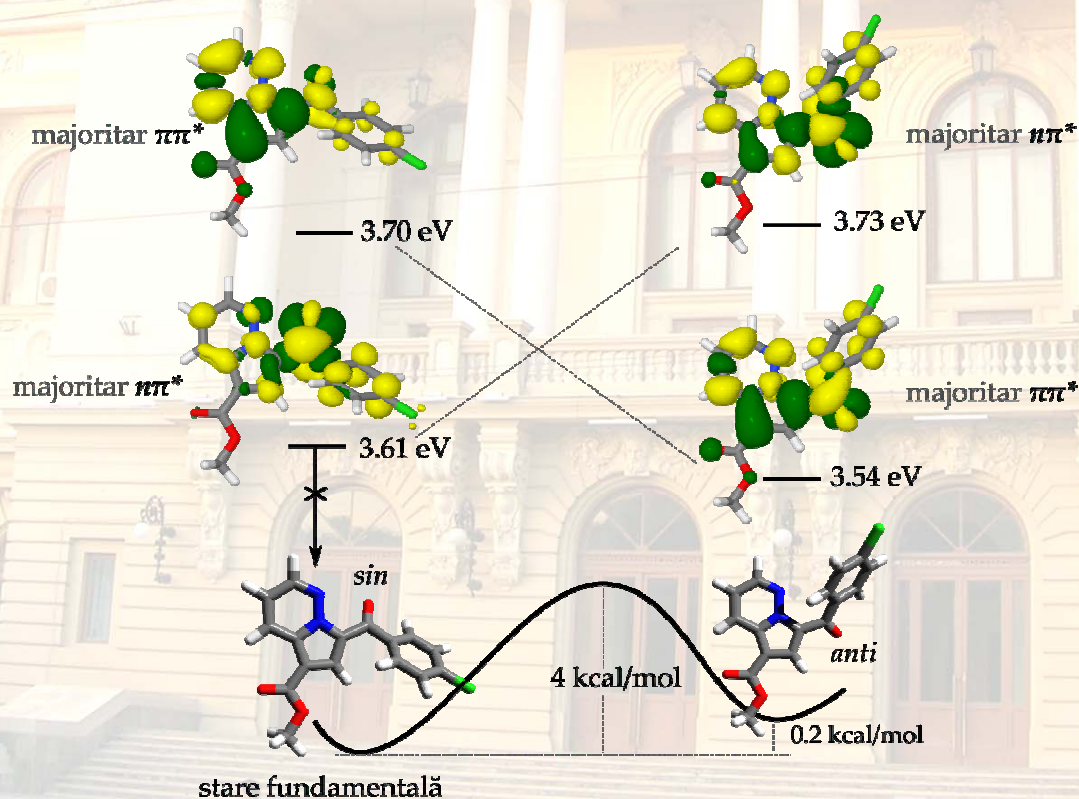




“Alexandru Ioan Cuza” University Days

Faculty of Chemistry Conference

Program



Iași,
October 31st – November 1st, 2014, 2014

“Alexandru Ioan Cuza” University Days

Faculty of Chemistry Conference

Program

**Iasi,
October 31st – November 1st, 2014**

Registration of the participants starts on:

Thursday October 30th: 12⁰⁰-14⁰⁰

(Faculty Hall Concil)

Faculty of Chemistry Conference

Scientific Committee

President: Prof. PhD. Ionel Mangalagiu

Acad. Prof. Marius Andruh

Acad. Prof. eng. Bogdan Simionescu

Acad. Prof. Cristian Silvestru

Prof. PhD. eng. Dan Cascaval

Prof. PhD. Gabi Drochioiu

Prof. PhD. Romeo-Iulian Olariu

Assoc. Prof. PhD. Doina Humelnicu

Assoc. Prof. PhD. Adrian Birzu

Organizing committee

Prof. PhD. Aurel Pui

Assoc. Prof. PhD. Ionel Humelnicu

Assoc. Prof. PhD. Habil. Cecilia Arsene

Assoc. Prof. PhD. Ramona Dănac

Secretaryship

Assoc. Prof. PhD. Nicoleta Cornei

ACS. PhD. Catalina-Ionica Ciobanu

Admin. Eng. Vasile Vatra

PhD. Stud. Constantin Virlan

Scientific Program

Day 1

Friday, October 31st

Location: Faculty of Chemistry, Lecture Hall P3

Registration of the participants

08³⁰-09⁰⁰

Display of posters (P1 - P40)

