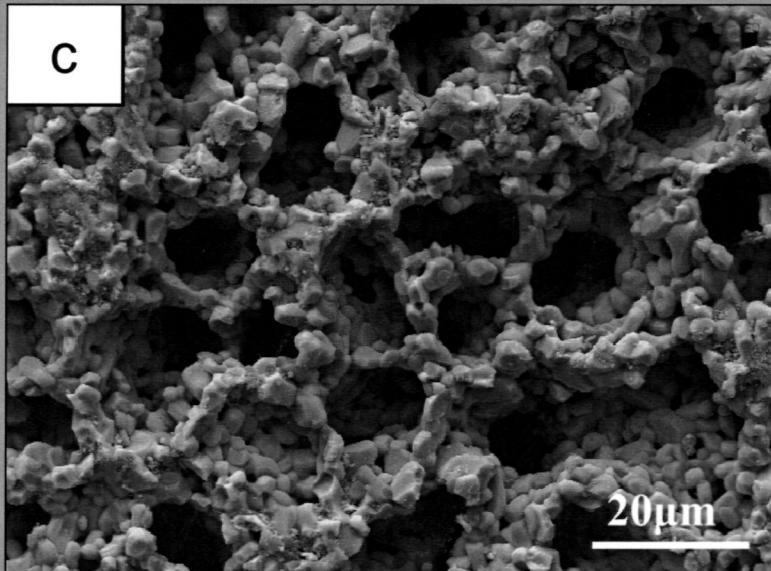


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- 1707  $\text{ZnAl}_2\text{O}_4$ – $\text{TiO}_2$ – $\text{SrAl}_2\text{Si}_2\text{O}_8$  low-permittivity microwave dielectric ceramics  
X.-C. WANG, W. LEI, R. ANG & W.-Z. LU (PR China)
- 1711 Effect of  $\text{V}_2\text{O}_5$  doping on microstructure and electrical properties of  $\text{Bi}_2\text{O}_3$ – $\text{TiO}_2$  solid oxide electrolyte system  
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- 1717 Phase evolution and reduction behavior of  $\text{Ce}_{0.6}\text{Zr}_{0.4}\text{O}_2$  powders prepared using the chemical co-precipitation method  
C.-C. CHUANG, H.-I. HSIANG, F.-S. YEN, C.-C. CHEN & S.-J. YANG (Taiwan)
- 1723 Synthesis and luminescence properties of novel  $\text{LiSr}_4(\text{BO}_3)_3:\text{Dy}^{3+}$  phosphors  
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- 1729 The phase formation and stability of tetragonal  $\text{ZrO}_2$  prepared in a silica bath  
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- 1741 Carbon-doped  $\text{Li}_2\text{SnO}_3$ /graphene as an anode material for lithium-ion batteries  
Y. ZHAO, Y. HUANG, Q. WANG, X. WANG & M. ZONG (PR China)
- 1749 Room-temperature synthesis of CuO/graphene nanocomposite electrodes for high lithium storage capacity  
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- 1757 Structural, Mössbauer and electrical properties of nickel cadmium ferrites  
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- 1765 Tribological behavior of SiC coating on C/C composites against SiC and WC under unlubricated sliding  
C. ZISHAN, L. HEJUN, F. QIANGANG, C. YANHUI, W. SHAOLONG & H. ZIBO (China)
- 1775 Investigation of dielectric relaxation behavior of electrospun titanium dioxide nanofibers using temperature dependent impedance spectroscopy  
S.S. BATTOOL, Z. IMRAN (Pakistan, Sweden), M.A. RAFIQ, M.M. HASAN (Pakistan) & M. WILLANDER (Sweden)
- 1785 Dielectric properties of Ti substituted  $\text{Bi}_{2-x}\text{Ti}_x\text{O}_{3+x/2}$  ceramics  
G. SINGLA & K. SINGH (India)
- 1793 Crystallization of hydroxyapatite during hydrothermal treatment on amorphous calcium phosphate layer coated by PEO technique  
M.-A. FAGHIHI-SANI (Iran), A. ARBABI (Italy) & A. MEHDINEZHAD-ROSHAN (Iran)

