata, K. Uchino</td>
<td>Kyushu University, Japan</td>
</tr>
<tr>
<td>P1026A</td>
<td>Substrate temperature dependence of silicon cluster volume fraction in silicon thin films measured with quartz crystal microbalances</td>
<td>Y. Kim, K. Hatozaki, Y. Hashimoto, H. Seo, G. Uchida, K. Kamataki, N. Itagaki, K. Koga, M. Shiratani</td>
<td>Kyushu University, Japan</td>
</tr>
<tr>
<td>P1027A</td>
<td>Experimental study of coulomb screening mechanism in cryogenic one-component plasma</td>
<td>M. Aramaki, A. Kono</td>
<td>Nagoya University, Japan</td>
</tr>
<tr>
<td>P1028A</td>
<td>Absolute density of fluorine atom in capacitively coupled plasma employing hydro-fluorocarbon gases for highly selective SiO&lt;sub&gt;2&lt;/sub&gt; etching</td>
<td>T. Komuro, K. Takeda, K. Ishikawa, M. Sekine, H. Kondo, M. Hori</td>
<td>Nagoya University, Japan</td>
</tr>
<tr>
<td>P1029A</td>
<td>Atomic hydrogen density measurement in toroidal plasma device NAGDIS-T by vacuum ultraviolet absorption spectroscopy</td>
<td>S. Kajita, K. Takeda, K. Sakata, N. Ohno, M. Hori</td>
<td>Nagoya University, Japan</td>
</tr>
<tr>
<td>P1030A</td>
<td>In-situ photo luminescence observation of GaN thin film exposed in inductively-coupled plasmas</td>
<td>M. Chen, K. Nakamura, Y. Nakano, H. Sugai</td>
<td>Chubu University, China, China</td>
</tr>
</tbody>
</table>
P1031A  Cavity ring down measurements of SiH$_3$-behavior in SiH$_4$/H$_2$ plasma
    Y. Abe, A. Fukushima, Y. Kim, K. Takeda, H. Kondo, K. Ishikawa, M. Sekine, M. Hori
    Nagoya University, Japan

P1032A  Absolute cross section measurement for electron-impact dissociation of CH$_2$F$_2$ into CH$_2$F
    1H. Ogawa, 1,2H. Toyoda
    1Nagoya University, Japan
    2Nagoya University, Japan

P1033A  Measurement of species in non-equilibrium atmospheric pressure plasma using near infrared absorption spectroscopy with supercontinuum light
    1M. Hori, 1K. Takeda, 2T. Ohta, 3M. Ito, 1N. Nishizawa
    1Nagoya University, Japan
    2Meijo University, Japan
    3Meijo University, Japan

P1034A  Stable molecules in N$_2$-H$_2$ plasma measured by quartz sensor
    1A. Suzuki, 2S. Asahina
    1National Institute of Advanced Industrial Science and Technology (AIST), Japan
    2Shimane Institute for Industrial Technology, Japan

P1035A  Improvement on quantification measurement of fly ash contents using laser induced breakdown spectroscopy
    1Y. Deguchi, 1Z. Wang, 1M. Kuwahara, 1H. Watanabe, 1R. Kurose, 1J. Yan, 1J. Liu
    1The University of Tokushima, Japan
    2Xi’An Jiaotong University, China
    3The Central Research Institute of Electric Power Industry, Japan
    4Kyoto University, Japan

P1036A  Spatial evolution study of EEDF and plasma parameters in RF-CCP stochastic regime by langmuir probe
    Withdrawn
    1D. Mendil, 1H. Lahmar, 2L. Boufendi
    1Centre for Development of Advanced Technologies, Algeria
    2Polytechnic School of The University of Orleans, France

P1037A  Spectroscopic study of arc spot initiated on nanostructured tungsten
    1D. Hwangbo, 2M. Osaka, 3S. Kajita, 1N. Ohno
    1Nagoya University, Japan
    2Nagoya University, Japan
    3Nagoya University, Japan
P1038A  Infrared spectroscopic study on plasma induced reaction on Si surface
   Y. Takami, Y. Takaki, M. Shinohara, Y. Matsuda, H. Fujiyama
   Nagasaki University, Japan