The Hall of the Echoing Footsteps

09⁰⁰-09¹⁰

Opening ceremony

Welcome address: Prof. Ph.D. **Ionel Mangalagiu**,
Dean, Faculty of Chemistry

Celebration of:

Prof. Ph.D. Neculai Bâlbă

Prof. Ph.D. Gelu Bourceanu

09¹⁰-09³⁰

Prof. Ph.D. Gheorghe Mihăilă

Prof. Ph.D. Tinca Onofrei

Prof. Ph.D. Valeriu Șunel

09³⁰-09⁴⁰

Nobel Prize for Chemistry 2014

presented by Associate Prof. Ph.D. Mircea Apostu

Session 1

Plenary lectures

Chairpersons: Prof. Ph.D. Gabi Drochioiu

Prof. Ph.D. Aurel Pui

CO1

09⁴⁰-10⁰⁰

In memoriam Profesor Lucia Odochian -

**Contribuții aduse la dezvoltarea tehnicii de analiză
termică cuplată cu spectrometria de infraroșu în
vederea studiului compușilor micro- și
macromoleculari**

C. Moldoveanu¹

C1

10⁰⁰-10⁴⁰

**The separation of biosynthetic products by
pertraction**

Invited Professor D. Cascaval², A.-I. Galaction³

²"Ghe. Asachi" University of Iasi, Romania

³"Gr. T. Popa" University of Medicine and
Pharmacy, Faculty of Medical Bioengineering, Iasi,
Romania

SC1

10⁴⁰-10⁵⁰

**Controlled synthesis of water-soluble HPAM-NAS
copolymer via RAFT polymerization and post-
polymerization modification reactions**

I. M. Simionca^{4,5}, J. Moraes⁵, H. Ketari⁵, M.

Pinteala⁴, H. A. Klok⁵

SC2

10⁵⁰-11⁰⁰

**Maleic acid copolymers for the preparation of
stimuli-sensitive microparticles**

I. Popescu⁴, Ghe. Fundueanu⁴

11⁰⁰-11³⁰

POSTER SESSION

COFFEE BREAK

Session 2

Plenary lectures

Chairpersons: Assoc. Prof. Ph.D. Ramona Danac
Assoc. Prof. Ph.D. Adrian Birzu

- C2**
11³⁰-12¹⁰ *Initial conditions and laws of nature*
G. Bourceanu¹, “Alexandru Ioan Cuza” University of Iasi
- CO2**
12¹⁰-12³⁰ *Gas-phase absorption cross sections of selected aromatic hydrocarbons in the IR spectral ranges*
R. I. Olariu¹, C. Arsene¹, I. Barnes⁶, B. Klotz⁶, K. H. Becker⁶
- CO3**
12³⁰-12⁵⁰ *Structure – rheological properties relationships in thermo-sensitive polymers*
M. Danu⁴, A. D. Rusu^{2,7}, L. Rocha⁷, N. Hurduc², B. C. Simionescu^{2,4}, C. Ibanescu^{2,4}
- CO4**
12⁵⁰-13¹⁰ *Influence of TiO₂ and Ag/Au nanoparticles on morphological, thermal, mechanical and catalytic properties of some hybrid composites*
A. L. Chibac^{1,4}, V. Melinte⁴, T. Buruiana⁴, I. Mangalagiu¹, E. C. Buruiana⁴
- SC3**
13¹⁰-13²⁰ *Cationic polysaccharides: Synthesis, characterization and application of quaternary ammonium salts of curdlan*
D. M. Suflet⁴
- SC4**
13²⁰-13³⁰ *Lysosomal storage disease. Characterization and diagnostics of MPS II and MPS VI*
L. Ion^{1,8}, C. Cozma⁸, C. Andries^{1,8}, G. Drochioiu¹, M. Przybylski⁸, B. A. Petre^{1,8}

