

IasiCHEM 2024 Conference

6th Edition

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31 Oct – 01 Nov 2024, Iasi
Romania

Faculty of Chemistry
"Alexandru Ioan Cuza" University of Iasi
Inorganic Chemistry Professor Organic Chemistry
Conference Researcher IasiCHEM2024 6th Edition
Physical Chemistry Environmental Chemistry Student
Medicinal Chemistry Analytical Chemistry Biochemistry
Pharmaceutical Chemistry Material / Polymer Chemistry
Nuclear Chemistry

Presentation time (discussion included)

- Invited Conference: 35 minutes
- Oral Communication: 15 minutes

Posters Program

- The author presenting the poster has to be present within the scheduled time for the contribution.
- The posters will be projected in a continuous cycle, in the indicated section room and the authors will be required to do a brief presentation of the results.
- After all presentation, a Q&A session will follow.



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Scientific Program

Day 1

Thursday, 31 October, "Canta" House – "Ion Simionescu" Hall

13⁰⁰-13³⁰ **Registration**

13³⁰-13⁴⁵ **Welcome to IasiCHEM 2024**

Prof. Cecilia ARSENE
Prof. Romeo Iulian OLARIU
Prof. Ionel I. MANGALAGIU
Prof. Aurel PUI
Assoc. Prof. Alin Constantin DIRTU

13⁴⁵-14⁰⁰ **Science has no borders, but academia scientists respect the human value - A remember in the autumn colours of all those which are lightening the shadow in research**

In memoriam Acad. Bogdan SIMIONESCU, Prof. Ioan SIRGHIE,
Prof. Cristian ENACHESCU

Session 1

"Ion Simionescu" Hall, 14⁰⁰-15⁴⁰

**Session chairs: Prof. Cecilia ARSENE
Assoc. Prof. Alin Constantin DIRTU
Researcher 2 Claudiu ROMAN**

IC-01 Towards more realistic experiments of atmospheric chemistry

14⁰⁰-14³⁵

Alexandre TOMAS¹

¹*IMT Nord Europe, Institut Mines Télécom, Lille University, Center for Energy and Environment, Douai, France*

IC-02 Antimicrobial and anticancer activity of some nitrogen heterocycles

14³⁵-15¹⁰

Ionel I. MANGALAGIU¹, Dumitrelea DIACONU^{1,2}, Violeta MANGALAGIU^{3,4}, Ramona DANAC¹, Dorina AMARIUCAI-MANTU¹, Vasilichia ANTOCI¹, Costel MOLDOVEANU¹, Gheorghita ZBANCIOC¹

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

²*"Alexandru Ioan Cuza" University of Iasi, RECENT AIR*

³*"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM*

⁴*"Stefan cel Mare" University of Suceava, Faculty of Food Engineering*

OC-01
15¹⁰-15²⁵ **Photocatalytic activity of N-doped ZrO₂ thin films under UV light on the rhodamine B and methylene blue**

Nicoleta CORNEI¹, Carmen MITA¹, Mariana FRENTI², Diana MARDARE², Georgiana BULAI³, Marius DOBROMIR⁴

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

³"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

⁴"Alexandru Ioan Cuza" University of Iasi, ICI-RAMTECH

OC-02
15²⁵-15⁴⁰ **New composites for used motor oil retention**

Irina APOSTOL¹, Narcis ANGHEL¹, Iuliana SPIRIDON¹

¹"Petru Poni" Institute of Macromolecular Chemistry

15⁴⁰-16⁴⁰ Poster Session I and Coffee break

Session chairs: **Assoc. Prof. Dalila BELEI**
Researcher 2 Alina-Giorgiana NEGRU
Assistant Prof. Dumitrelea DIACONU
Researcher 2 Laurentiu-Valentin SOROAGA

Session 2

"Ion Simionescu" Hall, 16⁴⁰-18²⁰

Session chairs: **Prof. Ramona DANAC**
Assoc. Prof. Maria IGNAT

IC-03
16⁴⁰-17¹⁵ **Photochemical reactions in sunlit surface waters**

Davide VIONE¹

¹University of Turin, Department of Chemistry

IC-04
17¹⁵-17⁵⁰ **Green chemistry in a pharmaceutical context: focus on RAGE antagonists with potential antiaging properties**

