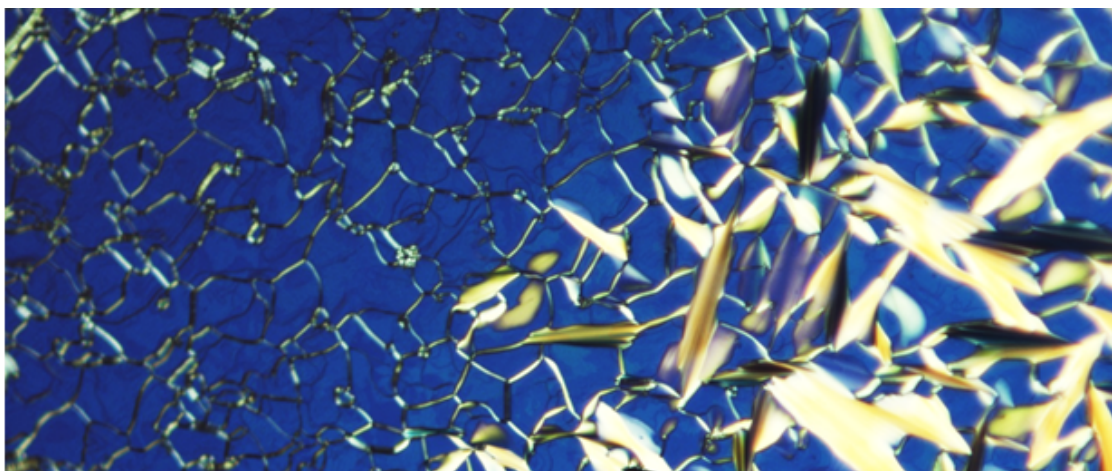


**UNIVERSITY POLITEHNICA
OF BUCHAREST
Physics Department**

**ACADEMY OF ROMANIAN
SCIENTISTS
Section of Science and Technology
of Information**

**THE 6th INTERNATIONAL COLLOQUIUM
“PHYSICS OF MATERIALS” (PM 6)**

PROGRAM



**NOVEMBER 15-16, 2018
BUCHAREST, ROMANIA**

Cover image: Liquid crystal

By the courtesy of V. Cîrcu, University of Bucharest

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**THE 6th INTERNATIONAL COLLOQUIUM
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**15-16 NOVEMBER, 2018
BUCHAREST, ROMANIA**

PROGRAM

November 15, 2018

08:15-08:45	Registration
08:45-09:00	Opening Ceremony
09:00-11:00	Invited Lectures
11:00-11:30	Coffee Break
11:30-12:45	Oral Sessions
12:45-13:00	Group Photo
13:00-14:30	Lunch Break
14:30-16:00	Oral Sessions
16:00-16:30	Coffee Break
16:30-18:00	Poster Session

November 16, 2018

Visiting Bucharest

We hereby invite you to participate at the 6th edition of the International Colloquium “Physics of Materials” (PM-6), organized by the University “Politehnica” of Bucharest, and the Academy of Romanian Scientists, between November 15-16, 2018. The conference will take place in the Conference Hall of the Library of the University POLITEHNICA of Bucharest, adjacent to the main building of the University. The accepted and presented contributions will be selected by the Scientific Committee for publication in either the ISI-quoted revue Scientific Bulletin of UPB series A, B, and C or the Annals of the Academy of the Romanian Scientists, Series of Science and Technology of Information.

Please accept our thanks for your important cooperation.

We are looking forward to meeting you on this occasion.