13³⁰-14³⁰

POSTER SESSION

LUNCH

Session 3

Plenary lectures

Chairpersons: Assoc. Prof. Ph.D. habil. Cecilia Arsene
Ph.D. Oleg Palamarciuc

- C3**
14³⁰-15¹⁰ *Macrocyclic coordination compounds of some metals based on 2,6- diformylthiophenol*
V. Lozan⁹, Institute of Chemistry, Academy of Sciences of Moldova
- CO5**
15¹⁰-15³⁰ *Distribution of mixing efficiency in a split-cylinder air-lift bioreactor for Y. lipolytica suspensions*
R. M. Matran², A. C. Blaga², M. Turnea³, A. I. Galaction³, D. Cascaval²
- CO6**
15³⁰-15⁵⁰ *Heterometallic aminopolycarboxylates as molecular precursors for mixed-oxides*
I. Bulimestru¹⁰, N. Popa¹⁰, N. Cornei¹
- SC5**
15⁵⁰-16⁰⁰ *Photopolymerizable hybrid composites containing silver nanoparticles*
V. E. Podasca⁴, T. Buruiana⁴, E. C. Buruiana⁴
- SC6**
16⁰⁰-16¹⁰ *In vitro testing of polyvinyl alcohol/chitosan hydrogels as systems for controlled delivery of bisoprolol fumarate*
D. Pamfil⁴, E. Parparita⁴, C. N. Yilmaz⁴, O. Yilmaz¹¹, C. Vasile⁴

16¹⁰-16⁴⁰

POSTER SESSION

COFFEE BREAK

Session 4

Plenary lectures

Chairpersons : Prof. Ph.D. Romeo-Iulian Olariu
Ph.D. Vasile Lozan

- C4**
16⁴⁰-17²⁰ *Supramolecular chemistry: The effect of permodified cyclodextrin encapsulations in photophysical and morphological properties of conjugated polymers for organic electronics applications*
A. Farcas⁴, “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania
- CO7**
17²⁰-17⁴⁰ *Activation of the thiosemicarbazide fragment by coordination with transition metals*
O. Palamarcuic^{10,1}, T. Palamarcuic¹⁰, E. Stratulat^{10,1}, M. Secu¹⁰, A. Sirbu¹⁰, S. Sova^{10,4}, A. Pui¹
- CO8**
17⁴⁰-18⁰⁰ *New investigations on the gas phase reactions important for atmosphere*
I. Bejan^{12,6}, I. Barnes¹², P. Seakins⁶
- 18³⁰ *Cocktail (Vanatorul Restaurant)*

Scientific Program

Day 2

Saturday, November 1st

Location: Faculty of Chemistry, Lecture Hall P3

- 08³⁰-09⁰⁰ *Display of posters (P41 – P56)*
The Hall of the Echoing Footsteps
- Session 5**
- Plenary lectures
Chairpersons: Prof. Ph.D. Ionel Mangalagiu
Assoc. Prof. Ph.D. Doina Humelnicu
- CO9**
09⁰⁰-09²⁰ *The identification of the materials used in a panel painting icon*
R. Cristache¹³, I. Sandu¹³, V. Vasilache¹³
- CO10**
09²⁰-09⁴⁰ *Effect of temperature on aliphatic–aromatic polyimides*
C.–D. Varganici⁴, D. Rosu⁴, C. Barbu–Mic^{4,2}, L. Rosu⁴, D. Popovici⁴, C. Hulubei⁴, B. C. Simionescu^{4,2}
- CO11**
09⁴⁰-10⁰⁰ *Polymeric adsorbents with covalently immobilized ionic liquid-like fragments for retention of metal ions*
G. Moroi⁴, E. Avram⁴
- CO12**
10⁰⁰-10²⁰ *Metallopolymeric systems based on polyesterurethane and iron ions: Synthesis and characterization*
G. Moroi⁴
- CO13**
10²⁰-10⁴⁰ *Magnetic Nanocomposites PLGA/Magnetite*
N. Tudorachi⁴, A. P. Chiriac⁴, G. Lisa², V. Balan³, L. Nita⁴

