

# PUBLICATIONS 2012 - OXYDES FERROÉLECTRIQUES

H. Bouyanatif, M. El Marssi, N. Lemée, F. Le Marrec, M.G. Karkut, B. Dkjil, and Yu. I. Yuzyuk  
A comparative Raman study of  $0.65(PbMg_{1/3}Nb_{2/3})-0.35(PbTiO_3)$  single crystal and thin film.

European Physical Journal B 8535 (2012)

R. Sobiestianskas, W. Peng, N. Lemée, M. Karkut, J. Banys, J. Holz, and M. Kosec

Microwave dielectric dispersion in a multiferroic  $Pb(Fe_{1/2}Nb_{1/2})O_3$  thin film.

Applied Physics Letters 100, 122904 (2012)

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## LABORATOIRE DE PHYSIQUE DE LA MATIÈRE CONDENSÉE

C. Hubault, C. Davoisne, A. Boulle, L. Dupont, V. Demange, A. Perrin, B. Gautier, J. Holc, M. Kosec, M. G. Karkut and N. Lemée

Strain effect in  $PbTiO_3 / PbZr_{0.2}Ti_{0.8}O_3$  superlattices: From polydomain to monodomain structures.

Journal of Applied Physics 112, 114102 (2012)

Y. Gagou, A. Menny, J. Belhadi, M.A. Fremy, D. Mezzane, Y. Baledent, K. Djellab, M. El Marssi and P. Saint-Gregoire

Pulsed Laser Deposition of TTB-type Materials Thin Films Examples of  $Pb_2KNb_5O_{15}$  (PKN) and  $GdK_2Nb_5O_{15}$  (GK N)

Research Journal of Nanoscience and Nanotechnology, 2, 24-30 (2012)

C. Chaker, Y. Gagou, N. Abdelmoula, J.-L. Dellis, C. Masquelier, H. Khemakhem, and M. El Marssi  
X-ray diffraction, dielectric, conduction and Raman studies in  $Na_{0.925}Bi_{0.075}Nb_{0.925}Mn_{0.075}O_3$  ceramic  
J. Appl. Phys. 111, 044101 (2012)

A. Belboukhari, Z. Abkhar, Y. Gagou, J. Belhadi, R. Elmoznine, D. Mezzane, M. El Marssi and I. Luk'yanchuk

Dielectric properties and relaxation phenomena in the diffuse ferroelectric phase transition in  $K_3Li_2Nb_5O_{15}$  ceramic

Eur. Phys. J. B85, 215 (2012)

Laurent Baudry, Igor A Luk'yanchuk, Anaïs Sené

Inhomogeneous polarization switching in finite-size cubic ferroelectrics

Ferroelectrics Volume 427 Numéro 1 Pages 34-40 (2012)

Laurent Baudry, Igor A Luk'yanchuk, Anaïs Sené

Switching properties of nano-scale multi-axial ferroelectrics: geometry and interface effects

Integrated Ferroelectrics Volume 133 Numéro 1 Pages 96-102 (2012)

N. S. Druzhinina, Yu. I. Yuzyuk, I. P. Raevski, M. El Marssi, V. V. Laguta, S. I. Raevskaya

Raman Spectra of  $PbFe_{0.5}Nb_{0.5}O_3$  Multiferroic Single Crystals and Ceramics

Ferroelectrics 434, 1 (2012)

R. A. Shakhovoy, S. I. Raevskaya, L. A. Shakhovaya, D. V. Suzdalev, I. P. Raevski, Yu. I. Yuzyuk, A. F. Semenchev, M. El Marssi

Ferroelectric Q and antiferroelectric P phases' coexistence and local phase transitions in oxygen-deficient  $NaNbO_3$  single

*crystal: micro-Raman, dielectric and dilatometric studies*  
**Journal of Raman Spectroscopy**43, 1141 (2012)

A. Peláiz-Barranco, A.C. García-Wong, Y. González-Abreu, Y. Gagou and P. Saint-Grégoire  
*Thermally stimulated processes in samarium-modified lead titanate ferroelectric ceramics*  
**Appl. Phys A**, Materials Science and Processing 112 (2) PP. 419 - 423 (2012)

M.Zannen,A. Lahmar, M. Dietze, H. Khemakhem, A. Kabadou, M. Es-Souni  
*Structural, Optical, and Electrical properties of neodymium doped  $Na_{0.5}Bi_{0.5}TiO_3$*   
**Mater Chem. Phys**134, 829 (2012).

A. Lahmar, H. Ehrenberg, E. Antic-Fidancev, S. Ganschow, M. Zriouil and B. Elouadi  
*Single Crystal Structure Determination and Infrared Fluorescence of the System  $(K_3Sr_{1-x}Nd_x)(Nd_{1-x}Sr_{1+x})Nb_{10}O_{30}$*   
**Materials Research Bulletin**47, 2566 (2012)

M. A. Popov, S. A. Stankevich, A. A. Kozlova, I. Luk'yanchuk, D. Mezzane, M. El Bah  
*Socio-economic Benefits from the Prevention of Desertification in Morocco and Mauritania Using Satellite Monitoring*, in “Correlation Between Human Factors and the Prevention of Disasters”: NATO Science for Peace and Security Series - E:  
**Human and Societal Dynamics**Volume 94, page 3, DOI: 10.3233/978-1-61499-039-0-3, (2012)

A. Varlamov, A. Kavokin, I. Lukyanchuk, S. Sharapov; *Anomalous thermoelectric and thermomagnetic properties of Graphene.*  
**Physics-Uspekhi: Advances in Physical Sciences** 55, 1146 (2012)