FACULTY OF CHEMISTRY

# CONFERENCE PROGRAM

8th Edition

IasiCHEM 2026

## "CHEMISTRY IN MOTION: CONNECTING IDEAS, SHAPING THE FUTURE"

OCTOBER 29-30, 2026, IAȘI

# IasiCHEM 2026 CONFERENCE

## 8th Edition

# "Chemistry in motion: connecting ideas, shaping the future"

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## Presentation time (discussion included)

- **Invited Conference (IC)**: 40 or 30 minutes
- **Oral Communication (OC)**: 15 minutes

## Posters Program

- Posters printing in **A0 or A1 format is recommended**. The posters will be displayed on the poster panel, at the indicated number.
- The **Poster Contributions from Session I** (**PC-I**) will be placed on the poster panel **Thursday**, **October 30**, during the registration time from $13^{00}$ to $14^{00}$, and will be removed Thursday after $19^{30}$.
- The **Poster Contributions from Session II** (**PC-II**) will be placed on the poster panel **Friday, October 31**, during the registration time from $08^{00}$ to $09^{00}$ and will be removed Friday after $14^{30}$.
- The **poster author presence is required** within the scheduled time for Q&A session.

# Scientific Program

## Day 1

### Thursday, 29 October

$13^{00}$-$14^{00}$ **Registration of the participants**

$14^{00}$-$14^{15}$ **Welcome Addresses**

Professor PhD. Liviu-George MAHA
*The Rector of „Alexandru Ioan Cuza" University of Iasi*
Associate Professor PhD. Alin Constantin DÎRȚU
*The Dean of the Faculty of Chemistry, "Alexandru Ioan Cuza" University of Iasi*

## Scientific Session 1

### Aula Magna „Mihai Eminescu", $14^{25}$-$15^{45}$

**Session chairs: Assoc. Prof. PhD. Alin Constantin DÎRȚU**
**Prof. PhD. Ramona DĂNAC**

$14^{15}$-$14^{25}$ **Presentation of the 2026 Nobel Prize in Chemistry**

Awarded to Henri B. Kagan and Kenso Soai "for the discovery of non-linear effects and autocatalysis in asymmetric organic synthesis".

Costel MOLDOVEANU[1]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**IC-01** $14^{25}$-$15^{05}$ **Paramagnetic, Compartmental, and Chiral Ligands for Magnetic and Luminescent Complexes**

Marius ANDRUH[1,2]
*President of the Romanian Academy*
[1] *"C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry of the Romanian Academy*
[2] *University of Bucharest, Faculty of Chemistry, Bucharest, Romania*

**IC-02** $15^{05}$-$15^{45}$ **Organic–Inorganic Bridging Silicones: Milestones and Paradigm Shifts in Their Evolution**

Maria CAZACU[1]
*Corresponding Member of the Romanian Academy*
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

## Poster Session I (PC-I) and Coffee break

### The Hall of the Echoing Footsteps, $15^{45}$-$16^{30}$

**Session chairs: Prof. PhD. Costel MOLDOVEANU**
**Assoc. Prof. PhD. Vasile-Robert GRĂDINARU**
**Lecturer PhD. Dumitru-Claudiu SERGENTU**

# Scientific Session 2

## Aula Magna „Mihai Eminescu", $16^{30}$-$18^{25}$

**Session chairs: Prof. PhD. Ionel MANGALAGIU**
**Assoc. Prof. PhD. Ionel HUMELNICU**

**IC-03** $16^{30}$-$17^{10}$

### The DFT-Guided Multi-Spectroscopic Inverse Problem: Beyond AI and the Best-Fit Paradigm

Valentin Paul NICU[1]

[1] *"C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania*

**IC-04** $17^{10}$-$17^{40}$

### The Heartbeat of the Atmosphere: How an Analytical Chemist Captures the Rhythm of Scientific Motion in Unraveling Aerosol Dynamics

Cecilia ARSENE[1,2,3]

[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iasi, ICI-UAIC, RECENT AIR, Iasi, Romania*
[3] *"Alexandru Ioan Cuza" University of Iasi, ICI-UAIC, CERNESIM, Iasi, Romania*

**OC-01** $17^{40}$-$17^{55}$

### Human Breast Milk Peptidome: Mass Spectrometric Profiling of Tumor-Associated Molecular Signatures

Brîndușa Alina PETRE[1,2,3], Aneeta ARSHAD[3], Batuhan UZUNOGLU[4], Costel C. DARIE[3]

[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2] *Regional Institute of Oncology, TRANSCEND Center, Iasi, Romania*
[3] *Clarkson University, Department of Chemistry and Biomolecular Science, Potsdam, NY, USA*
[4] *Clarkson University, Department of Electrical and Computer Engineering, Potsdam, NY, USA*