- SC7 *Molecular characterization of eosinophil peroxidase peptide by mass spectrometry*
 10⁴⁰-10⁵⁰ C. Andries^{1,8}, G. Drochioiu¹, M. Przybylski⁸, B. A. Petre^{1,8}
- SC8 *The in vitro testing of xanthan/lignin hydrogels as carriers for controlled delivery of bisoprolol fumarate*
 10⁵⁰-11⁰⁰ I. E. Raschip⁴, D. Pamfil⁴, C. Vasile⁴
- SC9 *Synthesis and characterization of poly(arylene ethynylene)s containing indol[3,2-b]carbazole moieties*
 11⁰⁰-11¹⁰ O. I. Negru⁴, A. M. Catargiu⁴, M. Grigoras⁴
- SC10 *Phenothiazine derivatives. The influence of the substituent upon optical and electrochemical properties*
 11¹⁰-11²⁰ A. Bejan^{4,1}, D. Belei¹, L. Marin⁴
- SC11 *Poly(vinyl alcohol) copolymers biodegradation with Trichotecium roseum fungi*
 11²⁰-11³⁰ R. Lipsa⁴, N. Tudorachi⁴, A. Grigoras⁴, C. Vasile⁴, P. Gradinariu³⁹, A. P. Chiriac⁴, F. Mustata⁴

POSTER SESSION

COFFEE BREAK

AWARDS FOR THE BEST PARTICIPANTS

11³⁰-11⁵⁰

11⁵⁰

12⁰⁰ **Workshop- Location: Lecture Hall P3**

"Progres reports to grant POSDRU/159/1.5/S/137750"

Prof. Ph.D. Ghe. Aniculaiesei, manager proiect
 Prof. Ph.D. Ionel Mangalagiu, ETL domeniul chmie

POSTERS

- P1 *Physico-chemical forensic expertise in the analysis of soil samples by graphite furnace atomic absorption spectrometry*
G. Mardare (Balusescu)¹, L. V. Soroaga¹, L. S. Marin¹, M. C. Agafitei¹, C. Arsene¹, R. I. Olariu¹
- P2 *Water soluble organic carbon in aerosols from Iasi, north-eastern Romania*
M. Petrea-Ioneasa¹, R. I. Olariu¹, C. Arsene¹
- P3 *Multicriteria analysis applied to bioplastics and bioenergy production from waste*
E. D. Comanita², C. Ghinea², C. Smaranda², R. M. Hlihor², I.M. Simion², M. Gavrilescu^{2,14}
- P4 *Analysis of environmental impacts of municipal solid waste*
 C. Ghinea², D. E. Comanita², M. Petraru², M. Gavrilescu^{2,14}
- P5 *Induced Processes in Cellulose Derivative Systems*
M.-D. Onofrei⁴, A. M. Dobos⁴, S. Ioan⁴
- P6 *Polyimide/iron oxide composites. Synthesis and characterization*
S.-L. Nica⁴, V. Nica¹⁵, V. C. Grigoras⁴, C.-D. Varganici⁴, D. Popovici⁴, C. Hulubei⁴, S. Ioan⁴
- P7 *Thin Gold Layers Sputtered on Quaternized Polysulfone Substrate Modified by Low Pressure Plasma Treatment*
R. M. Albu⁴, E. Avram⁴, E. G. Ioanid⁴, I. Stoica⁴, S. Ioan⁴
- P8 *Phosphorus-containing polysulfones for high-performance applications in advanced technologies*
 L. I. Buruiana⁴, S. Ioan⁴
- P9 *Packaging influence on coffee quality through measurements of relevant physico-chemical parameters*
A. Buculei¹⁶, L. C. Apostol¹⁶
- P10 *Evaluation of Optical and Dielectric Properties of Polystyrene/BaTiO₃ Nanocomposites*
A. I. Barzic⁴, R. F. Barzic¹⁷
- P11 *Evaluation of untreated biomass of Phaseolus vulgaris L. as potential biosorbent for organic dyes*
C. Smaranda², L. C. Apostol^{2,16}, E. D. Comanita², M. Gavrilescu^{2,14}
- P12 *Green composites comprising starch and natural fillers: structure and properties investigation*
C.-A. Teaca⁴, I. Spiridon⁴, N. Tudorachi⁴, R. Bodirlau⁴