P1039A  Development of MIR-IRAS monitoring system for solution plasmas
   Nagasaki University, Japan

P1040A  Combination of methanol addition and collision cell technology for the trace analysis of arsenic in leachate containing high chlorine concentration by inductively coupled plasma mass spectrometer
   J. An, J. Kim, M. Kong, S. Choi, H. Yoon
   Korea Basic Science Institute, Korea

P1041A  Sensitive measurement of trace elements using low pressure and short pulse laser-induced plasma
   12Z. Wang, 2Y. Deguchi, 2M. Kuwahara, 12X. Zhang, 1J. Yan, 1J. Liu
   1Xi'an Jiaotong University, China
   2The University of Tokushima, Japan

P1042A  Withdrawn

P1043A  Ion assisted deposition of magnetron sputtering
   1R. Tadjine, 2M. Kechouane, 1M. Alim
   1Centre de Développement des Technologies Avancées, Algeria
   2University USTHB - Algiers, Algeria

P1044C  Graphene synthesis by thermal chemical vapor deposition using solid precursor
   M. Ahmed, N. Kishi, T. Soga
   Nagoya Institute of Technology, Japan

P1045C  Use of diamond-like carbon (DLC) in engine components for ultra-low friction and environmentally friendly lubrication
   1H. Tasdemir, 1T. Tokoroyama, 1H. Kousaka, 1N. Umehara, 2Y. Mabuchi, 2T. Higuchi
   1Nagoya University, Japan
   2Nissan Motor Co., Japan
P1046C  Tuning of magnetic properties of iron-filled carbon nanotubes  
A. Nagata, N. Kubonaka, H. Sato, Y. Fujiwara  
Mie University, Japan

P1047C  Effects of carbon nanowall scaffold and their chemical termination on cell culturing  
1H. Watanabe, 1H. Kondo, 2Y. Okamoto, 3M. Sekine, 2M. Hiramatsu, 1Y. Baba, 1M. Hori  
1Nagoya university, Japan  
2Meijo University, Japan  
3Meijo University, Japan

P1048C  S-parameter characterization of radio-frequency FETs with high-purity semiconductor carbon nanotubes  
1M. Inagaki, 1K. Hata, 2K. Shiozawa, 2Y. Miyata, 1Y. Ohno, 1S. Kishimoto, 2H. Shinohara, 1T. Mizutani  
1Nagoya University, Japan  
2Nagoya University, Japan

P1049C  The purity-control growth of bamboo-like multi-walled carbon nanotubes over copper catalysts  
Y. Lin, J. Lin  
National University of Tainan, Taiwan

P1050C  Synthesis of L10-ordered FePt nanoparticles encaged in carbon nanotubes  
1K. Hori, 1T. Kaneko, 1Y. Fujiwara, 1H. Sato, 1K. Maeda, 1T. Kato, 1T. Kobayashi, 2S. Iwata, 3M. Jimbo  
1Mie University, Japan  
2Nagoya University, Japan  
3Daido University, Japan

P1051C  Tight-binding approach to C clustering at a step of SiC(0001)  
1M. Inoue, 2Y. Kangawa, 3H. Kageshima, 3K. Kakimoto  
1Kyushu University, Japan  
2Kyushu University, Japan  
3NTT Corporation, Japan

P1052C  High-performance, flexible, grid-structured carbon nanotube transparent conductive films  
1N. Fukaya, 2Y. Kataoka, 2D. Kim, 2S. Kishimoto, 1T. Mizutani, 2S. Noda, 1Y. Ohno  
1Nagoya University, Japan  
2The University of Tokyo, Japan  
3Waseda University, Japan
P1053C  **Graphene growth by plasma CVD**  
National Institute of Advanced Industrial Science and Technology, Japan