**OC-02** $17^{55}$-$18^{10}$

### Same Building Blocks, Different Outcomes: How Reaction Conditions Shape Structural Organization and Biological Activity

Maria Cristina AL-MATARNEH[1], Anca Roxana PETROVICI[1], Mariana PINTEALĂ[1]

[1] *"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Center of Advanced Research in Bionanoconjugates and Biopolymers, Iasi, Romania*

**OC-03** $18^{10}$-$18^{25}$

### Bridging ab initio calculations and multispin Hamiltonians: Magnetism in binuclear complexes

Dumitru-Claudiu SERGENTU[1,2]

[1] *"Alexandru Ioan Cuza" University of Iași, Faculty of Chemistry, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iași, ICI RECENT-AIR, Iasi, Romania*

$18^{25}$-$19^{30}$ **Evening buffet, networking and ideas exchange**

# Day 2

## Friday, 30 October

$08^{00}$-$09^{00}$ **Registration of the participants**

## Scientific Session 3

### Aula Magna „Mihai Eminescu", $09^{00}$-$11^{40}$

**Session chairs: Assoc. Prof. PhD. Dalila BELEI**
**Assoc. Prof. PhD. Maria IGNAT**

**IC-05** $09^{00}$-$09^{30}$ **An insight into the chemistry of tetrylenes**

Gabriela-Nicoleta NEMEȘ[1], Raluca SEPTELEAN[1], Noemi DEAK[1], Andreea-Iulia SOCEA[1], Ionut-Tudor MORARU[1]
[1] *"Babeș-Bolyai" University, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania*

**IC-06** $09^{30}$-$10^{10}$ **New frontiers in Abiogenesis**

Nicolae HURDUC[1]
[1] *"Gheorghe Asachi" Technical University of Iași, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

**OC-04** $10^{10}$-$10^{25}$ **Development of double network cryogels based xanthan gum/lignin and their application to heavy metal ions removal**

Maria Marinela LAZAR[1], Doina HUMELNICU[2], Irina Elena RASCHIP[1], Raluca-Elena AVRAM[1], Maria Valentina DINU[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Department of Functional Polymers, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**OC-05** $10^{25}$-$10^{40}$ **Ultralight, porous, and floatable cellulose nanofibers–based aerogels as promising materials in photocatalysis**

Ioana-Sabina TRIFAN[1], Andreea-Laura CHIBAC-SCUTARU[1], Gabriela BILIUTA[1], Raluca-Ioana BARON[1], Violeta MELINTE[1], Sergiu COSERI[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Department of "Poliaddition and Photochemistry", Iasi, Romania*

**OC-06** $10^{40}$-$10^{55}$ **Chimeric pyrrolodiketo-pyrrolidine-phthalazine – triazole derivatives: synthesis, structure, stereochemistry, and anticancer activity**

Marius SAVU[1], Vasilichia ANTOCI[1], Oana Elena CARP[2], Sergiu SHOVA[2], Cristina Mariana URITU[3], Miruna Maria FURTUNA[3], Maria-Cristina AL-MATARNEH[2], Mitica CIORPAC[3], Violeta

MANGALAGIU[1,4], Dorina AMĂRIUCAI-MANTU[1], Ionel I. MANGALAGIU[1]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2] *"Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania*
[3] *Grigore T. Popa University of Medicine and Pharmacy, Advanced Research and Development Center for Experimental Medicine "Prof. Ostin C. Mungiu" (CEMEX), Iasi, Romania*
[4] *Stefan Cel Mare University of Suceava, Faculty of Food Engineering, Suceava, Romania*

**OC-07** $10^{55}$-$11^{10}$ **Gold-Based Hybrid Magnetic Nanoparticles: Synthesis, Optimization and Supramolecular Functionalization for SERS Detection**

Tecla DULGHERIU[1], Laura URSU[1], Alexandru ROTARU[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Centre of Advanced Research in Bionanoconjugates and Biopolymers, Iași, Romania*

**OC-08** $11^{10}$-$11^{25}$ **Catalytic hydrodeoxygenation of levulinic acid to γ-valerolactone over copper nanoparticles prepared on surfactant-containing mesoporous silica**

Veronica-Mădălina RADU[1], Doina BOESCU[1], Mihaela BECTORAȘ[1], Cezar CATRINESCU[1], Adrian UNGUREANU[1]
[1] *"Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

**OC-09** $11^{25}$-$11^{40}$ **Alginate Derivatives Obtained via the Ugi Reaction: Preparation, Characterization, and Antibacterial Properties**