- 1799 Deposition of the low resistive Ag–N dual acceptor doped p-type ZnO thin films  
R. SWAPNA & M.C. SANTHOSH KUMAR (India)
- 1807 Influence of Cr<sup>3+</sup> ion on the structural, ac conductivity and magnetic properties of nanocrystalline Ni–Mg ferrite  
MOHD. HASHIM, ALIMUDDIN (India), S. KUMAR (Republic of Korea), S.E. SHIRSATH (Japan), R.K. KOTNALA, J. SHAH & R. KUMAR (India)
- 1821 In situ fabrication mechanism of a dense Sr and Ca doped lanthanum chromite interconnect on Ni-YSZ anode of a solid oxide fuel cell during co-sintering  
A. HEIDARPOUR, A. SAIDI, M.H. ABBASI (Iran) & G.M. CHOI (Republic of Korea)
- 1827 Effect of CuO–TiO<sub>2</sub>–SiO<sub>2</sub> additions on the sintering behavior and mechanical properties of corundum abrasive synthesized through sol-gel method  
M. LUO, Z. LI & Y. ZHU (PR China)
- 1835 Effect of the preparation route on the mechanical properties of Yttria–Ceria doped Tetragonal Zirconia/Alumina composites  
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- 1841 Structure and oxidation resistance of micro-cellular Si–SiC foams derived from natural resins  
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- 1853 Investigation of the structure and the magnetic behavior of nanostructure Ca<sub>1-x</sub>Gd<sub>x</sub>MnO<sub>3</sub> ( $x=0.05; 0.1; 0.15; 0.2$ ) obtained by modified glycine nitrate procedure  
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- 1863 Optimization and thermal cycling behavior of La<sub>2</sub>Ce<sub>2</sub>O<sub>7</sub> thermal barrier coatings  
H. DONG, D. WANG, Y. PEI, H. LI, P. LI & W. MA (China)
- 1871 Air-exposed combustion synthesis of Al<sub>2</sub>O<sub>3</sub> nanofibers in Al/TiO<sub>2</sub>/C system  
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- 1877 Effect of Sr substitution on microwave dielectric properties of Nd(Mg<sub>0.5</sub>Sn<sub>0.5</sub>)O<sub>3</sub> ceramics  
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- 1885 High supercapacitive stability of spray pyrolyzed ZnO-added manganese oxide coatings  
C.-Y. CHEN, H.-W. CHANG, S.-J. SHIH, C.-Y. TSAY, C.-J. CHANG & C.-K. LIN (ROC)
- 1893 Effect of PMMA pore former on microstructure and mechanical properties of vitrified bond CBN grinding wheels  
X. LV, Z. LI, Y. ZHU, J. ZHAO & G. ZHAO (People's Republic of China)
- 1901 Atmospheric pressure synthesis of Be- and Mg-doped TiBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10-δ</sub> superconductor  
N.A. KHAN, M. ZUBAIR, M. MUMTAZ & A.A. KHURRAM (Pakistan)
- 1909 Stability of zircon pigments in water and diethylene glycol media: The case of turquoise V–ZrSiO<sub>4</sub>  
S. AKDEMİR, E. ÖZEL & E. SUVACI (Turkey)
- 1917 Synthesis, luminescence and EPR studies on CaSiO<sub>3</sub>: Pb, Mn-nano phosphors synthesized by the solution combustion method  
S. KULKARNI, B.M. NAGABHUSHANA, N. SURYA MURTHY (India), C. SHIVAKUMARA (India), R.P.S. CHAKRADHAR & R. DAMLE (India)
- 1923 Preparation and characterization of foam ceramics from red mud and fly ash using sodium silicate as foaming agent  
X. CHEN, A. LU & G. QU (PR China)
- 1931 Microstructure and mechanical properties of WC–40vol%Al<sub>2</sub>O<sub>3</sub> composites hot pressed with MgO and CeO<sub>2</sub> additives  
H. QU, S. ZHU, P. DI, C. OUYANG & Q. LI (PR China)

