

Poster Session: Tuesday, September 5th, 2017 – 16:30-18:30h

Tu-S28-P-01

Electrochemical and structural characterization of polyacrylonitrile (PAN) based gel polymer electrolytes blended with tetrabutylammonium iodide for dye-sensitized solar cells

Faisal Chowdhury

Tu-S28-P-02

Effects of La³⁺ ions on the physical properties of (Bi_{0.5}Na_{0.5})_{0.92}Ba_{0.08}-_{3/2}La_xTiO₃ lead-free ceramics

Yanela Méndez-González, Aimé Peláiz-Barranco, José de los Santos Guerra, Pierre Saint-Grégoire, Arbelio Pentón-Madrigal

Tu-S28-P-03

Dielectric and structural analysis of three-layered ferroelectric perovskites

Yuslin González-Abreu, Aimé Peláiz-Barranco, Pierre Saint-Grégoire, Yaovi Gagou, José de los Santos Guerra

Tu-S28-P-04

Electromagnetic pulse protection circuits design of piezoelectric vibration acceleration sensor

Cui Hao, Denghua Li

Tu-S28-P-05

Piezoelectric stack transducer evaluation and comparison for optimized energy harvesting

Bryan Gamboa, Ruyan Guo, Amar Bhalla

Tu-S28-P-06

An Interpretation of relaxor behavior by the Weiss field approach

Andreas Leschhorn, Herbert Kliem

Tu-S28-P-07

Phase transition and ferroelectric properties of Aurivillius Bi₄Ti₂Nb_{0.5}Fe_{0.5}O₁₂

Cristian Lavado, Marcelo Stachiotti

Tu-S28-P-08

Fabrication and characterization of (Fe+Nb)-doped PZT thin films

Lucia Imhoff, Sebastian Barolin, Nora Pellegrini, Marcelo Stachiotti

Tu-S28-P-09

Structural and electrical properties of Mg_{0.05}Ba_{0.95}Zr_{0.1}Ti_{0.9}O₃ ceramics

Ariel Di Loreto, Agustín Frattini, Rodrigo Machado, Marcelo Stachiotti

Tu-S28-P-10

Polarised-light and electron microscopy of the static domain structure of ferroic Fe₃B₇O₁₃ boracite at room temperature

Guillermo Castellanos-Guzman, O. Jimenez, Carmen Miramontes-Corona, D. Mendoza, Oziel R. Camacho, Alan Y. Vargas-Aguilera

Tu-S28-P-11

BiFeO₃-SrTiO₃ thin film as new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance

Hao Pan, Yi Zeng, Yang Shen, Yuan-Hua Lin, Jing Ma, Liangliang Li, Ce-Wen Nan

Tu-S28-P-12

Ab-Initio study on the electronic properties of perovskite structure-based ferroelectrics

Abraham Pablo Aslla-Quispe, Roberto Hiroki Miwa, José de los Santos Guerra

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Chrome influence on the physical properties of Bi_{0.90}Ba_{0.10}Fe_{0.90}Ti_{0.10}O₃ multiferroic ceramic system

Yalina García-Puente, Osmany García-Zaldívar, Aimé Peláiz-Barranco, Martín A. Hernández-Landaverde, Francisco Calderón Piñar, Sergio Díaz-Castañón, José de los Santos Guerra, Marcos A. Oliveira

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Study of the crystallization kinetics of ferroelectric nanocrystals into TeO₂-based glass system

Renato Cravinél de Oliveira, Anielle Christine Almeida Silva, Noélio Oliveira Dantas, José de los Santos Guerra

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Li, La doped KNNT ceramics obtained by RTGG

Jorge Portelles, Juan Fuentes, Jose Juan Gervacio, Oscar Raymond, Jesus M Siqueiros, Jesus Heiras, Ma. de la Paz Cruz, Norma Palmero, Carlos Ostos

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Microwave dielectric properties of Bi₂(Zn_{1/3}Nb_{2/3})₂O₇ thin films by microwave sintering

Siyuan Dong, Meng Li, Ruyan Guo, Amar Bhalla, Xiaoli Wang

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Magnetolectricity at nanoscale

Soutik Betal, Eduardo Ortega, Moumita Dutta, Amar Bhalla, Ruyan Guo

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Effect of oxygen flow rate on optical and electrical properties of flexible

SnO₂/Ag/SnO₂ multilayer thin films on PET substrate

Guneik JANG, Taekeun Kim

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Dielectric and dilatometric studies of Rb₂ZnI₄ and its mixed systems