Raluca-Elena AVRAM[1], Gabriela Liliana AILIESEI[1], Maria Marinela LAZĂR[1], Maria Valentina DINU[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

## Poster Session II (PC-II) and Coffee break

**The Hall of the Echoing Footsteps, $11^{40}$-$12^{30}$**

**Session chairs: Prof. PhD. Doina HUMELNICU**
**Assoc. Prof. PhD. Doina LUTIC**
**Assoc. Prof. PhD. Simona Maria CUCU-MAN**

# Scientific Session 4

## Aula Magna „Mihai Eminescu", $12^{30}$-$14^{15}$

**Session chairs: Prof. PhD. Cecilia ARSENE**

**Assoc. Prof. PhD. Iustinian-Gabriel BEJAN**

**IC-07** $12^{30}$-$13^{00}$ **From Wavefunction to Function: Asking Questions Across Physics and Chemistry**

Marius A. HUȘANU[1], Dana G. POPESCU[1], Adrian I. BORHAN[2], Daniel GHERCA[2,3], Ioana RADU[2], Monika SCHIED[4], Paolo LACOVIG[4], Camelia BORCA[5], Thomas HUTWELKER[5]

[1]*National Institute of Materials Physics, Magurele, Romania*
[2]*"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[3]*National Institute of Research and Development for Technical Physics, Iasi, Romania*
[4]*Elettra - Sincrotrone Trieste, Basovizza, Trieste, Italy*
[5]*Paul Scherrer Institut, Swiss Light Source, Switzerland*

**OC-10** $13^{00}$-$13^{15}$ **Delivery of Diclofenac and Lysozyme from a polyurethane-based system**

Vasile Robert GRĂDINARU[1], Luiza Mădălina GRĂDINARU[2]

[1]*"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2]*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**OC-11** $13^{15}$-$13^{30}$ **Influence of Gadolinium Substitution on the Structural, Vibrational, and Magnetic Properties of Co-Ni Spinel Ferrites**

Dana POGURSCHI[1], Ioana RADU[1], Daniel GHERCĂ[2], Dragoș IOAN-OLARIU[3], Aurel PUI[1]

[1]*"Alexandru Ioan Cuza" University of Iași, Faculty of Chemistry, Iasi, Romania*
[2]*National Institute of Research and Development for Technical Physics, Iasi, Romania*
[3]*"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*

**OC-12** $13^{30}$-$13^{45}$ **Hydroxypropyl curdlan – a non-ionic curdlan derivative with improved solubility in water and organic solvents**

Irina POPESCU[1], Dana M. SUFLET[1], Gabriela L. AILIESEI[1], Mihaela AVADANEI[1], Maria BERCEA[1]

[1]*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**OC-13** $13^{45}$-$14^{00}$ **Solar-Driven Carbamazepine Degradation Using Photoresponsive $TiO_2$ – Spiropyran Nanohybrid Photocatalysts**

Nicoleta CORNEI[1], Andreea Elena MAFTEI[2], Cătălina Nicoleta BASOC[2,3], Marius DOBROMIR[2], Maria IGNAT[1,3], Nicoleta LUPU[4], Mariana NEAMȚU[2]

[1]*"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

[2] *"Alexandru Ioan Cuza" University of Iasi, Institute of Interdisciplinary Research, Department of Exact and Natural Sciences, Iasi, Romania*
[3] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*
[4] *National Institute of Research and Development for Technical Physics (NIRDTP), Iasi, Romania*

## OC-14 Effect of Catalase Localization in Core-Shell Sand Composites on Indigo Carmine Removal from Water

$14^{00}$-$14^{15}$

Timeea-Anastasia CIOBANU[1], Florin BUCATARIU[1], Larisa-Maria PETRILA[1], Marius-Mihai ZAHARIA[1], Marcela MIHAI[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

$14^{15}$ **Concluding remarks**

# POSTER SESSION I (PC-I)

## Thursday, October 29, $15^{45}$-$16^{30}$

**PI-1** **Sustainable Valorization of Romanian Native Flora: *Melissa officinalis* as a Source of Antioxidant Bioactive Compounds**

Maria Cecilia MITITELU[1], Claudia MAXIM[1], Daniela ȘUTEU[1]
[1] *"Gheorghe Asachi" Technical University of Iasi, „Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

**PI-2** **Influence of the carbon source and aeration on kojic acid biosynthesis by *Aspergillus oryzae***

Maria Eliza ALEXE[1], Victoria GHEORGHIU[2], Alexandra Cristina BLAGA[3]
[1] *"Gheorghe Asachi" Technical University of Iasi, „Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

