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H. AOKI, Y. AZUMA, T. ASAKA, M. HIGUCHI, K. ASAGA & K. KATAYAMA (Japan)
- 823 Ethanol sensor based on ZnO and Au-doped ZnO nanowires
N. HONGSITH, C. VIRIYAWORASAKUL, P. MANGKORNTONG, N. MANGKORNTONG & S. CHOOPUN (Thailand)
- 827 Preparation of multi-compositional gas sensing films by combinatorial solution deposition
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- 833 Improvement of uncooled infrared imaging detector by using mesoporous silica as a thermal isolation layer
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- 837 Ohmic contacts to polycrystalline 3C–SiC films for extreme environment microdevices
G.-S. CHUNG & C.-M. OHN (South Korea)
- 841 Characteristics of polycrystalline 3C–SiC thin films grown on Si wafers for harsh environment microdevices
G.-S. CHUNG, K.-S. KIM & K.-B. HAN (South Korea)
- 845 Improvement of piezoresistance properties of silicon carbide ceramics through co-doping of aluminum nitride and nitrogen
A. KISHIMOTO, Y. OKADA & H. HAYASHI (Japan)

- 849 Fabrication and thermoelectric properties of heavily rare-earth metal-doped $\text{SrO}(\text{SrTiO}_3)_n$ ($n = 1, 2$) ceramics
Y.F. WANG, K.H. LEE, H. OHTA & K. KOUMOTO (Japan)
- 853 Phase change and electrical resistivity of Zn–Mn–Ni–O-based NTC thermistors produced using IZC powder recycled from used dry batteries
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- 859 X-ray absorption study on $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ cathode material for lithium-ion batteries
T. NONAKA, C. OKUDA, Y. SENO, K. KOUMOTO & Y. UKYO (Japan)
- 863 High-rate properties of LiFePO_4 /carbon composites as cathode materials for lithium-ion batteries
A. KUWAHARA, S. SUZUKI & M. MIYAYAMA (Japan)
- 867 Fabrication of electrolyte materials for solid oxide fuel cells by tape-casting
P. TIMAKUL, S. JINAWATH & P. AUNGKAVATTANA (Thailand)
- 873 Microstructure and electrical conductivity of NiO–YSZ nano-powder synthesized by aerosol flame deposition
Y.S. YOON, J.M. IM & D.W. SHIN (Republic of Korea)
- 877 Synthesis of nano-crystalline $\text{Gd}_{0.1}\text{Ce}_{0.9}\text{O}_{2-x}$ for IT-SOFC by aerosol flame deposition
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- 889 Microwave dielectric properties of rutile $(\text{Zn}_{1/3}\text{Nb}_{2/3})_{0.40}(\text{Ti}_{1-x}\text{Sn}_x)_{0.60}\text{O}_2$ ($0.15 \leq x \leq 0.30$) ceramics
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- 893 Structure and microwave dielectric properties of $\text{Nd}_{(2-x)/3}\text{Li}_x\text{TiO}_3$
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- 897 Temperature-dependent dielectric, impedance and tunability studies on bismuth zinc niobate $(\text{Bi}_{1.5}\text{Zn}_{0.5})(\text{Nb}_{1.5}\text{Zn}_{0.5})\text{O}_7$ ceramics
K. SUDHEENDRAN & K.C.J. RAJU (India)
- 901 Sintering behavior and microwave dielectric properties of Bi_2O_3 – ZnO – Nb_2O_5 -based ceramics sintered under air and N_2 atmosphere
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- 905 Enhanced dielectric tunability properties of $\text{Ba}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ thin films using seed layers on $\text{Pt/Ti/SiO}_2/\text{Si}$ substrates
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- 911 Preparation and dielectric properties of B_2O_3 – Li_2O -doped $\text{BaZr}_{0.35}\text{Ti}_{0.65}\text{O}_3$ ceramics sintered at a low temperature
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- 917 Microwave dielectric characteristics of ceramics in Mg_2SiO_4 – Zn_2SiO_4 system
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- 921 Low-temperature sintering of 0.85CaWO_4 – 0.15LaNbO_4 ceramics
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- 925 Preparation and dielectric tunability of bismuth-based pyrochlore dielectric thick films on alumina substrates
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- 929 Microwave dielectric properties and co-firing with copper of $(\text{Bi}_{1-x}\text{Cu}_x)(\text{Nb}_{1-x}\text{W}_x)\text{O}_4$ ceramics
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- 933 Investigation of grain boundaries influence on dielectric properties in fine-grained BaTiO_3 ceramics without the core-shell structure
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- 939 Microwave assisted sintering of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$
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- 947 The improvement of mechanical and dielectric properties of ordered mesoporous silica film using TEOS–MTES mixed silica precursor
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- 953 Characteristics of La_2O_3 thin films deposited using metal organic chemical vapor deposition with different oxidant gas
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- 957 Effect of hydration on the properties of lanthanum oxide and lanthanum aluminate thin films
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- 971 Si field emitter arrays coated with thin ferroelectric films
