



ALEXANDRU IOAN CUZA
UNIVERSITY of IAȘI



FACULTY of CHEMISTRY

Conference Program



6th
Edition



Oct 31-Nov 01, 2024 Iasi, Romania



31 Oct – 01 Nov 2024, Iasi
Romania

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

IasiCHEM 2024 Conference

6th Edition

Chair

Prof. Cecilia ARSENE

Co-Chairs

Prof. Romeo Iulian OLARIU

Prof. Ionel I. MANGALAGIU

Prof. Aurel PUI

Assoc. Prof. Alin Constantin DIRTU

Scientific Committee

President: Prof. Ramona DANAC

Prof. Doina HUMELNICU

Prof. Costel MOLDOVEANU

Assoc. Prof. Iustinian-Gabriel BEJAN

Assoc. Prof. Simona Maria CUCU-MAN

Assoc. Prof. Ionel HUMELNICU

Assoc. Prof. Maria IGNAT

Assoc. Prof. Brindusa-Alina PETRE

Researcher 2 Claudiu ROMAN

Organizing Committee

President: Prof. Cecilia ARSENE

Assoc. Prof. Dalila BELEI

Assoc. Prof. Nicoleta CORNEI

Assoc. Prof. Dorina AMARIUCAI-MANTU

Researcher 2 Alina-Giorgiana NEGRU

Secretaryship

Assistant Prof. Dumitrelea DIACONU

Researcher 2 Laurentiu-Valentin SOROAGA

Researcher 2 Cornelia AMARANDEI

PhD Stud. Roxana CIORTEANU



31 Oct – 01 Nov 2024, Iasi
Romania

Faculty of Chemistry
"Alexandru Ioan Cuza" University of Iasi
Inorganic Chemistry Professor Organic Chemistry
Conference IasiCHEM2024 6th Edition
Researcher Physical Chemistry Environmental Chemistry Student
Medical 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.

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 SARGHIE,
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

¹IMT 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 **Photocatalytic activity of N-doped ZrO₂ thin films under UV light on the rhodamine B and methylene blue**
15¹⁰-15²⁵

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

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

Davide VIONE¹

¹University of Turin, Department of Chemistry

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

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

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}

¹"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

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

³"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

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}

¹"Alexandru Ioan Cuza" University of Iasi, RECENT AIR

²"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

³"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

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

Brindusa Alina PETRE^{1,2,3}, Madhuri JAYATHIRTHA², 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 P_I-I - "Vasile Arvinte" Hall

Section chair

Researcher 2 Alina-Giorgiana NEGRU

- P_I-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
- P_I-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
- P_I-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
- P_I-I-4 Photodegradation efficiency and kinetics of Rhodamine B and Methylene blue using ZrO₂-xN_y thin film photocatalyst**
Carmen MITA¹, Nicoleta CORNEI¹, 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
- P_I-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
- P_I-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

P_I-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*

P_I-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}

¹ *"Alexandru Ioan Cuza" University of Iasi, RECENT AIR*

² *"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM*

³ *"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry*

Section P_I-II - "Vespasian Pella" Hall

Section chair

Assistant Prof. Dumitrelea DIACONU

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

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

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

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

Cristian-Dragos 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*

P_I-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

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

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

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

⁴ *"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM*

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

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

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

² *"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM*

³ *"Petru Poni" Institute of Macromolecular Chemistry*

⁴ *"Alexandru Ioan Cuza" University of Iasi, RECENT AIR*

P_I-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

P_{I-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

P_{I-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

P_{I-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 P_{I-III} - "Trineu Mihălcescu" Hall

Section chair Researcher 2 Laurentiu-Valentin SOROAGA

P_{I-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}

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_{I-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

P_{I-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

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

²"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

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

P_I-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

P_I-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

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

Lucian BAHRAIN¹, Dana BEJAN¹, Andrei DASCALU¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Intelcentru

P_I-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

P_I-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-Georgiana NEGRU^{2,3}, Romeo-Iulian OLARIU^{1,2,3}, Cecilia ARSENE^{1,2,3}

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

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 deoxycetyl-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
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²"Petru Poni" Institute of Macromolecular Chemistry, Center of Advanced Research in Bionanoconjugates and Biopolymers
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
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

P_{II-II-4} Synthesis, characterization and application of luminol in forensic chemistry
Ema-Nicoleta CIRLAN¹, Vasile Robert GRADINARU¹
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry

P_{II-II-5} Synthesis of some thiosemicarbazones with the acetanilide fragment
Iulia GRIBANOVA¹, Roman RUSNAC¹, Aurelian GULEA¹
¹Moldova State University, Institute of Chemistry, Laboratory of Advanced Materials in Biopharmaceutics and Technics

