

Best Poster Award Winners

The 5th International Symposium on Designing, Processing and Properties of Advanced Engineering Materials (ISAEM-2012)

3-D Imaging

- P1-03** **D. Seo**¹, F. Tomizato¹, H. Toda¹, K. Uesugi², A. Takeuchi², Y. Suzuki², M. Kobayashi¹
(¹Toyohashi Univ. of Tech., Japan; ²JASRI, Japan)
Spatial Resolution of Synchrotron X-Ray Microtomography for Transition Metals
- P1-08** **Y. Masuda**¹, I. Kamimura², Y. Adachi¹
(¹Kagoshima Univ., Japan; ²Maxnet Co., Ltd., Japan)
A Critical Unit Volume Required to Obtain Reliable Features of 3D Image Data Set

Biomedical Materials

- P2-01** **R. Sakai**¹, B. John¹, M. Okamoto¹, J.V. Seppälä², J. Vaithilingam³, H. Hussein³, R. Goodridge³
(¹Toyota Tech. Inst. Japan; ²Aalto Univ., Finland; ³Loughborough Univ., UK)
Fabrication of Polylactide Based Biodegradable Thermoset Scaffolds for Tissue Engineering Applications
- P2-05** **M. Kyuzo**¹, Y. Inoue¹, S. Migita², Suyalatu², Y. Tsutsumi², H. Doi², N. Nomura², K. Ishihara¹, T. Hanawa^{1,2}
(The Univ. of Tokyo, Japan; ²Tokyo Medical & Dental Univ., Japan)
Improvement of Biocompatibility of Metal Surface by Electrodeposition of Phospholipid Polymer
- P2-12** **W. Jun**, T. Ishimoto, T. Nakano
(Osaka Univ., Japan)
Change in Biological Apatite Orientation in Rat Long Bone by Increased Mechanical Loading
- P2-13** **K. Ueda**¹, K. Nakaie¹, S. Namba², T. Yoneda³, K. Ishimizu⁴, T. Narushima¹
(¹Tohoku Univ., Japan; ²Kobe Steel, Ltd., Japan; ³Yoneda Advanced Casting Co., Ltd., Japan; ⁴KYOCERA Medical Corp., Japan)
Effect of Precipitates on the Wear Behavior of Co-Cr-Mo Alloys in Simulated Body Fluids
- P2-18** **A. Obata**¹, K. Fujikura¹, J. R. Jones², T. Kasuga¹
(¹Nagoya Inst. of Tech., Japan; ²Imperial College London, UK)
Cell Compatibility and Mechanical Property of Poly (Lactic Acid)-Based Electrospun Fibremats

Ceramics

- P3-01** **K. Hattori**¹, M. Beck², K. Kakimoto¹, A. Roosen²
(¹Nagoya Inst. of Tech, Japan; ²Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)
Effect of Lamination Methods on Transparent Spinel Ceramics

Polymeric materials

- P4-02** **F. Iyoda**¹, S. Hayashi¹, S. Arakawa¹, M. Okamoto¹, H. Hayashi²
(¹Toyota Tech. Inst., Japan; ²Tsuchiya Co., Ltd, Japan)
Nanostructure and Adsorption Behavior of Natural/Synthetic Allophanes
- P4-08** **M. Ito**, K. Tsuchiya, K. Hashimoto, T. Kawauchi, T. Takeichi
(Toyohashi Univ. of Tech., Japan)
Synthesis of Liquid Crystalline Benzoxazines and Control of High-Order Structure

Material processing

- P5-01** **I. Matsui**, Y. Takigawa, T. Uesugi, K. Higashi
(Osaka Pref. Univ., Japan)
Effect of Additives on Mechanical Properties of Electrodeposited Bulk Nanocrystalline Ni–W Alloys
- P5-05** **K. Takeshima**, T. Uesugi, Y. Takigawa, K. Higashi
(Osaka Pref. Univ., Japan)
Solute-Diffusion-Controlled Dislocation Creep in Al-22.2, 53.6 and 101 at.ppm Fe Solid Solution Alloys
- P5-08** **K. Nishiyama**, J. Sasano, M. Izaki
(Toyohashi Univ. of Tech., Japan)
Anodic Electrodeposition of Tungsten Oxide Films Directly from Aqueous Solution
- P5-20** **F.Q. Meng**^{1,2}, K. Tsuchiya^{1,2}, Q.S. Mei², Y. Yokoyama³
(¹Univ. of Tsukuba, Japan; ²NIMS, Japan; ³Tohoku Univ., Japan)
Temperature Dependence of Amorphization Process in Zr-Cu-Al Alloys Induced by High-Pressure Torsion
- P5-26** **R. Fujimoto**, Y. Todaka, Y. Adachi, K. Shimizu, M. Umemoto
(Toyohashi Univ. of Tech., Japan)
Synthesis and Thermoelectric Characterization of Ca-Mg-Si Alloys
- P5-27** **N. Adachi**¹, Y. Todaka¹, K. Shintani¹, Y. Yokoyama², M. Umemoto¹
(¹Toyohashi Univ. of Tech., Japan; ²Tohoku Univ., Japan)
Effect of Residual Stress on Hardness in Deformed Zr₅₀Cu₄₀Al₁₀ Bulk Glassy Alloy by High-Pressure Torsion –Straining

Materials Simulation

- P6-03** **S. Yamakawa**^{1,2}, R. Asahi¹, T. Koyama²
(¹Toyota Central R&D Labs., Inc., Japan; ²Nagoya Inst. Tech., Japan)
Phase-Field Study of Phase Transformations in Platinum-Based Alloy Nanoparticles