



Strasbourg (France)

**E-MRS IUMRS ICEM 2006 Spring Meeting
Nice, France - May 29 – June 2, 2006**

SYMPOSIUM A

Current Trends in Nanoscience – from Materials to Applications

Symposium Organizers:

Giovanni Marletta, University of Catania, Italy

Hans-Joachim Müssig, IHP, Frankfurt (Oder), Germany

Hermann Grimmeiss, University of Lund, Sweden

Guillermo Solorzano, PUC, Rio de Janeiro, Brazil

Shoushan Fan, University of Tsinghua, China

Symposium Support

Progetto Finalizzato "Materiali Speciali per Technologie Avanzate II"

Poster Session 2
Tuesday, May 30, 2006
16:30 - 19:00

- A A2 01 Resonance Energy Transfer from Poly[N-vinylcarbazole] (PVK) to Poly[2-methoxy-5-(2'-ethyl-hexyloxy)-p-phenylene vinylene] MEH-PPV) in PVK/MEH-PPV Nanoparticles
F. Kong (a), X. L. Wu (a,b), G. S. Huang (a,b), R. K. Yuan (a), and Paul K. Chu (b), (a) National Laboratory of Solid State Microstructures and Department of Physics, Nanjing University, Nanjing 210093, People's Republic of China (b) Department of Physics and Materials Science, City University of Hong Kong, Kowloon, Hong Kong, China
- A A2 02 Low-Temperature Photoluminescence Properties of SnO₂ Nanowhiskers Fabricated by Thermal Evaporation and Annealed in Different Ambients
S. H. Luo (1,2), W. L. Liu (2), M. Zhang (2), C. L. Lin (2), Paul K. Chu (1), Department of Physics and Material Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong, China (2) Research Center of Semiconductor Functional Film Engineering Technology and State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, 200050, China
- A A2 03 STEP COVERAGE ON POLYMER SUBSTRATE WITH PTFE FILM
K. Grytsenko, O. Lytvyn, Institute of Semiconductor Physics, 45 Nauki pr., Kyiv, 03028, Ukraine, J. Friedrich, R.D. Schulze, Federal Institute for Materials Research and Testing, Unter den Eichen 87, 12205 Berlin, Germany, S. Schrader, University of Applied Sciences Wildau, F. Engels Str. 63, 15745 Wildau, Germany
- A A2 04 ORIENTED GROWTH OF ORGANIC FILMS ONTO VACUUM DEPOSITED AND RUBBED PTFE
1K. Grytsenko, 1O. Lytvyn, 2R.Velagapudi, 2S.Ksensov, 2S.Schrader, Institute of Semiconductor Physics, 45 Nauki pr., 03028, Kyiv, Ukraine; 2Institute for Plasma/Laser/Optronics, TFH Wildau, F. Engels Str. 63, 15745, Wildau, Germany
- A A2 05 Control of catalytic activity of glucose oxidase in layer-by-layer films of chitosan and glucose oxidase
Luciano Caseli (1), David S. dos Santos Jr. (2), Mauricio Foschini (1), Débora Gonçalves (1), Osvaldo N. Oliveira Jr.(1), (1) Instituto de Física de São Carlos, Universidade de São Paulo, São Carlos -SP, Brazil. (2) Materials & Surface Science Group, School of Physical Sciences, University of Windsor- ON, Canada
- A A2 06 Design and simulation of a nonoelectronic DG MOSFET current source using artificial neural networks
F. Djeflal , Z. Dibi, M. L. Hafiane and D. Arar, LEA, Department of Electronics, University of Batna 05000, Algeria
- A A2 07 Atomic Entanglement in Carbon Nanotubes
Igor Bondarev and Branislav Vlahovic, Physics Department, North Carolina Central University, USA
- A A2 08 Study of C₆₀ fullerenes and C₆₀-containing composites cytotoxicity in vitro
S. V. Prylutska, O. P. Matyshevska, O. A. Golub, Yu. I. Prylutsky, Kyiv National Shevchenko University, Dept. of Biology, Volodymyrska Str., 64, 01033 Kyiv, Ukraine; U. Ritter, P. Scharff, Laboratory of Chemistry, Technical University of Ilmenau, D-98684 Ilmenau, Germany
- A A2 09 SUB-PICOLITRE SILICON-BASED INTEGRATED PERISTALTIC MICRO-PUMP FOR APPLICATIONS IN LABORATORY-ON-A-CHIP
M. Gaudet, S. Arscott, J-C. Camart and L. Buchaillet, Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN) CNRS UMR 8520, ISEN Department, University of Lille (USTL), Cité Scientifique 59652 Villeneuve d'Ascq, France
- A A2 10 POLYISOPRENE - MULTI-WALL CARBON NANOTUBE COMPOSITES FOR SENSING STRAIN
M. Knite(a), V. Tupureina(a), A. Fuith(b), J. Zavickis(a), V. Teteris(a), (a)- Riga Technical University, Latvia, (b) - University of Vienna, Austria
- A A2 11 The study of the interaction of the aureolic family of drugs with the nucleic acids
Loredana Elena, Vujan University of Pitesti, Pitesti, Targul din Vale 1, 110040, Romania
- A A2 12 Shaping of conductive polypyrrole during polymerization
B. Schulz¹, I. Diez¹, and K.-D. Tauer², ¹ University Potsdam, Institute of Physics, Am Neuen Palais 10, 14469 Potsdam, Germany ² Max-Planck-Institute of Colloids and Interfaces; Am Mühlenberg, 14476 Potsdam-Golm, Germany