

## POSTER PROGRAM

### SP- Synthesis, Processing and Sintering of Electroceramics

Phase evolution during mechanochemical synthesis of the PMN powders <b>Zorica Brankovic</b> <i>Instituto de Quimica, UNESP, Araraquara, SP, Brazil</i>	SP-011-P
Effect of $\text{PbTiO}_3$ addition on $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ thin film obtained from citrate solution <b>Priscila Deleu Spagnol</b> <i>Universidade Estadual Paulista Julio de Mesquita Filho-UNESP, Araraquara, Sao Paulo, Brazil</i>	SP-014-P
Low temperature synthesis of PMN-PT composite thick films for electromechanical applications <b>Aiying Wu</b> <i>Department of Ceramics and Glass Engineering, University of Aveiro, CICECO, Aveiro, Portugal</i>	SP-015-P
Effect of boron oxide addition on sintering zirconia-yttria ceramics <b>Daniel Zanetti de Florio</b> <i>Energy and Nuclear Research Institute, Multidisciplinary Center for the Development of Ceramic Materials, S. Paulo, SP, Brazil</i>	SP-016-P
Low temperature formation of $\text{SnO}_2$ thin films by a spray pyrolysis deposition method <b>Shoji Kaneko</b> <i>Department of Materials Science and Technology, Shizuoka University, Johoku, Hamamatsu, Japan</i>	SP-017-P
Crystallisation of $\text{KTiOPO}_4$ from potassium titanium phosphate glasses containing $\text{B}_2\text{O}_3$ and $\text{Si}_2$ <b>Antonio Aronne</b> <i>Department of Materials and Production Engineering, University of Naples Federico II, Naples, Italy</i>	SP-018-P
Pyroelectric composites and ceramics based on $\text{LaBGeO}_5$ stillwellite <b>Pasquale Pernice</b> <i>Department of Materials and Production Engineering, University of Naples Federico II, Naples, Italy</i>	SP-020-P
New ferroelectric materials on the basis of $\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3$ – $\text{PbLu}_{1/2}\text{Nb}_{1/2}\text{O}_3$ solid solutions <b>Karlis Bormanis</b> <i>Institute of Solid State Physics, University of Latvia, Riga, Latvia</i>	SP-021-P
Synthesis and characterization of $(\text{La}, \text{Sr})(\text{Ga}, \text{Mg})\text{O}_3$ -Ag cermets <b>Pradyot Datta</b> <i>Max-Planck-Institute for Metallforschung, PML, Stuttgart, Germany</i>	SP-022-P
$\text{SnO}_2$ -based materials with tailored electrical resistivity <b>Gualtiero Fabbri</b> <i>CNR-ISTEC, Institute of Science and Technology for Ceramics, Faenza, Italy</i>	SP-023-P
Combustion synthesis and processing of lanthanum modified lead titanate ferroelectric ceramics <b>Ducinei Garcia</b> <i>Physics Department, Federal University of Sao Carlos, Sao Carlos, SP, Brasil</i>	SP-025-P
Microstructure and optical transmittance of tungsten doped PLZT as a function of the hot pressing conditions <b>Ducinei Garcia</b> <i>Physics Department, Federal University of Sao Carlos, Sao Carlos, SP, Brasil</i>	SP-026-P
BST powder with sol-gel process in tape casting and firing <b>Tao Hu</b> <i>Microelectronics and Material Physics Laboratories, Research Group of Infotech Oulu, University of Oulu, Linnanmaa, Oulu, Finland</i>	SP-027-P

<p>Synthesis and characterization of compositionally modified PZT by wet chemical preparation from aqueous solution</p> <p><b>Byeong Woo Lee</b>  <i>Dept. of Materials Engineering, Korea Maritime University, Pusan, Korea</i></p>	SP-029-P
<p>Technology and properties of ceramic ferroelectrics of <math>A_{m-1}Bi_2B_mO_{3m+3}</math> type with <math>m = 1.5</math></p> <p><b>Agata Lisinska-Czekaj</b>  <i>Institute of Physics, Rostov State University, Rostov-on-Don, Russia</i></p>	SP-030-P
<p>Zirconia-yttria (8% mol) powders hydrothermally synthesized from different <math>Y_2O_3</math>-based precursors</p> <p><b>Giuseppe Mascolo</b>  <i>DIMSAT – Università di Cassino, Cassino (FR), Italy</i></p>	SP-031-P
<p>Preparation and evaluation of <math>LaNiO_3</math> thin film with chemical solution deposition</p> <p><b>Hidetoshi Miyazaki</b>  <i>Satellite venture business laboratory, Shizuoka University, Hamamatsu, Shizuoka, Japan</i></p>	SP-032-P
<p>Optimisation design for a laboratory scale process preparing for the scale up: pyroelectric ceramic tape casting as a case study</p> <p><b>Letizia Mortara</b>  <i>School of Industrial and Manufacturing Science, Cranfield University, Cranfield, Bedfordshire, United Kingdom</i></p>	SP-033-P
<p>Processing and electrical properties of the <math>YNi_{0.33}Mn_{0.67}O_3</math> perovskite prepared by a polymerized method</p> <p><b>Carlos Moure</b>  <i>Instituto de Cerámica y Vidrio-CSIC, Madrid, Spain</i></p>	SP-034-P
<p>Effect of the calcination temperature on the physical properties of <math>Ce_{0.8}Gd_{0.2}O_{1.9}</math> prepared by the cation complexation technique</p> <p><b>E. N. S. Muccillo</b>  <i>Energy and Nuclear Research Institute, Multidisciplinary Center for the Development of Ceramic Materials, S. Paulo, SP, Brazil</i></p>	SP-036-P
<p><math>PbZr_{0.52}Ti_{0.48}O_3</math> thin films obtained using a modified methoxyethanol method</p> <p><b>Javier Perez</b>  <i>Department of Ceramic and Glass Engineering, University of Aveiro, CICECO, Aveiro, Portugal</i></p>	SP-037-P
<p>Pyroelectric texture based on stillwellite-like <math>LaBGeO_5</math>, produced by crystallisation of extruded glass</p> <p><b>Vladimir N. Sigaev</b>  <i>Mendeleev University of Chemical Technology of Russia, Moscow, Russia</i></p>	SP-038-P
<p>Aqueous tape casting of Yttrium Stabilised Zirconium oxide</p> <p><b>Frans Snijkers</b>  <i>Materials Technology Vito, Boeretang, Belgium</i></p>	SP-039-P
<p>Structure and microstructure of <math>SrTiO_3</math> doped with Mg</p> <p><b>A. Tkach</b>  <i>Department of Ceramics and Glass Engineering, University of Aveiro, CICECO, Aveiro, Portugal</i></p>	SP-040-P
<p>Study of the solid solution of <math>LaAlO_3</math> with <math>Sr^{2+}</math> and <math>Eu^{3+}</math> prepared by chemical coprecipitation</p> <p><b>Maria Elena Villafuerte</b>  <i>Instituto de Investigaciones en Materiales, UNAM, Mexico, D.F.</i></p>	SP-041-P
<p>Acid effect on the preparation of PZT fibers by sol-gel</p> <p><b>Mei Zhang</b>  <i>Department of Ceramics and Glass Engineering, University of Aveiro, CICECO, Aveiro, Portugal</i></p>	SP-043-P
<p>Correlations between processing parameters and microstructure for YSZ films produced by plasma spray technique</p> <p><b>Romualdas Kezelis</b>  <i>Plasma Processing Laboratory, Lithuanian Energy Institute, Lithuania</i></p>	SP-044-P
<p>Mechanisms of <math>Er^{3+}</math> incorporation into <math>BaTiO_3</math></p> <p><b>Maria Teresa Buscaglia</b>  <i>Institute for Energetics and Intephases, National Research Council, Genoa, Italy</i></p>	SP-045-P