- P13** *Wood treatment with vegetable oils and its protective effect under environmental factors action*
R. Bodirlau⁴, C.-A. Teaca⁴, E. Marlica⁴, L. Rosu⁴, D. Rosu⁴
- P14** *Polymers with biopassive and bioactive properties*
M. Zanoaga⁴, F. Tanasa⁴
- P15** *Composite scaffolds with interconnected pores*
F. Tanasa⁴, M. Zanoaga⁴
- P16** *Transfection capacity of PEI-based nanovehicles depending on their molecular architecture*
C. M. Uritu⁴, R. Ardeleanu⁴, L. Ursu⁴, M. Calin¹⁸, V. Simion¹⁸, M. Pinteala⁴
- P17** *Mesoporous silica (SBA-15) as adsorbent for removal of dyes from wastewaters*
D. Suteu², B. Dragoi², A. Ungureanu²
- P18** *New mechanistic insights on the cycloaddition of the benzimidazolium ylides with alkynes*
C. Moldoveanu¹, Ghe. Zbancioc¹, D. Mantu¹, V. Bejan¹, D. Maftai¹, I. Mangalagiu¹
- P19** *Microwave assisted synthesis of benzofuran derivatives*
A. M. Zbancioc^{1,19}, G. Tatarina¹⁹, C. Moldoveanu¹, Ghe. Zbancioc¹, I. Mangalagiu¹
- P20** *New complexes of 5-(3-Pyridyl)-4H-1,2,4-triazole-3-thiol with Co(II), Ni(II), Mn(II), Cu(II) ions: Synthesis, structure and magnetic properties*
P. Gospei (Horlescu)², D. Sutiman², C. Mita¹, M. Fortuna⁴, C. Stan⁵
- P21** *Influence of Pb substitution with Sr on the magnetic/crystalline structure and transport properties of La_{0.5}Pr_{0.2}Pb_{0.3}MnO₃ manganites*
N. Cornei¹, M.-L. Craus^{20,21}, C. Mita¹, A. Islamov²¹, E. M. Anitas^{21,22}, V. Dobrea²⁰
- P22** *The study of oxygen mass transfer in tetraphasic systems: gas-liquid-liquid-solid in stirred bioreactors*
C. Ciobanu², A. C. Blaga², A. Tucaliuc², O. Farcasi², D. Cascaval², A.I. Galaction³
- P23** *Study on synergic reactive extraction of vitamin B9*
A. Bompa², L. Kloetzer², A. Tucaliuc², D. Cascaval², A. I. Galaction³

- P24** *Selective separation of acetophenone and methylbenzylamine from their mixture by extraction*
L. Kloetzer², M. Postaru³, A. C. Blaga², B. Mihasan², A. I. Galaction³, D. Cascaval²
- P25** *Synthesis and structure of new 1,10-phenantroline derivatives*
M. C. Al-Matarneh¹, A. Chirciu¹, M. Apostu¹, R. Danac¹
- P26** *High yield photocatalytic degradation of pesticide contaminants by ferrite nanoparticles*
M. Zaharia¹, A. Cosma¹, A. Pui¹, R. Gradinaru¹, Ghe. Zbancioc¹, M. Murariu⁴, G. Drochioiu¹
- P27** *Metal-Organic Frameworks Based on pyridine-2,6-dicarboxylic Acid as Ligand*
D. Humelnicu¹, M. O. Apostu¹, G. Lisa², I. Humelnicu¹
- P28** *Synthesis and structure particularities of two new coordination polymers of Zinc(II) and Cobalt(II) with 1,2,3-benzenetricarboxylic acid and 1,4-bis((1H-imidazol-1-yl)methyl)benzene*
I. Voda⁹, V. Druta⁹, C. Indricean⁹, V. Lozan⁹, S. Shova⁹, C. Turta⁹
- P29** *Preparation by citrate combustion and characterization of the double perovskite oxides Ca₂BMoO₆ (B = Cr, La, Sm)*
I. A. Gorodea¹
- P30** *Synthesis and structure of new compounds with 1,10-phenantroline and 2,2'-bipyridine skeletons*
A. Olaru¹, C. Filip¹, M. Apostu¹, R. Danac¹
- P31** *DNA interactions with tannic acid and it's titanium complex*
R. Tarus¹, P. Atanasova²³, A. Surleva²³, R. Gradinaru¹
- P32** *Metal heterocyclic complexes in polysiloxane matrix*
A.-M.-C. Dumitriu⁴, G. Stiubianu⁴, M. Cazacu⁴
- P33** *New compound of Ce(III) with Keggin monolacunary polyoxometalate*
D. Humelnicu¹, M. Ferbinteanu²⁴, P. Badica²⁵, I. Humelnicu¹
- P34** *Cobalt influence on crystalline structure and transport properties of La_{0.9}Sr_{0.1}Cr_{1-x}Co_xO₃*
C. Mita¹, M.-L. Craus^{20,21}, N. Cornei¹, M. Ignat¹, G. Nemtoi¹ and V. Dobrea²⁰

