

2010 年度業績 — 桐原 聡秀

学術論文・解説記事

1. Soshu Kirihara, Noritoshi Ohta, Toshiki Nikil, Masaru Kaneko, Terahertz Wave Properties of Alumina Photonic Crystals, *Ceramic Transactions*, 216, 121-127, 2010
2. Soshu Kirihara, Toshiki Nikil, Masaru Kaneko, Terahertz Wave Harmonization in Geometrically Patterned Dielectric Ceramics Through Spatially Structural Joining, *Ceramic Transactions*, 216, 113-119, 2010
3. Mitsuyori Suwa, Soshu Kirihara, Taiji Sohmura, Freeform Fabrication and Structural Controls of Alumina Dental-Crown Models by Using Stereolithography, *Ceramic Transactions*, 218, 213-220, 2010
4. 瀧波 洋平, 桐原 聡秀, 金属パターンへの誘電体パーコレーションによるマイクロ波構造の作製, *傾斜機能材料論文集*, 20, 31-36, 2010
5. 前田 智秋, 諏訪 充頼, 桐原 聡秀, 傾斜構造を有するハイドロキシアパタイト製バイオスキャフォールドの光造形, *傾斜機能材料論文集*, 20, 37-40, 2010
6. 太田 憲利, 仁木 俊樹, 桐原 聡秀, アルミナ製ダイヤモンド型フォトニック結晶を用いた水溶液マイクロリアクターへのテラヘルツ波集光, *傾斜機能材料論文集*, 20, 13-18, 2010
7. Soshu Kirihara, Naoki Komori, Noritoshi Ohta, Smart Processing for Ceramics Structure Tectonics: Fabrication of Dielectric Micro Patterns for Artificial Photosynthesis in Terahertz Wave Regions by Using Stereolithography, *Advances in Science and Technology*, 63, 141-146, 2010
8. Soshu Kirihara, Naoki Komori, Maasa Nakano, Noritoshi Ohta, Toshiki Niki, Terahertz Wave Properties of Micro Patterned Titania and Metallic Glass Particles in Hexagonal Tablet Fabricated Using Microstereolithography, *Ceramic Transactions*, 219, 61-66, 2010
9. Mitsuyori Suwa, Soshu Kirihara, Taiji Soumura, Fabrication of Alumina Dental Crowns Using Stereolithography, *Ceramic Transactions*, 219, 331-336, 2010
10. Toshiki Niki, Soshu Kirihara, Fabrication of Alumina Diamond Photonic Crystals with Twinned Interfaced to Develop Terahertz Wave Resonators, *Ceramic Transactions*, 219, 325-330, 2010
11. 桐原 聡秀, 金属製マイクロフォトニック結晶への傾斜構造導入とテラヘルツ波の伝播制御, *材料の科学と工学*, 47, 105-108, 2010
12. 桐原 聡秀, 微粒子溶射サーマルナノスプレーの現状, *溶射技術*, 30, 44-50, 2010
13. 桐原 聡秀, 微粒子溶射サーマルナノスプレーの開発, *溶接技術*, 59, 90-95, 2010

国際会議プロシーディングス

1. Soshu Kiriara, Daisuke Sano, Toshiki Niki, Noritoshi Ohta, Youhei Takinami, Fabrication of Micro Photonic Crystals for Handling of Terahertz Electromagnetic Waves, Proceeding of Nanotech Conference & Expo 2010, 2, 223-226, 2010
2. Soshu Kiriara, Yasunori Uehara, Youhei Takinami, Fabrication of Thermodynamic Crystals by Structural Joining, Proceedings of the 34th International Conference Advanced Ceramics and Composites, 31, 169-174, 2010
3. Mitsuyori Suwa, Soshu Kiriara, Taiji Sohmura, Fabrication of Alumina Dental Crown Model with Biomimetic Structure by Using Stereolithography, Proceedings of the 34th International Conference Advanced Ceramics and Composites, 31, 239-245, 2010
4. Youhei Takinami, Soshu Kiriara, Freeform Joining of Metal Structures to Create Microwave Emission Devices, Proceedings of Materials Science and Technology 2010, ISBN 978-0-87339-756-8, 2723-2731, 2010
5. Soshu Kiriara, Yasunoari Uehara, Youhei Takinami, Development of Thermodynamic Crystals with Diamond Lattice Patterns, Proceedings of Materials Science and Technology 2010, ISBN 978-0-87339-756-8, 852-857, 2010

著書

1. Kevin Ewsuk, Makio Naito, Tomoyuki Kakeshita, Soshu Kiriara, Keizo Uematsu, Hiroya Abe, Characterization and Control of Interfaces for High Quality Advanced Materials III, WILEY, 2010, 総ページ数 405

シンポジウム開催状況

1. 桐原, 3rd International Congress on Ceramics (ICC3), 主な招待講演者 : Kazuo Inamori (Founder and Chairman Emeritus, Kyocera Corporation, Japan), Ludwig J. Gauckler (Professor and Chairman of Department of Materials, Swiss Federal Institute of Technology Zurich , Switzerland), Zhong Lin Wang (Regents' Professor and Director of Center for Nanostructure Characterization, Georgia Institute of Technology, USA) , 参加人数 1949 (外国人参加者数 608)