P1054C  **Electrical characteristics of UV/ozone-treated graphene**  
Y. Mulyana, M. Horita, Y. Ishikawa, Y. Uraoka, S. Koh  
Nara Institute of Science and Technology (NAIST), Japan

P1055C  **Fabrication of diamond/Heusler heterojunctions for spintronic applications**  
T. Soumiya, K. Ueda, M. Nishiwaki, K. Kawamoto, N. Fukatani, H. Asano  
Nagoya University, Japan

P1056C  **Synthesis of large area graphene by surface wave plasma CVD for transparent electrode application**  
\(^1\)G. Kalita, \(^2\)K. Wakita, \(^3\)M. Umeno, \(^3\)M. Tanemura  
\(^1\)Nagoya Institute of Technology, Japan  
\(^2\)Chubu University, Japan  
\(^3\)Nagoya Institute of Technology, Japan

P1057C  **Tuning the field emission properties of conical nanocarbon structures for transparent and flexible displays**  
Withdrawn  
Nagoya Institute of Technology, Japan

P1058C  **In-situ transmission electron microscopy observation of structural change during field emission process for Au-included carbon nanofibers**  
\(^1\)C. Takahashi, \(^1\)Y. Yaakob, \(^1\)Z. Yusop, \(^1\)M. Tanemura  
\(^1\)Nagoya Institute of Technology, Japan  
\(^2\)Universiti Teknologi Malaysia, Malaysia

P1059C  **Diagnostics of particles in arc plasma for synthesizing single-wall carbon nanotubes**  
\(^1\)A. Ando, \(^2\)K. Takeda, \(^1\)T. Ohta, \(^1\)M. Ito, \(^1\)M. Hiramatsu, \(^2\)T. Suzuki, \(^3\)S. Inoue, \(^3\)Y. Ando, \(^3\)M. Hori  
\(^1\)Meijo University, Japan  
\(^2\)Nagoya University, Japan  
\(^3\)Meijo University, Japan
P1060C  **Formation and characteristics of Pt-Au nanoparticles supported on carbon nanowalls (CNWs) employing a supercritical fluid**

1T. Horibe, 2H. Kondo, 3H. Kano, 4K. Ishikawa, 5M. Sekine, 6M. Hiramatsu, 7M. Hori

1Nagoya University, Japan  
2NU Eco Engineering, Co., Ltd., Japan  
3Meijo University, Japan

P1061C  **Effects of morphological changes induced by hydrogen peroxide treatment on electrical properties of carbon nanowalls**

1H. Shimoeda, 2H. Kondo, 3K. Takeda, 4K. Ishikawa, 5M. Hiramatsu, 6M. Sekine, 7M. Hori

1Nagoya University, Japan  
2Meijo University, Japan

P1062C  **Fabrication of carbon nanotube/zinc oxide composite films by microwave plasma jet chemical vapor deposition system**

C. Su, C. Huang

National Taipei University of Technology, Taiwan

P1063C  **Platelet adhesion on graphene containing carbon film prepared by pulsed plasma CVD**

1T. Yoshida, 2M. Matsushima, 3M. Noda, 4T. Kizuki, 5Y. Kodama, 6H. Uchida, 7M. Umeno, 8K. Wakita

1Chubu University, Japan  
2Pulse Plasma Technology GK, Japan

P1064C  **Crystallographic and electrical properties of vertically-grown graphene sheets by CH4/H2 plasma**

1H. Cho, 2H. Kondo, 3K. Ishikawa, 4M. Sekine, 5M. Hiramatsu, 6M. Hori

1Nagoya University, Japan  
2Meijo University, Japan

P1065C  **Area-selective growth of carbon nanowall using plasma-enhanced CVD**

1R. Tsukada, 2M. Hiramatsu, 3H. Kondo, 4M. Hori

1Meijo University, Japan  
2Nagoya University, Japan

P1066C  **Preparation of hydrogen-free DLC film on bottom of narrow hole by t-shape filtered-arc-deposition with pulse substrate bias**