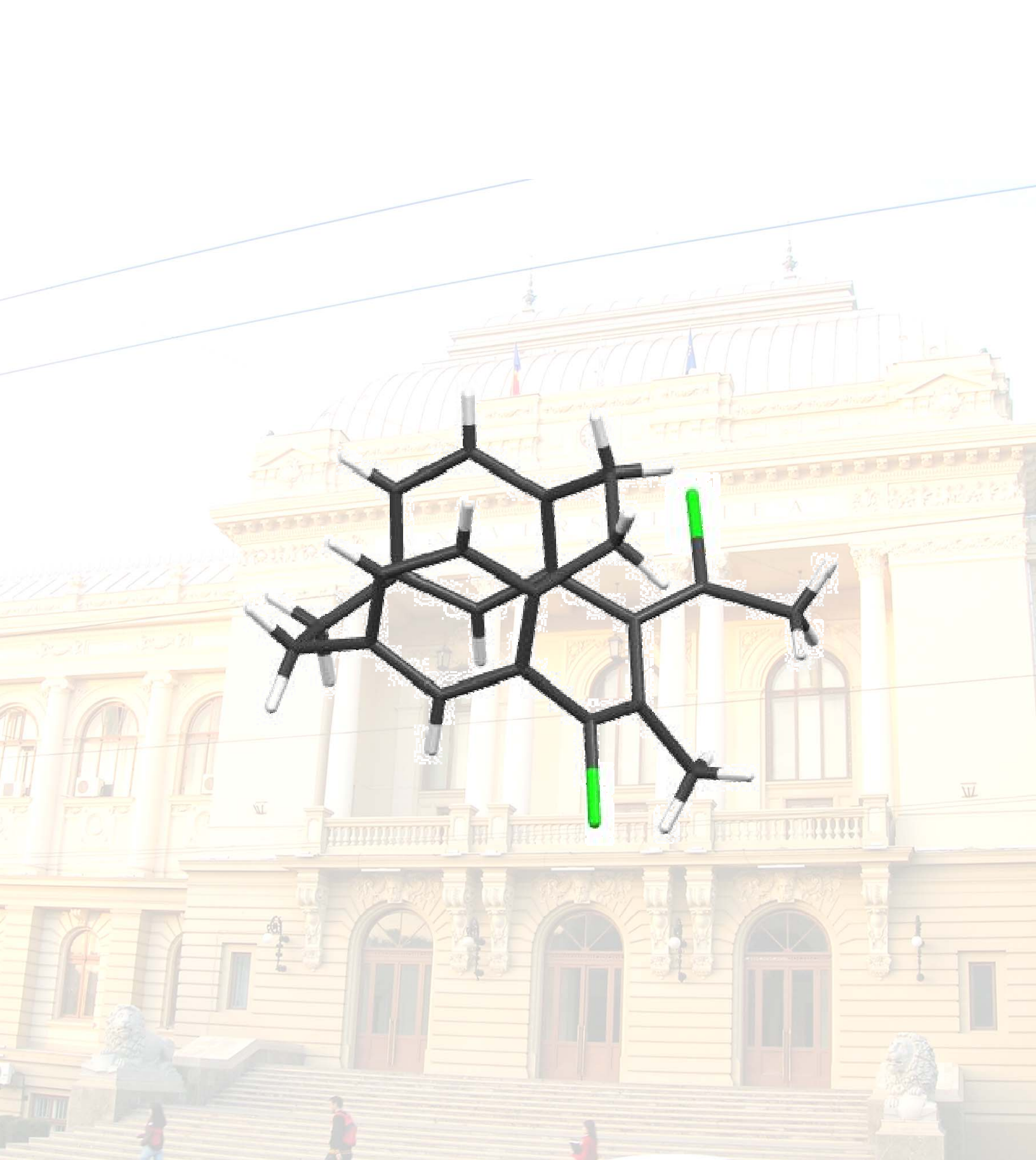
- P35** **Atmospheric deposition of copper and zinc in Maramures county**
C. Butean²⁶, Z. M. Berinde²⁶, C. Mihali²⁶, A. Michnea²⁷, A. Gavra²⁷, M. Simionescu²⁷
- P36** **Synthesis and characterization of new mutant peptides used for understanding the conformational changes related to Alzheimer disease**
C. I. Ciobanu¹, M. Murariu⁴, L. Habasescu¹, M. Mihai⁴, G. Drochioiu^{1,4}
- P37** **Optimal tosylation parameters for β -cyclodextrin functionalization**
S. Bucur¹, C. Peptu⁴, M.-L. Birsa¹, N.-C. Lungu¹
- P38** **ATR-FTIR, a non-invasive tool to investigate keratin from human fingernails**
A. Coroaba⁴, A. Chiriac²⁸, C. Solovan²⁹, B. C. Simionescu⁴, M. Pinteala⁴
- P39** **New Tetrathiafulvalene Derivatives Substituted with [2.2]Paracyclophanes**
L. G. Sarbu¹, H. Hopf³⁰, M. L. Birsa^{1,30}
- P40** **X-Ray evidence of cyclic and acyclic phthalazinic derivatives with vinyl chain**
V. Antoci¹, D. Mantu¹, M.-O. Apostu¹, C. Moldoveanu¹, Ghe. Zbancioc¹, I. I. Mangalagiu¹
- P41** **Synthesis and characterization of new anthracene-based imidazolium salts**
D. Mantu¹, V. Antoci¹, C. Moldoveanu¹, Ghe. Zbancioc¹, I. I. Mangalagiu¹
- P42** **The antifungal activity and cytotoxicity of MXP-4509, a new compound with pharmaceutical potential**
B. Minea⁴, D. Peptanariu⁴, M. Mares³¹, V. Nastasa³¹, R. F. Moraru³¹, M. Hancianu³², N. Marangoci⁴, M. Pinteala⁴
- P43** **Optimization of catalytic degradation of organic dyes in the presence of nanoferrites**
C. Virlan¹, D. Gherca¹, A. Pui¹
- P44** **Synthesis and characterization of $Mn_xCo_{1-x}Fe_2O_4$ by co-precipitation route and absorption of AuBSA NCs on the surface of magnetic NPs**
R.-G. Ciocarlan¹, D. Gherca¹, O. F. Caltun¹⁵, R. Hempelmann³³, A. Pui¹