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- 979 Novel electro-optic properties of epitaxially grown $(\text{Pb}, \text{La})(\text{Zr}, \text{Ti})\text{O}_3$ (PLZT) thin films derived by advanced sol–gel methods
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- 985 Improvement in crystal orientation of AlN thin films prepared on Mo electrodes using AlN interlayers
T. KAMOHARA, M. AKIYAMA, N. UENO & N. KUWANO (Japan)
- 991 Thickness effects on structures and electrical properties of lead zirconate titanate thick films
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- 997 Effect of poly(vinyl acetate) on structure and property of bismuth-doped strontium titanate thin films derived by sol–gel method
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- 1007 Metal-organic chemical liquid deposited (1 1 0)-preferred LaNiO_3 buffer layer for $\text{Pb}_{0.97}\text{La}_{0.02}(\text{Zr}_{0.85}\text{Sn}_{0.13}\text{Ti}_{0.02})\text{O}_3$ antiferroelectric films
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- 1011 Boron and nitrogen co-doped ZnO thin films for opto-electronic applications
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- 1017 Effects of deposition temperature on the crystallinity of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ epitaxial thin films integrated on Si substrates by pulsed laser deposition method
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- 1023 Low dielectric loss and enhanced tunability of $\text{Ba}(\text{Zr}_{0.3}\text{Ti}_{0.7})\text{O}_3$ -based thin film by sol–gel method
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- 1027 Microstructure and ferroelectric properties of sol–gel graded PZT (40/52/60) and (60/52/40) thin films
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- 1031 Dependence of the properties of compositionally graded $\text{Pb}(\text{Zr,Ti})\text{O}_3$ ferroelectric films of the bottom electrode
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- 1039 Spectroscopic ellipsometry characterization of TiO_2 thin films prepared by the sol–gel method
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- 1051 Tin oxide thin films deposited by ultrasonic spray pyrolysis
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- 1059 Colossal dielectric response in barium iron niobate ceramics obtained by different precursors
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- 1063 Low-temperature growth of lead magnesium niobate thick films by a hydrothermal process
X. CHEN, H. FAN, L. LIU & S. KE (China)

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- 1077 Preparation and optical properties of dispersible ZnSe nanocrystals synthesized by high energy ball milling
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- 1081 Study of ZnSe powder mass depleted in temperature field
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- 1085 Preparation of mercaptoacetic acid-capped ZnSe core–shell nanocrystals by hydrothermal method
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- 1089 Influence of annealing atmosphere on the structure, resistivity and transmittance of InZnO thin films
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- 1093 Influence of ZnO buffer layer thickness on the electrical and optical properties of indium zinc oxide thin films deposited on PET substrates
C. LEE, A. PARK, Y. CHO, M. PARK, W.I. LEE & H.W. KIM (Republic of Korea)
- 1097 Effects of oxygen concentration on the electrical properties of ZnO films
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- 1103 Effect of gas-timing technique on structure and optical properties of sputtered zinc oxide films
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- 1109 Effects of crystal structures on luminescent properties of Eu doped Ca–Al–O systems
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- 1113 Luminescent properties of Pr doped ZrSiO₄ phosphors
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- 1117 Luminescent properties of Eu³⁺-doped YTaO₄ powders
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- 1121 Raman scattering and electrical conductivity of nitrogen implanted MoO₃ whiskers
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- 1127 Characterization of SnO₂ nanowires synthesized from SnO by carbothermal reduction process
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- 1145 Low temperature production of glass ceramics in the anorthite–diopside system via sintering and crystallization of glass powder compacts
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- 1153 Effects of MgO doping in ZnO–0.5 mol% V₂O₅ varistors
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- 1159 Microstructure and reaction phases in Si₃N₄/Si₃N₄ joint brazed with Cu–Pd–Ti filler alloy
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- 1165 Electrical properties of multicomponent CMM in correlation with their microstructure
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- 1173 Advanced indium-tin oxide ceramics for sputtering targets
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- 1183 Effect of niobium doping on the densification and grain growth in alumina
