

Volume 21, Special. 1, May 2019

CONTENTS

Research Articles

- | | | |
|---|---|-----|
| Tunable ternary doping effect of protein-based carbon derived from tofu for energy storage devices | <i>Hyun-Gi Jo, Geon-Hyoung An and Hyo-Jin Ahn</i> | s1 |
| Effect of TiO₂ on the crystallization behaviors and microstructure of glazes based on MgO-Al₂O₃-SiO₂ system | <i>Yoorim Rho, Kangduk Kim and Jin-Ho Kim</i> | s9 |
| Mechanical properties and electrical resistivity of SiC-TiC composites with nitrate sintering additives | <i>Sung Min So, Hee Woong Hwang, Sam Heang Yi, Joo Seok Park, Kyoung Hun Kim, Kwang Ho Lee, Jongee Park and Sung Gap Lee</i> | s16 |
| Enhanced optical output power of AlGaIn/GaN ultraviolet light-emitting diodes fabricated with breakdown induced conductive channels | <i>Seonghoon Jeong, Sung-Nam Lee, Chel-Jong Choi and Hyunsoo Kim</i> | s23 |
| Characterization and synthesis of MnZn ferrite nanoparticles synthesized by thermal decomposition | <i>JinAh Hwang, Byeong-Kwon Ju and MyoungPyo Chun</i> | s28 |
| Cu₃Se₂ counter electrode with rGO interlayer by pulsed electrodeposition for quantum dot-sensitized solar cells | <i>Yong-Han Yun, In-Rok Jo, Young-Hoon Lee, Vu Hong Vinh Quy and Kwang-Soon Ahn</i> | s33 |
| Enhancement of surface roughness of zirconia substrate by slurry coating | <i>Woo Chang Kim and Jong Kook Lee</i> | s41 |
| Effect of gas condition on graphene synthesized by rapid thermal chemical vapor deposition | <i>Yang Soo Lee, Dong In Jeong, Yeojoon Yoon, Byeongmin Baek, Hyung Wook Choi, Seok Bin Kwon, Do Hun Kim, Young Joon Hong, Won Kyu Park, Young Hyun Song, Bong Kyun Kang, Dae Ho Yoon and Woo Seok Yang</i> | s47 |
| Investigation of microstructural and electrical properties of self-aligned Ni-InGaAs alloy contacts to InGaAs as a function of rapid thermal annealing temperature | <i>Shim-Hoon Yuk, Hyun-Gwon Park, V. Janardhanam, Kyu-Hwan Shim, Sung-Nam Lee and Chel Jong Choi</i> | s53 |
| Nano-crystallized glass-ceramic of BaO-TiO₂-SiO₂ system containing ZrO₂ | <i>Byeong-Guk Kang and Seunggu Kang</i> | s58 |
| Enhanced ionic conductivity and suppressed electronic conductivity of an Al- and Mn-added ceria solid electrolyte | <i>Ji Young Park</i> | s63 |
| Influence of substrate surface-grinding on surface roughness of zirconia coatings fabricated by room temperature spray processing | <i>Jeong Jun Kim and Jong Kook Lee</i> | s68 |

Characterization of metakaolin-based lightweight geopolymers with various foaming agents

Yoorim Rho and Seung-Gu Kang

s74

The electrical insulation characteristics of a glass adhesive process for the silicon MEMS element of a pressure sensor

Gon-Jae Lee and Duck-Kyun Choi

s81