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
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
²"Petru Rares" National College
³"Eudoxiu Hurmuzachi" National College
- P_{II-II-8} Binary and ternary solutions of iso-quinolinium dicarbethoxy methylide studied by spectral methods**
Daniela BABUSCA¹, Carmen ZELINSCHI², Andrei VLEOANGA³, Dana Ortansa DOROHOI⁴
¹"Alexandru Vlahuta" School
²"Vasile Adamachi" Agricultural and Food Industry College
³"Grigore T. Popa" University of Medicine and Pharmacy, Faculty of General Medicine
⁴"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

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
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²"Petru Poni" Institute of Macromolecular Chemistry
- 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
¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry
²National Institute of Research and Development for Technical Physics
³National Institute of Materials Physics
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**

Codruta FRINCUL¹, Elena BICU¹, Catalina-Ionica CIOBANU², Sergiu SHOVA³, Dalila BELEI¹

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

²"Alexandru Ioan Cuza" University of Iasi, ICI-CERNESIM

³"Petru Poni" Institute of Macromolecular Chemistry

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

Madalina-Roxana BIRTEA¹, Elena BICU¹, Sergiu SHOVA², Dalila BELEI¹

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

²"Petru Poni" Institute of Macromolecular Chemistry

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

Cristina POPOVICI¹, Viorica BULGARU²

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

²Technical University of Moldova, Faculty of Food Technology, Department of Food Technology

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

Vladislav BLONSCHI¹, Carolina GRIGORAS¹, Gheorghe DUCA², Simona NICA³, Crina VICOL²

¹Moldova State University, Department of Industrial and Ecological chemistry "Acad. Gh. Duca"

²Moldova State University, Institute of Chemistry

³"C. D. Nenitescu" Institute of Organic and Supramolecular Chemistry

Partners



Sponsors

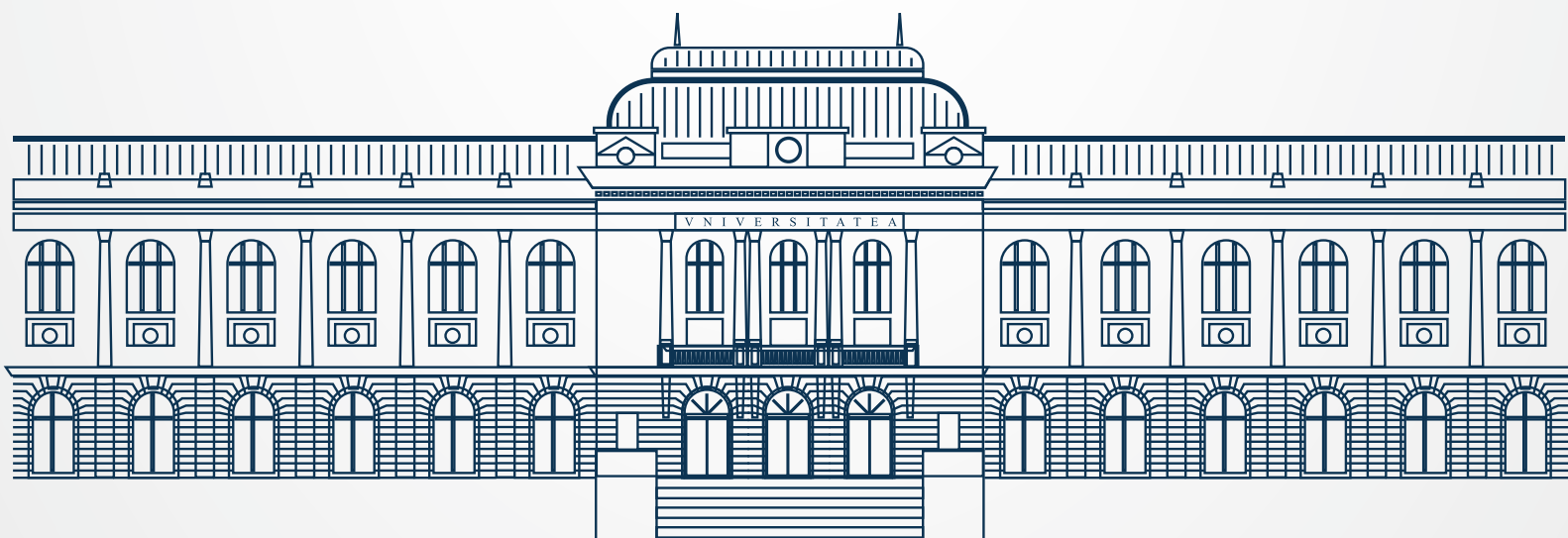


1860-2024

164



ALEXANDRU IOAN CUZA
UNIVERSITY of IAȘI



<http://www.chem.uaic.ro/ro/manifestari/zu-2024>