**PI-3** **Experimental and DFT study of the antiradical activity of a novel homodrimane-thiosemicarbazide-oxadiazole hybrid**

Crina VICOL[1], Lidia LUNGU[1]
[1] *Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova*

**PI-4** **Influence of temperature on the drying kinetics of semisolid plant-based food products**

Laurențiu-Constantin MIHAILĂ[1], Cătălin LISA[1], Ioan MĂMĂLIGĂ[1], Gabriela LISA[1]
[1] *"Gheorghe Asachi" Technical University of Iasi, „Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, Iasi, Romania*

**PI-5** **Antiradical activity of new homodrimane–oxadiazole molecular hybrids**

Lidia LUNGU[1], Crina VICOL[1], Alexandru CIOCARLAN[1], Aculina ARICU[1]
[1] *Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova*

**PI-6** **Mixed-ligand La(III), Ce(III) and Nd(III) complexes with quercetin and 2,2′-bipyridine: synthesis, characterization and antitumor studies**

Aurel TĂBĂCARU[1], Andreea V. BOTEZATU[1], Simona BUTAN[1], Mihaela DRĂGOI (CUDĂLBEANU)[2], Lázaro A. Góngora HERNÁNDEZ[3], Ionela AVRAM[3], Cristina E. STAVARACHE[4,5]
[1] *"Dunărea de Jos" University of Galați, Department of Chemistry, Physics and Environment*
[2] *University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation, Galati, Romania*
[3] *University of Bucharest, Department of Genetics, Faculty of Biology, Bucharest, Romania*
[4] *National University of Science and Technology Politehnica Bucharest, Advanced Polymer Materials Group, Bucharest, Romania*
[5] *"Costin D. Nenițescu" Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania*

**PI-7** **Peptide-based substrates for enzyme activity evaluation using mass spectrometry and fluorimetry**

Larisa- Diana PATZ[1], Laura DARIE-ION[1], Brîndușa Alina PETRE[1]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**PI-8** **Electrochemical sensing of heavy metals in surface waters: recent trends and perspectives**

Alexandra Virginia BOUNEGRU[1,4], Ștefan Mihai PETREA[2,4], Dragos Sebastian CRISTEA[3], Ira-Adeline SIMIONOV[2,4], Alina ANTACHE[2,4], Cătălina ITICESCU[1,4]
[1] *"Dunarea de Jos" University of Galați, Faculty of Sciences and Environment, Galati, Romania*
[2] *"Dunarea de Jos" University of Galați, Food Science Faculty, Galati, Romania*
[3] *"Dunarea de Jos" University of Galați, Faculty of Economics and Business Administration, Galati, Romania*
[4] *"Dunărea de Jos" University of Galați, REXDAN Research Infrastructure, Galati, Romania*

**PI-9 Removal and photocatalytic degradation of Rhodamine B and Methylene blue on Y-doped $ZrO_2$ thin films**

Carmen MÎȚĂ[1], Nicoleta CORNEI[1], Diana MARDARE[2], Mariana FRENTI[2], Georgiana BULAI[3], Vasile TIRON[4], Marius DOBROMIR[4]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
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[3] *"Alexandru Ioan Cuza" University of Iasi, Integrated Centre for Environmental Science, Studies in the North-East Development Region–CERNESIM, Iasi, Romania*
[4] *"Alexandru Ioan Cuza" University of Iasi, Institute of Interdisciplinary Research, Department of Exact and Natural Sciences, Research Center on Advanced Materials and Technologies, Iasi, Romania*

**PI-10 Novel materials based on Type V hydrophobic deep eutectic solvent: Preliminary characterization and potential as drug delivery systems**

Catalin CHERSAN[1], Raluca Nicoleta DARIE-NIȚĂ[1], Oana URSACHE[1], Marin-Aurel TROFIN[1], Sergiu COȘERI[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**PI-11 Facile Production of Nanofibrillated Cellulose *via* Deep Eutectic Solvent Pretreatment**

Madalina-Roxana BIRTEA[1], Raluca Ioana BARON[1], Gabriela BILIUTA[1], Sergiu COȘERI[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*

**PI-12 Synthesis and Characterization of New Indolizine-Triazole Hybrids**

Andreea DĂNILĂ[1], Roxana CIORTEANU[1,2], Cătălina Ionica CIOBANU[3], Ionel I. MANGALAGIU[1], Ramona DĂNAC[1]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iasi, Institute of Interdisciplinary Research–RECENT AIR Center, Iasi, Romania*
[3] *"Alexandru Ioan Cuza" University of Iasi, Institute of Interdisciplinary Research–CERNESIM Centre, Iasi, Romania*

