

# PUBLICATIONS 2015 - MATÉRIAUX MICROSTRUCTURÉS ET SURFACES FONCTIONNELLES

A. Lahmar, N. Pfeiffer, S. Habouti, M. Es-Souni,  
*Microstructure and property control in TiO<sub>2</sub>-Pt nanocomposite thin films*  
**Ceramics International** 41 (1), 443-449 (2015)

S.M. Salim, A. Lahmar, H. Zayied, AM. Salem, GB. Sakr, P. Barroy  
*Growth, Structural and Optical Characterization of Se<sub>75</sub>Te<sub>17</sub>Ge<sub>8</sub> Thin Films*

## LABORATOIRE DE PHYSIQUE DE LA MATIÈRE CONDENSÉE

L. Bouaziz, K. Nachi, D. Gamra, M. Lejeune, A. Zeinert, K. Zellama et H. Bouchriha  
*Experimental evidence of the photonic bandgap and defect effect in Si-SiO<sub>2</sub> multilayer structures*  
**Cryst. Res. Technol.** 50, 77 (2015)

C. L. Gomez, O. Depablos-Rivera, P. Silva-Bermudez, S. Muhl, A. Zeinert, M. Lejeune, S. Charvet, P. Barroy, E. Camps, S. E. Rodil  
*Opto-electronic properties of bismuth oxide films presenting different crystallographic phases*  
**Thin Solid Films** 578, 103 (2015)

A. Benchaabane, Z. Ben Hamed, F. Kouki, A. Zeinert, H. Bouchriha  
*Photogeneration process in bulk heterojunction solar cell based on quaterthiophene and CdS nanoparticles*  
**Applied Physics A** DOI 10.1007/s00339-015-9294-x, 120, 1149–1157 (2015)

Serigne Massamba Seck, Stéphane Charvet, Modou Fall, Emmanuel Baudrin, Florence Geneste, Michaël Lejeune, Mohammed Benlahsen  
*Functionalization of amorphous nitrogenated carbon thin film electrodes for improved detection of cadmium vs. copper cations*  
**Journal of Electroanalytical Chemistry**-Volume 738, 1 February 2015, Pages 154–161

S.A. Memchout, Y. Bouizem, J.D. Sib, A. Belfedal, A. Kebab, D. Benlakehal, L. Chahed, K. Zellama  
*Effects of ion bombardment on the structural and optical properties in hydrogenated silicon thin films*  
**Thin Solid Films**, Volume 594, Part A, 2 November 2015, Pages 138–146

C. Manaa, L. Bouaziz, M. Lejeune, F. Kouki, K. Zellama, M. Benlahsen, M. Mejatty and H. Bouchriha  
*Detailed investigation of optoelectronic and microstructural properties of plasma polymerized cyclohexane thin films: Dependence on the radiofrequency power*  
**Journal of Applied Physics.** 117, 215701 (2015)

A. Toudjine, M. Morcrette, M. Courty, C. Davoisne, M. Lejeune, N. Mariage, W. Porcher and D. Larcher  
*Partially Oxidized Silicon Particles for Stable Aqueous Slurries and Practical Large-Scale Making of Si-Based Electrodes*  
**Journal of Electrochemistry Society** 162(8), A1466-A1475 (2015)

Ludk Frank, Eliška Mikmeková, Ilona Müllerová and Michaël Lejeune  
*Counting graphene layers with very slow electrons*  
**Applied Physic Letters** 106, 013117 (2015)