Y. Morita, M. Hosoo, T. Kashiwagi, H. Tanoue, Y. Suda, H. Takikawa

Toyohashi University of Technology, Japan
P1067C  Effect of Ar gas addition on photoconductive characteristics of amorphous carbon films synthesized by plasma-enhanced chemical vapor deposition
L. Yu, J. Kuki, H. Kondo, K. Ishikawa, M. Sekine, M. Hori
Nagoya University, Japan

P1068C  Synthesis mechanism of carbon nanoparticle by solution plasma process in organic solutions
O. Li, J. Kang, N. Saito
1Nagoya University, Japan
2Nagoya University, Japan
3Nagoya University, Japan

P1069C  Properties of iodine doped amorphous carbon thin film by thermal CVD
D. Kamaruzaman, N. Ahmad, M. Rusop
1Universiti Teknologi MARA (UiTM), Malaysia
2Universiti Teknologi MARA (UiTM), Malaysia

P1070C  Growth of graphene by low-pressure alcohol catalytic chemical vapor deposition method
T. Maesaka, H. Sato, H. Miyake, K. Hiramatsu
Mie University, Japan

P1071C  Room temperature fabrication of Au- and Ag- incorporated carbon nanofibers by ion irradiation and their field emission properties.
1Nagoya Institute of Technology, Japan
2Universiti Putra Malaysia, Malaysia
3Universiti Teknologi Malaysia, Malaysia

P1072C  Superior properties of carbon nanowalls as cell scaffolds
Y. Okamoto, H. Watanabe, K. Kubo, H. Kondo, N. Kaji, M. Tokeshi, M. Hori, Y. Baba
Nagoya University, Japan

P1073C  Synthesis and FT-IR studies of ruthenium complexes in WO3 nanocomposite
H. Sung, T. Her, W. Su, C. Cheng
1National Taiwan Normal University, Taiwan
2Lunghwa University of Science and Technology, Taiwan
3National Taiwan Normal University, Taiwan
P1074C  **Surface-enhanced raman spectra of individual carbon nanowire**  
1X. Hou, 1L. Sheng, 1K. An, 1L. Yu, 2Y. Ando, 1X. Zhao  
1Shanghai University, China  
2Meijo University, Japan

P1075C  **Effects of surface structure on formation of graphene layer on nickel by pulse arc plasma deposition**  
K. Banno, K. Fujita, T. Egawa, T. Soga  
Nagoya Institute of Technology, Japan

P1076C  **Improvement of chemical vapor deposition for the purity of multi-walled carbon nanocoils**  
1Y. Suda, 1S. Lim, 1K. Maruyama, 1H. Tanoue, 1H. Takikawa, 2H. Ue, 3K. Shimizu  
1Toyohashi University of Technology, Japan  
2Tokai Carbon Co., Ltd., Japan  
3Shonan Plastic Mfg. Co., Ltd., Japan

P1077C  **Fabrication of carbon films using microwave plasma-enhanced CVD**  
1Y. Kashima, 1M. Hiramatsu, 2H. Kondo, 3M. Hori  
1Meijo University, Japan  
2Nagoya University, Japan

P1078C  **Iodine doped carbon nanotubes obtained by electrochemical method**  
1H. Song, 1Y. Ishii, 2T. Sakai, 1S. Kawasaki  
1Nagoya Institute of Technology, Japan  
2Toyota Motor Corporation, Japan

P1079C  **Electrochemical properties of carbon black nanoparticles by liquid phase plasma**  
1K. Yun, 1B. Kim, 1H. Jung, 2W. Kang, 3S. Jung, 1S. Myung, 1S. Kim  
1Sejong University, Korea  
2Sunchon National University, Korea  
3Inha Technical College, Korea

P1080C  **Effect of ion acceleration onto the catalytic nanoparticles during the surface-wave plasma CVD on the low-temperature growth of carbon nanomaterials**  
1R. Bekarevich, 1S. Miura, 1A. Ogino, 2A. Rahachou, 1M. Nagatsu  
1Shizuoka University, Japan  
2Francisk Skarina Homel State University, Belarus
Controllable graphene doping with plasma
1J. Seo, 2T. Kim, 2H. Jeong, 2K. Kim, 1J. An, 1J. Bae, 2G. Yeom
1Sungkyunkwan University, Korea
2Sungkyun Advanced Institute of Nanotechnology (SAINT), Korea