- P45** **Stiffening porous inorganic materials in particulate form for polymeric composites**
A. Moise², O. Balaban², I. Toma², D. Cazan³⁴
- P46** **Multifunctional sandwich composites with possibilities to control the flexibility degree**
A. Moise², O. Balaban², I. Toma², D. Cazan³⁴
- P47** **Dushman reaction dynamics in the presence of Ce^{3+} and Mn^{2+} ions**
G. Bourceanu¹, G. Schmitz³⁵, I. Ungureanu¹, I. Humelnicu¹
- P48** **Molecular studies of some azobenzene derivatives**
D.-L. Isac⁴, D. Maftai¹, A. Airinei⁴, I. Humelnicu¹, N. Fifere⁴
- P49** **Compliance with the Romanian regulation of the quality indicators for the indoor swimming pool water samples: potential risks for human health?**
D. Dirtu^{1,36}, M. Pancu³⁶, M. L. Minea³⁶, T. Vremera^{36,19}, A. C. Dirtu¹
- P50** **Linear and nonlinear isotherm models for adsorption of heavy metal ions on functionalized polymeric materials: A comparative study**
G. Moroi⁴, E. Avram⁴
- P51** **Synthesis, structure and biological activity of Cu(II) coordination compounds with imidazole thiosemicarbazide derivatives**
E. Stratulat^{10,1}, O. Palamarciuc^{10,1}, A. Sirbu¹⁰, S. Sova^{10,4}, M. Pui⁴⁰
- P52** **A study about some parameters regarding the quality of water of Suceava River**
M. Cretu¹, I. Sandu¹, I. M. Risca¹⁶, V. Vasilache¹⁶
- P53** **Research on the use of ceramics in the process of drinking water**
M. A. Cretu¹, I. Sandu¹, V. Vasilache¹⁶
- P54** **SEM characterization of photocatalytic ZnO for air purification applications**
M. Sucheai^{1,37}, I. V. Tudose^{1,37}, N. Vrinceanu^{1,38}
- P55** **Nanostructured metal oxides for advanced applications**
M. Sucheai^{1,37}, I. V. Tudose^{1,37}, F. Iacomi¹, E. Koudoumas³⁷
- 56** **Obtaining biogas, formed during the processing of biomass on the basis of agricultural wastes.**
S. Marat⁴¹, K. Zhanar⁴¹

