

## INSTITUTE OF PHYSICAL CHEMISTRY "I.G.MURGULESCU" OF THE ROMANIAN ACADEMY

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[www.rol.ro/sol-gel/](http://www.rol.ro/sol-gel/)

The main directions of the studies in the field of nanomaterials are focussed on:

- Preparation of oxide and hybrid inorganic-organic nanomaterials for several applications and obtaining of carbon nanotubes by using of specific methods as: sol gel method (i), hydrothermal method (ii), methods based on oxides melts (iii) and methods using molten salts (iv)
- Development and optimization of specific (spectroscopic, electrical, thermodynamic and thermochemical) methods of characterization with application in the nano-material field
- Modeling of phenomena and properties specific for nanomaterials.

## "PETRU PONI" INSTITUTE OF MACROMOLECULAR CHEMISTRY, IASI (INSTITUTE OF EXCELLENCE OF THE ROMANIAN ACADEMY) POLYMER PHYSICS AND STRUCTURE DEPARTMENT

**Director:** Prof. Dr. Bogdan C. Simionescu, Corresponding member of the Romanian Academy ([bcsimion@icmpp.tuiasi.ro](mailto:bcsimion@icmpp.tuiasi.ro))

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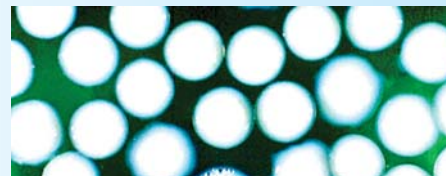
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Fields of interest in nanotechnologies:

● CVD procedure to obtain transparent layers of photo-conducting azopolymers with controlled thickness of 50,500 nm and integration of this procedure in technologies used in microelectronics.

● Exploration of opto-electrical properties of the films in normal and doped states for application in opto-electrical traducers, xerography, electroluminescent and other molecular electronic devices.



*Microspheres prepared by ionic crosslinking of SAV3 sodium salt (details in MNT-Bulletin V3, no.4)*

## NATIONAL INSTITUTE FOR CHEMICAL-PHARMACEUTICAL RESEARCH AND DEVELOPMENT, PHARMACOLOGY DEPARTMENT, CENTER FOR CELLULAR AND MOLECULAR PHARMACOLOGY

**General manager:** Dr. Ing. Misu Moscovici ([iccf@ncpri.ro](mailto:iccf@ncpri.ro))

**Head of Pharmacology Department:** Dr. Gh. Seitan,

**Head of the Center for Cellular and Molecular Pharmacology:** drd. Mihaela Albulescu

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*SEM on  $Ni_{80}Fe_{20}$  nanowire array after dissolution of the membrane (details in MNT-Bulletin V3, no.4)*

The Center developed cell culture techniques for:

- cito- and genotoxicity studies used in drug research, in biomaterials and medical devices testing.
- biomedical applications: tissue engineering, studies of signal transduction and biological responses at cellular and molecular level, interactions of cells with nanomaterials and nanostructured materials.

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## NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR TECHNICAL PHYSICS IASI

**General Director:** Prof. Dr. Horia Chiriac ([hchiriac@phys-iasi.ro](mailto:hchiriac@phys-iasi.ro))

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The specific research agenda includes: theoretical and experimental studies on the nanostructured magnetic materials' formation and their specific physical properties; investigation of magnetization processes and specific magnetic interactions within novel magnetic materials; design and fabrication of new devices (micro-sensors, actuators, transducers) based on new magnetic phenomena and novel magnetic materials.

## INSTITUTE OF BIOLOGY OF THE ROMANIAN ACADEMY, CENTER OF MICROBIOLOGY

**Dr. Lucia Dumitru, Head of the Center** ([lucia.dumitru@ibiol.ro](mailto:lucia.dumitru@ibiol.ro))

**Dr. Ioan Ardelean** ([ioan.ardelean@ibiol.ro](mailto:ioan.ardelean@ibiol.ro))

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Expertise in the nanotechnologies:

- Biochips obtained with immobilized cyanobacteria on micro- and nano-electrodes, for environment monitoring (together with IMT and Univ. Politehnica).
- Biomolecules (isolation and purification): proteins with enzymatic or antimicrobial activity; S-layers; ether lipids with potential applications (the construction of biosensors, new types of liposomes, etc.).

## "AL.I.CUZA" UNIVERSITY OF IASI, DEPARTMENT OF SOLID STATE PHYSICS, FACULTY OF PHYSICS, LABORATORY FOR PHYSICS OF THIN FILMS

**Rector:** Prof. Dr. Dumitru Oprea,

**Dean:** Prof. Dr. Mitachi Strat Dept.

**Head:** Prof. Dr. Mihaela Rusu (Accredited B-type Center of Excellence for Research in Condensed Matter Physics)

**Laboratory Head:** Prof. Dr. Nicolae Sulitanu

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Research domains:

- Inorganic and organic semiconducting thin films-fundamentals and applications (heterojunctions, solar cells, biosensors, gas sensors, transparent electrical heaters, laser-damage and heat protective coatings, transparent electrodes, antistatic surfaces.
- Nanostructured magnetic materials-advanced applications: high density magnetic storage, thin films magnetic sensors, magnetostrictive microactuators, bidirectional pulse transformer cores, magnetic modulators, DC converters, magnetic shields.