<p>The substrate effects of undoped and Al doped ZnO thin films prepared by PLD technique</p> <p><b>Si-Wong Jang</b>  <i>Research Center for Electronic Ceramics, Department of Computer Science &amp; Statistics,  DongEui University, Pusan, Korea</i></p>	SP-047-P
<p>Electric and dielectric properties of Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> ceramics sintered by CO<sub>2</sub> laser heating</p> <p><b>Zelia Macedo</b>  <i>Universidade Federal de Sergipe, Jdim Rosa Elze - Sao Cristovao - SE, Brazil</i></p>	SP-048-P
<p>The structure properties correlation of Ce-doped SnO<sub>2</sub> materials obtained by different synthesis routes</p> <p><b>Susana Mihaiu</b>  <i>Romanian Academy, Bucharest, Romania</i></p>	SP-049-P
<p>Thermal decomposition of compounds from the Bi<sub>2</sub>O<sub>3</sub> - TeO<sub>2</sub> system prepared in an oxygen atmosphere</p> <p><b>Marko Udovic</b>  <i>Jozef Stefan Institute, Ljubljana, Slovenia</i></p>	SP-050-P
<p>Microwave sintering of (Bi<sub>0.75</sub>Ca<sub>1/2</sub>Y<sub>1.05</sub>)(V<sub>0.6</sub>Fe<sub>4.4</sub>)O<sub>12</sub> microwave magnetic marnet materials</p> <p><b>Chien-Yi Tsay</b>  <i>Department of Materials Science and Engineering, National Tsing-Hua University, Hsin-Chu, Taiwan, R.O.C.</i></p>	SP-051-P
<p>Fabrication of SrTiO<sub>3</sub> based layered films by chemical solution deposition</p> <p><b>Kengo Ueno</b>  <i>Dept. of Applied Chem., Graduate School of Engineering, Nagoya University, Nagoya, Japan</i></p>	SP-053-P
<p>Effect of chemical composition and sintering temperature on microstructure and dielectric property of Ba<sub>1-x</sub>Sr<sub>x</sub>TiO<sub>3</sub></p> <p><b>Jae-Ho Jeon</b>  <i>Institute of Materials Science and Technology, Department of Materials Technology, Korea Institute of Machinery and Materials, Changwon, Korea</i></p>	SP-054-P
<p>Microstructure and properties of Mg-Zn ferrite as a result of sintering temperature</p> <p><b>Zbigniew Pedzich</b>  <i>Faculty of Materials Science and Ceramics, University of Mining and Metallurgy, Cracow, Poland</i></p>	SP-057-P
<p>Semiconducting SnO<sub>2</sub> dense ceramics obtained by a novel technique</p> <p><b>Oana Scarlat</b>  <i>Institute of Physical Chemistry "I. G. Murgulescu", Romanian Academy, Bucharest, Romania</i></p>	SP-058-P
<p>Oxide ferroelectric ceramic films deposited from air flow</p> <p><b>Eugene Stytsenko</b>  <i>Industrial Research Limited, Gracefield, Lower Hutt, New Zealand</i></p>	SP-059-P
<p>Effect of BaO-CaO-SiO<sub>2</sub> sintering aids on the electrical properties of base-metal-electroded capacitor materials</p> <p><b>Wei-Chun Yang</b>  <i>Department of Materials Science and Engineering, National Tsing-Hua University, Hsin-Chu, Taiwan, R.O.C.</i></p>	SP-061-P
<p>MnZn ferrites processed using an aqueous powder coating approach</p> <p><b>William J. Walker</b>  <i>NYS Center for Advanced Ceramic Technology, Alfred University, NY, USA</i></p>	SP-062-P
<p>Characterization of barium titanate powder which was pressed heavily</p> <p><b>Hiroyuki Ikawa</b>  <i>Department of Applied Chemistry, Kanagawa Institue of Technology, Atugi-shi, Japan</i></p>	SP-063-P
<b>CH- Advances in Characterization Techniques</b>	
<p>A study of electronic states of Ni<sub>x</sub>Mn<sub>3-x</sub>O<sub>4+d</sub> thin films using scanning tunneling microscopy and current imaging tunneling spectroscopy</p> <p><b>A. Basu</b>  <i>Department of Physics, University of Durham, Durham, United Kingdom</i></p>	CH-008-P

Conductive mode imaging of thermistor grain boundaries <b>Colin Leach</b> <i>Manchester Materials Science Centre, University of Manchester and UMIST, Manchester, United Kingdom</i>	CH-009-P
Elastic properties of single crystal LiIO <sub>3</sub> by Brillouin scattering spectroscopy <b>Byeong-hyeon Min</b> <i>Department of Mechanical Engineering, Research Center for Electronic Ceramics, Dongeui University, Busan, Korea</i>	CH-010-P
Analysis of the intrinsic lattice deformation and 180-domain switching in PZT ceramics during bipolar electric cycling <b>Jan-Thorsten Reszat</b> <i>Institut für Keramik im Maschinenbau, Universität Karlsruhe, Karlsruhe, Germany</i>	CH-011-P
Magnetic study of the aluminium iron oxide Fe <sub>1+x</sub> Al <sub>1-x</sub> O <sub>3</sub> compounds <b>Maria Elena Villafuerte-Castrejon</b> <i>Instituto de Investigaciones en Materiales, Universidad Nacional Autonoma de Mexico A.P., Mexico</i>	CH-012-P
Determination of crystal axis in cubic BSO crystal by Brillouin scattering spectroscopy <b>Yun Sik Yu</b> <i>Research Center for Electronic Ceramics, DongEui University, Physics Department, Korea</i>	CH-013-P
Observation of polariton dispersion in LNO and LTO crystals by near-forward Raman scattering <b>Yun Sik Yu</b> <i>Research Center for Electronic Ceramics, Physics Department, DongEui University, Korea</i>	CH-014-P
XPS analysis of surface layer of sol-gel derived lead zirconate titanate thin films <b>Osamu Sugiyama</b> <i>Fuji Industrial Research Institute of Shizuoka Prefecture Obuchi, Fiji, Japan</i>	CH-015-P
ATR/FTIR spectroscopic study of the ceramic effect in novel ionoconductor gels for biomedical application in space <b>Paola Romagnoli</b> <i>Dipartimento di Scienze e Tecnologie Chimiche, Università di Roma Tor Vergata, Rome</i>	CH-017-P
Raman investigation on PZN-PT poled crystals <b>Alejandro Pedro Ayala</b> <i>Universidade Federal do Ceara, Fortaleza CE, Brazil</i>	CH-001-O
<b>NA- Nanocrystalline Materials</b>	
Growth of epitaxial nano-scale CeO <sub>2</sub> films on sapphire substrates by sol-gel dip-coating <b>Isabel Van Driessche</b> <i>Dep. of Inorganic and Physical Chemistry, Ghent University, Gent, Belgium</i>	NA-001-P
Role of space charge in partial electronic and ionic conductions in nanocrystalline ceria <b>Sangtae Kim</b> <i>Max-Planck-Institut für Festkoerperforschung, Stuttgart, Germany</i>	NA-002-P
Preparation of anatase (TiO <sub>2</sub> ) nanoceramics by the hot-pressing technique <b>Alicia Weibel</b> <i>Laboratoire MADIREL (Materiaux Divises, Revtements, Electroceramiques), Université de Provence-CNRS, Marseille, France</i>	NA-003-P
MnZn ferrites prepared by a microemulsion technique <b>Aljosa Kosak</b> <i>Jozef Stefan Institute, Ljubljana, Slovenia</i>	NA-004-P
Nature of structural changes in nanocrystalline ZnO powders under linear heating conditions <b>Lidija Mancic</b> <i>Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Belgrade, Yugoslavia</i>	NA-005-P
Combustion synthesis and influence of precursor packing on sintering properties of LCC nanopowders <b>Marjan Marinsek</b> <i>Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia</i>	NA-006-P