Cu alloy film for reliable interconnects
C. Lin
Asia-Pacific Institute of Creativity, Taiwan

Thermal shock behaviour of ZrO2/Ti functionally graded materials fabricated by spark plasma sintering
H. Tsukamoto, Y. Komiya, H. Sato, Y. Watanabe
Nagoya Institute of Technology, Japan

Processing and characterization of carbon nanotube-exfoliated graphite nanoplatelet hybrid composites
1M. Kim, 1B. Kim, 1Y. Park, 2D. Son, 2D. Choi
1Ulsan National Institute of Science and Technology, Korea
2Dongkook Ind. Co. Ltd., Korea

Development of PA6 - carbon nanotube composite for mechanical application
1T. Suzuki, 1S. Inoue, 1D. Tsuboi, 2K. Nojima, 2A. Tsuchimoto, 1Y. Ando
1Meijo University, Japan
2Toyojyushi Corporation, Japan

Field emission properties of carbon nanotube - zinc oxide films by microwave plasma chemical vapor deposition system
C. Su, C. Huang
National Taipei University of Technology, Taiwan

Fabrication of Al-diamond grinding wheel using composite particles
1K. Taniguchi, 1T. Kunimine, 1H. Sato, 2K. Kurachi, 1Y. Watanabe
1Nagoya Institute of Technology, Japan
2Gifu Prefectural Ceramics Research Institute, Japan
P1088C Novel diffraction gratings fabricated by plasma nano-technologies
N. Ebizuka, M. Sasaki, A. Bianco, F. Zerbi, Y. Hirahara, W. Aoki, M. Hori
Nagoya University, Japan
Toyota Technological Institute, Japan
INAF Osservatorio Astronomico di Brera, Italy
Nagoya University, Japan
National Astronomical Observatory, Japan

P1089C Resistive switching behaviors of Si-rich oxide with Ti-based electrodes
A. Ohta, M. Fukusima, K. Makihara, S. Higashi, S. Miyazaki
Hiroshima University, Japan
Nagoya University, Japan

P1090C Novel grain refiner with SUS304L stainless steel particles for Al casts
N. Oshima, Y. Komiya, H. Tsukamoto, H. Sato, Y. Watanabe
Nagoya Institute of Technology, Japan

P1091C Development of Cu-based composites containing graphite particles by centrifugal mixed-powder method
H. Sato, K. Oguri, M. Yamada, Y. Oya, T. Kunimine, Y. Watanabe
Nagoya Institute of Technology, Japan
Ohya-Chuzoshio Co., Ltd., Japan

P1092C Microstructure of Cu/graphite composites formed by the addition of Ti
W. Wei, M. Yamada, Y. Oya, H. Sato, Y. Watanabe
Nagoya Institute of Technology, Japan
Ohya-Chuzoshio Co., Ltd., Japan

P1093C Development of CrSiC/Cr/CrSiC three-layered strain sensitive films for high-temperature pressure sensors
Technology Research Institute of Osaka Prefecture, Japan
Nippon Liniax Co. Ltd., Japan

P1094C Anomalous phase transformation behavior induced by shot-peening for 304 type stainless steel
A. Namba, H. Sato, Y. Watanabe
Nagoya Institute of Technology, Japan
P1095C  **Grain refinement of Al cast by reaction centrifugal mixed-powder method**

K. Yamauchi, T. Kunimine, H. Sato, Y. Watanabe  
Nagoya Institute of Technology, Japan

P1096C  **Simultaneous deposition and photoresponse of PbSe/ZnSe composite thin film**

S. Abe  
Research Institute for Electromagnetic Materials, Japan

P1097C  **Development of centrifugal caster for manufacturing of FGMs**

1M. Setoguchi, 1,2Y. Oya, 1H. Sato, 2Y. Watanabe  
1Nagoya Institute of Technology, Japan  
2Ohya-Chuzoshi Co., Ltd., Japan