The Conference Committees

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INTERNATIONAL ORGANIZING SCIENTIFIC COMMITTEE

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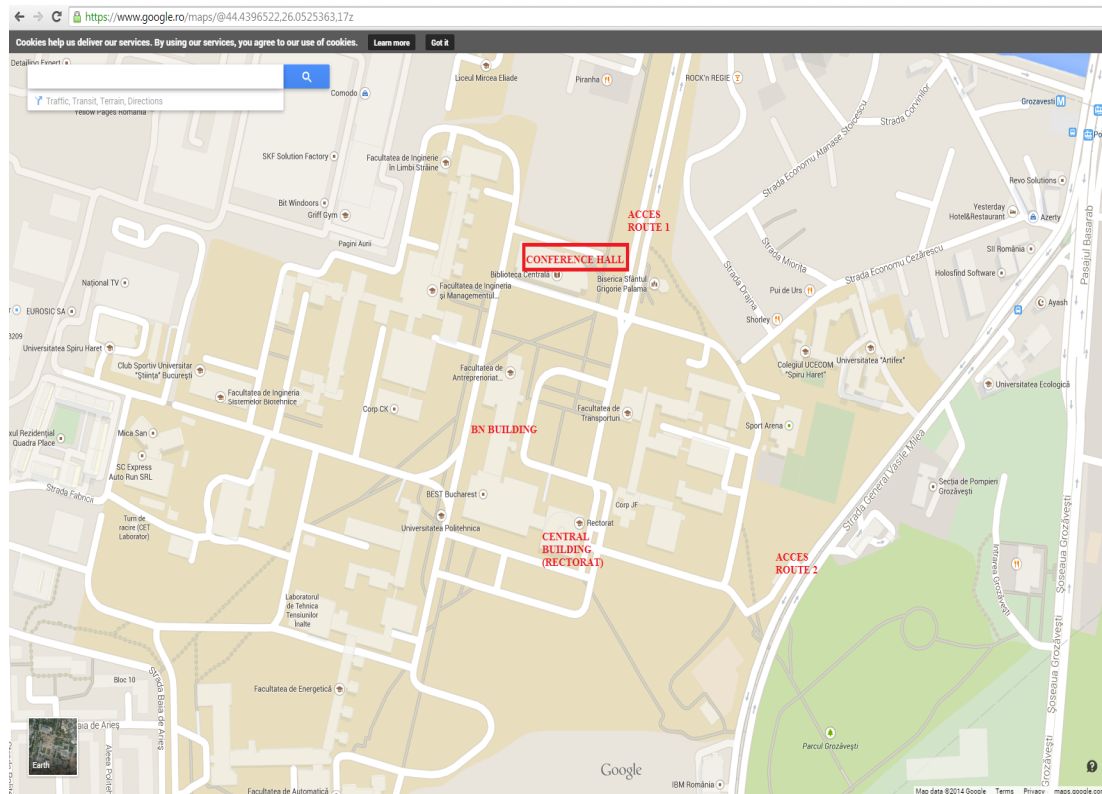
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**The sixth edition of the International Colloquium
"Physics of Materials" (PM-6) is dedicated to
The Centenary of the Great Union on December 1, 1918,
when the historical regions inhabited by
Romanians, Transylvania, Bessarabia and Bukovina
reunified with Romania.**

PROGRAM

November 15, 2018

8:15 – 08:45 Registration

8:45 - 09:00 OPENING

**09:00 - 11:00 PLENARY SESSION 1
INVITED LECTURES**

Chairs: **Doina Mănăilă-Maximean** (Physics Department, Faculty of Applied Sciences, University POLITEHNICA of Bucharest)
Paul Sterian (Academy of Romanian Scientists, Physics Department, Faculty of Applied Sciences, University POLITEHNICA of Bucharest)
Pedro Lucio Almeida (Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa)

09:00 – 9:30 I.1. Cellulose liquid crystals and cellulose-based electro- optical applications
P. L. Almeida^{1,2*}, S. N. Fernandes², and M. H. Godinho²
¹ *Physics Department, Lisbon Superior Institute of Engineering, Lisbon Polytechnic Institute, Lisbon, Portugal*
² *IBN/CENIMAT, Department of Materials Science, Faculty of Science and Technology, NOVA University of Lisbon, Portugal*
^{*} *E-mail: palmeida@adf.isel.pt*

9:30 – 10:00 I.2. Enhanced broad band photoconductivity in Ge nanocrystals embedded in oxide films
M. L. Ciurea^{1,2}, T. Stoica¹, I. Stavarache¹, C. Palade¹, A. Slav¹, V. S. Teodorescu¹, C. Logofatu¹, A. M. Lepadatu¹, S. Lazanu¹, I. M. Dascalescu¹, O. Cojocaru¹, H. Svavarsson³, M. T. Sultan³, A. Manolescu³
¹ *National Institute of Materials Physics, Magurele, Romania*
² *Academy of Romanian Scientists, Bucharest, Romania*
³ *School of Science and Engineering, Reykjavik University, Iceland*