Hydrothermal synthesis of polar ceramics <b>Roxana Mioara Piticescu</b> <i>Institute for Non-Ferrous and Rare Metals, Ilfov, Romania</i>	NA-007-P
Synthesis and sintering behaviour of hydrothermally synthesised YTZP nanopowders for ion-conduction applications <b>Robert Radu Piticescu</b> <i>Institute for Non-Ferrous And Rare Metals, Ilfov, Romania</i>	NA-008-P
Nanopowder in $Ba_{1-x}Sr_xTiO_3$ system: structural and dielectric characterizations <b>Brahim Dkhil</b> <i>Laboratoire Structures, Proprietes et Modelisation des Solides, Ecole Centrale Paris, Chatenay-Malabry, Paris</i>	NA-011-P
Characterisation of PZT nanopowder suspensions <b>Silvia Marson</b> <i>Nanotechnology Group, School of Industrial and Manufacturing Science, Cranfield University, Cranfield, Bedfordshire, United Kingdom</i>	NA-012-P
Nanosize $Ni_{0.5}Zn_{0.5}Fe_2O_4$ : synthesis, sintering and magnetic properties <b>Ruth H. G. A. Kiminami</b> <i>Departamento de Engenharia de Materiais, Universidade Federal de Sao Carlos, Sao Carlos, SP, Brazil</i>	NA-013-P
Influence of rare earth doping concentration on crystallite size and surface area of nanostructured $SnO_2$ powders <b>Ingrid Tavora Weber</b> <i>Universidade Federal de Sao Carlos, Sao Carlos, SP, Brazil</i>	NA-014-P
Microstructural investigation of the PZT films prepared from the suspension of nanocrystalline powders <b>Zorica Brankovic</b> <i>UNESP, Instituto de Quimica, Araraquara, SP, Brazil</i>	NA-016-P
<b>NT- New Trends for Electroceramics</b>	
Fabrication of novel type solid electrolyte membrane reactors for exhaust gas purification <b>Hae Jin Hwang</b> <i>Synergy Materials Research Center, National Institute of Advanced Industrial Science and Technology, Nagoya, Japan</i>	NT-008-P
Electrochemical activity of methylene blue in mesostructured surfactant-containing silica of MCM-41 type <b>Silvia Bodoardo</b> <i>Department of Material Science and Chemical Engineering, Politecnico di Torino, Torino, Italy</i>	NT-009-P
SAXS study of potassium-doped siloxane-poly(oxyethylene) ormolytes <b>Karim Dahmouche</b> <i>UNESP, Instituto de Quimica, Araraquara, SP, Brazil</i>	NT-010-P
Sol-gel synthesis of polymer-YSZ hybrid materials for SOFC technology <b>Petra Egger</b> <i>Dipartimento di Ingegneria dei Materiali, Università di Trento, Trento, Italy</i>	NT-011-P
Mesoporous silica thin films for humidity sensing applications <b>Johnny Mio Bertolo</b> <i>PSM-CNR, Area di Ricerca di Roma-Tor Vergata, Roma, Italy</i>	NT-012-P
Intense visible light emission from three-dimensional periodical arrays of Si clusters <b>Seiichi Sato</b> <i>Department of Material Science, Himeji Institute of Technology, Hyogo, Japan</i>	NT-013-P
Heat treatment effect on formation of mesoporous silica <b>Kyu-Sung Park</b> <i>ECRL, Dept. of MS&amp;E, KAIST Yusong-gu, Taejeon, South Korea</i>	NT-014-P
<b>GB- Grain Boundary Engineering</b>	
Microstructure and electrical relationships in PZT-BIT composites <b>Teresa Jardiel</b> <i>Electroceramics Department, Instituto de Ceramica y Vidrio - CSIC, Madrid, Spain</i>	GB-015-P

Novel piezoactive composites “single crystal-ceramic” based on lead titanate <b>Vitali Yu. Topolov</b> <i>Department of Physics, Rostov State University, Rostov, Russia</i>	GB-016-P
Analysis of impedance spectra of polycrystalline materials: from microcrystals to nanocrystals <b>Renaud Bouchet</b> <i>Laboratoire MADIREL (Materiaux Divises Revtements, Electroceramiques), Université de Provence-CNRS, Centre St Charles, Marseille, France</i>	GB-017- P
Temperature dependence of chemically induced interface migration in $Zr_{0.8}Sn_{0.2}TiO_4$ ceramics and its microwave dielectric characteristics <b>Sang-Hee Cho</b> <i>Department of Inorganic Materials Engineering, Kyungpook National University, Daegu, Korea</i>	GB-018-P
<b>VA- Varistors, PTCR and NTCR</b>	
Impedance spectroscopy of bulk and thick film NTC thermistor ceramics <b>Rainer Schmidt</b> <i>Department of Physics, University of Durham, Durham, United Kingdom</i>	VA-007-P
Variable-range hopping conduction in NTC thermistors <b>Rainer Schmidt</b> <i>Department of Physics, University of Durham, Durham, United Kingdom</i>	VA-008-P
Thick film sandwich varistors based on a mechanically activated ZnO powders <b>Verica Pejovic</b> <i>"IRITEL", Belgrade, Yugoslavia</i>	VA-009-P
New NTC electroceramics based on transition-metal manganites in thick-film performance <b>Julian Plewa</b> <i>Fachhochschule Münster University of Applied Sciences, Steinfurt, Germany</i>	VA-010-P
Peculiarities of manganese ion distribution and their effect on the properties of PTCR ceramics <b>Anatolii Belous</b> <i>Institute of General &amp; Inorganic Chemistry, Kyiv, Ukraine</i>	VA-011-P
Relevant parameters for sintering $ZnO-Bi_2O_3$ based varistors <b>Miguel Angel De la Rubia</b> <i>Electroceramics Department, Instituto de Cerámica y Vidrio, Consejo Superior de Investigaciones Científicas, Madrid, Spain</i>	VA-013-P
Dense fine-grained doped-ZnO varistors with improved nonlinearity properties by thermal processing optimization <b>Pedro Duran</b> <i>Electroceramics Department Instituto de Cerámica y Vidrio, CSIS, Madrid, Spain</i>	VA-014-P
New tin dioxides based varistor ceramics with high nonlinearity coefficient <b>Alexander Glot</b> <i>Dep. of Radioelectronics, Dniepropetrovsk National University, Dniepropetrovsk, Ukraine</i>	VA-015-P
Low frequency current oscillation in $In_2O_3-Bi_2O_3$ non-ohmic ceramics <b>Alexander Glot</b> <i>Dep. of Radioelectronics, Dniepropetrovsk National University, Dniepropetrovsk, Ukraine</i>	VA-016-P
High temperature NTC ceramic resistors <b>David Houivet</b> <i>Laboratoire Universitaire des Sciences Appliquées, de Cherbourg (LUSAC, EA2607) Site Universitaire, Cherbourg Octeville, France</i>	VA-017-P
Heywang-Jonker model for barium titanate ceramics with PTCR properties <b>Liliana Mitoseriu</b> <i>Dept. of Electricity, Al. I. Cuza University, Iasi, Romania</i>	VA-019-P
Ageing phenomena in mixed transition-metal manganite NTC electroceramics: quantitative features, microstructural model and some modification possibilities <b>Oleh Shpotyuk</b> <i>Lviv Scientific Research Institute of Materials, Scientific Research Company "Carat", Lviv, Ukraine</i>	VA-021-P