P1098C  **Preparation of Ni(II) complexes with N,S-type macrocycle ligands and their reaction with hydride**

T. Ozawa, Y. Nodo, Z. Zhang, T. Inomata, Y. Funahashi, H. Masuda  
Nagoya Institute of Technology, Japan

P1099C  **Effect of casting condition on particle distribution in diamond dispersed metal-based FGM fabricated by a centrifugal mixed-powder method**

1E. Miura-Fujiwara, 2M. Yamada, 3H. Sato, 5T. Kunimine, 6Y. Watanabe  
1University of Hyogo, Japan  
2Nagoya Institute of Technology, Japan

P1100C  **Syntheses and characterizations of Co complexes with a neutral N2S2 donor ligand**

M. Shinmura, T. Inomata, Y. Funahashi, T. Ozawa, H. Masuda  
Nagoya Institute of Technology, Japan

P1101C  **Effects of particles distribution on wear behavior of dispersion hardened alloys**

T. Tanaka, H. Sato, Y. Watanabe  
Nagoya Institute of Technology, Japan

P1102C  **Selective hydroxylation of benzene to phenol using hydrophilic copper complex in presence of hydrogen peroxide**

M. Kamiya, T. Inomata, T. Ozawa, H. Masuda  
Nagoya Institute of Technology, Japan
P1103C  Machinability of CFRP plates by functionally graded grinding wheel with nano-composite abrasive grains fabricated by centrifugal sintered-casting method
1T. Kunimine, 2H. Tsuge, 3K. Kurachi, 4M. Yamada, 5H. Sato, 6Y. Watanabe
1Nagoya Institute of Technology, Japan
2Industrial Research Institute of Gifu Prefecture, Japan
3Gifu Prefectural Ceramics Research Institute, Japan

P1104C  Structural and photoelectrical properties of Cu2O and Cu2O-Ag2O layers synthesized by plasma oxidation
1C. Tseng, 2J. Hsieh, 3Y. Setsuhara, 4K. Huang, 5Y. Chang, 6W. Wu
1National Chung Hsing University, Taiwan
2Mingchi University of Technology, Taiwan
3Osaka University, Japan
4National Central University, Taiwan
5National Taipei University of Technology, Taiwan

P1105C  Mechanical properties of high-strength brass pipe fabricated by centrifugal casting with machining chips
1Y. Oya, 2T. Funase, 3H. Sato, 4Y. Watanabe
1Nagoya Institute of Technology, Japan
2Ohya-Chuzo Co., Ltd., Japan

P1106C  Nanostructural characterization of GaBa2Cu3Oy containing nano-sized BaMO3 (M: Hf, Zr, Sn) rods fabricated by pulsed laser deposition
1D. Yokoe, 2T. Kato, 3H. Tobita, 4A. Ibi, 5M. Yoshizumi, 6T. Izumi, 7T. Hirayama, 8Y. Shiohara
1Japan Fine Ceramics Center, Japan
2International Superconductivity Technology Center, Japan
3Fujikura Ltd., Japan

P1107C  Processing of SiC-particle-dispersed Al-matrix composites in solid-liquid co-existent state by SPS and their thermal properties
1K. Mizuuchi, 2K. Inoue, 3Y. Agari, 4J. Tani, 5M. Sugioika, 6M. Tanaka, 7T. Takeuchi, 8M. Kawahara, 9Y. Makino, 10M. Ito
1Osaka Municipal Technical Research Institute, Japan
2University of Washington, USA
3Fuji Electronic Industrial Co., Ltd., Japan
4Osaka University, Japan

P1108C  Composition gradient in thick TiSiCN nanocomposites with plasma enhanced magnetron sputtering for mechanical strengthening
1Y. Chan, 2H. Chen, 3R. Wei, 4J. Duh
1National Tsing-Hua University, Taiwan
2Southwest Research Institute, USA