**PI-13 Synthesis, ADME parameters prediction and enzyme targets estimation of some imidazole derivatives**

Alessia Cristina ROSA[1], Cătălina CIOBANU[2], Ionel I. MANGALAGIU[1], Gheorghiță ZBANCIOC[1], Costel MOLDOVEANU[1]
[1] *"Alexandru Ioan Cuza" University of Iasi, Department of Chemistry, Iasi, Romania.*
[2] *"Alexandru Ioan Cuza" University of Iasi, Integrated Centre of Environmental Science Studies in the North Eastern Region (CERNESIM), Iasi, Romania*

**PI-14 Physical and chemical immobilization of bromelain and papain in hydrogels based on sodium alginate/alginate dialdehyde**

Andra-Diana GOCIU[1], Vasile Robert GRĂDINARU[2], Sergiu COȘERI[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Department of Polyaddition and Photochemistry, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**PI-15** **Structural Modulation of Imidazolium/Benzimidazolium Salts: A Strategy for Tailoring Ionic Liquid Properties**

Rareș-Georgian MOCANU[1], Sergiu SHOVA[1], Irina ROȘCA[1], Mihaela SILION[1], Mariana PINTEALĂ[1], Dana BEJAN[1]

[1]*"Petru Poni" Institute of Macromolecular Chemistry, Centre of Advanced Research in Bionanoconjugates and Biopolymers, Iasi, Romania*

**PI-16** **Effects of a Nanoenabled Edible Coating on the Storage Stability of Italian Table Grapes (*Vitis vinifera L.*)**

Lindoval Serrano DA FONSECA[1], Karen Esttéfani Ferreira DOS SANTOS[1,2], Marcos Antonio DAS NEVES[3], Marcus Vínicius Lia FOOK[4]

[1]*Federal University of Campina Grande, Graduate Program in Materials Science and Engineering, Brazil*

[2]*University of 16 Girona, Department of Mechanical Engineering and Industrial Construction, Spain*

[3]*Institute of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan*

[4]*Federal University of Campina Grande, Materials Engineering Department, Brazil*

**PI-17** **Scenario-based assessment of nature-based solutions for contaminants sequestration in constructed wetlands**

Mihai TUDOSE[1], Raluca-Maria HLIHOR[2], Alessandra BONOLI[3], Adrian BURADA[4], Carmen ZAHARIA[1]

[1]*"Gheorghe Asachi" Technical University of Iasi, Department of Environmental Engineering and Management, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

[2]*"Ion Ionescu de la Brad" Iasi University of Life Sciences, Faculty of Horticulture, Department of Horticultural Technologies, Iasi, Romania*

[3]*Alma Mater Studiorum – Università di Bologna, Department of Civil, Chemical, Environmental and Materials Engineering (DICAM), Bologna, Italy*

[4]*"Danube Delta" National Institute for Research and Development, Department of Laboratories and Research Bases, Tulcea, Romania*

**PI-18** **Novel Fused Pyrroloindolizines: Synthesis and Biological Evaluation**

Roxana CIORTEANU[1,2], Ioana C. MARINAS[3], Marius SAVU[1], Cristina M. AL MATARNEH[4], Ionel I. MANGALAGIU[1], Ramona DĂNAC[1]

[1]*"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

[2]*"Alexandru Ioan Cuza" University of Iasi, Institute of Interdisciplinary Research–RECENT AIR Center, Iasi, Romania*

[3]*Research Institute of the University of Bucharest (ICUB), Bucharest, Romania*

[4]*"Petru Poni" Institute of Macromolecular Chemistry, Iași, România*

**PI-19** **Copper (I) complexes as potential anticancer agents: ligand design, solution behaviour and biological activity**

Cristina-Mihaela VÎNĂ[1], Aurel TĂBĂCARU[1]

[1]*"Dunarea de Jos" University of Galati, Department of Chemistry, Physics and Environment, Galati, Romania*

**PI-20** **Comparative Rheological Characterization of Commercial Pharmaceutical Gels as a Preliminary Step in Semisolid Formulation Development**

Sergiu HACINA[1], Anca-Mihaela MOCANU[1], Maricel DANU[1], Gabriela LISA[1]

[1]*"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection "Cristofor Simionescu", Iasi, Romania*

**PI-21** **Functional Peptides: Synthesis, Characterization and Biomedical Applications**

Laura DARIE-ION[1], Corina CIOBĂNAȘU[2], Andrei NEAMȚU[3], Brîndușa-Alina PETRE[1,4]
[1] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*
[2] *Institute of Interdisciplinary Research, "Alexandru Ioan Cuza" University of Iasi, Department of Exact and Natural Sciences, Iasi, Romania*
[3] *"Grigore T. Popa" University of Medicine and Pharmacy, Department of Physiology, Iasi, Romania*
[4] *Regional Institute of Oncology, Center for Fundamental Research and Experimental Development in Translational Medicine—TRANSCEND, Iasi, Romania*

