

CONTENTS—continued from inside back cover

- 2293 Joule heating during flash-sintering
R. RAJ (USA)
- 2303 Effect of loading schedule on densification of MgAl_2O_4 spinel during spark plasma sintering (SPS) processing
K. MORITA (Japan, Germany), B.-N. KIM, H. YOSHIDA, H. ZHANG, K. HIRAGA & Y. SAKKA (Japan)
- 2311 Densification and enhancement of the grain boundary conductivity of gadolinium-doped barium cerate by ultra fast flash grain welding
R. MUCCILLO, E.N.S. MUCCILLO (Brazil) & M. KLEITZ (France)
- 2317 Optimisation of CGO suspensions for inkjet-printed SOFC electrolytes
C. WANG, S.C. HOPKINS, R.I. TOMOV, R.V. KUMAR & B.A. GLOWACKI (UK)
- 2325 Synthesis of $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{2.85}$ powder by gel combustion route with two-step doping strategy
A. LAPINA, S. LI, B. BERGMAN & Z. ZHAO (Sweden)
- 2333 A new simple synthesis and characterization of Sm-doped ceria and its homogeneous precursor $[\text{Ce}_{0.80}\text{Sm}_{0.20}(\text{Ac})_3(\text{Gly})]_n$
T. SKALAR, J. MAČEK & A. GOLOBIČ (Slovenia)
- 2341 Role of oxygen pressure on the stability of lanthanum strontium manganite–yttria stabilized zirconia composite
M.K. MAHAPATRA, S. BHOWMICK, N. LI & P. SINGH (USA)
- 2351 Preparation and characterization of $\text{BaCe}_{0.95}\text{Tb}_{0.05}\text{O}_{3-\alpha}$ hollow fibre membranes for hydrogen permeation
X. TAN, J. SONG, X. MENG & B. MENG (China)
- 2359 Effect of Zn^{2+} substitution on the microwave dielectric properties of LiMgPO_4 and the development of a new temperature stable glass free LTCC
D. THOMAS & M.T. SEBASTIAN (India)
- 2365 Dielectric properties of high-Q $(\text{Mg}_{1-x}\text{Zn}_x)_{1.8}\text{Ti}_{1.1}\text{O}_4$ ceramics at microwave frequency
C.-L. HUANG, Y.-W. TSENG, J.-Y. CHEN & Y.-C. KUO (Taiwan)
- 2373 Effect of small amount of cobalt substitution on structure and microwave dielectric properties of barium magnesium niobate ceramics
C.-T. CHEN, C.-Y. HUANG, H.-J. LIN & C.-T. LEE (Taiwan)
- 2381 Low temperature sintering of ZnO and MnO_2 -added $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ ceramics
I.-Y. KANG, I.-T. SEO, Y.-J. CHA, J.-H. CHOI, S. NAHM, T.-H. SUNG & J.-H. PAIK (Republic of Korea)
- 2389 Structural, dielectric, and piezoelectric properties of fine-grained NBT–BT_{0.11} ceramic derived from gel precursor
M. CERNEA (Romania), C. GALASSI (Italy), B.S. VASILE (Romania), C. CAPIANI (Italy), C. BERBECARU, I. PINTILIE & L. PINTILIE (Romania)
- 2399 The formation of secondary phases in $\text{Bi}_{0.5}\text{Na}_{0.375}\text{K}_{0.125}\text{TiO}_3$ ceramics
M. NADERER, D. SCHÜTZ, T. KAINZ, K. REICHMANN & F. MITTERMAYR (Austria)
- 2405 Development of multilayer textured $\text{Ca}_3\text{Co}_4\text{O}_9$ materials for thermoelectric generators: Influence of the anisotropy on the transport properties
D. KENFAUI, B. LENOIR, D. CHATEIGNER, B. OULADDIAF, M. GOMINA & J.G. NOUDEM (France)
- 2415 Improvement of thermoelectric properties of $\text{Ca}_3\text{Co}_4\text{O}_9$ using soft chemistry synthetic methods
A. SOTELO, G. CONSTANTINESCU, S. RASEKH, M.A. TORRES, J.C. DIEZ & M.A. MADRE (Spain)
- 2423 Effects of Ta^{5+} doping on microstructure evolution, dielectric properties and electrical response in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics
P. THONGBAI, J. JUMPATAM, T. YAMWONG & S. MAENSIRI (Thailand)
- 2431 Low-pressure, thermo-compressive lamination
D. JURKÓW & L. GOLONKA (Poland)

