

賢材研究会活動報告

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岡山大学大学院自然科学研究科 岸本昭

【原著論文】

- A. Kishimoto, T. Nakagawa, T. Teranishi and H. Hayashi,"Superplastically foaming method for reliable porous ceramics",Mater. Sci. Forum,735,109-112,(2013)
- A. Kishimoto, Y. Kamakura, T. Teranishi and H. Hayashi,"Effect of millimeter-wave irradiation on cation interdiffusion in the calcium titanate/strontium titanate ceramic couple",Mater. Chem. Phys.,in press,(2013)
- T. Teranishi, N. Matsubara, H. Hayashi, and A. Kishimoto,"Relation between phonon parameters and oxygen ion conductivity for Al-Yb Co-doped zirconia",Key Eng. Mater.,in press,(2013)
- T. Teranishi, K. Shimizu, H. Hayashi and A. Kishimoto,"Microscopic conduction behavior analysis on ZrO₂-based ion conductors by wideband conductivity measurement",Key Eng. Mater.,in press,(2013)
- T. Teranishi, K. Shimizu, N. Akiyama, Hayashi, A. Kishimoto and K. Fujimori,"Complex Conductivity using Wideband Spectroscopy for Yttria/Ytterbia-Stabilized Zirconia Ceramics",Jpn. J. Appl. Phys.,51,011102,(2012)
- 山岡宏、寺西貴志、林秀考、岸本昭、「超塑性発泡法における窒化物系新規発泡剤の探索と特性評価」,耐火物,64,[1],13-17,(2012)
- 山下恭平、小郷義久、寺西貴志、林秀考、岸本昭、「ミリ波-HIP 複合焼結法で焼成した AlN セラミックスに及ぼす還元雰囲気の影響」,粉体および粉末冶金,59,[1],17-21,(2012)
- T. Teranishi, N. Akiyama, K. Ayano, H. Hayashi, A. Kishimoto, K. Fujimori, T. Hoshina, H. Takeda, and T. Tsurumi,"Quasi-millimeter-wave absorption behavior in Y/Yb-stabilized zirconia ceramics",Appl. Phys. Lett.,100,242903,(2012)
- 石井一也、土井教史、木本雅也、林秀考、岸本昭、「有機物複合共析に及ぼすめっき溶液中金属イオン種の影響」,表面技術,63,[10],47-49,(2012)
- T. Teranishi, Y. Mori, H. Hayashi and A. Kishimoto,"Thermoelectric Property of Polycrystalline Aluminum-Doped Zinc Oxide Enhanced by Micropore Foaming",J. Am. Ceram. Soc.,95,[2],690-695,(2012)
- T. Teranishi, H. Hayashi, A. Kishimoto, and T. Tsurumi,"Broadband spectroscopy of the complex conductivity of polycrystalline yttria-stabilized zirconia",Mater. Sci. & Eng. B.,177,69-73,(2012)
- U. Thanganathan, S. Kumar, A. Kishimoto and K. Kimura,"Synthesis of organic/inorganic hybrid composite membranes and their structural and conductivity properties",Mater. Lett.,72,81-87,(2012)
- 岡田正典、寺西貴志、林秀考、岸本昭、「超塑性発泡法によるセラミックスへの螺旋状連通閉気孔の導入」,粉体および粉末冶金,59,[2],90-94,(2012)

【総説・解説・プロシーディング】

- A. Kishimoto and H. Hayashi,"Superplastically foaming method to make closed pores inclusive porous ceramics",Mater. Sci. & Eng.,IOP Conference Series,18,182002,(2012)
- 岸本昭「窒化物セラミックスへのミリ波照射による拡散促進と迅速焼結」マイクロ波励起・高温非平衡反応場の科学、佐藤元泰、124-129(2012)

【著書・特許】

- 岸本昭 「熱伝導性フィラーと高放熱コンポジット材」 情報機構、161-166(2013)