10:00 – 10:30 **I.3. Dielectric spectroscopy in ferroelectric transition of TGS crystals**

H. V. Alexandru^{1*}, M. Pavelescu², C. P. Ganea³, M. Dan⁴

¹*University of Bucharest, Academy of Romanian Scientists, Romania.*

²*Academy of Romanian Scientists, Romania*

³*National Institute of Materials Physics, Măgurele, Romania*

⁴*University of Bucharest, Romania*

*E-mail: hvalexandru@gmail.com

10:30 - 11:00 **I.4. New results in performance optimization and defect analysis of silicon-based tandem heterojunction solar cells incorporating metal oxides**

L. Fara^{1*}, Ø. Nordseth², I. Chilibon³, R. Kumar⁴, D. Crăciunescu¹, F. Drăgan¹ and C. Dumitru¹

¹*University “Politehnica” of Bucharest, Romania*

²*Institute for Energy Technology, Norway*

³*INOE-2000, Romania*

⁴*University of Oslo, Norway*

*E-mail: lfara@reneg.pub.ro

11:00 - 11:30 Coffee Break

11:30 - 13:00 PLENARY SESSION 2 – INVITED COMMUNICATIONS

Chairs: **Horia V. Alexandru** (University of Bucharest, Academy of Romanian Scientists, Romania)
Adrian Volceanov (Faculty of Applied Chemistry and Material Science, University “Politehnica” of Bucharest, Romania)

11:30 - 11:50 **I.5. Eco-friendly composite materials for blast mitigation**

E. Volceanov^{1,2*}, S. Sandu³, A. Volceanov⁴

¹*Metallurgical Research Institute –ICEM SA of Bucharest, Romania*

²*Center for Surface Science and NanoTechnology, University “Politehnica” of Bucharest, Romania*

³*Scientific Research Centre for CBRN Defence and Ecology, Bucharest, Romania*

⁴*Faculty of Applied Chemistry and Material Science, University “Politehnica” of Bucharest, Romania*

- 11:50 - 12:10 **I.6. Dynamics of Gold Nanoparticles: A Magic Line between Physics and Chemistry**
N. Tosa^{1*}, A. Falamas¹, V. Tosa¹, L. Barbu-Tudoran^{1,2}, S. Porav^{1,2} and I. Bratu¹
¹ National Institute for R&D of Isotopic and Molecular Technologies, Cluj-Napoca, Romania
² Electron Microscopy Center, Babes-Bolyai University, Cluj-Napoca, Romania
*E-mail: nicoleta.tosa@itim-cj.ro
- 12:10 - 12:30 **I.7. Colloidal Magnetic Nanoparticles Synthesized by Various Protocols for the Study of Their Impact on the Environment**
D. Creanga^{1*}, E. Puscasu¹, L. Popescu¹, C. Mihai², G. Vochita² and M. Balasoiu^{2,3}
¹ Physics Faculty, Alexandru Ioan Cuza University, Iasi, Romania
² Institute of Biological Research, Iasi, Romania
³ Nuclear Physics Department, Horia Hulubei Institute of Physics and Nuclear Engineering, Bucharest, Romania
⁴ Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna, Russia
*E-mail: mdor@uaic.ro; dorina.emilia.creanga@gmail.com
- 12:30 - 12:45 **I.8. Liquid crystals with emissive properties derived from Cu(I), Pd(II) and Pt(II) complexes with benzoylthiourea ligands**
Monica Ilis¹, Marin Micutz² and Viorel Cîrcu^{1,*}
¹ Department of Inorganic Chemistry University of Bucharest, Romania
² Department of Physical Chemistry, University of Bucharest, Romania
*E-mail: viorel_carcu@yahoo.com
- 12:45 - 13:00 **GROUP PHOTO**
- 13:10 - 14:30 **LUNCH BREAK**