Alina GHINET^{1,2}

¹Junia, Health and Environment Department, Laboratory of Sustainable Chemistry and Health

²University of Lille, Inserm, CHU Lille, Institut Pasteur Lille, U1167 - RID-AGE - Risk factors and molecular determinants of aging-related disease

OC-03
17⁵⁰-18⁰⁵ **Exploring RAGE ligands through td-DCC: HIT selection and bioisosteric optimization**

Anca-Elena DASCALU^{1,2}, Christophe FURMAN^{2,3}, Eric BOULANGER², Alina GHINET^{1,2}

¹Junia, Health and Environment Department, Laboratory of Sustainable Chemistry and Health

²University of Lille, Inserm, CHU Lille, Institut Pasteur Lille, U1167 - RID-AGE - Risk factors and molecular determinants of aging-related disease

³University of Lille, UFR Pharmacie

OC-04 **Total metal content evaluation by ICP-MS in size-resolved inhalable particulate matter from the atmosphere**

18⁰⁵-18²⁰

Laurentiu-Valentin SOROAGA^{1,2}, Cecilia ARSENE^{1,2,3}, Romeo-Iulian OLARIU^{1,2,3}

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18²⁰-20⁰⁰ **Dinner – "Canta" House Restaurant**

Day 2

Friday, November 01, "Canta" House – "Vespasian Pella" Hall

Session 3

"Vespasian Pella" Hall, 09⁰⁰-11¹⁵

Session chairs: **Prof. Ionel I. MANGALAGIU**
Prof. Romeo Iulian OLARIU
Prof. Doina HUMELNICU

IC-05 **Structural strategies to tailor polyimides towards stimuli-responsive chromic materials**

09⁰⁰-09³⁵

Mariana-Dana DAMACEANU¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Electroactive Polymers and Plasmochemistry Department

IC-06 **Experimental and theoretical structural chemistry in the frame of ligand field paradigms. An old and evergreen field**

09³⁵-10¹⁰

Fanica CIMPOESU¹, Marilena FERBINTEANU²

¹Institute of Physical Chemistry, Bucharest

²University of Bucharest, Faculty of Chemistry

OC-05 **Study of the atmospheric degradation of selected organic solvents**

10¹⁰-10²⁵

Claudiu ROMAN^{1,2}, Alina-Giorgiana NEGRU^{1,2}, Cornelia NITA^{1,2}, Cecilia ARSENE^{1,2,3}, Iustinian Gabriel BEJAN^{2,3}, Romeo-Iulian OLARIU^{1,2,3}

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OC-06 Proteomic analysis of hJTB protein in MCF7 breast cancer cell line
10²⁵-10⁴⁰

Brindusa Alina PETRE^{1,2,3}, Madhuri JAYATHIRTA², Costel. C. DARIE²

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²Clarkson University, Biochemistry & Proteomics Laboratories, Department of Chemistry & Biomolecular Science

³Regional Institute of Oncology TRANSCEND Center Iasi

IC-07 Getting to know some of the key unknowns in atmospheric chemistry
10⁴⁰-11¹⁵

Max R. McGILLEN¹

¹CNRS-Orléans, Institut de Combustion Aérothermique Réactivité et Environnement (ICARE)

11¹⁵-12¹⁵ Poster Session II and Coffee break

Session chairs: Assoc. Prof. Dalila BELEI
Researcher 2 Alina-Giorgiana NEGRU
Assistant Prof. Dumitrelea DIACONU
Researcher 2 Laurentiu-Valentin SOROAGA

Session 4.1

"Vespasian Pella" Hall, 12¹⁵-13³⁰

Session chairs: Prof. Costel MOLDOVEANU
Assoc. Prof. Brindusa-Alina PETRE
Assoc. Prof. Simona Maria CUCU-MAN

OC-07 Pioneering in-operando water splitting by Al-doped SrTiO₃ catalyst
12¹⁵-12³⁰

Adrian Iulian BORHAN¹, Daniel GHERCA², Marius-Adrian HUSANU³, Camelia Nicoleta BORCA⁴, Ioana RADU¹, Aurel PUI¹

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²National Institute of Research and Development for Technical Physics