Microstructural and nonohmic characteristics of Ta - Bi doped TiO <sub>2</sub> system <b>Vania C. Sousa</b> <i>CMDMC - LIEC - DQ - UFSCar, Sao Carlos, SP, Brasil</i>	VA-022-P
Effect of powder preparation on barium titanate PTCR properties <b>Biljana Stojanovic</b> <i>UNESP-Institute of Chemistry, Araraquara, SP, Brasil</i>	VA-023-P
Ageing phenomena in mixed transition-metal manganite NTC electroceramics: on the problem of mathematical description of relative resistance drift <b>Mykola Vakiv</b> <i>Scientific Research Company "Carat", Lviv Scientific Research Institute of Materials, Lviv, Ukraine</i>	VA-024-P
Ageing phenomena in mixed transition-metal manganite NTC electroceramics: on the role of thermally stimulated mass-transfer processes <b>Mykola Vakiv</b> <i>Scientific Research Company "Carat", Lviv Scientific Research Institute of Materials, Lviv, Ukraine</i>	VA-025-P
Semiconducting barium titanate ceramics with yttrium hexaboride as sintering aid <b>Xiaoxing Wang</b> <i>Department of Applied Physics, The Hong Kong Polytechnic, University Hunghom, Kowloon, Hong Kong, China</i>	VA-026-P
Effect of oxygen partial pressure on the NTC characteristics of sputtered Ni <sub>x</sub> Mn <sub>3-x</sub> O <sub>4+d</sub> thin films <b>A Basu</b> <i>Department of Physics, University of Durham, Durham, United Kingdom</i>	VA-027-P
<b>IM- Ionic, Mixed, and Electronic Conductors</b>	
Lattice parameters of Ytria-doped ceria solid electrolytes <b>E. N. S. Muccillo</b> <i>Multidisciplinary Center for the Development of Ceramic Materials, Energy and Nuclear Research Institute, SP, Brasil</i>	IM-008-P
Synthesis, structure and densification behaviour of CeO <sub>2</sub> -8 mol% Y <sub>2</sub> O <sub>3</sub> solid electrolyte <b>E. N. S. Muccillo</b> <i>Multidisciplinary Center for the Development of Ceramic Materials-CCTM, Energy and Nuclear Research Institute, S. Paulo, SP, Brasil</i>	IM-009-P
The crystal structure of ionic conductor La <sub>x</sub> Ce <sub>1-x</sub> O <sub>2-x/2</sub> <b>Jong Sung Bae</b> <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea</i>	IM-011-P
Solid electrolytes based on lithium-containing lanthanum metaniobates with defect-perovskite structure <b>Anatolii Belous</b> <i>Institute of General &amp; Inorganic Chemistry, Kyiv, Ukraine</i>	IM-012-P
Ionic conductivity of CaO-Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> materials with constant oxygen vacancy concentration <b>Mirosław M. Bucko</b> <i>Faculty of Materials Science and Ceramics, University of Mining and Metallurgy, Cracow, Poland</i>	IM-013-P
DFT modeling of local-level structures in (Ce, Zr) mixed oxide <b>Jose C. Conesa</b> <i>Instituto de Catalisis, CSIC Campus de Cantoblanco, Madrid, Spain</i>	IM-014-P
Redox and ion diffusion studies of mixed (Ce, Zr, Ca) oxide nanoparticles prepared by microemulsion methods <b>Jose C. Conesa</b> <i>Instituto de Catalisis, CSIC Campus de Cantoblanco, Madrid, Spain</i>	IM-015-P
Oxygen transport through dense La <sub>0.6</sub> Sr <sub>0.4</sub> Fe <sub>0.8</sub> Co <sub>0.2</sub> O <sub>3</sub> - perovskite-type permeation membranes <b>Stefan Diethelm</b> <i>Laboratory for Industrial Energy Systems (LENI), Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland</i>	IM-016-P



Effect of Fe Content on the Grain Boundary Behaviour of $\text{CaTi}_{1-x}\text{Fe}_x\text{O}_3$ <b>Filipe Figueiredo</b> <i>Ceramics and Glass Eng. Dep., University of Aveiro, Aveiro, Portugal</i>	IM-017-P
Atomistic simulations of oxide ion diffusion in doped $\text{LaCoO}_3$ <b>Craig Fisher</b> <i>Japan Fine Ceramics Center, Nagoya, Japan</i>	IM-018-P
Phase investigation in the antimony doped $\text{Bi}_2\text{O}_3$ system <b>Victor Fruth</b> <i>Institute of Physical and Chemistry, Romanian Academy, Bucharest, Romania</i>	IM-019-P
Synthesis and electrical properties of three new indium containing perovskites <b>Antonio F. Fuentes</b> <i>Cinvestav Unidad Saltillo, Coahuila, Mexico</i>	IM-020-P
Mixed conductivity of garnet phases based on gadolinium ferrite <b>Fernando Marques</b> <i>Department of Ceramics and Glass Engineering, CICECO, University of Aveiro, Aveiro, Portugal</i>	IM-021-P
Electrical properties of $\text{Ba}(\text{Dy}_{0.67}\text{B}_{0.33})\text{O}_3$ (B = W(VI) and Mo(VI)) prepared by the polymeric precursors method <b>Guillermo Mendoza-Suarez</b> <i>Cinvestav Unidad Saltillo, Coahuila, Mexico</i>	IM-022-P
Alumina-dispersion dependent ionic conductivity of (Sr, Mg)-doped lanthanum gallates <b>Isabella Natali-Sora</b> <i>Structural Chemistry Lab., Department of Mechanical Engineering, University of Brescia, Brescia, Italy</i>	IM-023-P
Effect of synthetic route on sintering behaviour, phase purity and conductivity of Sr-and Mg-doped $\text{LaGaO}_3$ perovskites <b>Arianna Pamio</b> <i>Dipartimento di Scienze e Tecnologie Chimiche, Università di Roma "Tor Vergata", Rome, Italy</i>	IM-024-P
Constitution and electrical conductivity of melilite-type $\text{La}_{1+x}\text{Sr}_{1-x}\text{Ga}_3\text{O}_7$ <b>Michael Rozumek</b> <i>Max-Planck-Institut für Metallforschung, Stuttgart, Germany</i>	IM-025-P
Sol-gel synthesis of $\beta\text{-Na}_2\text{O}_x\text{Al}_2\text{O}_3$ <b>Sabrina Sartori</b> <i>Dipartimento di Ingegneria Meccanica – Settore Materiali, Università di Padova, Padova, Italy</i>	IM-027-P
Oxygen incorporation into acceptor-doped wide bandgap oxides: mechanistic case studies of $\text{SrTiO}_3$ and $\text{ZrO}_2$ <b>Rotraut Merkle</b> <i>Max-Planck-Institute for Solid State Research, Stuttgart Germany</i>	IM-028-P
An impedance study on praseodymia-zirconia system <b>Claudio Fontanesi</b> <i>Dept. of Chemistry, Università di Modena, Modena, Italy</i>	IM-029-P
Electric conductivity of YSZ electrolyte doped by $\text{Al}_2\text{O}_3$ <b>Andrei Ustyugov</b> <i>Research Institute of Technical Physics, Russian federal Nuclear Center - Ac. Zababakhin, Snezhinsk, Chelyabinsk region, Russia</i>	IM-030-P
Transparent and conductive $\text{ZnO}$ : Al thin films prepared by sol-gel dip-coating <b>Celso Santilli</b> <i>IQ/UNESP Caixa, SP, Brasil</i>	IM-031-P
<b>FC- Fuel Cells and Batteries</b>	
Mixed lithium phosphates as cathode materials for Li-ion cells <b>Silvia Bodoardo</b> <i>Department of Material Science and Chemical Engineering, Politecnico di Torino, Torino, Italy</i>	FC-009-P