SESSION 3
INVITED AND ORAL COMMUNICATIONS

14:30 - 16:00

Section 1 – Room 3.1

- Chairs** **Radu C. Fierascu** (National Institute for Research and Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania)
 Viorel Cîrcu (University of Bucharest, Inorganic Chemistry Department, Bucharest, Romania)
- 14:30 - 14:45 **I.9. Density of adsorbed surface species for cyanophenyls confined to support nano/micropores**
 L. Frunza^{1,*}, C. P. Ganea¹, I. Zgura¹, and A. Schönhals²
 ¹ *National Institute of Materials Physics, Magurele, Romania*
 ² *Bundesanstalt für Materialforschung und prüfung (BAM), Berlin, Germany*
 *E-mail: lfrunza@infim.ro
- 14:45 - 15:00 **O.1.1. Hydrogels obtained via gamma irradiation**
 M. Micutz¹, R. M. Lungu², V. Cîrcu³, M. Iliş³, and T. Staicu^{1*}
 ¹ *Department of Physical Chemistry, University of Bucharest, Bucharest, Romania*
 ² *Scientific Research Center for CBRN Defense and Ecology, Bucharest, Romania*
 ³ *Department of Inorganic Chemistry, University of Bucharest, Bucharest, Romania, *E-mail: teos@gw-chimie.math.unibuc.ro*
- 15:00 - 15:15 **O.1.2. Magnetic induced optical nonlinearities in hybrid nematic liquid crystal cells**
 C. Cîrtoaje¹, E. Petrescu¹
 ¹ *Physics Department, Faculty of Applied Sciences, University "Politehnica" of Bucharest, Romania*
- 15:15 - 15:30 **O.1.3. Liquid crystalline materials with lanthanide ions based on 4-pyridone derivatives**
 F. L. Chiriac¹, T. Staicu², M. Micutz², M. Iliş¹, V. Cîrcu^{1*}
 ¹ *Department of Inorganic Chemistry University of Bucharest, Romania*
 ² *Department of Physical Chemistry, University of Bucharest, Romania, *E-mail: viorel_carcu@yahoo.com*

15:30 - 15:45

O.1.4 Nanoparticle delivery of antibiotics for enhanced performance of medical implants

I. Negut¹, R. Cristescu^{1*}, C. Popescu¹, G. Dorcioman¹, A. Popescu¹, D. Mihaiescu², M. Popa³, C. Chifiriuc³, R.J. Narayan⁴, D.B. Chrisey⁵

¹ National Institute for Lasers, Plasma & Radiation Physics, Lasers Department, P.O.Box MG-36, Bucharest-Magurele, Romania;

² Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, 1-7 Polizu Street, Bucharest, 011061 Romania

³ Microbiology Immunology Department, Faculty of Biology, Research Institute of the University of Bucharest - ICUB, Bucharest, 77206, Romania

⁴ Department of Biomedical Engineering, University of North Carolina, Chapel Hill, NC, USA

⁵ Department of Physics and Engineering Physics, Tulane University, New Orleans, LA, USA

15:45 - 16:00

O.1.5. Collagen and collagen-based materials used in biomedical applications

T. Staicu,¹ G. Ioniță,² O. Cintează,¹ D. Bala,¹ C. Petcu,³ R. Somoghi,³ C. Kamerzan,⁴ V. Cîrcu,⁵ and M. Micutz^{1,2*}

¹ Department of Physical Chemistry, University of Bucharest, 4-12 Elisabeta Blvd., Sect. 3, Bucharest 030018, Romania

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² Institute of Physical Chemistry "Ilie Murgulescu", Romanian Academy, 202 Splaiul Independentei, Sect. 6, Bucharest 060021, Romania

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³ National R-D Institute for Chemistry and Petrochemistry ICECHIM-Bucharest, 202 Splaiul Independentei, Sect. 6, Bucharest 060021, Romania

E-mail: cpetcu@icf.ro; ralucasomoghi@yahoo.com

⁴ SC Sanimed Int. Impex SRL, 70F Sos. Bucuresti-Magurele, Sect. 5, Bucharest 051434, Romania

E-mail: crina.kamerzan@sanimed.ro

⁵ Department of Inorganic Chemistry, University of Bucharest, 23 Dumbrova Rosie St., Sect. 2, Bucharest 020464, Romania

Email: viorel.circu@chimie.unibuc.ro

14:30 – 16:00

Section 2 – Room 3.2

Chairs **Paul Şchiopu** (Department of Electronic Technology and Reliability, Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest)