³National Institute of Materials Physics

⁴"Paul Scherrer" Institut, Swiss Light Source

OC-08 Drug delivery systems with antimicrobial and anticancer activity based on imino-chitosan hydrogels
12³⁰-12⁴⁵

Daniela AILINCAI¹, Luminita MARIN¹

¹"Petru Poni" Institute of Macromolecular Chemistry

OC-09 **Synthesis and characterization of some dextran-ZnPc derivatives systems**
12⁴⁵-13⁰⁰

Stefan ROBU¹, Ion LUNGU¹, Tamara POTLOG¹, Radu I. TIGOIANU², Anton AIRINEI²

¹Moldova State University, Laboratory of Organic/Inorganic Materials for Optoelectronics

²"Petru Poni" Institute of Macromolecular Chemistry, Laboratory of Physical Chemistry of Polymers

OC-10 **Obtaining polymer microspheres through pickering emulsion polymerization technology**
13⁰⁰-13¹⁵

Oana-Iuliana NEGRU¹, Andrei HONCIUC¹, Mirela HONCIUC¹, Ana-Maria SOLONARU¹

¹"Petru Poni" Institute of Macromolecular Chemistry

OC-11 **Nanostructured caseinate electrospun fibers with encapsulated bioactive plant extracts**
13¹⁵-13³⁰

Raluca Petronela DUMITRIU¹, Elena STOLERU¹, Mihai BREBU¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Laboratory

Session 4.2

"Vespasian Pella" Hall, 13³⁰-14¹⁵

Session chairs: **Assoc. Prof. Nicoleta CORNEI**
Assoc. Prof. Dorina AMARIUCAI-MANTU
Assoc. Prof. Ionel HUMELNICU

OC-12 **Synthesis of 2-(9H-fluoren-9-ylidene)-N-(pyridin-2-yl)hydrazine-1-carbothioamides with antimicrobial properties**
13³⁰-13⁴⁵

Andrei CIURSIN¹, Roman RUSNAC¹, Ion BULIMESTRU¹, Luiza Ioana GAINA²

¹Moldova State University, Faculty of Chemistry and Chemical Technology

²Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

OC-13 **UV irradiated chitosan-gelatin xerogels with ability for entrapment of hydrophobic bioactive compounds**
13⁴⁵-14⁰⁰

Daniela PAMFIL¹, Elena STOLERU¹, Mihai BREBU¹, Raluca Petronela DUMITRIU¹, Elena BUTNARU¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Laboratory

OC-14 **Design and evaluation of a novel plant-based yoghurt using
14⁰⁰-14¹⁵ response surface methodology**

Cristina POPOVICI¹, Xin Mei TENG², Ravi JADEJA²

¹*Technical University of Moldova, Faculty of Food Technology, Department
of Food and Nutrition*

²*Oklahoma State University, Department of Animal and Food Sciences &
Robert M. Kerr Food and Agricultural Products Center*

14¹⁵-14⁴⁵ Concluding remarks

POSTER SESSION I

Thursday, October 31, 15⁴⁰-16⁴⁰

Section P₁-I - "Vasile Arvinte" Hall

Section chair

Researcher 2 Alina-Giorgiana NEGRU

P₁-I-1 Relationship between oxidative stability and SO₂ technological doses in Chardonnay and Feteasca Regala white wines

Ecaterina COVACI¹, Natalia VLADEI¹, Valeria DAMASCHIN¹

¹Technical University of Moldova, Faculty of Food Technology, Department of Oenology and Chemistry

P₁-I-2 Amino acid profile of light and dark brewer's spent grains as a novel food ingredient

Aliona GHENDOV-MOSANU¹, Olesea SAITAN¹, Ruslan TARNA¹, Iurie RUMEUS², Georgiana Gabriela CODINA³

¹Technical University of Moldova, Department of Food Technology

²"Bogdan Petriceicu Hasdeu" State University of Cahul, Department of Engineering and Applied Sciences

³"Stefan cel Mare" University, Department of Food Technologies, Safety of Food Production and the Environment

P₁-I-3 Agro-industrial waste-based thermoplastic composites for structural applications

Fulga TANASA¹, Ioana-Alexandra DUCEAC¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Department of Polyaddition and Photochemistry