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- 1195 Eight mole percent yttria stabilized zirconia powders by organic precursor route
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- 1201 Manufacturing 2D carbon-fiber-reinforced SiC matrix composites by slurry infiltration and PIP process
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- 1207 Sintering of clay-chamotte ceramic composites for refractory bricks
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- 1215 Hot corrosion of glass coating on nickel base superalloy
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- 1223 Stoichiometry control and structure evolution in hydrothermally derived (Ba,Sr)TiO₃ films
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- 1229 Fabrication of bulk nanocrystalline alumina–zirconia materials
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- 1237 Photoluminescence of ZnO layer on commercial glass substrate prepared by sol–gel process
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- 1273 High-temperature proton conductor Sr(Ce_{0.6}Zr_{0.4})_{0.9}Y_{0.1}O_{3–δ}: Preparation, sintering and electrical properties
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- 1303 Electrophoretic deposition of bioactive wollastonite and porcelain–wollastonite coatings on 316L stainless steel
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- 1309 Aqueous slip casting of transparent yttrium aluminum garnet (YAG) ceramics
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- 1315 Synthesis and mechanical and tribological characterization of alumina–yttria stabilized zirconia (YSZ) nanocomposites with YSZ synthesized by means of an aqueous solution–gel method or a hydrothermal route
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- 1327 Influence of erbia or europia doping on crystal structure and microstructure of ceria–zirconia (CZ) solid solutions
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- 1335 Influences of La^{3+} and Er^{3+} on structure and properties of Bi_2O_3 – B_2O_3 glass
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- 1341 Quantitative analysis of oxidation–reduction behavior of Mn-doped BaTiO_3
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- 1345 Effect of Ta_2O_5 in (Ca, Si, Ta)-doped TiO_2 ceramic varistors
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- 1349 Electrochemical properties of carbon-mixed LiFePO_4 cathode material synthesized by the ceramic granulation method
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K. LU (USA)
- 1361 Microstructure and mechanical properties of hot-pressed $\text{SiC}/(\text{W}, \text{Ti})\text{C}$ ceramic composites
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- 1367 Pressure infiltration of boron nitride preforms with molten aluminum
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- 1373 Solution combustion synthesis of bioceramic calcium phosphates by single and mixed fuels—A comparative study
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- 1381 Effect of dispersants on the rheology of aqueous silicon carbide suspensions
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- 1387 Synthesis and characterization of $\text{LiMn}_2\text{O}_4/\text{Ag}$ composite by citrate gel and combustion method
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- 1393 Growth behavior, morphology and properties of lithium aluminosilicate glass ceramics with different amount of CaO , MgO and TiO_2 additive
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- 1399 Comparison of different methods to prepare MgO whiskers
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- 1405 Synthesis and microwave dielectric properties of CaSiO_3 nanopowder by the sol–gel process
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- 1413 Synthesis and properties of $(\text{Ba}_x\text{Pb}_{1-x})(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ relaxor ferroelectric ceramics using a reaction-sintering process
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- 1425 Two-step method fabricating high nonlinearity ZnVSb based varistors
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- 1431 Development of blue ceramic dyes from cobalt phosphates
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- 1439 Synthesis of high-purity bulk Ti_2AlN by spark plasma sintering (SPS)
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- 1443 Electrophoretic applications of sol–gel matrices
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- 1473 Studies on the microstructure of the black-glazed bowl sherds excavated from the Jian kiln site of ancient China
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- 1487 Shrinkage behavior and interfacial diffusion in Ni-based internal electrodes with BaTiO_3 additive
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- 1503 Phase composition and properties of solid solutions of GdFeO_3 – GdInO_3 bulks
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- 1509 Microstructure, mechanical and tribological properties of microwave sintered calcia-doped zirconia for biomedical applications
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