14:30-14:45 **I.10. Spectroscopic signature of depletion state in buried hole-doped manganite**

D. G. Popescu^{1*}, M. A. Huşanu¹

¹ *National Institute of Materials Physics, Măgurele, Romania*

14:45-15:00 **O.2.1. Solar Cell Types and Technologies with Applications in Energy Harvesting**

A. Drăgulescu^{1*}, A. M. C. Drăgulescu²

¹ *Electronic Technology and Reliability Department, University “Politehnica” of Bucharest, Romania*

² *Telecommunications Department, ‘Politehnica’ Univ. of Bucharest, Bucharest, Romania*

**E-mail: dragulinescu@yahoo.com;*

amc.dragulinescu@gmail.com

15:00-15:15 **O.2.2. Simulation of charge carrier transport mechanisms and performance parameters for quantum dot-sensitized solar cell structures**

A. Bărar^{1*}, D. Mănăilă-Maximean², M. Vlădescu¹, and P. Şchiopu¹

¹ *Department of Electronic Technology and Reliability, Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest, Romania*

doina.manaila@physics.pub.ro

² *Physics Department, Faculty of Applied Sciences, University “Politehnica” of Bucharest, Romania*

**E-mail: ana.d.barar@gmail.com;*

15:15 - 15:30 **O.2.3. Ion trap based mass spectrometers for aerosol investigation**

B. Mihalcea^{1*}, O. Stoican¹, A. Surmeian¹, L. Bizoi², C. Stan³, C. Marin⁴, L. Mărmureanu⁴, A. Groza¹, M. Ganciu¹

¹ *National Institute for Laser, Plasma and Radiation Phys. (INFLPR), Măgurele, Romania*

² *Institut Polytechnique de Bordeaux, France*

³ *Faculty of Applied Sciences, University “Politehnica” of Bucharest, Romania*

⁴ *National Institute for Optoelectronics (INOE2000), Remote Sensing Department, Măgurele, Romania*

*E-mail: bogdan.mihalcea@inflpr.ro

15:30 - 15:45 **O.2.4. Gas concentration variations and source assessment during winter in Magurele, Romania**

C. Marin^{1,2*}, A. Dandocsi^{1,2}, C. Radu¹, L. Mărmureanu¹ and C. Stan²

¹ *National Institute of R&D for Optoelectronics INOE2000, Măgurele, Romania*

² *University Politehnica of Bucharest, Romania*

*E-mail: cristina.marin@inoe.ro

15:45 -16:00 **O.2.5. Nanowire used in nanotype generators for energy harvesting**

Aurelian Costea^{1*}, Paul Șchiopu^{1,2}, Marian Vlădescu^{1,2}

¹ *Faculty of Electronics, Telecommunications and Information Technology, University “Politehnica” of Bucharest, Romania*

² *Optoelectronics Research Center, University “Politehnica” of Bucharest, Romania*

*Email: aureliancostea@yahoo.com

16:00-16:30 **Coffee Break**

16:30 -18:30 SESSION 4 - Poster Communications

Chairs: **Emil Smeu** (Physics Department, Faculty of Applied Sciences, University POLITEHNICA of Bucharest)
Octavian Dănilă (Physics Department, Faculty of Applied Sciences, University POLITEHNICA of Bucharest)
Gabriela Tiriba (Physics Department, Faculty of Applied Sciences, University POLITEHNICA of Bucharest)

1. Synthesis and characterization of functional materials

P.1.1. Anion recognition and sensing in organic media of novel acylthiourea compounds

D. G. Mitrea¹, M. Micutz², T. Staicu², V. Cîrcu^{1*}

¹ *Department of Inorganic Chemistry, University of Bucharest, Romania.*

² *Department of Physical Chemistry, University of Bucharest, Romania*

**E-mail: viorel.circu@chimie.unibuc.ro*

P.1.2. Columnar liquid crystals from luminescent Cu(I) complexes

M. Ilis¹, T. Staicu², M. Micutz², V. Cîrcu^{1,*}

¹ *Department of Inorganic Chemistry University of Bucharest, Romania*

² *Department of Physical Chemistry, University of Bucharest, Romania*

**E-mail:viorel.circu@chimie.unibuc.ro*

P.1.3. Mechanochromic properties of Pt(II) complexes with benzoylthiourea derivatives