Legend

1. “Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, Romania
2. “Gheorghe Asachi” Technical University, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania
3. “Gr. T. Popa” University of Medicine and Pharmacy, Faculty of Medical Bioengineering, Iasi, Romania
4. “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania
5. École Polytechnique Fédérale de Lausanne (EPFL), Institut des Matériaux and Institut des Sciences et Ingénierie Chimiques, Laboratoire des Polymères, Bâtiment MXD, Lausanne, Switzerland
6. Bergische Universität Wuppertal, FB C - Physikalische Chemie, Wuppertal, Germany
7. CEA, LIST Saclay, Laboratoire Captures et Architectures Electroniques, France
8. Laboratory of Analytical Chemistry and Biopolymer Analysis, University of Konstanz, Germany
9. Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova
10. Department of Chemistry, Moldova State University, Chisinau, Moldova
11. Ege University, Faculty of Engineering, Leather Engineering Department, Bornova, Izmir, Turkey
12. University of Leeds, School of Chemistry, Leeds, UK
13. „Al. I. Cuza” University of Iasi, Faculty of Geography, Environmental Science, Iasi, Romania
14. Academy of Romanian Scientists, Bucharest, Romania
15. “Alexandru Ioan Cuza” University, Faculty of Physics, Iasi, Romania
16. “Stefan cel Mare” University of Suceava, Faculty of Food Engineering, Suceava, Romania
17. Department of Mechanics, “Gheorghe Asachi” Technical University, Iasi, Romania
18. “Nicolae Simionescu” Institute of Cellular Biology and Pathology, Bucharest, Romania
19. University of Medicine and Pharmacy Iasi “Grigore T. Popa”, Iasi, Romania
20. National Institute of Research and Development for Technical Physics, Iasi, Romania
21. Joint Institute of Nuclear Research, Dubna, Russia
22. Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucuresti-Magurele, Romania
23. Department of Chemistry, University of Chemical Technology and Metallurgy, Sofia, Bulgaria
24. University of Bucharest, Bucharest, Romania
25. National Institute of Materials Physics, Magurele, Romania

26. Department of Chemistry and Biology, Technical University of Cluj Napoca, North University Center of Baia Mare, Baia Mare, Romania
27. Environmental Protection Agency Maramures, Baia Mare, Romania
28. Apollonia University, Nicolina Medical Center, Dermatology, Iasi, Romania
29. “Victor Babes” University of Medicine and Pharmacy, Department of Dermatology, Timisoara, Romania
30. Institute of Organic Chemistry, Technical University of Braunschweig, Braunschweig, Germany
31. Laboratory of Antimicrobial Chemotherapy, “Ion Ionescu de la Brad” University, Iasi, Romania
32. Faculty of Pharmacy, University of Medicine and Pharmacy “Gr. T. Popa”, Iasi, Romania
33. Physikalische Chemie, Universitaet des Saarlandes, Saarbruecken, Germany
34. Technological High School “Petru Poni”, Iasi, Romania
35. Université Libre de Bruxelles, Brussel, Belgium
36. Regional Center of Public Health, Iasi, Romania
37. Center of Materials Technology and Laser, School of Applied Technology, Electrical Engineering Department, Technological Educational Institute of Crete, Heraklion, Greece
38. “Lucian Blaga” University of Sibiu, Department of Textile Technologies, Sibiu, Romania
39. Institute of Biological Research, Iasi, Romania
40. Otilia Cazimir School of Iasi
41. Auezov South-Kazakhstan State University, Shymkent, Kazakhstan.



ROFAROM
LABORATORY EQUIPMENTS

 **CERNESIM**
Centrul de studii în știința mediului
pentru regiunea de dezvoltare NE

 **SARTOROM**
Gămbăcă, Irineasa, Giurgiu