

Best Poster Award Winners

The 3rd International Symposium on Advanced Materials Development and Integration of Novel Structured Metallic and Inorganic Materials (AMDI-3)

- P7-01** **S. Ohara**, Z. Tan, K. Yamamoto, T. Hashishin
(Osaka Univ., Japan)
Hydrothermal Synthesis and Bio-Molecules Joining of Ceramic Nanocrystals towards Bio-Medical Applications
- P7-06** **Y. Tsutsumi**¹, Y. Yokoyama², S. Migita¹, Suyalatu¹, H. Doi¹, N. Nomura¹, A. Inoue², T. Hanawa¹
(¹Tokyo Medical & Dental Univ., Japan; ²Tohoku Univ., Japan)
Development of Zirconium-Based Bulk Metallic Glass with High-Corrosion Resistance in Simulated Body Fluid by Addition of Small Amount of Ag and Au
- P7-08** **Suyalatu**¹, N. Nomura¹, A. Takaichi¹, T. Nakamoto², H. Doi¹, Y. Tsutsumi¹, S. Migita¹, N. Wakabayashi¹, Y. Igarashi¹, T. Hanawa¹
(¹Tokyo Medical & Dental Univ., Japan; ²Tech. Res. Inst. of Osaka Pref., Japan)
Microstructure and Mechanical Properties of Nitrogen-Containing Co-Cr-Mo Alloy Fabricated by Selective Laser Melting Process for Dental Applications
- P7-11** **G. Xie**, F. Qin, S. Zhu, I. Seki
(Tohoku Univ., Japan)
Microstructure and Properties of Porous Ni-Free Ti-Based Bulk Metallic Glasses Fabricated by Spark Plasma Sintering
- P7-17** **Y. Fukushima**¹, K. Katsumata¹, T. Ikoma¹, J. Tanaka¹, S. Zhu², G. Xie², M. Niinomi², M. Tsukamoto³, T. Shinonaga³, K. Okada¹, N. Matsushita¹
(¹Tokyo Inst. of Tech., Japan; ²Tohoku Univ., Japan; ³Osaka Univ., Japan)
Surface Modification on Zr-Based Bulk Metallic Glasses By Hydrothermal-Anodization for Inducing Hydroxyapatite
- P7-21** **T. Yoshioka**¹, N. Saito¹, T. Ikoma¹, N. Ohashi², T. Ebisawa³, H. Haida³, A. Nakajima³, R. Wakita³, H. Fukayama³, M. Umino⁴, J. Tanaka¹
(¹Tokyo Inst. of Tech Japan; ²NIMS, Japan; ³Tokyo Medical & Dental Univ., Japan; ⁴TTI ellebeau, Inc., Japan)
Electro-Responsive Drug Delivery of Electrochemically Deposited Alginate Gels on Metals
- P7-24** **C.Y. Chen**¹, F. Chimoto¹, K. Ozasa², K. Katsumata¹, J. Hieda³, M. Nakai³, M. Maeda², M. Niinomi³, K. Okada¹, N. Matsushita¹
(¹Tokyo Inst. of Techn., Japan; ²RIKEN, Japan; ³Tohoku Univ., Japan)
Self-Organized Ti-Nb-Ta-Zr-O Mixed Oxide Nanotubes Array and Its Applications
- P7-29** **A. Uchida**¹, H. Kawaji¹, M. Fukuhara², A. Inoue³
(¹Tokyo Inst. of Tech., Japan; ²Res. Inst. for Electromagnetic Mater., Japan; ³Tohoku Univ., Japan)
Composition Dependence of Heat Capacity and Stability of the Glassy State in Ni-Nb-Zr Metallic Glasses
- P7-34** **R. Yano**, A. Isayama, T. Sasagawa
(Tokyo Inst. of Tech. Japan)
Synthesis and Characterization of Thiospinels (Cu,Zn)Cr₂S₄ as Candidate Half-Metals

- P7-51** **K. Ito**¹, K. Hamasaka², Y. Hayakawa², Y. Shirai², M. Murakami³
(¹Osaka Univ., Japan; ²Kyoto Univ., Japan; ³The Ritsumeikan Trust, Japan)
Reduction of Process Temperature and Time for Producing Low-Resistivity and Excellent-Adhesion Cu Interconnects on Glass Substrates Using Cu(Mg) Alloy Films
- P7-54** **H. Nishikawa**¹, T. Naoi¹, M. Saito², J. Mizuno², M. Fukuhara³
(¹Osaka Univ., Japan; ²Waseda Univ., Japan; ³Tohoku Univ., Japan)
Effect of Surface Conditions on Wetting Behavior of Sn-3.0Ag-0.5Cu Solder on Cu-Based Bulk Metallic Glass
- P7-59** **H. Abe**¹, A. Kondo¹, M. Niato¹, T. Yogo²
(¹Osaka Univ., Japan; ²Nagoya Univ., Japan)
Fabrication of Finely-Structured Ni-YSZ Anode for Lower Temperature Operation of SOFCs
- P7-60** **T. Hoshino**, M. Hattori, M. Moriya, W. Sakamoto, T. Yogo
(Nagoya Univ., Japan)
Synthesis of Proton Conducting Membranes Consisting of Inorganic-Organic Hybrid Structure
- P7-72** **T. Shinonaga**¹, M. Tsukamoto¹, N. Horiguchi¹, A. Nagai², K. Yamashita², T. Hanawa²,
(P5-10) N. Matsushita³, X. Guoqiang⁴, N. Abe¹
(¹Osaka Univ., Japan; ²Tokyo Medical & Dental Univ., Japan; ³Tokyo Inst. of Tech., Japan; ⁴Tohoku Univ., Japan)
Periodic Nanostructures Formation on Titanium Dioxide Film by Femtosecond Laser Irradiation for Improving Biocompatibility