A.-M. Codreanu¹, V. Cîrcu^{1,*}

¹ *Department of Inorganic Chemistry University of Bucharest, Romania*

**E-mail:viorel.circu@chimie.unibuc.ro*

- P.1.4. Pure and doped-ionic liquid crystals based on bis(imidazolium) salts with alkylsulfates counterions**
T. A. Ilincă¹, T. Staicu², D. Mănăilă-Maximean³, P. C. Ganea⁴, V. Cîrcu^{1*}
¹ *University of Bucharest, Inorganic Chemistry Department, Bucharest, Romania*
² *University of Bucharest, Department of Physical Chemistry, Bucharest, Romania*
³ *University "Politehnica" of Bucharest, Physics Department, Bucharest, Romania*
⁴ *National Institute of Materials Physics, Măgurele, Romania*
 *E-mail: viorel.circu@chimie.unibuc.ro
- P.1.5 Peculiarities on atelocollagen type I fibril formation in environment mimicking physiological conditions**
 T. Staicu,¹ G. Ioniță,² O. Cintează,¹ B. Trică,³ M. Iliș,⁴ V. Cîrcu⁴, M. Micutz^{1,2*}
¹ *Department of Physical Chemistry, University of Bucharest, Romania*
² *Institute of Physical Chemistry "Ilie Murgulescu", Romanian Academy, Bucharest, Romania*
³ *National R-D Institute for Chemistry and Petrochemistry ICECHIM-Bucharest, Romania*
⁴ *Department of Inorganic Chemistry, University of Bucharest, Romania;* *E-mail: micutz@gw-chimie.math.unibuc.ro
- P.1.6. Transparent thin films based on TiO₂ sensitized with phtalocyanine**
R. Manea¹, V. Purcar^{1*}, V. Rădițoiu¹, A. Rădițoiu¹, M. Raduly¹, C. A. Nicolae¹, M. Anastasescu², G. Ispas¹, L. Wagner¹
¹ *National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania*
² *Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania*
 *E-mail: purcarvioleta@gmail.com
- P.1.7. Hybrid materials based on diketone derivatives and palygorskite with luminescent properties**
G. Ispas, M. Raduly*, A. Raditoiu, V. Raditoiu, V. Purcar, L. Wagner, R. Manea, C. A. Nicolae
Research and Development National Institute for Chemistry and Petrochemistry – ICECHIM, 202 Splaiul Independenței, 060021, Bucharest, Romania; *E-mail: radulymonica@yahoo.com

P.1.8. Design, characterization and dielectric studies of high coordination number lanthanide(III) complexes with cyano-biphenyl mesogens

Florentina L. Chiriac¹, Doina Manaila-Maximean², Paul C. Ganea³, Viorel Cîrcu^{1*}

¹ *Department of Inorganic Chemistry University of Bucharest, Romania*

² *Physics Department II, University “Politehnica Bucuresti”, Bucharest, Romania*

³ *National Institute of Materials Physics, Magurele, Romania*

2. Nanomaterials, metamaterials and nanoelectronics

P.2.1. The use of nanotechnology for safeguarding cultural heritage: application on paper artifacts

R.C. Fierascu¹, I. Fierascu^{1*}, A. Stirban², P. Fotea^{1,3}, I.E. Chican¹, and D.S. Varasteanu¹

¹ *Emerging Nanotechnologies Group, National Institute for Research and Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania*

² *National Museum of the Union Alba Iulia, Alba, Romania*

³ *Romanian Peasant Museum, Bucharest, Romania*

P.2.2. Magnetic Catalysts for Phenol Compound and Methylene Blue Dye Removal from Wastewaters

L.Popescu^{1*}, D. Creanga¹, L. Sacarescu², M. Grigoraş³, N. Lupu³

¹*Faculty of Physics, Alexandru Ioan Cuza University, Iasi, Romania*

²*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

³*National Institute of Research and Development for Technical Physic, Iasi, Romania*

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P.2.3. On the Concentration Effects in Cobalt Ferrite/ Lauric Acid/ Sodium Dodecyl sulphate/Water Ferrofluids by Means of Small-Angle Neutron Scattering Methods