P₁-I-4 Photodegradation efficiency and kinetics of Rhodamine B and Methylene blue using ZrO₂-xNy thin film photocatalyst

Carmen MITA¹, Nicoleta CORNEI¹, Mariana FRENTI², Diana MARDARE², Georgiana BULAI³, Marius DOBROMIR⁴

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P₁-I-5 Efficient removal of Hg(II) from aqueous systems by different composite sorbents: experimental and theoretical studies

Doina HUMELNICU¹, Claudiu-Augustin GHIORGHITA², Ecaterina Stela DRAGAN², Ionel HUMELNICU¹

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²"Petru Poni" Institute of Macromolecular Chemistry

P₁-I-6 Polyelectrolyte complex composite cryogels with simultaneous removal capability of multiple contaminants from aqueous media

Claudiu-Augustin GHIORGHITA¹, Doina HUMELNICU², Maria Valentina DINU¹, Ecaterina Stela DRAGAN¹

¹"Petru Poni" Institute of Macromolecular Chemistry

²"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

P₁-I-7 Thermodynamic analysis of buffering capacity in soil systems: impact on environmental stress adaptation

Igor POVAR¹, Oxana SPINU¹

¹ *Moldova State University, Institute of Chemistry*

P₁-I-8 Measurements of traffic-dominated pollutant emissions in the urban area of Iasi using the PRO TRACE 02 mobile laboratory

Alina-Giorgiana NEGRU^{1,2}, Cornelia NITA^{1,2}, Claudiu ROMAN^{1,2},
Laurentiu-Valentin SOROAGA^{1,2}, Romeo-Iulian OLARIU^{1,2,3}, Cecilia ARSENE^{1,2,3}

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Section P₁-II - "Vespasian Pella" Hall

Section chair

Assistant Prof. Dumitrelea DIACONU

P₁-II-1 The photochemical behavior of softwood treated with epoxidized vegetable oil

Liliana ROSU¹, Cristian-Drăgos VARGANICI¹, Leonard IGNAT¹, Dan ROSU¹, Maurusa-Elena IGNAT¹

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

P₁-II-2 Vegetable oil-based epoxy resins. A thermal study

Cristian-Drăgos VARGANICI¹, Liliana ROSU¹, Leonard IGNAT¹, Dan ROSU¹, Maurusa-Elena IGNAT¹

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

P₁-II-3 Huisgen [3 + 2] dipolar cycloadditions of quinolinium ylides to symmetric and non-symmetric activated dipolarophiles

Camelia-Georgiana MARANDIS^{1,2}, Dorina AMARIUCAI-MANTU¹,
Vasilichia ANTOCI¹, Dumitrelea DIACONU^{1,3}, Catalina-Ionica CIOBANU⁴, Ionel I. MANGALAGIU¹, Marcela MIHAI²

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³ *"Alexandru Ioan Cuza" University of Iasi, RECENT AIR*

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P₁-II-4 Novel fused pyrrole derivatives: synthesis and anticancer evaluation

Roxana CIORTEANU^{1,4}, Catalina-Ionica CIOBANU², Monica SARDARU³, Ionel I. MANGALAGIU¹, Ramona DANAC¹

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P₁-II-5 Adsorbents and their role in retaining active pharmaceutical molecules from aqueous environments

Diana HANGANU¹, Doina LUTIC², Lidia FAVIER³, Maria HARJA¹

¹ *"Gheorghe Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection*

²"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

³University of Rennes, Ecole Nationale Supérieure de Chimie de Rennes, CNRS

P₁-II-6 Synthesis and characterization of novel double network cryogels based on xanthan gum and lignin

Andreea-Catalina CALANCEA¹, Doina HUMELNICU¹, Maria Marinela LAZAR², Irina Elena RASCHIP², Maria Valentina DINU²

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²"Petru Poni" Institute of Macromolecular Chemistry, Department of Functional Polymers

P₁-II-7 Unique properties and uses of hydrogen peroxide

Gheorghe DUCA¹, Lidia ROMANCIUC¹, Olga COVALIOVA¹, Marius ANDRUH², Simona NICA²

¹Moldova State University, Institute of Chemistry, Laboratory of Physical and Quantum Chemistry