## PI-22 Nanocomposite Hydrogels for Potential Environmental Remediation Applications

Roxana-Tatiana AVRAM[1], Nicusor FIFERE[1], Maria Marinela LAZAR[1], Irina Elena RASCHIP[1], Maria Valentina DINU[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

## PI-23 PIOChitIns - Innovative Process for the Production of Chitosan and By-Products from Insects

Alina-Mirela IPATE[1], Bianca Iustina ANDREICA[1], Daniela AILINCAI[1], Alexandru ANISIEI[1], Manuela Maria IFTIME[1], Andrei BEJAN[1], Anda Mihaela CRACIUN[1], Oana DUMBRAVA[1], Ramona LUNGU[1], Vera Maria PLATON[1], Maria Valentina DINU[1], Marieta FUNDUEANU[1], Alina NICOLESCU[1], Dumitru POPOVICI[1], Izabela SANDU[1], Diana SERBEZEANU[1], Iuliana SPIRIDON[1], Anca FILIMON[1], Irina ROSCA[1], Daniela RUSU[1], Luminita MARIN[1]
[1] *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

## PI-24 Chemical Characterization of Water Quality in Selected Natura 2000 Sites in Vaslui County, Romania

Andreea-Miruna CODREANU[1,2], Ștefania Adelina MILEA[1], Andreea DOROFTE[1,3], Daniel Eduard CONSTANTIN[1,4], Cătălina ITICESCU[1,4]
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## PI-25 Dopamine Detection in Pharmaceutical Products Using Modified Screen Printed Carbon Electrode

Andreea-Loredana COMĂNESCU[1], Constantin APETREI[1]
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## PI-26 Distribution and Accumulation of Mercury across Aquatic Ecosystem Compartments in Protected Areas of Moldavia, Romania

Ștefania-Adelina MILEA[1], Andreea-Miruna CODREANU[1,2], Andreea DOROFTE[1,3], Daniel Eduard CONSTANTIN[1,4], Cătălina ITICESCU[1,4]
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# POSTER SESSION II (PC-II)

## Friday, October 30, $11^{40}$-$12^{30}$

**PII-1** **Gold Nanoparticle-Modified Carbon Electrode for Electrochemical Detection of Estradiol**

Andra-Georgiana TRIFAN[1], Constantin APETREI[1]
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**PII-2** **Electrochemical biosensors for Resveratrol detection**

Andrei-Daniel GEMAN[1], Constantin APETREI[1]
[1] *"Dunărea de Jos" University of Galați, Faculty of Science and Environment, Galati, Romania*

**PII-3** **Sol-Gel Synthesis of Phase-Pure Water-Soluble $Sr_3Al_2O_6$ Perovskite**

Claudiu RÂȘCANU[1], Daniel GHERCĂ[3], Dana Georgeta POPESCU[2], Marius Adrian HUȘANU[2], Adrian Iulian BORHAN[1,3]
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**PII-4** **Variability of Urban Atmospheric Bioaerosols in Relation to Precipitation Events During the Summer Season**

Cristina IANCU[1], Romeo Iulian OLARIU[1,2], Cecilia ARSENE[1,2]
[1] *"Alexandru Ioan Cuza" University of Iasi, RECENT AIR Center, Iasi, Romania*
[2] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**PII-5** **Synthesis and Characterization of New Fused Phenanthroline Derivatives**

Ioana-Andreea URSACHE[1], Ashraf AL-MATARNEH[1], Maria-Cristina AL-MATARNEH[2], Ramona DĂNAC[1]
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**PII-6** **Characterization of Black Soldier Fly Larvae Ash and Preliminary Assessment of Its Potential for Methylene Blue Removal from Aqueous Solutions**

Andreea Diana IRICIUC (ANDRIEȘ)[1], Maria-Yolanda TIMOFICIUC[2], Rareș-Andrei NEAMȚU[2], Bogdan-Alexandru URSAN[2], Emanuela-Lia RĂILEANU[2], Cristina IANCU[3], Laurențiu-Valentin ȘOROAGĂ[2,3,4], Romeo-Iulian OLARIU[1,2,3,4], Cecilia ARSENE[1,2,3,4]
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**PII-7** **Synthesis and characterization of Ag-$TiO_2$ composites for photocatalytic degradation of Rhodamine B**

