CONTENTS

Papers

Study of erosion wear behavior of MgO stabilized ZrO2 ceramics due to solid particles impact at elevated temperature
Minghao FANG, Fengjiao LIU, Li YIN, Xin MIN, Zhaohui HUANG, Yangai LIU, Shusen CHEN, Haipeng JI, Xiaowen WU, Chao TANG and Fei PENG
933

Modified silica ceramic for frequency selective surface radome
Long-Long ZHANG, Ji-Hua ZHANG, Xiao-Lang CHEN, Hong-Wei CHEN and Chuan-Ren YANG
937

Structure and dissolution behavior of MgO–P2O5–TiO2/Nb2O5 (Mg/P ≥ 1) invert glasses
Sungho LEE, Hirotaka MAEDA, Akiko OBATA, Kyosuke UEDA, Takayuki NARUSHIMA and Toshihiro KASUGA
942

High performance transparent glass-ceramics for optical components
Kei MAEDA, Motoyuki HIROSE and Tomoyuki KOBAYASHI
949

Synergistic effects of CeO2-supported bimetallic Ni–Cu, Co–Cu, and Ni–Fe catalysts on steam reforming of ethanol
Takanori SAEKI, Hironobu OKITA, Noriyoshi KAKUTA and Takanori MIZUSHIMA
955
VOC sensing behavior of semiconducting Sm$_2$O$_3$/SmFeO$_3$ mixtures
Yoshiteru ITAGAKI, Kenta FUJIIHASHI, Hiromichi AONO, Masami MORI and Yoshihiko SADAOKA
961

Double-layer dye-sensitized solar cells using SrTiO$_3$ and BaTiO$_3$ second layer with enhanced photovoltaic performance
Yuji OKAMOTO and Yoshikazu SUZUKI
967

Enhanced multiferroic property in Co$_2$O$_3$-added BiFeO$_3$—BaTiO$_3$ ceramics
Xiaochun WU, Xiaolan WU, Lingling LUN, Qiaoji ZHENG and Dunmin LIN
972

Polymerizable complex synthesis of lead-free ferroelectric Na$_{0.5}$Bi$_{0.5}$TiO$_3$ suppressing evaporation of sodium and bismuth
Tomonori YAMATOHI, Hirotaka FUJIMORI and Masashi ARIMURA
978

Assessment of carbon contamination in MgAl$_2$O$_4$ spinel during spark-plasma-sintering (SPS) processing
Koji MORITA, Byung-Nam KIM, Hidehiro YOSHIDA, Keijiro HIRAGA and Yoshiro SAKKA
983

Photoluminescence and cathodoluminescence properties of Li$^+$ doped Gd$_{1.88}$Eu$_{0.12}$O$_3$
Yipu KANG, Yohei SHIMOKAWA, Yasutaka IISHIHARA, Hitoshi TSUJI, Shinobu HASHIMOTO, Lei MIAO, Tanemura SAKAE and Yuji IWAMOTO
989

◆ Note ◆
Formation of CaFe$_2$O$_4$ porous structure by addition of Zr in malic acid complex
Yuki OBUKURO, Kenji OBATA, Ryosuke MAEDA, Shigenori MATSUSHIMA, Yuji OKUYAMA, Naoki MATSUNAGA and Go SAKAI
995
◆ Announcements ◆

CALL for PAPERS Presented at STAC9
A10-1

Regional Editors' Special Issue “Microstructural Design and Control of Ceramics through Sintering”
Call for Papers
A10-2

Call for a Guest Editor for the Feature
A10-3