²"Costin D. Nenitescu" Institute of Organic and Supramolecular Chemistry

P₁-II-8 Sustainable recovery of valuable components from e-wastes

Stefan-Leontin MARTINAS-IONITA¹, Gabriela Antoaneta Apostolescu¹, Maria Harja¹

¹"Gheorghe Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection

Section P₁-III - "Irineu Mihălcescu" Hall

Section chair Researcher 2 Laurentiu-Valentin SOROAGA

P₁-III-1 Ultrasound irradiation: application in synthesis of new hybrid azaheterocyclic compounds by click chemistry

Vasilichia ANTOCI¹, Dorina AMARIUCAI-MANTU¹, Dumitrelea DIACONU^{1,2}, Ramona DANAC¹, Catalina-Ionica CIOBANU³, Violeta MANGALAGIU³, Ionel I. MANGALAGIU^{1,3}

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P₁-III-2 Tailored monodisperse magnetite nanoparticles with low-cobalt doping for improved MRI contrast

Mirela NISTOR^{1,2}, Vera BALAN^{1,3}, Aurel PUI², Camelia Mihaela ZARA-DANCEANU^{1,4}, Daniel GHERCA⁴, Cristina Mariana URITU⁵, Raluca-Maria FRATILA⁶, Rares-Ionut STIUFIUC^{1,7}, Brindusa DRAGOI^{1,2}

¹Regional Institute of Oncology, Nanotechnology Laboratory, TRANSCEND Department

²"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

³Grigore T. Popa University of Medicine and Pharmacy of Iasi, Biomedical Sciences Department, Faculty of Medical Bioengineering

⁴National Institute of Research and Development for Technical Physics

⁵Grigore T. Popa University of Medicine and Pharmacy, Advanced Centre for Research-Development in Experimental Medicine

⁶University of Zaragoza, Institute of Material Science of Aragón, Bionanosurf Group

⁷"Iuliu Hatieganu" University of Medicine and Pharmacy, Faculty of Pharmacy, Department of Pharmaceutical Physics-Biophysics

P₁-III-3 New 1,10-phenanthroline based derivatives: synthesis and biological evaluation

Daniela FILIPIUC¹, Andreea DANILA¹, Catalina-Ionica CIOBANU², Roxana CIORTEANU^{1,3}, Ionel I. MANGALAGIU¹, Ramona DANAC¹

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³"Alexandru Ioan Cuza" University of Iasi, RECENT AIR

P₁-III-4 **Co₃₀Pt₇₀ Alloy bi-functional catalyst for methanol oxidation reaction and 4-nitrophenol reduction**

Gabriela BUEMA¹, Luiza-Camelia RACILA (BUDEANU)¹, Firuta BORZA¹, Gabriel ABABEI¹, George STOIAN¹, Ibro TABAKOVIC², Nicoleta LUPU¹, Horia CHIRIAC¹, Oana-Georgiana DRAGOS-PINZARU¹

¹National Institute of Research and Development for Technical Physics

²University of Minnesota, ECE Department

P₁-III-5 **Quantification of vitamin B₆ using ESI-MS/MS mass spectrometry**

Maria KOZHEMYAKO¹, Oana PINTILIE², Brindusa Alina PETRE¹

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

²Investigatii medicale PRAXIS Iasi

P₁-III-6 **Manganese doped carbon dots: synthesis and fluorescence properties**

Lucian BAHRAIN¹, Dana BEJAN¹, Andrei DASCALU¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Intelcentru

P₁-III-7 **Alternative animal protein sources recommended in food production**

Natalia NETREBA¹, Mihail MAZUR¹, Aliona GHENDOV-MOSANU¹, Viorica BULGARU¹

¹Technical University of Moldova, Food Technology Faculty

P₁-III-8 **Selected ion flow tube mass spectrometry investigation of volatile compounds emitted by microorganisms of atmospheric origin**

Cristina IANCU^{1,2}, Cornelia NITA^{2,3}, Alina-Giorgiana NEGRU^{2,3}, Romeo-Iulian OLARIU^{1,2,3}, Cecilia ARSENE^{1,2,3}