Mirela AIRIMIOAEI[1], Timeea Anastasia CIOBANU[1], Diana SERBEZEANU[2], Ioana RADU[1], Felicia GHEORGHIU[3], Georgiana BULAI[4], Mihai Alexandru CIOLAN[3]
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**PII-8 Synthesis and structural characterization of novel phthalazine derivatives obtained *via* Huisgen [3+2] dipolar cycloaddition**

Nicola-Miruna MATEI[1], Marius SAVU[1], Ionel MANGALAGIU[1], Cătălina-Ionica CIOBANU[2], Sergiu SHOVA[3]
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**PII-9 Industrial Waste-Derived Materials for Sustainable Construction and Thermal Energy Storage Applications**

Claudiu GOREA[1], Maria HARJA[1]
[1] *"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

**PII-10 Investigation of ligand-protein interactions *via* spectroscopic and computational methods**

Camelia-Georgiana MARANDIȘ[1], Dorina AMĂRIUCĂI-MANTU[1], Vasilichia ANTOCI[1], Violeta Mangalagiu[3,4], Ionel I. MANGALAGIU[1], Marcela MIHAI[2]
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**PII-11 Efficient photocatalytic degradation of organic compounds using mixed metal oxides**

Diana HANGANU[1], Lidia FAVIER[2], Amalia-Maria SESCU[1], Maria HARJA[1]
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[2] *Univ Rennes, École Nationale Supérieure de Chimie de Rennes, CNRS, Rennes, France*

**PII-12 Distinct adsorption behavior of three pharmaceutical compounds on activated carbon**

Diana HANGANU[1], Lidia FAVIER[2], Doina LUTIC[3], Gabriela Antoaneta APOSTOLESCU[1]
[1] *"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*
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[3] *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Iasi, Romania*

**PII-13 Total Mercury in Fish and Cephalopod Products Marketed in Cambodia: Concentration Variability and Food Safety Implications**

Andreea DOROFTE[1,2], Ira-Adeline SIMIONOV[1,2], Ștefan-Mihai PETREA[1,2], Daniela BORDA[1,2], Cătălina ITICESCU[1,3]
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**PII-14 Toward Smoc labeling of phenyl alanine and egg white lysozyme inspired pentapeptide**

Patricia GOREA[1], Vasilica-Corina CIOBANAȘU[2], Laura DARIE-ION[1], Brîndușa Alina PETRE[1], Vasile Robert GRĂDINARU[1]
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**PII-15 Synthesis of new polycyclic derivatives via [3+2] dipolar cycloaddition of benzo[c]quinolinium ylides**

Claudiu ȚICALEAC[1], Cătălina CIOBANU[2], Ionel MANGALAGIU[1], Costel MOLDOVEANU[1], Gheorghiță ZBANCIOC[1]
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**PII-16 Substituent Effects on the Conformational Stability, Proton Transfer, and Electronic Properties of Alanine: A DFT Study**

Victoria MIHAILOVA[1], Ionel HUMELNICU[1]
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**PII-17 Implementation and analytical evaluation of the acellular dithiothreitol (DTT) assay for oxidative potential assessment in atmospheric aqueous matrices**

Robert-Iulian BERARI[1], Alina-Giorgiana NEGRU[2,3], Cornelia NIȚĂ[2,3], Laurențiu-Valentin ȘOROAGĂ[2,3,4], Romeo-Iulian OLARIU[1,2,3,4], Cecilia ARSENE[1,2,3,4]
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**PII-18 Comparative study of Cd (II) sorption on two functionalized ion exchangers**

Rodica-Liliana BUHĂCEANU[1], Romina-Nicoleta TURLUIEANU[1], Ion BUNIA[2], Simona-Maria CUCU-MAN[1]
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**PII-19 An Efficient Tandem Multi-Component Approach to Novel Trifluoromethylated Pyrrole-Based Hybrid Compounds**

Florentina-Gabriela LAZĂR[1], Ashraf AL-MATARNEH[1,2], Diana-Loredana POPA[2], Vasilichia ANTOCI[2], Maria-Cristina AL-MATARNEH[1], Mariana PINTEALĂ[1]
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**PII-20 Comparative Evaluation of HPLC Detection Techniques for Trace levels Determination of Bisphenol A**

Mirela-Mirabela STĂRUIALĂ[1,2], Daniela DÎRȚU[1], Silviu-Iulian FILIPIUC[2], Bogdan-Ionel TAMBA[2,3], Alin-Constantin DÎRȚU[1,2]
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[3] *"Grigore T. Popa" University of Medicine and Pharmacy, Departament of Pharmacology, Clinical Pharmacology and Algesiology, Iasi, Romania*