- 2443 Nanosecond reversible solid state switches capable of handling MJ of energy
R. METZ, J. PANSIOT & M. HASSANZADEH (France)
- 2451 Halogen plasma erosion resistance of rare earth oxide films deposited on plasma sprayed alumina coating by aerosol deposition
J.-H. JUNG, B.-D. HAHN, W.-H. YOON, D.-S. PARK, J.-J. CHOI, J. RYU, J.-W. KIM, C. AHN & K.-M. SONG (South Korea)
- 2459 Preparation of (0 2 0)-oriented BaTi_2O_5 thick films and their dielectric responses
A. ITO, D. GUO, R. TU & T. GOTO (Japan)
- 2469 Co-precipitation of a Ni–Zn ferrite precursor powder: Effects of heat treatment conditions and deagglomeration on the structure and magnetic properties
S.M. OLHERO (Portugal, UK), D. SOMA, V.S. AMARAL (Portugal), T.W. BUTTON (UK), F.J. ALVES & J.M.F. FERREIRA (Portugal)
- 2477 Structural and kinetic study of phase transitions in LaYSi_2O_7
A.J. FERNÁNDEZ-CARRIÓN, A. ESCUDERO (Spain), M.R. SUCHOMEL (USA) & A.I. BECERRO (Spain)
- 2487 Light transmittance in α - SiAlON ceramics: Effects of composition, microstructure, and refractive index anisotropy
L. LIU, F. YE, S. ZHENG, B. PENG, W. LUO, Z. ZHANG & Y. ZHOU (China)
- 2495 Lithium insertion into dense and porous carbon-rich polymer-derived SiOC ceramics
P. DIBANDJO (Italy), M. GRACZYK-ZAJAC, R. RIEDEL (Germany), V.S. PRADEEP & G.D. SORARU (Italy)
- 2505 Mechanical and microwave dielectric properties of SiCf/SiC composites with BN interphase prepared by dip-coating process
H. LIU & H. TIAN (China)
- 2513 Electrically conductive silicon carbide with the addition of Ti–NbC
F. FRAJKOROVÁ, M. HNATKO, Z. LENČEŠ & P. ŠAJGALÍK (Slovak Republic)
- 2519 High-temperature bending strength, internal friction and stiffness of ZrB_2 –20 vol% SiC ceramics
J. ZOU (China, Japan, Belgium), G.-J. ZHANG (China), C.-F. HU, T. NISHIMURA, Y. SAKKA, H. TANAKA (Japan), J. VLEUGELS & O. VAN DER BIEST (Belgium)
- 2529 Spark-plasma sintering of ZrB_2 ultra-high-temperature ceramics at lower temperature via nanoscale crystal refinement
V. ZAMORA, A.L. ORTIZ, F. GUIBERTEAU (Spain) & M. NYGREN (Sweden)
- 2537 High-strength ZrB_2 -based ceramics prepared by reactive pulsed electric current sintering of ZrB_2 – ZrH_2 powders
S. RAN (China), S.G. HUANG, O. VAN DER BIEST & J. VLEUGELS (Belgium)
- 2545 Electrical and thermophysical properties of ZrB_2 and HfB_2 based composites
M. MALLIK, A.J. KAILATH, K.K. RAY & R. MITRA (India)
- 2557 Microstructure refinement and mechanical properties improvement of HfB_2 –SiC composites with the incorporation of HfC
D.-W. NI, J.-X. LIU & G.-J. ZHANG (China)
- 2565 Preparation and characterization of freestanding $\text{SiC}(\text{Ti, B})$ films derived from polycarbosilane with TiN and B as additives
R. YAO, Z. FENG, L. CHEN, Y. ZHANG & B. ZHANG (China)
- 2573 Densification and properties of superhard B_6O materials with cobalt additions
O.T. JOHNSON, I. SIGALAS (South Africa), M. HERRMANN & H.J. KLEEBE (Germany)
- 2581 Thermal shock resistance of polycrystalline cubic boron nitride
D. CAROLAN, A. IVANKOVIĆ & N. MURPHY (Ireland)