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POSTER SESSION II

Friday, November 01, 11¹⁵-12¹⁵

Section P_{II-I} - "Vasile Arvinte" Hall – Room 1

Section chair Researcher 2 Alina-Giorgiana NEGRU

- P_{II-I-1} Polymer networks based on formylated polysulfone and chitosan: preparation and characterization**
Oana DUMBRAVA¹, Daniela AILINCAI¹, Daniela RUSU¹, Andrei DASCALU¹, Luminita MARIN¹
¹"Petru Poni" Institute of Macromolecular Chemistry
- P_{II-I-2} Photophysics of Y₂O₃ NP-ZnPc(COOH)₄ conjugated systems**
Tamara POTLOG¹, Ion LUNGU¹, Alexandrina DRUTA¹
¹Moldova State University, Laboratory of Organic/Inorganic Materials for Optoelectronics
- P_{II-I-3} Encapsulation of silver nanoparticles in chondroitin in the presence of reducing agents glucose and sodium citrate**
Lidia GHIMPU¹, Victor SUMAN¹, Ionut Radu TIGOIANU², Anton AIRINEI²
¹Technical University of Moldova, Institute of Electronic Engineering and Nanotechnologies
²"Petru Poni" Institute of Macromolecular Chemistry, Laboratory of Physical Chemistry of Polymers
- P_{II-I-4} Optimization of the synthesis reactions for some acyl-derivatives based on L-glutamine**
Anastasia Andrada DOROHOI¹, Radita APARASCHIVEI², Delia GREBINISAN³, Dana Ortansa DOROHOI⁴, Dan-Gheorghe DIMITRIU⁴, Corina CHEPTEA⁵
¹"Ion Ionescu de la Brad" University of Life Sciences, Faculty of Food and Animal Sciences
²"Alexandru Ioan Cuza" Secondary School
³"Garabet Ibraileanu" School
⁴"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
⁵"Grigore T. Popa" University, Medical Bioengineering Faculty
- P_{II-I-5} Solvatochromic study of some zwitterionic compounds**
Corina CHEPTEA¹, Antonina GRITCO-TODIRASCU², Dan Gheorghe DIMITRIU³, Dana Ortansa DOROHOI³
¹"Grigore T. Popa" University, Medical Bioengineering Faculty
²Ion Creangă Gymnazial School
³"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
- P_{II-I-6} Titanium dioxide based composite materials with antibacterial properties**
Timeea-Anastasia CIOBANU¹, Diana SERBEZEANU², Cristina Mihaela RIMBU³, Ioana RADU¹, Felicia GHEORGHIU⁴, Georgiana BULAI⁵, Mihai Alexandru CIOLAN⁴, Mirela AIRIMIOAEI¹
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²"Petru Poni" Institute of Macromolecular Chemistry
³University of Life Sciences Iasi, Department of Public Health
⁴"Alexandru Ioan Cuza" University of Iasi, ICI-RAMTECH
⁵"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

P_{II-I-7} Design of biocompatible chitosan nanofibers for wound healing
Ramona LUNGU¹, Alexandru ANISIEI¹, Irina ROSCA¹, Andreea-Isabela SANDU¹, Daniela AILINCAI¹, Luminita MARIN¹
¹"Petru Poni" Institute of Macromolecular Chemistry

P_{II-I-8} A novel deoxycolyl-tryptophan conjugate: synthesis and characterization
Andra-Diana GOCIU¹, Brindusa Alina PETRE^{1,2}, Dumitrelea DIACONU^{1,3}, Vasile Robert GRADINARU¹
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²Regional Institute of Oncology, TRANSCEND Center Iasi
³"Alexandru Ioan Cuza" University of Iasi, RECENT AIR

Section P_{II-II} - "Vasile Arvinte" Hall – Room 2

Section chair

Assistant Prof. Dumitrelea DIACONU

P_{II-II-1} Unexpected cyclization of phthalazinium quaternary salt in the presence of hydrazine hydrate
Marius SAVU¹, Vasilichia ANTOCI¹, Dorina AMARIUCAI-MANTU¹, Dumitrelea DIACONU^{1,2}, Catalina-Ionica CIOBANU³, Ionel I. MANGALAGIU^{1,3}
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²"Alexandru Ioan Cuza" University of Iasi, RECENT AIR
³"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