**PII-21** **New 2,9-disubstituted 1,10-phenanthroline derivatives with potential applications**

Bianca HOBJILĂ[1], Roxana CIORTEANU[1,2], Andreea DĂNILĂ[1], Cătălina Ionica CIOBANU[3], Ramona DĂNAC[1]

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**PII-22** **Gas-Phase Kinetic Study of Propionic Acid with OH Radicals under Simulated Atmospheric Conditions**

Paula CRETU[1], Pengcheng WANG[2], Chenyang XUE[2], Eduard-Andrei ASANDEI[1], Max R. MCGILLEN[2], Iustinian Gabriel BEJAN[1,3]

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**PII-23** **Temperature Dependent Kinetic Study of the OH Radicals Initiated Oxidation of Propionic Acid**

Eduard-Andrei ASANDEI[1], Pengcheng WANG[2], Chenyang XUE[2], Paula CRETU[1], Max R. MCGILLEN[2], Iustinian Gabriel BEJAN[1,3]

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**PII-24** **Microfluidic preparation and physicochemical characterization of doxorubicin-loaded liposomes**

Răzvan GHIARASIM[1,2], Nicoleta BASOC[1,2], Rareș-Ionuț STIUFIUC[1,3], Brîndușa DRĂGOI[1,4]

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**PII-25** **Application of adsorption processes in a zootechnical wastewater treatment system**

Cristina Alexandra HAIVAS[1], Carmen ZAHARIA[1]

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**PII-26** **Magnetically Assisted Adsorption and Chemical Desorption of Alizarin Yellow R Using Rare-Earth-Modified Cobalt-Zinc Spinel Ferrites**

Bogdan-Constantin CONDURACHE, Ionela GRECU, Bogdan-George RUSU, Petrișor SAMOILĂ, Corneliu COJOCARU, Andra-Cristina ENACHE

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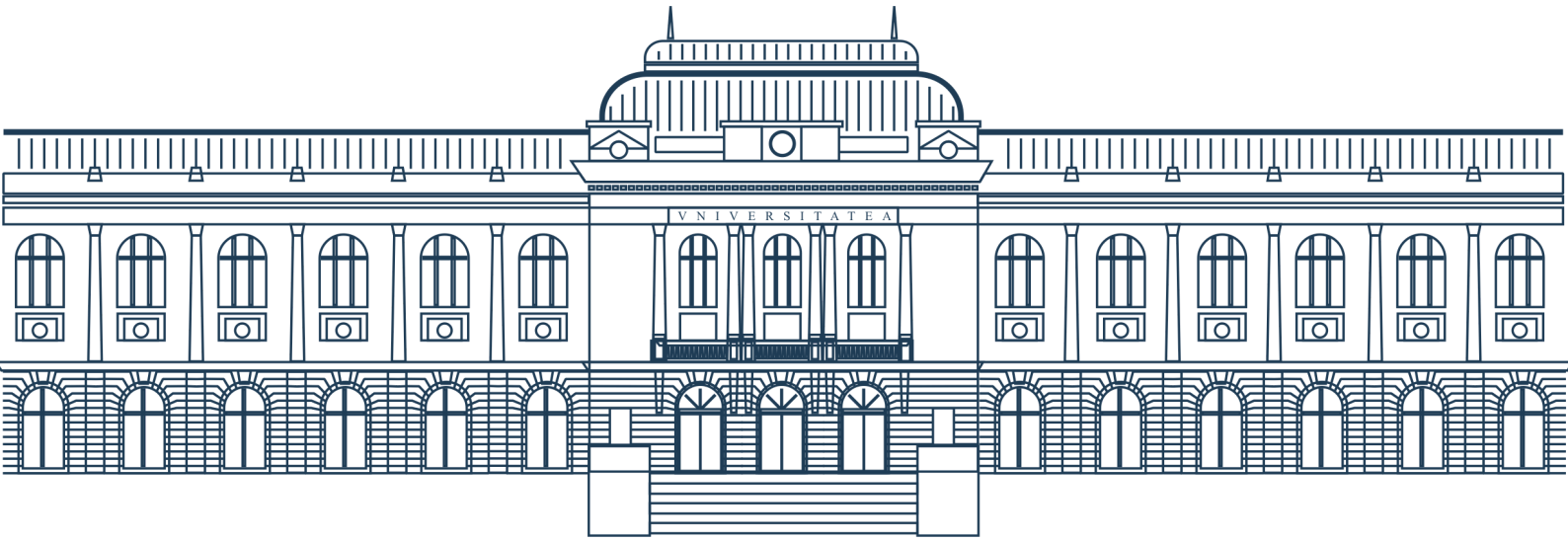
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