<p>Synthesis and characterization of <math>\text{LiFePO}_4</math> in lithium-ion polymer battery</p> <p><b>Alessandra D'Epifanio</b>  <i>Dipartimento di Scienze e Tecnologie Chimiche, Università di Roma Tor Vergata, Rome, Italy</i></p>	FC-012-P
<p>Synthesis and characterization of nanometric <math>\text{ZrO}_2</math> as ceramic filler for PEO based composite polymer electrolytes</p> <p><b>Francesca Serraino Fiory</b>  <i>Dipartimento di Scienze e Tecnologie Chimiche, Università di Roma Tor Vergata, Rome, Italy</i></p>	FC-013-P
<p>Preparation of uniformly distributed <math>\text{NiO/YSZ}</math> composite by the polymer complex solution method</p> <p><b>Pedro Duran</b>  <i>Electroceramics Department, Instituto de Ceramica Y Vidrio, CSIC, Madrid, Spain</i></p>	FC-014-P
<p>An electrochemical AC impedance study of substituted perovskite manganites for solid oxide fuel cells</p> <p><b>Maurizio Ferretti</b>  <i>INFM e Dipartimento di Chimica e Chimica Industriale, Università di Genova, Genova, Italy</i></p>	FC-015-P
<p>Zirconia nanolayers prepared by chemical vapor deposition</p> <p><b>Johannes Seydel</b>  <i>Institute of Materials Science, Thin Films Division, Darmstadt University of Technology, Darmstadt, Germany</i></p>	FC-016-P
<p>Cathodic properties of <math>\text{LaMnO}_3</math> electrode for fuel cells based on <math>\text{LaGaO}_3</math> solid electrolyte</p> <p><b>Jae Yeon Yi</b>  <i>Department of Materials Science and Engineering, Pohang University of Science and Technology, Pohang, South Korea</i></p>	FC-017-P
<p>Synthesis, characterization and electrical properties of <math>\text{CeO}_2</math>-based anodes for SOFC</p> <p><b>Joseph Sfeir</b>  <i>Department of Chemistry Htceramix, Laboratory of Photonics and Interfaces, EPFL Science Park, Lausanne, EPFL, Switzerland</i></p>	FC-018-P
<b>SE-Chemical Sensors</b>	
<p>Ceramics response to reducing gases: porosity influence</p> <p><b>Pedro Manuel Faia</b>  <i>Departamento de Engenharia Electrotecnica e Computadores- Faculdade de Ciencias e Tecnologia, Universidade de Coimbra, Coimbra, Portugal</i></p>	SE-008-P
<p>Binary <math>\text{Cr/W}</math> mixed oxide thin films prepared by physical methods for gas sensing applications</p> <p><b>Carlo Cantalini</b>  <i>Dept. of Chemistry, University of L'Aquila, L'Aquila, Italy</i></p>	SE-010-P
<p>Separation techniques for nanostructured chemoresistive sensors</p> <p><b>Matteo Ferroni</b>  <i>INFM and Physics Dept. of Ferrara University, Ferrara, Italy</i></p>	SE-011-P
<p>Electrical properties of non-ohmic <math>\text{SnO}_2</math>-based ceramics in different relative humidity environments</p> <p><b>Alexander Glot</b>  <i>Dep. of Radioelectronics, Dniepropetrovsk National University, Dniepropetrovsk, Ukraine</i></p>	SE-012-P
<p>Degradation of oxide varistors ceramics in air atmosphere with <math>\text{NO}_2</math> impurities at elevated temperature</p> <p><b>Alexander Glot</b>  <i>Dep. of Radioelectronics, Dniepropetrovsk National University, Dniepropetrovsk, Ukraine</i></p>	SE-013-P
<p>Solid-state amperometric <math>\text{CO}_2</math> sensor using a sodium ion conductor</p> <p><b>Ji-Sun Lee</b>  <i>School of Materials Science and Engineering, Seoul National University, Seoul, Korea</i></p>	SE-015-P
<p>Low temperature sol-gel synthesis and sensing properties of <math>\text{Cr}_{2-x}\text{Ti}_x\text{O}_3</math></p> <p><b>Giovanni Neri</b>  <i>Dipartimento di Chimica Industriale e Ingegneria dei Materiali, Università di Messina, Messina, Italy</i></p>	SE-016-P
<p>Electrical modeling of the humidity sensing properties of doped <math>\text{Fe}_2\text{O}_3</math> thin films</p> <p><b>Giovanni Neri</b>  <i>Dipartimento di Chimica Industriale e Ingegneria dei Materiali, Università di Messina, Messina, Italy</i></p>	SE-017-P

FE- Ferroelectrics	
<p>Specifics of polarisation switching in PNN-PT-PZ ferroelectric ceramics</p> <p><b>Karlis Bormanis</b>  <i>Institute of Solid State Physics, University of Latvia, Riga, Latvia</i></p>	FE-009-P
<p>Superionic phase transitions in the series of <math>\text{Li}_x\text{Na}_{1-x}\text{Ta}_y\text{Nb}_{1-y}\text{O}_3</math> solid solution ceramics</p> <p><b>Karlis Bormanis</b>  <i>Institute of Solid State Physics, University of Latvia, Riga, Latvia</i></p>	FE-010-P
<p>Broad-band dielectric response of doped incipient ferroelectrics</p> <p><b>Viktor Bovtun</b>  <i>Department of Dielectrics, Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic</i></p>	FE-011-P
<p>Glass-ceramic materials with regulated dielectric properties based on the system <math>\text{BaO-PbO-TiO}_2\text{-B}_2\text{O}_3\text{-Al}_2\text{O}_3</math></p> <p><b>Alexander Gorokhovskiy</b>  <i>Centro de Investigacion y Estudios Avanzados, CINVESTAV Unidad Saltillo, Saltillo, Coahuila, Mexico</i></p>	FE-013-P
<p>Compositional evolution of structural phase transitions in sodium niobate</p> <p><b>Basilio Jimenez</b>  <i>Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain</i></p>	FE-014-P
<p>X-ray study and dielectric properties of Sc-substituted <math>\text{Pb}(\text{Yb}_{1/2}\text{Ta}_{1/2})\text{O}_3</math> ceramics</p> <p><b>Jai-Hyun Kim</b>  <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Taejeon, Korea</i></p>	FE-015-P
<p>X-ray study and dielectric properties of Ti.-substituted <math>\text{Pb}(\text{Yb}_{1/2}\text{Nb}_\text{ )}\text{O}_3</math> ceramics</p> <p><b>Jai-Hyun Kim</b>  <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Taejeon, Korea</i></p>	FE-016-P
<p>The dielectric properties and phase transition of <math>(1-x)\text{Pb}(\text{Yb}_{1/2}\text{Ta}_{1/2})\text{O}_3 - x\text{PbZrO}_3</math></p> <p><b>Heesan Kim</b>  <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Taejeon, Korea</i></p>	FE-017-P
<p>Novel <math>\text{Cd}_2\text{Nb}_2\text{O}_7</math> pyrochlore based ferroelectric relaxors and glasses</p> <p><b>N.N. Kolpakova</b>  <i>A.F.Ioffe Physico-Technical Institute, St.Petersburg, Russia</i></p>	FE-018-P
<p>Electric properties of <math>\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3</math> ceramics obtained by conventional sintering and hot-pressing</p> <p><b>Manuel H. Lente</b>  <i>Departamento de Fisica-Grupo de Ceramicas Ferroelectricas, Universidade Federal de Sao Carlos, Sao Carlos - S.P., Brazil</i></p>	FE-020-P
<p>Ferroelectric versus relaxor behaviour in some bismuth layered oxide ceramics</p> <p><b>Jean-Pierre Mercurio</b>  <i>Science des Procèdes Ceramiques et de Traitements de Surface, Faculte des Sciences et Techniques, Universite de Limoges, Limoges, France</i></p>	FE-022-P
<p>Raman and magnetic study of <math>(1-x)\text{PbFe}_{2/3}\text{W}_{1/3}\text{O}_3\text{-xPbTiO}_3</math> ceramics</p> <p><b>Liliana Mitoseriu</b>  <i>Dept. of Electricity, Cuza University, Iasi, Romania</i></p>	FE-023-P
<p>Broad-band dielectric response of <math>\text{SrTiO}_3\text{:Bi}</math> ceramics</p> <p><b>Viktor Porokhonskyy</b>  <i>Institut of Physics ASCR , Prague, Czech Republic</i></p>	FE-025-P
<p>Interface solid-state reactions between <math>\text{BaTiO}_3\text{-KNbO}_3</math> and <math>\text{KNbO}_3\text{-TiO}_2</math></p> <p><b>Irena Pribosic</b>  <i>Josef Stefan Institute, Ljubljana, Slovenia</i></p>	FE-026-P
<p><math>\text{Pb}(\text{B}',\text{B}'')\text{O}_3</math> binary system as electrocaloric materials for room temperature refrigeration</p> <p><b>Leonids Shebanovs</b>  <i>Institute of Solis State Physics, University of Latvia, Riga, Latvia</i></p>	FE-028-P

