

Program
sesiune de comunicari interne 6-8 iunie 2018

6 Iunie

8:50 deschidere

9:00-11:00 Sesiunea 1 (6 prezentari)

Materials for optoelectronic applications

Silviu Polosan

Perovskite Solar Cells – Latest developments

Lucia Leonat

Organic heterostructures on nano-patterned electrode: preparation and characterization

Carmen Breazu

Investigation of sol-gel derived luminescent nanostructured phosphors doped with rare earths

Mihai Secu

Dense Ge nanocrystals embedded in TiO₂ with exponentially increased photoconduction by field effect

Ana-Maria Lepadatu

Efficient manganese and cobalt based materials for catalytic selective oxidation reactions,

Florentina Neațu

11:00-11:20 pauza

11:20-13:20 Sesiunea 2 (6 prezentari)

Multiple polarization states in ferroelectric capacitors for multi-bit non-volatile memories

Lucian Dragos Filip

The prediction of material behaviors starting from quantum mechanical based simulations

Ancuta Birsan

Electronic properties of molecular systems,

Bogdana Borca

Transport properties of quantum-dot cavity systems

Valeriu Moldoveanu

Exciton-Phonon Interaction as a Nonlinear Optical Process revealed in CdS and in a Mixture of Semiconductors (CdS:Si)

Andreea Nila

Material parameters from frequency dispersion simulation of floating gate memory with Ge nanocrystals in HfO₂

Catalin Palade

13:20-14:30 pauza de masa

14:30-16:30 Sesiunea 3 (6 prezentari)

Are the ferroelectric films grown by PLD truly epitaxial?

Iuliana Pasuk

Processing and characterization of high temperature composite materials

Andrei Galatanu

Boron based materials for various applications.

Petre Badica

Nanocrystals of GeSn in oxide obtained by magnetron sputtering deposition

Ionel Stavarache

A comparative study of the production and nature of paramagnetic point defects in as-grown and oxygen doped, float-zone silicon irradiated with 3.5 MeV and 27 MeV electrons and isochronally annealed

Alexandra Joita

Epitaxy of silver on Si(111) investigated by low energy electron diffraction, X-ray photoelectron spectroscopy and scanning tunneling microscopy,
Amelia E. Bocîrnea

7 iunie

9:00-11:00 Sesiunea 1 (6 prezentari)

Biomimetic Microstructured Actuators

Alexandru Evalghelidis

Multi-functionality in metallic alloys. Case of ferromagnetic shape memory alloys.

Mihaela Sofronie

Photocatalytic activity of semiconductor nanostructures based on ZnO

Irina Zgura

Modeling and experimental investigation of phase change in stacked chalcogenide films

Alin Velea

Evaluation and control of dopant distribution in nanostructured semiconductors

Mariana Stefan

Interaction and size effects in open nano-electromechanical systems

Radu Dragomir

11:00-11:20 pauza

11:20-13:20 Sesiunea 2 (6 prezentari)

Doping in BaTiO₃ bulk ceramics

L. Amarande

Hund and anti-Hund rules in circular molecules

Mugurel Tolea

Local configurations in binary inter-metallic systems under extreme conditions

Simona Greculeasa

Towards innovations and opportunities with chemical sensors involved in the pre-clinical diagnosis

Cristian Simion

Enhancing the pyroelectric effect in thin film structures

Liliana Balescu

Thin Film Transistor Technology

Cristina Besleaga Stan

13:20-14:30 pauza de masa

14:30-16:30 Sesiunea 3 (6 prezentari)

Diluted magnetic systems. Main concerns and achievements in NIMP.

Victor Kuncser

New configurations of microwave antennas using advanced materials

Gabriel Banciu

TEM study of epitaxial W₂C layer formation on the 4H-SiC wafer surface

Valentin Teodorescu

Vortex dynamics in superconducting single-crystals presenting second magnetization peak.

Alina Ionescu

Electronic properties of correlated manganites explored in angle-resolved photoelectron spectroscopy,

Marius A. Huşanu

High Resolution X-ray Diffraction in Structural Analysis – Advanced Methods

Mihai Vlaicu

8 iunie

9:00-10:40 Sesiunea 1 (5 prezentari)

I. Enculescu-Grupul de Nanostructuri Functionale

Sensors and actuators: from functional nanostructures to novel architecture devices

V. Kuncser-Grup Magnetism

New functionalities of nanostructured materials via local structure and magnetic interactions.

S. Lazanu-Grup SiGe

Single and multilayers based on SiGeSn nanocrystals, bidimensional MoS₂ and HfO₂ for micro- and optoelectronic applications

C. Ghica-Laborator 50 (Grup Structura Atomica si Defecte in Materiale Avansate)

Microstructural defects for tailoring the macroscopic properties of advanced materials

V. Moldoveanu-Grup Teorie

On hybrid nanosystems and topological materials

10:40-11:00 pauza

11:00-12:20 Sesiunea 2 (4 prezentari)

P. Badica-Grup Supraconductori

L. Pintilie-Grup Heterostructuri si Oxizi cu Structura Perovskit

Novel heterostructures for high-tech applications (solar cells, IT, sensors, biological interfaces)

M. Baibarac-Laborator 40 (Grup Procese Optice in Materiale Nanostructurate)

Optical processes in new nanostructured materials and prospects for future applications in the field of eco-nanotechnologies, health, heritage and energy

C. M. Teodorescu (Grup Suprafete si Interfete)

Surfaces and interfaces involving charge transfer, ferromagnetic, ferroelectric and catalytic materials

12:20-13:00 inchidere+cuvantari invitati

13:00-16:30 Sesiunea 3 (in curtea interioara, la o bere)