Toshihisa Yamaguchi, Masaaki Takashige

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Micro-Raman scattering, dielectric and DSC investigations of phase transitions behavior in the PbHf_{1-x}Sn_xO₃ single crystal

Irena Jankowska-Sumara, Maria Podgórna, Jae-Hyeon Ko, Andrzej Majchrowski

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Negative dipolar heat capacity in relaxor ferroelectrics and dipolar glasses

Zdravko Kutnjak, Rasa Pirc

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Perovskite relaxor multiferroics in novel dielectric cooling designs

Brigita Rozic, Andraz Bradesko, Marko Vrabelj, Hana Ursic, Lovro Furlanovic, Uroš Plaznik, Barbara Malic, Tadej Rojac, Qiming Zhang, Andrej Kitanovski, Zdravko Kutnjak

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Piezoelectric properties and local structure analysis of (1-x)(Na_{0.50}K_{0.45}Li_{0.05})NbO₃-(x)Ca(Zr_{0.50}Ti_{0.50})O₃ solid solutions produced by malic acid complex solution method

Masafumi Kobune, Haruka Nagai, Takeyuki Kikuchi, Yasuhiro Yoneda

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Phase transitions in dense perovskite formate frameworks: EPR and dielectric study

Mantas Simenas, Sergejus Balciunas, Monika Trzebiatowska-Gusowska, Miroslaw Maczka, Georg Völkel, Andreas Pöpl, Juras Banys

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Preparation of BiFeO₃ thin films by MOCVD

Masaru Shimizu, Nao Yoshimura, Hironori Fujisawa, Seiji Nakashima

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Phase transition studies on the multiferroic (1-x)BiFeO₃-(x)BaTiO₃ solid solutions below room temperature

ARUN KUMAR, Dhananjai Pandey

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Synthesis and characteristics of high dielectric constant material:

BaCu₃Ti₄O₁₂

Kalpna Parida, RNP Choudhary

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The defect and dielectric relaxation of Nb and Mn Co-doping BaTiO₃ ceramics

Yang Xiaojing¹, Liu Xiaobing², Ding Shihua³

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Defects and dielectric properties of BCZT ceramics doped with Nd

Ding Shihua, Peng Yong, Song Tianxiu

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Double hysteresis loops in Pb(Zn_{1/3}Nb_{2/3})O₃-PbTiO₃

Makoto Iwata, Yasutaka Kaiden, Yoshihiro Ishibashi

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Domain kinetics in KTP single crystals for periodical poling applications

Vladimir Shur, Andrey Akhmatkhanov, Elena Pelegova, Ekaterina Vaskina, Maria Chuvakova, Ekaterina Gachegova, Maxim Ivanov, Andrei Kholkin

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Formation of self-assembled domain structure at non-polar surfaces of LiNbO₃ by tip scanning without application of external field