Relaxor and ferroelectric properties of PMN-PT ceramic samples <b>Ryszard Skulski</b> <i>Department of Material Science, Faculty of Engineering Science, University of Silesia, Sosnowiec, Poland</i>	FE-029-P
From incipient ferroelectricity in $\text{CaTiO}_3$ to real ferroelectricity in $\text{Ca}_{1-x}\text{Pb}_x\text{TiO}_3$ solid solutions <b>Andrei V. Sotnikov</b> <i>Institute of Solid State and Materials Research, Dresden, Germany</i>	FE-031-P
E-T phase diagram of 6.5/65/35 PLZT ceramics <b>Boris Vodopivec</b> <i>Josef Stefan Institute, Ljubljana, Slovenia</i>	FE-033-P
The dielectric properties and phase transitions of $(1-x)\text{Pb}(\text{Yb}_{1/2}\text{Ta}_{1/2})\text{O}_3 - x\text{Pb}(\text{Fe}_{1/2}\text{Ta}_{1/2})\text{O}_3$ <b>Sang Chul Youn</b> <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Taejon, Korea</i>	FE-034-P
Electrical properties of $\text{SrBi}_2\text{Ta}_2\text{O}_9$ single-crystals grown from high temperature self-flux solution <b>Harvey Amorin</b> <i>Department of Ceramic &amp; Glass Engineering, University of Aveiro, CICECO, Aveiro, Portugal</i>	FE-035-P
Effect of $\text{Ta}_2\text{O}_5$ doping on the crystal structures and ferroelectromagnetic properties of $\text{PrFeO}_3$ - $\text{PbTiO}_3$ and $\text{BiFeO}_3$ - $\text{PbTiO}_3$ solid solution systems <b>Jeong Seog Kim</b> <i>Dept. of Materials Engineering, Hoseo University, Chungnam-do, Korea</i>	FE-036-P
Coexistence of relaxor and ferroelectric phase in PLZT 6.5/65/35 ceramics <b>Cene Filipic</b> <i>Institute Josef Stefan Jamova, Ljubljana, Slovenia</i>	FE-037-P
Dielectric and pyroelectric properties of the $(\text{Pb}_{0.8}\text{Ba}_{0.2})[(\text{Zn}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}]\text{O}_3$ ferroelectric ceramic system with Ca and Sr impurities <b>Aime Pelaiz Barranco</b> <i>Physics Faculty-Institute of Materials and Reagents, Havana University, La Habana, Cuba</i>	FE-038-P
New ferroelastic phase in $\text{SrBiTa}_2\text{O}_9$ and study of the ferroelectric phase-transition dynamics <b>Stanislav Kamba</b> <i>Institute of Physics ASCR, Prague, Czech Republic</i>	FE-040-P
<b>PZ- Piezoelectrics</b>	
The influence of the $\text{Zr}^{4+}/\text{Ti}^{4+}$ ratio on the properties of lead zirconate titanate piezoelectric ceramics <b>Ana Maria Moisin</b> <i>R&amp;D Institute for Electrical Engineering, Bucharest, Romania</i>	PZ-009-P
Piezoelectric PMN-PT ceramics from mechanochemically activated precursors <b>Miguel Alguero</b> <i>Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, Madrid, Spain</i>	PZ-010-P
Low temperature firing of PZT thick films prepared by screen printing method <b>Chae-il Cheon</b> <i>Dept. of Materials Science &amp; Eng., Hoseo University, Asan, Chungnam, Korea</i>	PZ-011-P
The structural phase diagram of PSN-PT system <b>Raphael Haumont</b> <i>Laboratoire SPMS Structures, Propriétés et Modélisation des Solides, Ecole Centrale Paris, Chitenay-Malabry, Paris, France</i>	PZ-013-P
Low-temperature fabrication of $\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Zr}_{0.3}\text{Ti}_{0.7})\text{O}_3$ ceramics with $\text{LiBiO}_2$ as a sintering aid <b>Takashi Hayashi</b> <i>Department of Materials Science, Shonan Institute of Technology, Fujisawa, Kanagawa, Japan</i>	PZ-014-P
Piezoelectric and optical properties of strontium doped PZT-NN ceramics <b>Elena Dimitriu</b> <i>National Institute for Materials Physics, Magurele, Jud.Ilfov, Romania</i>	PZ-015-P

Nonlinear piezoelectric coefficient of $\text{Pb}(\text{Ni}, \text{Nb})\text{O}_3\text{Pb}(\text{Zn}, \text{Nb})\text{O}_3\text{-PbZrO}_3\text{-PbTiO}_3$ system ceramics <b>Keisuke Ishii</b> <i>Department of Materials Science and Engineering, The National Defense Academy, Yokosuka, Kanagawa, Japan</i>	PZ-016-P
Effect of simultaneous addition of $\text{BiFeO}_3$ and $\text{Ba}(\text{Cu}_{0.5}\text{W}_{0.5})\text{O}_3$ on low temperature sintering of coprecipitated $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ powders <b>Shoji Kaneko</b> <i>Department of Materials Science and Technology, Shizuoka University, Hamamatsu, Japan</i>	PZ-019-P
Sodium-lithium niobate ceramics prepared by mechanochemical assisted methods <b>Lorena Pardo</b> <i>Instituto de Ciencia de Materiales de Madrid., Madrid, Spain</i>	PZ-020-P
Fabrication of fluoridated PZT ceramics by solid state reaction <b>Benya Cherdhirunkorn</b> <i>Manchester Materials Science Centre, University of Manchester and UMIST, Manchester, United Kingdom</i>	PZ-021-P
1-3-type composites “ceramic bar-polymer matrix” and “ceramic bar- ceramic matrix” <b>Vitali Yu. Topolov</b> <i>Department of Physics, Rostov State University, Rostov-On-Don, Russia</i>	PZ-022-P
New trends in development of high-anisotropic piezoactive composite (Review) <b>Vitali Yu. Topolov</b> <i>Department of Physics, Rostov State University, Rostov-on-Don, Russia</i>	PZ-023-P
Electrical properties of alkali oxide piezoelectric materials <b>Masaaki Ichiki</b> <i>Institute of Mechanical System Engineering, National Institute of Advanced Industrial Science and Technology, 1-2 Namiki, Tsukuba, Ibaraki, Japan</i>	PZ-025-P
Electrical properties of photovoltaic PLZT in application for energy transducers <b>Masaaki Ichiki</b> <i>Institute of Mechanical System Engineering, National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan</i>	PZ-026-P
<b>DI- Dielectrics</b>	
Structural and dielectric characterization of a new pyrochlore type family of materials: tin and lead tin niobates <b>Luisa Paula Valente Cruz</b> <i>Dep. Environment, Polytechnic Institute of Viseu, Viseu, Portugal</i>	DI-007-O
Dielectric properties of $\text{BaFe}_x\text{Ti}_{(1-x)}\text{O}_3$ <b>Salah Eddine Barama</b> <i>Ceramics Laboratory, Mentouri University, Constantine, Algeria</i>	DI-009-P
Dielectric properties of $\text{BaTiO}_3\text{-NaNbO}_3$ composites <b>Med. Tahar Benlahrache</b> <i>Ceramics Laboratory, Mentouri University, Algeria</i>	DI-010-P
Effect of hygrometry on dielectric materials <b>Jerome Bernard</b> <i>Laboratoire Universitaire des Sciences Appliquées de Cherbourg (LUSAC EA2607), Site Universitaire, Cherbourg Octeville, France</i>	DI-011-P
$\text{BaTiO}_3$ with a lithium salt sintered at low temperatures in a reducing atmosphere <b>Jerome Bernard</b> <i>Laboratoire Universitaire des Sciences Appliquées de Cherbourg (LUSAC EA2607), Site Universitaire, Cherbourg Octeville, France</i>	DI-012-P
Effects of depressor addition on dielectric properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3}\text{O}_3\text{-PbTiO}_3)$ ceramics <b>Masafumi Kobune</b> <i>Department of Applied Chemistry, Faculty of Engineering, Himeji Institute of Technology, Hyogo, Japan</i>	DI-013-P

