

# PUBLICATIONS 2018 - OXYDES COMPLEXES FONCTIONNELS

A Lambert, F Bougrioua, O Abbas, M Courty, M El Marssi, V Faivre, S Bresson : *Temperature dependent Raman and X-ray diffraction studies of anhydrous milk fat*  
**Food Chemistry** 267 pages 187-195

J Belhadi, S Yousfi, H Bouyanfif, M El Marssi : *Structural investigation of (111) oriented  $(\text{BiFeO}_3)_{(1-x)}/(\text{LaFeO}_3)_x$  superlattices by X-ray diffraction and Raman spectroscopy*  
**Journal of Applied Physics** 123 (15), 154103

## LABORATOIRE DE PHYSIQUE DE LA MATIÈRE CONDENSÉE

F Lawar, J Belhadi, B Asbani, B Manoun, H Kaddoussi, M Courty, C Boudaya, M El Marssi, H Khemakhem, A Lahmar : *Structural investigation, dielectric, ferroelectric, and electrocaloric properties of lead-free  $\text{Ba}(1-x)\text{Ca}x\text{Ti}(1-x)(\text{Li}1/3\text{Nb}2/3)x\text{O}_3$  ( $x=0.02$  and  $x=0.07$ ) ceramics*  
**Journal of Materials Science: Materials in Electronics** 29 (21), 18640-18649

M Hadouchi, A Assani, M Saadi, I Saadoune, A Lahmar, H Bouyanfif, M El Marssi, L El Ammari : *Synthesis, Crystal Structure and Properties of a New Phosphate,  $\text{Na}_2\text{Co}_2\text{Cr}(\text{PO}_4)_3$*   
**Journal of Inorganic and Organometallic Polymers and Materials** 28 (6), 2854-2864

M Benyoussef, M Zannen, J Belhadi, B Manoun, J Dellis, M El Marssi, A Lahmar : *Dielectric, ferroelectric, and energy storage properties in dysprosium doped sodium bismuth titanate ceramics*  
**Ceramics International** 44 (16), 19451-19460

N Haddadou, J Belhadi, B Manoun, K Taïbi, B Carcan, M El Marssi, A Lahmar : *Structural, vibrational, and dielectric investigations of  $\text{Ba}_{0.925}\text{Bi}_{0.05}(\text{Ti}_{0.95}\text{Zr}_x)\text{Sn}_{0.05}\text{O}_3$  ceramics*  
**Journal of Materials Science: Materials in Electronics** 29 (18), 16144-16154

NS Rajput, F Le Marrec, M El Marssi, M Jouiad : *Fabrication and manipulation of nanopillars using electron induced excitation*  
**Journal of Applied Physics** 124 (7), 074301

B Carcan, H Bouyanfif, M El Marssi, F Le Marrec, L Dupont, C Davoisne, J Wolfman, DC Arnold : *Interlayer strain effects on the structural behavior of  $\text{BiFeO}_3/\text{LaFeO}_3$  superlattices*  
**Journal of Applied Physics** 124 (4), 044105

S Ben Moumen, A Neqali, B Asbani, D Mezzane, M Amjoud, E Choukri, Y Gagou, M El Marssi, I A Luk'yanchuk : *Impedance spectroscopy studies on lead free  $\text{Ba}_{1-x}\text{Mg}_x(\text{Ti}_{0.9}\text{Zr}_{0.1})\text{O}_3$  ceramics*  
**Superlattices and Microstructures** 118, 45-54

AT Kozakov, AG Kochur, VG Trotsenko, AV Nikolskii, M El Marssi, BP Gorshunov, VI Torgashev : *Valence state of cations in manganites  $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$  ( $0.3 < x < 0.5$ ) from X-ray diffraction and X-ray photoelectron spectroscopy*  
**Journal of Alloys and Compounds** 740, 132-142

VG Trotsenko, AS Mikheykin, VB Shirokov, AG Razumnaya, AA Bush, LS Kadyrov, M El Marssi, BP Gorshunov, VI Torgashev : *Temperature Behavior of the Rotational Order Parameters in a  $\text{La}_{0.25}\text{Ca}_{0.75}\text{MnO}_3$  Solid Solution*  
**Bulletin of the Russian Academy of Sciences: Physics** 82 (3), 335-337

B Asbani, Y Gagou, M Trek, J-L Dellis, M Amjoud, A Lahmar, D Mezzane, Z Kutnjak, M El Marssi : *Dielectric permittivity enhancement and large electrocaloric effect in the lead free  $(\text{Ba}_{0.8}\text{Ca}_{0.2})_{1-x}\text{La}_{2x/3}\text{TiO}_3$*

ferroelectric ceramics

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Kamel TaIbil, Nesrine Taibi-Haddadou, Abdelilah Lahmar, Gharib Rekhila, Mohamed Trari :*Structural, dielectric and photoelectrochemical properties of new lead-free ceramics of composition  $Ba_{0.925}Bi_{0.05}(Ti_{0.95-x}Zr_x)Sn_{0.05}O_3$*   
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I. Luk'yanchuk, A Sené, V. Vinokour  
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