P_{II-II-2} Innovative dual-tailed sulfonyl-pyrrolone linked compounds as promising anticancer agents
Ashraf Al-MATARNEH¹, Natalia SIMIONESCU², Vrabie RAFAELA³, Dumitrelea DIACONU¹, Cristina M. Al-MATARNEH², Mariana PINTEALA², Ionel I. MANGALAGIU¹
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³"Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection

P_{II-II-3} Solvatochromic analysis of Triton X-100 binary mixtures
Ecaterina AMBROSI¹, Alexandru ZARA¹, Dana Ortansa DOROHOI¹, Dan-Gheorghe DIMITRIU¹
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P_{II-II-4} Synthesis, characterization and application of luminol in forensic chemistry
Ema-Nicoleta CIRLAN¹, Vasile Robert GRADINARU¹
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P_{II-II-5} Synthesis of some thiosemicarbazones with the acetanilide fragment
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P_{II-II-6} Linear birefringence of thin anisotropic layers estimated based on the light polarization ellipse
Dana Ortansa DOROHOI¹, Dan-Gheorghe DIMITRIU¹
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

- P_{II-II-7} Excited state dipole moment of molecules with visible absorption spectra, estimated by variational method**
Dana Ortansa DOROHOI¹, Dan-Gheorghe DIMITRIU¹, Cezarina MOROSANU², Valentina CLOSCA³
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³"Eudoxiu Hurmuzachi" National College

- P_{II-II-8} Binary and ternary solutions of iso-quinolinium dicarbethoxy methylyde studied by spectral methods**
Daniela BABUSCA¹, Carmen ZELINSCHI², Andrei VLEOANGA³, Dana Ortansa DOROHOI⁴
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²"Vasile Adamachi" Agricultural and Food Industry College
³"Grigore T. Popa" University of Medicine and Pharmacy, Faculty of General Medicine
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Section P_{II-III} - "Irineu Mihălcescu" Hall

Section chair **Researcher 2 Laurentiu-Valentin SOROAGA**

- P_{II-III-1} Chromatographic analysis and toxicity evaluation of *Iris Pseudacorus* extracts**
Maria Daniela MIHAILA (IONICA)¹, Andreea Veronica BOTEZATU¹, Anna BUSUIOC¹, Bianca FURDUI¹, Rodica Mihaela DINICA¹
¹"Dunărea de Jos University" of Galati, Department of Chemistry, Physics and Environment

- P_{II-III-2} Determination of alkaloids of therapeutic interest from *Piper* species by HPTLC method and evaluation of their properties**
Anna BUSUIOC¹, Andreea-Veronica BOTEZATU¹, Maria Daniela MIHAILA (IONICA)¹, Bianca FURDUI¹, Rodica Mihaela DINICA¹
¹"Dunărea de Jos University" of Galati, Department of Chemistry, Physics and Environment

- P_{II-III-3} Synthesis and characterization of new imidazole derivatives containing flexible siloxane sequences**
Elena-Diana ROTARU¹, Mirela-Fernanda ZALTARIOV², Mihaela BALAN-PORCARASU², Mihaela AVADANEI², Alexandra BARGAN², Maria CAZACU², Dorina AMARIUCAI-MANTU¹
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- P_{II-III-4} Electronic properties and photocatalytic activity of FeOOH loaded onto Al_{3%}:SrTiO₃ photocatalyst**
Ioana RADU¹, Adrian Iulian BORHAN^{1,2}, Daniel GHERCA^{1,2}, Dana Georgeta POPESCU³, Camelia Nicoleta BORCA⁴, Thomas HUTHWELKER⁴, Marius-Adrian HUSANU³, Aurel PUI¹
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⁴Paul Scherrer Institut, Swiss Light Source

- P_{II-III-5} Study of the C-alkylation reaction for 1-benzylmethyl-4-hydroxymethyl-1,2,3-triazole**

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³"Petru Poni" Institute of Macromolecular Chemistry

P_{II-III-6} The reaction of N-phenacyl-pyridinium bromides with asymmetric olefinic dipolarophile

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P_{II-III-7} Texture and sensory attributes development in plant-based cheese-like alternatives from walnuts (*Juglans regia L.*)

Cristina POPOVICI¹, Viorica BULGARU²

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P_{II-III-8} Obtaining sea buckthorn fruit powder as a potential pharmaceutical raw material

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