M. Balasoiu^{1,2*}, A-M Balasoiu-Gaina^{1,3,4}, C. Stan⁵, S. Astafeva⁶, S. Lysenko⁶, D. Buzatu⁵, N. Lupu⁷, D. Creanga⁸

¹*Joint Institute for Nuclear Research, Dubna, Russia*

²*“Horia Hulubei” National Institute of Physics and Engineering, Bucharest, Romania*

³*CMCF, Moscow State University, Moscow, Russian Federation*

⁴*West University of Timisoara, Timisoara, Romania*

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⁷*National Institute of Research and Development for Technical Physics, Iasi, Romania*

⁸*Alexandru Ioan Cuza University, Iasi, Romania*

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P.2.4. Study on Graphene-Reinforced Polymeric Nanocomposites

L. Punga¹, A. Popa², D. Toloman², A. Bele³, M. Sucnea¹, M. Cazacu³, D. Timpu³, T. Tropin⁴, L. Popescu¹, F. Iacomi¹

¹*Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania,*

²*National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania*

³*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

⁴*Joint Institute for Nuclear Research Frank Laboratory of Neutron Physics, Russian Federation; *E-mail: iacomi@uaic.ro*

P.2.5. Study on Ageing of Magnetic Nanoparticle Suspensions

D. Buzatu¹, M. Balasoiu^{2,3,4}, C. Stan^{1*}, L. Sacarescu⁵, B.S. Vasile⁶, L. Popescu⁷, D. Creanga⁷, O. Ivankov^{2,8,9}, D. Soloviov^{2,8,9}, S. Astafieva⁸, S. Lysenko⁸, A.-M. Balasoiu-Gaina^{2,10,11}

¹*Physics Department, University "Politehnica" of Bucharest, Romania*

²*Joint Institute for Nuclear Research, Dubna, Russia*

³*"Horia Hulubei" Institute of Physics and Nuclear Engineering, Bucharest, Romania*

⁴*Moscow Technical Physics Institute, Dolgoprudnyi, Russia,*

⁵*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

⁶*Faculty of Applied Chemistry and Materials Science, University "POLITEHNICA" of Bucharest, Romania*

⁷*Faculty of Physics, Alexandru Ioan Cuza University, Iasi, Romania*

⁸*Institute of Technical Chemistry, Ural Branch of RAS, Perm, Russian Federation*

⁹*Institute for Safety Problems of Nuclear Power Plants of the Ukrainian NAS, Kyiv, Ukraine*

¹⁰*CMCF, Moscow State University, Moscow, Russian Federation*

¹¹*West University of Timisoara, Timisoara, Romania*

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P.2.6. Variation of crystallinity and thermal characteristics of composite materials with polymer matrix isotactic Polypropylene (iPP) and Iron and Aluminum powders

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- P.2.7. Effects of the magnetic field on the electromagnetically induced transparency in a disk-like quantum dot**
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- P.2.8. Nanogenerator that relies on piezo properties within PVDF**
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- P.2.9. Metasurface design and optimization for indoor gas sensing**
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3. Materials for Sustainable Energy

- P.3.1. Specialized switching-mode power supplies (SMPS) for photovoltaic and conventional LED lighting systems**
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- P.3.2. Numerical optical modeling of ZnO/Cu₂O tandem solar cell**
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4. Electronic, photonic and optoelectronic materials

P.4.1. **Mixing of High Frequency Oscillations Induced by a Selective External Reflector in Diode Laser Emission Dynamics**

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P.4.2. **Trends in PDLC devices: carbon nanotubes doping**

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P.4.3. **Polymer and Polymer:Fullerene blend thin films—optical characterization by spectroscopic ellipsometry**

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P.4.4. Study of holograms materials properties behavior in security applications

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P.4.5. Temperature influence on Freedericksz transition in NLC-GQD mixtures

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5. Materials science

P.5.1. Improvement of Cu magnetron sputtering deposition process for textile fabrics application

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P.5.2. Corrosion protection of mild steel using natural vegetable extract in different aqueous solutions