Compositional variation and electrical properties of low-dielectric constant LTCC substrate <b>Jae-Hwan Park</b> <i>Div. of Materials, Korea Institute of Science and Technology, Seoul, South Korea</i>	DI-015-P
Cyclic unipolar electric fatigue of bulk PZT <b>Cyril Verdier</b> <i>Institute of Materials Science, Darmstadt, Germany</i>	DI-017-P
The role of C-impurities in alumina dielectrics <b>Rafael Vila</b> <i>CIEMAT, Madrid, Spain</i>	DI-018-P
Ultra-fine Ba <sub>2</sub> Ti <sub>9</sub> O <sub>20</sub> microwave dielectric materials synthesized by inverse microwave process <b>Li-Wen Chu</b> <i>Department of Chemical Engineering, National Tsing-Hua University, Hsinchu, Taiwan</i>	DI-022-P
<b>TF- Ferroelectric Thin Films</b>	
Anomalous high electromechanical response of a (Pb, La) TiO <sub>3</sub> thin film on a circular thin plate with clamped edge <b>Miguel Alguero</b> <i>Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, Madrid, Spain</i>	TF-009-P
Structural and photoelectrical properties of niobium doped PZT thin films deposited by pulsed laser ablation <b>Iulian Boerasu</b> <i>Physics Center, University of Minho, Braga, Portugal</i>	TF-011-P
Strontium titanate films prepared by spray pyrolysis <b>Goran Brankovic</b> <i>Instituto de Quimica, UNESP, Araraquara, SP, Brazil</i>	TF-012-P
The influence of neodymium and lanthanum doping in the pyroelectric properties of strontium barium niobate (SBN) thin films <b>Jose Antonio Eiras</b> <i>Grupo de Ceramicas Ferroelectricas, Departamento de Fisica, Universidade Federal de Sao Carlos, Sao Carlos, SP, Brazil</i>	TF-014-P
Ferroelectric properties of nano-sized Pb(Zr, Ti)O <sub>3</sub> islands <b>Hironori Fujisawa</b> <i>Department of Electronics, Faculty of Engineering, Himeji Institute of Technology, Himeji, Hyogo, Japan</i>	TF-015-P
Stoichiometry and crystal orientation of YAG-PLD derived ferroelectric PZT thin film <b>Ken-ichi Kakimoto</b> <i>Department of Materials Science and Engineering, Inorganic Materials Division, Nagoya Institute of Technology, Nagoya, Japan</i>	TF-016-P
Low temperature recrystallization of non stoichiometric SrBi <sub>3</sub> Nb <sub>2</sub> O <sub>9</sub> thin films and its effects on ferroelectric characteristics <b>Yong Tae Kim</b> <i>Semiconductor Materials Laboratory, Korea Institute of Science and Technology, Seoul, Korea</i>	TF-017-P
PZT multilayer films: modeling polarization effects caused by microstructural inhomogeneities <b>Johannes Roedel</b> <i>Institute of Materials Science, Dresden University of Technology, Dresden, Germany</i>	TF-019-P
Pb(Yb <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> - PbTiO <sub>3</sub> thin films near morpotropic phase boundary compositions: sol-gel processing and structural characterization <b>Bong Jin Kuh</b> <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Yusong-Gu, Taejon, Korea</i>	TF-020-P
Residual stress in lead titanate thin film on different substrates <b>Tomoya Ohno</b> <i>Faculty of Engineering, Shizuoka University, Hamamatsu, Shizuoka, Japan</i>	TF-021-P
Influence of oxygen atmosphere on crystallization and properties of lithium niobate thin films <b>Alexandre Simoes</b> <i>Department of Chemistry-Physics, Chemistry Institute, UNESP, Araraquara-SP, Brazil</i>	TF-022-P

Compositional and structural study of ferroelectric multilayer (Pb, La)TiO <sub>3</sub> /(Pb, Ca)Ti <sub>3</sub> sol-gel thin films <b>Rosalia Poyato</b> <i>Inst. Ciencia de Materiales de Madrid (CSIC), Madrid, Spain</i>	TF-023-P
A statistical analysis of macroscopic and local responses in degraded hysteresis loops of PZT films <b>Dan Ricinschi</b> <i>Graduate School of Engineering Science, Osaka University, Toyonaka, Osaka, Japan</i>	TF-025-P
Ferroelectric properties of PbZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> thin films by low-temperature MOCVD <b>Masaru Shimizu</b> <i>Department of Electronics, Faculty of Engineering, Himeji Institute of Technology, Hyogo, Japan</i>	TF-027-P
Antiferroelectric PbZrO <sub>3</sub> thin films: structure, properties and irradiation effects <b>Andrisb Sternberg</b> <i>Institute of Solid State Physics, University of Latvia, Riga, Latvia</i>	TF-028-P
The influence of cation substitution on the crystallization of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films <b>Yun-Mo Sung</b> <i>Department of Materials Science &amp; Engineering, Functional Nanostructured Materials Laboratory, Daejin University Pochun-koon, Kyunggi-do, South Korea</i>	TF-029-P
Recostructive phase transitions of the pyrochlore- perovskite-type in PZT-based thin films <b>Zygmunt Surowiak</b> <i>Faculty of Physics, Rostov State University, Rostov-on-Don, Russia</i>	TF-030-P
Effects of Bi <sub>2</sub> O <sub>3</sub> seeding layer on crystallinity and electrical properties of sol-gel derived Bi <sub>4-x</sub> La <sub>x</sub> Ti <sub>3</sub> O <sub>12</sub> ferroelectric thin films <b>Daichi Togawa</b> <i>Department of Materials Science, Shonan Institute of Technology, Fujisawa, Kanagawa, Japan</i>	TF-031-P
Preparation and characterization of PZT thin films deposited by laser ablation on template layer <b>Zhan Jie Wang</b> <i>Department of Materials Processing, Graduate School of Engineering, Tohoku University, Sendai, Japan</i>	TF-032-P
Preparation and characterization of a-/b-axis-oriented epitaxially grown bismuth layer-structured ferroelectrics <b>Takayuki Watanabe</b> <i>Tokyo Institute of Technology, Yokohama-shi, Kanagawa, Japan</i>	TF-033-P
Aqueous solution-gel synthesis of SrRuO <sub>3</sub> <b>J. Pagnaer</b> <i>Laboratory of Inorganic and Physical Chemistry, Limburgs Universitair Centrum, IMO, Diepenbeek, Belgium</i>	TF-036-P
Phase shift behavior of RHEED intensity oscillation in intermediate growth mode between layer-by-layer mode and step flow mode <b>Byoung Chul Shin</b> <i>Dept. of Advanced Materials Engineering, Dong-Eui University, Busan, South Korea</i>	TF-037-P
Residual stresses in Pt bottom electrodes for sol-gel derived lead zirconate titanate thin films <b>Lulu Zhang</b> <i>National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan</i>	TF-039-P
<b>MW- Microwave Dielectrics and Applications</b>	
Dielectric relaxation of SrBi <sub>2</sub> (Nb <sub>0.75</sub> Ta <sub>0.25</sub> ) <sub>2</sub> O <sub>9</sub> ceramics from 1 kHz to 1GHz <b>Junzheng Liu</b> <i>Department of Applied Physics and Materials Research Center, The Hong Kong Polytechnic University, Hong Kong, China</i>	MW-010-P
Relationship between Sr substitution for Ba and dielectric characteristics in Sm <sub>2</sub> BaZnO <sub>5</sub> ceramics <b>Kenkichi Mori</b> <i>Faculty of Science and Technology, Meijo University, Nagoya, Japan</i>	MW-011-P