- 1943 A low cost route for fabrication of wollastonite glass–ceramics directly using soda-lime waste glass by reactive crystallization–sintering  
W. ZHANG (China, PR China) & H. LIU (China)
- 1951 Effect of Yb<sup>3+</sup> and Tm<sup>3+</sup> concentrations on blue and NIR upconversion luminescence in Yb<sup>3+</sup>, Tm<sup>3+</sup> co-doped CaMoO<sub>4</sub>  
J.H. CHUNG, J.H. RYU, S.Y. LEE, S.H. KANG & K.B. SHIM (South Korea)
- 1957 Synthesis of SiC nanowires by thermal evaporation method without catalyst assistant  
K. CHEN, Z. HUANG, J. HUANG, M. FANG, Y.-G. LIU, H. JI & L. YIN (China)
- 1963 Influence of ball milling parameters on the structure of the mechanically alloyed SiBCN powder  
P. ZHANG, D. JIA, Z. YANG, X. DUAN & Y. ZHOU (China)
- 1971 Influence of Sr/Ba ratio on the dielectric, ferroelectric and pyroelectric properties of strontium barium niobate ceramics  
J. ZHANG, G. WANG, F. GAO, C. MAO, F. CAO & X. DONG (People's Republic of China)
- 1977 Temperature dependent structural and dielectric investigations of PbZr<sub>0.5</sub>Ti<sub>0.5</sub>O<sub>3</sub> solid solution at the morphotropic phase boundary  
G. SRIVASTAVA, A. GOSWAMI & A.M. UMARJI (India)
- 1985 Pressureless sintering of Ta<sub>0.8</sub>Hf<sub>0.2</sub>C UHTC in the presence of MoSi<sub>2</sub>  
S.A. GHAFFARI, M.A. FAGHIHI-SANI, F. GOLESTANI-FARD & S. EBRAHIMI (Iran)
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A. NAZARI & V. ABDINEJAD (Iran)
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R. MARTÍNEZ, J.C. ESCOBEDO, D.A. CORTÉS (México), G.G. ALVES, A.B.R. LINHARES, J.M. GRANJEIRO, M. PRADO (Brazil), J.C. ORTIZ, J.M. ALMANZA & E.M. MÚZQUIZ-RAMOS (México)
- 2013 Prediction and fuzzy synthetic optimization of process parameters in heavy clay brick production  
M. ARSENOVIĆ, S. STANKOVIĆ, Z. RADOJEVIĆ & L. PEZO (Serbia)
- 2023 Biaxial flexural strength of poled lead zirconate titanate under high electric field with extended field range  
K. ZHANG, F.W. ZENG, H. WANG & H.-T. LIN (USA)
- 2031 The aging effect on the low temperature mechanical strength of 3.2YSZ single crystals manufactured by the Skull melting method  
J.-H. LEE, Y.-W. HEO, J.-J. KIM, J.-K. LEE, H.S. LEE & J.H. LEE (Republic of Korea)
- 2037 Porous Gd-doped ceria barrier layer on solid oxide fuel cell with Sm<sub>0.5</sub>Sr<sub>0.5</sub>CoO<sub>3-d</sub> Cathodes  
Y. MIN PARK & H. KIM (Korea)
- 2045 Investigation on mechanical properties and fracture behavior of A356 aluminum alloy based ZrO<sub>2</sub> particle reinforced metal-matrix composites  
H. ABDIZADEH & M.A. BAGHCHESARA (Iran)
- 2051 Low-temperature sintering and microwave dielectric properties of LiF-doped CaMg<sub>1-x</sub>Zn<sub>x</sub>Si<sub>2</sub>O<sub>6</sub> ceramics  
J. ZHANG, Y. ZHOU & Z. YUE (PR China)
- 2059 Structural phase transition and thermochromic behavior of synthesized W-substituted CuMoO<sub>4</sub>  
I. YANASE, T. MIZUNO & H. KOBAYASHI (Japan)
- 2065 High-voltage electrophoretic deposition of preferentially oriented films from multiferroic YMn<sub>2</sub>O<sub>5</sub> nanopowders  
G. BRANKOVIC, Z. BRANKOVIC (Serbia), T. SEQUINEL (Brazil), M. ZUNIC (Serbia, Brazil), M. VUKOVIC, N. TASIC (Serbia), B.A. MARINKOVIC, M. CILENCE, J.A. VARELA & E. LONGO (Brazil)

