

## 2009 — KIRIHARA Soshu

### Scientific Papers/Commentary Articles

1. Zhongqi Shi, Mohamed Radwan, Soshu Kirihara, Yoshinari Miyamoto, Zhihao Jin, Enhanced Thermal Conductivity of Polymer Composites Filled with Three-dimensional Brush-like AlN Nanowhiskers, *Applied Physics Letters*, 95(23), 224101-1-224101-3, 2010
2. Soshu Kirihara, Structural Joining of Ceramics Nanoparticles: Development of Photonic Crystals for Terahertz Wave Control by Using Micro Stereolithography, *KONA Powder and Particle Journal*, 27, 107-118, 2009
3. Soshu Kirihara, Kota Tsutsumi, Yoshinari Miyamoto, Localization Behavior of Microwaves in Three-Dimensional Menger Sponge Fractals Fabricated from Metallodielectric Cu/Polyester Media, *Science of Advanced Materials*, 1(2), 175-181, 2009
4. Soshu Kirihara, Daisuke Sano, Masaru Kaneko, Smart Processing in Materials Tectonics: Fabrication of Photonic Crystal and Fractals for Terahertz Wave Control by Using Micro-stereolithography, *Tsinghua Science and Technology*, 14(1), 160-163, 2009
5. Soshu Kirihara, Masaru Kaneko, Toshiki Niki, Terahertz Wave Behaviors in Dielectric Micro Patterns with Polygon Tablets Fabricated by Spatial Joining of Stereolithography, *Journal of Physics: Conference Series*, 165(1), 12082-1-12082-6, 2009
6. Toshiki Niki, Soshu Kirihara, Fabrication of Terahertz Wave Resonators of Twinned Photonic Crystals with Alumina Diamond Lattices by Using Micro-stereolithography, *Ceramic Interconnect and Ceramic Microsystems Technology*, 5, 106-111, 2009
7. Soshu Kirihara, Noritoshi Ohta, Toshiki Niki, Masaru Kaneko, Materials Tectonics by Structural Joinings: Fabrication of Ceramics Micro Patterns with Dielectric Polygon Tablets for Terahertz Wave Resonations by Using Stereolithography, *Ceramic Interconnect and Ceramic Microsystems Technology*, 5, 143-148, 2009
8. Yuta Yamamoto, Soshu Kirihara, Development of WC-Co/SUS304 Functionally Graded Materials by Using Three Dimensional Micro Welding, *Materials Science Forum*, 631-632, 265-270, 2009
9. Daisuke Sano, Soshu Kirihara, Fabrication of Metal Photonic Crystals with Graded Lattice Spacing by Using Micro-stereolithography, *Materials Science Forum*, 631-632, 287-292, 2009
10. Daisuke Sano, Soshu Kirihara, Microwave Emission from Metal Photonic Crystals Fabricated by Using Stereolithography, *Ferroelectrics*, 388, 23-30, 2009
11. Masaru Kaneko, Soshu Kirihara, Millimeter Wave Control Using TiO<sub>2</sub> Photonic Crystal with Diamond Structure Fabricated by Micro-stereolithography, *Materials Science Forum*, 631-632, 293-298, 2009

12. Soshu Kirihara, Terahertz Wave Properties of Ceramic Photonic with Graded Structure Fabricated by Using Micro-stereolithography, *Materials Science Forum*, 631-632, 299-304, 2009
13. Soshu Kirihara, Toshiki Niki, Masaru Kaneko, Three-Dimensional Material Tectonics for Electromagnetic Wave Control by Using Micro-Stereolithography, *Ferroelectrics*, 387, 102-111, 2009

#### **International Conference Proceedings**

1. Mitsuyori Suwa, Soshu Kirihara, Taiji Sohmura, Fabrication of Glass Coated Ceramic Dental-Crown Models Through Stereolithography of Structural Joining Processes, *Proceedings of International Conference on Welding Science and Engineering*, 142-144, 2009
2. Toshiki Niki, Soshu Kirihara, Fabrication of Twinned Photonic Crystals with Alumina Diamond Lattices for Terahertz Wave Resonators by Structural Joining, *Proceedings of International Conference on Welding Science and Engineering*, 145-147, 2009
3. Masaru Kaneko, Soshu Kirihara, Millimeter Wave Properties of Titania Photonic Crystals with Diamond Structures Fabricated by Using Micro-stereolithography, *Proceedings of the 33rd International Conference Advanced Ceramics and Composites*, 30(8), 157-164, 2009
4. Soshu Kirihara, Yohei Takinami, Yuta Yamamoto, Toshihide Horii, Freeform Fabrications of Metal and Alloy Components with Structural and Compositional Distributions through Micro Welding Tectonics, *Proceedings of Materials Science and Technology*, ISBN-13:978-1-61503-4, 2619-2626, 2009

#### **Awards**

1. Soshu Kirihara, Global Star Award of The American Ceramic Society, 2009.7.23

#### **Symposia**

1. The Third International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials, and Joining Technology for New Metallic Glasses and Inorganic Materials (ICCCI 2009), Invited speakers: Prof. Nicolas Eustathopoulos, LTPCM, France/Prof. Alfons Fischer, Univ. Duisburg-Essen, Germany/Prof. Manfred Rühle, MPI für Metallforschung, Germany/Dr. Mrityunjay Singh, NASA, USA/Dr. Natalia Sobczak, Foundry Research Institute, Poland
2. International Symposium on Advanced Materials Design and Processing (AMDP), Invited

speakers: Prof. Antoni Tomsia, Lawrence Berkeley National Lab., USA/Dr. Natalia Sobczak,  
Foundry Research Institute, Poland/Dr. Stephen Freiman, Freiman Consulting Inc., USA