Vladimir Shur, Anton Turygin, Denis Alikin, Jury Alikin

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Dynamics of ferroelectric polarization simulated by a second-order Landau model
Michael Richman, Paul Rulis, Anthony Caruso
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Multi-shell nanowires including ferroelectrics
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Effect of electric field on 180° domain switching in uniaxial $\text{Ca}_{0.30}\text{Ba}_{0.70}\text{Nb}_2\text{O}_6$ crystals studied by Brillouin Scattering
Md Aftabuzzaman, Md Al Helal, Jan Dec, Wolfgang Kleemann, Seiji Kojima
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Temperature dependent local structure of MFe_2O_4 (M = Ni and Mn) determined by *in-situ* X-ray absorption fine structure (EXAFS)
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Aging in relaxor ferroelectric systems
Jan Dec, Wolfgang Kleemann
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Large electro-mechanical energy conversion in PZT-PNN ceramics
Muangjai Unruan, Sujitra Unruan, Yutthapong Inkong, Rattikorn Yimnirun
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Effect of $\text{BaZr}_{0.4}\text{Ti}_{0.6}\text{O}_3$ addition on electrical and magnetic properties of Multiferroic (1-x) BiFeO_3 -x BaTiO_3 ceramics
Sujitra Unruan, Rattikorn Yimnirun, Rungnapa Tipakontithikun, Muangjai Unruan
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Influence of humidity on electrophysical properties of pure silicon dioxide
Milovidova SD, Nguyen Hoai Thuong, Rogazinskaya OV, Sidorkin AS, Zolotukhina MA
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Local piezo-ferroelectric properties of highly textured $(\text{K}_{0.5}\text{Na}_{0.5})_{0.985}\text{La}_{0.005}\text{NbO}_3$ thin films
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Dielectric properties of BaTiO_3 based composites
Sergejus Balčiūnas, Maksim Ivanov, Satoshi Wada, Jūras Banys
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Thermophysical properties of multiferroic bismuth ferrite with rare-earth elements
Suleiman Kallaev, Abumuslim Bakmaev, Zairbek Omarov, Alikber Bilalov, Larisa Reznichenko, Sedik Hazbulatov
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Effects of morphology and surface potential shift of mechanosynthesized BiFeO_3 nanoparticles on the visible-light catalysis for decontamination of organic dyes
Eduardo Volnistem, Raquel Bini, Gustavo Dias, Luiz Cótica, Ivair Santos
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Computational design of new semiconductor ferroelectric perovskite oxides
Ilya Grinberg, Jing Yang, Andrew Rappe
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Dielectric, piezoelectric and optical properties of a $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ single crystal
Iwona Lazar, Krystian Roleder, Andrzej Majchrowski, Dariusz Kajewski, Andrzej Soszyński, Janusz Koperski
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Resistivity of relaxor $\text{BNT}_{0.925}\text{BT}_{0.075}\text{X}\%$ Mn ceramics found from impedance spectroscopy
Noah Archer, Hugo Schmidt, Chi-Shun Tu
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Tailoring the properties of BiFeO_3 for applications through first-principles calculations
Espiridion Martinez Aguilar, H'Linh H'Mok, Maria Guadalupe Moreno Armenta, Jesus Maria Siqueiros Beltrones
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Study of the multiferroic ordering in $\text{BiFeO}_3(012)/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3(012)$ heterostructures by first principles calculations
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AC conductivity of multiferroic BiFeO_3 nanocrystalline ceramics
Sadyk Sadykov, Nariman Alikhanov
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Phase transformation induced bloating behavior in diopside glass-ceramics used for microwave dielectric materials
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Structural characteristics and large electric-field-induced strains in strontium and manganese Co-doped $92.5\%(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ - $7.5\%\text{BaTiO}_3$ crystals
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Universal energetic coupling in complex antiferroelectric and incommensurate perovskites
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Ferroelectric domain structure and piezoelectric properties of highly textured $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ thin films deposited by sputtering
José Juan Gervacio Arciniega, Mario Alberto Curiel Álvarez, C. I. Enrique Flores, Carlos E Ostos Ortiz, Reynaldo Font, F. J. Espinoza-Beltrán, Jesus M. Siqueiros Beltrones, Oscar Raymond Herrera
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Study of magnetoelectric coupling in $\text{BiFe}_{1-x}\text{Co}_x\text{O}_3$ compositions using ferroic characterizations
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Indications of an enhanced magnetoelectric coupling in nanostructured BiFeO_3 - PbTiO_3 compounds
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Switchable thin film bulk acoustic wave devices based on ferroelectric films
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Andrzej Hilczer, Katarzyna Pasińska, Ewa Markiewicz, Adam Pietraszko, Bartłomiej Andrzejewski
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Magnetic and ferroelectric properties of sol-gel synthesized Al and Mn doped GaFeO_3 ceramics
NANDNI SHARMA, Ashish Mall, Rajeev Gupta, Ashish Garg, Sanjeev Kumar
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Background dielectric permittivity: material constant or a fitting parameter?
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Investigation of non-linear susceptibility of some relaxor ferroelectrics
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Influence of the dynamic magnetization response in the magnetoelectric effect in multiferroic composites
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- Surbhi Gupta, Ayushi Paliwal, Vinay Gupta, Monika Tomar
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Bipolar resistive switching in Pt/BFO/BTO/Pt sandwiched structures
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YuHsun Liao, V. K. Veerapandiyan, Steven M. Pilgrim, Walter A. Schulze, Steven C. Tidrow
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On the structural and dielectric properties of nickel ferrite based multiferroic composites
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Temperature and composition-driven percolation in BaTiO₃-based relaxor ferroelectric solid solutions
Alexei Bokov, Jian Zhuang, Wei Ren, Zuo-Guang Ye
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Guilherme Maia Santos, Luiz Fernando Cótica, José Eduardo Padilha, Ivair Aparecido dos Santos, Amar Bhalla, Ruyan Guo
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Pinched hysteresis behaviour in lead free ferroelectric ceramic BCT-BZT
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Study on the interface behaviours between bismuth-based ceramics and electrodes
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