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- P.5.3. Structural, optical and thermal properties of flexible Polyvinylchloride compounds**
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- P.5.4. Atmospheric pressure plasma treatment of moulds used in polymer composites injection process**
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- P.5.5. Geopolymerisation – a sustainable alternative for some silicate industrial waste valorization?**
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- P.5.6. Metallurgical ladle furnace (LF) slags effects on acid soil properties for a sustainable agriculture**
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- P.5.7. Treatment process with the dielectric barrier discharge linear plasma source for textile fabrics application**
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- P.5.8. The electrode surface enhanced by polymeric film with silver microparticles**
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- P.5.9. Modeling the antistatic properties of the textiles based on micro/nanoparticle coating**
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6. Biomaterials and organic materials for medical applications

- P.6.1. Degradation of polymer materials Biopropylene (BioPP) and Polyglycolide-co-caprolactone (PGCL) used in surgical sutures**
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- P.6.2. Composite hydrogels based on BC and oligo(ethylene glycol) acrylates for potential biomedical applications**
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- P.6.3. Nanostructured surfaces based on PLGA and magnetite for the prevention of post implantation tumoral regression**
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- P.6.4. Physico-chemical characterization of surface modified cellulose**
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- P.6.5. Physico-chemical parameters of tetraethyl orthosilicate**
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- P.6.6. Physical hydrogels based on Pluronic F-127 and poly(vinyl alcohol)**
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- P.6.7. Composite materials based on oxide semiconductors and metallic nanoparticles with applications in health**
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- P.6.8. Study of the Influence of Diurnal Glycemia Variations in the Human Retina Thickness in Diabetic Retinopathy, Through Comparison Between Para-foveolar and Peri-foveolar Zones**
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P.6.9. Microorganism response to magnetic nanoparticle pollution

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6. Methods for material characterization

P.7.1. Dynamic Preisach Model Used for Estimation of Silicon Iron Alloy Hysteresis Cycle

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P.7.2. Implementation of methodologies based on nuclear and other analytical techniques for the study of cultural heritage artifacts

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P.7.3. Spectrometric Methods for Identification of Inks used in XIXth Century Books and Manuscripts in Moldavia region

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P.7.4. Measuring the refractive indices of thin layers by using a Michelson interferometer

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P.7.5. Studying the RGB components of interference patterns produced by biaxial layers in conoscopic illumination

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P.7.6. Temperature and external electrostatic field influence on the lyotropic liquid crystal layers studied by FTIR tehniue

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P.7.7. Band bending at Au/BaTiO₃ and Cu/BaTiO₃ interfaces investigated by XPS

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Visiting Bucharest

Bucharest is the capitol of Romania, having a series of sights which we encourage tourists to visit. Below you will find our recommendations:

1. **The Arch of Triumph:** This major sight was built in 1922 to honour the Romanian soldiers who fought in World War I, and is probably the main reason why Bucharest was dubbed "The Little Paris". It stands 85 feet high and it features sculptures by Ion Jalea, Constantin Medrea and Constantin Baraschi.
2. **Revolution Square:** This square gained its notoriety because of its central role in the abolishment of the communist regime in December 1989, but it also holds several important buildings such as the former Royal Palace, the National Art Museum, the Athenaeum and the Kretzulescu church.
3. **Manuc's Inn:** This 19th century building played a central role in organizing the preliminary talks to end the Turkish-Russian war. The building is now a restaurant, serving traditional Romanian foods.
4. **University Square:** This square was the central point of the Romanian arts and educations. It holds the University of Bucharest, the National Theatre of Bucharest, the Coltea hospital and its church, and the Sutu Palace, which is now the National History Museum.
5. **Parliament Palace:** The palace serves as a testimony of the former communist regime, currently being the second largest administrative building in the world, after the Pentagon. The palace has 12 stories, 1.100 rooms, and a nuclear bunker.
6. **Village Museum:** Built in 1936, the largest outdoor museum in Europe currently holds exhibits of traditional Romanian and Balkan households. It also houses folk and traditional festivals, where traditional skills such as weaving, pottery and poetry are displayed.
7. **Mogosoia Palace:** While not technically in Bucharest, this palace is frequently situated on the capitol's sightseeing list. Built by Constantin Brancoveanu in the 17th century, the palace currently houses the Brancoveanu Museum, with exquisite paintings and sculptures.

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