<p>Microwave dielectric properties-structure relationship in <math>\text{Y}_2\text{Ba}(\text{Cu}_{1-x}\text{M}_x)\text{O}_5</math> (M=Co and Mg) solid solutions  <b>Katsuhiro Mori</b>  <i>Faculty of Science and Technology, Meijo University, Nagoya, Japan</i></p>	MW-012-P
<p>Low-temperature sintering of <math>\text{Ba}_{6-3x}\text{Sm}_{8+2x}\text{Ti}_{18}\text{O}_{54}</math> microwave dielectric ceramics by <math>\text{B}_2\text{O}_3</math> and <math>\text{GeO}_2</math> addition  <b>Yutaka Ota</b>  <i>Department of Materials Science and Engineering, Nagoya Institute of Technology, Nagoya, Japan</i></p>	MW-013-P
<p>Local cationic ordering behaviour in <math>\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3</math> ceramics  <b>Jae-Gwan Park</b>  <i>Division of Materials, Korea Institute of Science and Technology, Seoul, Korea</i></p>	MW-014-P
<p>Microwave dielectric properties of low temperature sintering <math>\text{Ca}[(\text{Li}_{1/3}\text{M}_{2/3})\text{Ti}]\text{O}_{3-y}</math> (M=Nb,Ta) ceramics  <b>Liu Peng</b>  <i>Faculty of Science and technology, Meijo University, Nagoya, Japan</i></p>	MW-015-P
<p>Vibrational spectroscopy study of the lattice defects in <math>\text{CaZrO}_3</math> ceramics  <b>Michael Pollet</b>  <i>Laboratoire CRISMAT, Caen, France</i></p>	MW-016-P
<p>Far-infrared reflection and microwave properties of <math>\text{Ba}[(\text{Mg}_{1-x}\text{Zn}_x)_{1/3}\text{Ta}_{2/3}]\text{O}_3</math> ceramics  <b>Takeshi Shimada</b>  <i>R&amp;D Center, Sumitomo Special Metals Co., Shimamoto-cho, Mishima-gun, Japan</i></p>	MW-017-P
<p>Processing and properties of BST and BZT thin films for tunable dielectric devices  <b>Jin Xu</b>  <i>Institut für Werkstoffe der Elektrotechnik, Universitaet Karlsruhe (TH), Karlsruhe, Germany</i></p>	MW-019-P
<p>Influence of Zn and Ni substitution of Mg on dielectric properties of <math>(\text{Mg}_{4-x}\text{M}_x)\text{Nb}_2\text{O}_9</math> (M=Zn and Ni) solid solutions  <b>Atsushi Yoshida</b>  <i>Faculty of Science and Technology, Meijo University, Nagoya, Japan</i></p>	MW-020-P
<p>Investigation of <math>\text{Ag}(\text{Ta},\text{Nb})\text{O}_3</math> as tunable microwave dielectric  <b>Frederic Zimmermann</b>  <i>Institut für Werkstoffe der Elektrotechnik (IWE), Universitaet Karlsruhe, Karlsruhe, Germany</i></p>	MW-021-P
<p>Low temperature co-firable ceramics glass-ceramic composites for microwave device application  <b>Cheng-Sao Chen</b>  <i>Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan</i></p>	MW-022-P
<p>Effect of composition on low temperature sinterable Ba-Nd-Sm-Ti-O microwave dielectric materials  <b>Chung-Chin Cheng</b>  <i>Department of Materials Science and Engineering, National Chiao-Tung University, Hsinchu, Taiwan</i></p>	MW-023-P
<p>Correlation of microwave dielectric properties and crystallinity for pulsed laser deposited <math>\text{Bi}_2(\text{Zn}_{1/3}\text{Nb}_{2/3})_2\text{O}_7</math> thin films  <b>Hsiu-Fung Cheng</b>  <i>Department of Physics, National Taiwan Normal University, Taipei, Taiwan</i></p>	MW-024-P
<b>ED- Electroceramic Devices</b>	
<p>Defect properties of langasite and effects on bulk acoustic sensor performance at high temperatures  <b>Harry Tuller</b>  <i>Massachusetts Institute of Technology, Boston, USA</i></p>	ED-008-P
<p>Grains size effects on electric and piezoelectric constants of PZT ceramic transducers  <b>Mohammed Kadri</b>  <i>Department of Electronic, Faculty of Electrical Engineering, University of Sciences and Technology of Oran, Oran, Algeria</i></p>	ED-009-P



Modeling of polycrystal piezoceramic transducers <b>Mohammed Kadri</b> <i>Department of Electronic, Faculty of Electrical Engineering, University of Sciences and Technology of Oran, Oran, Algeria</i>	ED-010-P
High-power characteristics of piezoceramic resonators <b>Eberhard Hennig</b> <i>PI Ceramic GmbH Lindenstrasse, Lederhose, Germany</i>	ED-012-P
Effect of the laser processing in RAINBOW actuators <b>Jari Juuti</b> <i>Microelectronics and Material Physics Laboratories, Research Group of Infotech Oulu, University of Oulu, Oulu, Finland</i>	ED-013-P
Synthesis of functional ceramic coatings on the surface of glassy substrates by treatment with molten salt mixtures <b>Alexander Gorokhovsky</b> <i>Centro de Investigacion y Estudios Avanzados, CINVESTAV Unidad Saltillo, Coahuila, Mexico</i>	ED-014-P
Piezoresistive anisotropy of thick-film resistors <b>Claudio Grimaldi</b> <i>Laboratoire de Production Microtechnique, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland</i>	ED-015-P
Integration and high-strain response of piezoresistive thick-film resistors on titanium alloy substrates <b>Thomas Maeder</b> <i>Laboratoire de Production Microtechnique, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland</i>	ED-016-P
Temperature stability of pyroelectric parameters of PZT-based multi-component electroceramics <b>Dionizy Czekaj</b> <i>Department of Materials Science, Faculty of Engineering, University of Silesia, Sosnowiec, Poland</i>	ED-017-P
<b>SM- Superconductors and Magnetic Ceramics</b>	
Transport properties of polycrystalline $\text{La}_{0.6}\text{Y}_{0.1}\text{Ca}_{0.3}\text{MnO}_3$ compounds with different pore concentrations <b>Fabio C. Fonseca</b> <i>Instituto de Fisica, Universidade de S. Paulo, S. Paulo, SP, Brazil</i>	SM-006-P
The origin of room temperature ferromagnetism in the Co- doped ZnO thin films fabricated by pulsed laser deposition <b>Jae Hyun Kim</b> <i>Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Taejon, Korea</i>	SM-007-P
Production by solid/liquid reaction and characterisation of high purity $\text{MgB}_2$ for superconducting application <b>Silvia Bodoardo</b> <i>Department of Material Science and Chemical Engineering, Politecnico di Torino, Torino, Italy</i>	SM-009-P
High-Tc phase obtained in the Pb/Sb doped Bi-Sr-Ca-Cu-O system <b>Victor Fruth</b> <i>Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania</i>	SM-012-P
Growth and characterisation of lead hexaferrite films by pulsed laser deposition <b>Bernard Watts</b> <i>Istituto IMEM/CNR, Parma, Italy</i>	SM-014-P
Chemical solution techniques for epitaxial growth of oxide buffer and YBCO layers <b>Andrea Cavallaro</b> <i>Institut de Ciencia de Materials de Barcelona-CSIC, Bellaterra, Barcelona, Spain</i>	SM-015P

<b>OP- Optical and Photonics</b>	
Preparation of TiO <sub>2</sub> photocatalyst and feasibility of visible light application <b>Tae Kyung Yoon</b> <i>Research Center for Electronic Ceramics, Department of Environmental Engineering, Donggeui Institute of Technology, Donggeui University, Pusan, Korea</i>	OP-006-P
Synthesys and characterization of spherical TiO <sub>2</sub> nanoparticles for photonic applications <b>Giovanni Neri</b> <i>Dipartimento di Chimica Industriale e Ingegneria dei Materiali, Università di Messina, Messina, Italy</i>	OP-007-P
Electro-optical properties of Er-doped SnO <sub>2</sub> thin films <b>Luis Scalvi</b> <i>Departamento de Fisica - FC, UNESP, Bauru, Brazil</i>	OP-008-P
Fabrication of transparent lead lanthanum scandium niobate ceramics by two-stage atmosphere sintering <b>Yoshio Yoshikawa</b> <i>College of Engineering, Nihon University, Koriyama, Japan</i>	OP-009-P
Optical properties of As doped ZnO thin films prepared by PLD technique <b>Yun Sik Yu</b> <i>Research Center for Electronic Ceramics, Physics Department, Donggeui University, Pusan, Korea</i>	OP-010-P
Optical characteristics of Ge doped ZnO compound <b>Yun Sik Yu</b> <i>Research Center for Electronic Ceramics, Physics Department, Donggeui University, Pusan, Korea</i>	OP-011-P
Band gap energy of pure ZnO and Al doped ZnO thin films fabricated by PLD technique <b>Yun Sik Yu</b> <i>Research Center for Electronic Ceramics, Physics Department, Donggeui University, Pusan, Korea</i>	OP-012-P
Synthesis and characterization of visible light-active photocatalytic TiO <sub>2</sub> <b>Duksu Kim</b> <i>Dept. of MS&amp;E, ECRL, KAIST, Taejon, South Korea</i>	OP-013-P