- 2069 Crystallization mechanism and ac conductivity studies on strontium barium niobate glass–ceramics  
M. WANG, Y. ZHANG, X. LIU & X. WANG (China)
- 2077 Fabrication of porous spinel ( $MgAl_2O_4$ ) from porous alumina using a template method  
S. HASHIMOTO, S. HONDA, T. HIRAMATSU & Y. IWAMOTO (Japan)
- 2083 Effect of alkaline earth additives on the flexural strength of silicon oxycarbide-bonded silicon carbide ceramics  
J.-H. EOM, Y.-W. KIM & B.J. JUNG (Republic of Korea)
- 2093 Microstructure and tribological properties of pulsed electric current sintered alumina–zirconia nanocomposites with different solid lubricants  
M. ERKIN CURA (Finland), S.-H. KIM (South Korea), T. MUUKKONEN, S. VARJUS, A. VAAJOKI, O. SÖDERBERG, T. SUHONEN, U. KANERVA (Finland), S. WOHN LEE (South Korea) & S.-P. HANNULA (Finland)

### **Short Communications**

- 2107 Microstructure and mechanical properties of silicon carbide monofilament reinforced zirconium diboride matrix composites  
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- 2111 Transparent, non-fluorinated, hydrophobic silica coatings with improved mechanical properties  
K. JEEVAJOTHI, R. SUBASRI & K.R.C. SOMA RAJU (India)
- 2117 Low-temperature sintering effect on varistor properties of  $ZnO-V_2O_5-MnO_2-Nb_2O_5-Bi_2O_3$  ceramics  
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- 2123 Aqueous tape casting of boron carbide ceramic  
Z. LUO, Z. LV, D. JIANG, J. ZHANG, Z. CHEN & Z. HUANG (China)
- 2127 A new green luminescent material  $Ba_3Bi(PO_4)_3 \cdot Tb^{3+}$   
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- 2131 Preparation of low cost alumina nanofibers via electrospinning of aluminium chloride hydroxide/poly (vinyl alcohol) solution  
P. MILANOVIĆ, M. DIMITRIJEVIĆ, R. JANČIĆ HEINEMANN, J. ROGAN, D.B. STOJANOVIĆ, A. KOJOVIĆ & R. ALEKSIĆ (Serbia)
- 2135 Piezoelectric properties and time stability of lead-free  $(Na_{0.52}K_{0.44}Li_{0.04})Nb_{1-x-y}Sb_xTa_yO_3$  ceramics  
J. DU, X.-J. YI, C.-L. BAN, Z.-J. XU, P.-P. ZHAO & C.-M. WANG (China)
- 2141 Inactivation of bacteria in batch suspension by fluidized ceramic tourmaline nanoparticles under oscillating radio frequency electric fields  
A. AMARJARGAL (South Korea, Mongolia), L.D. TIJING (South Korea, Philippines), M.T.G. RUELO, C.-H. PARK (South Korea), H.R. PANT (South Korea, Nepal), F.P. VISTA IV, D.H. LEE & C.S. KIM (South Korea)
- 2147 Fabrication and properties analysis of  $C_f-CNT/SiC$  composite  
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- 2153 Organic template-free synthesis of ZSM-5 zeolite particles using rice husk ash as silica source  
K.P. DEY, S. GHOSH & M.K. NASKAR (India)
- 2159 Fabrication of highly porous LSM/CGO cell stacks for electrochemical flue gas purification  
K. ANDERSEN, F. BRÆESTRUP & K. KAMMER HANSEN (Denmark)
- 2165 Microwave assisted sol–gel synthesis of chlorine doped lithium vanadium phosphate  
J. YAO, Z. JIA, P. ZHANG, C. SHEN, J. WANG (PR China), K.-F. AGUEY-ZINSOU (Australia), C. MA & L. WANG (PR China)
- 2171 Measurement of small concentrations of manganese in cadmium oxide (CdO) using electron magnetic resonance  
R.S. DE BIASI & M.L.N. GRILLO (Brazil)

- 2175 Carbon-filament-entangled lithium iron phosphate/carbon composite produced in partially reductive atmosphere:  
Dual role of the iron as source material and catalyst  
J. YAO, J. WANG, P. ZHANG (PR China), D.H. GREGORY (UK), C. MA & L. WANG (PR China)

## Erratum

- 2183 Erratum to: "Sintering kinetics of a  $18.8\text{Li}_2\text{O } 8.3\text{ZrO}_2 \ 64.2\text{SiO}_2 \ 8.7\text{Al}_2\text{O}_3$  glass ceramic" [Ceramics International 37 (2011) 1865–1871]  
O.R. KLEGUES MONTEDO, F. JOAQUIM FLORIANO, J. DE OLIVEIRA FILHO (Brazil), C. MORAIS GOMES (Germany), D. HOTZA & A.P.N. DE OLIVEIRA (Brazil)