

# *IașiChem2017*

## *Chemistry Conference*

### *Scientific Committee*

**President: Prof. Ionel Mangalagiu**

Acad. Marius Andruh

Acad. eng. Bogdan Simionescu

M.c. Acad. Cristian Silvestru

Prof. eng. Dan Cascaval

Prof. Aurel Pui

Prof. habil. Cecilia Arsene

Prof. Gabi Drochioiu

Prof. Doina Humelnicu

### *Organizing Committee*

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Prof. habil. Romeo-Iulian Olariu

Assoc. Prof. Ramona Danac

Assoc. Prof. Mircea-Odin Apostu

Assoc. Prof. Nicoleta Cornei

### *Secretaryship*

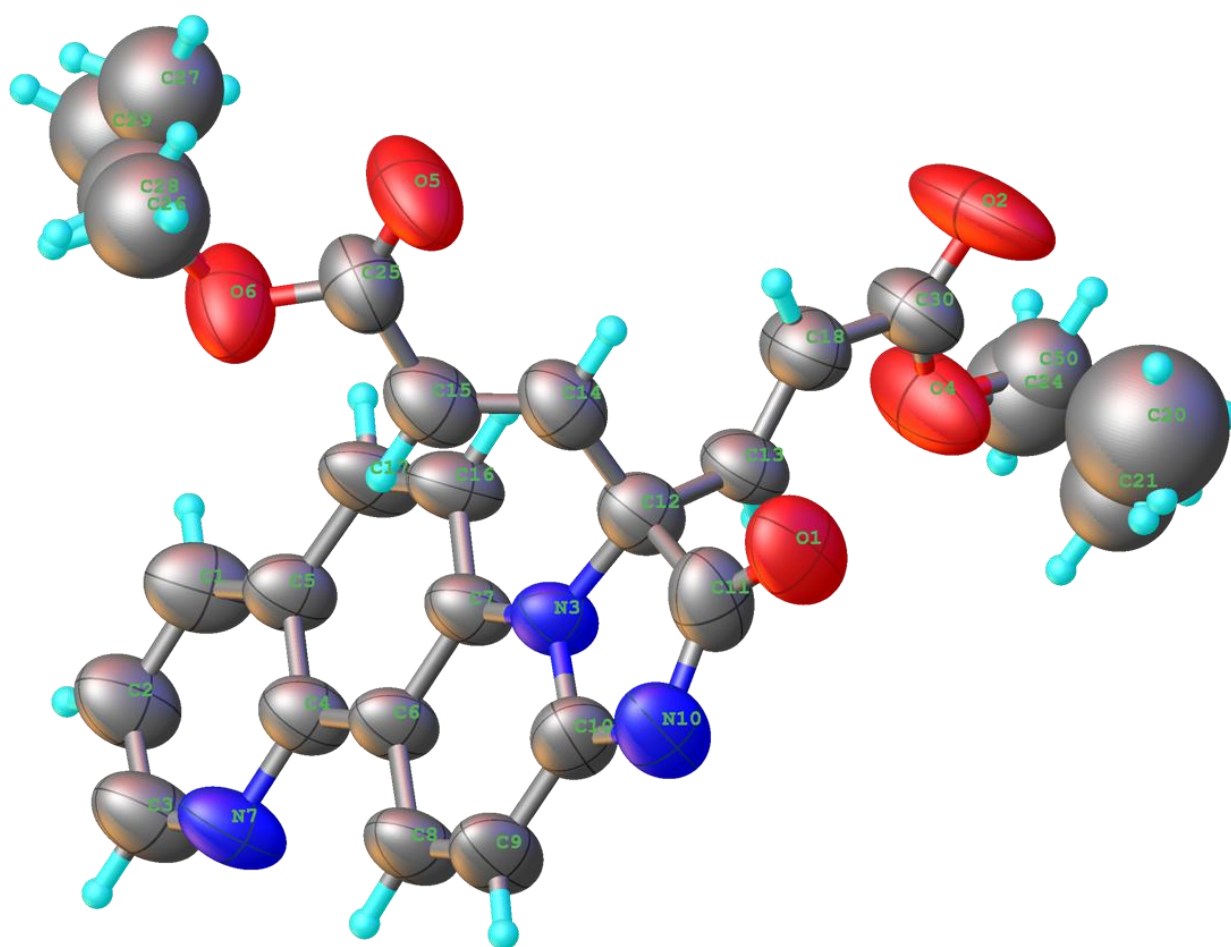
Lecturer Maria Ignat

Lecturer Dorina Amariuca-Mantu

CSIII Catalina-Ionica Ciobanu

Admin. Eng. Vasile Vatra

PhD. Stud. Claudiu Roman



# Scientific Program

## Day 1

*Thursday, October 26, Faculty of Chemistry, Lecture Hall P3*

13<sup>00</sup>-14<sup>15</sup> **Registration of the participants**

14<sup>15</sup>-14<sup>25</sup> *Opening Ceremony*

Dean Prof. Aurel Pui

14<sup>25</sup>-14<sup>40</sup> ***Our Professors - Celebration Moment***

14<sup>40</sup>-14<sup>50</sup> ***Nobel Prize for Chemistry 2017***

tribute by Assoc. Prof. Vasile-Robert Gradinaru

## Session 1

*Plenary lectures*

Chairpersons: Assoc. Prof. Marilena Ferbinteanu  
Prof. habil. Romeo-Iulian Olariu

**CP1** ***Polymetallic oxide-based hybrid materials obtained through sol-gel method***

14<sup>50</sup>-15<sup>30</sup>

A.R. Iordan<sup>1</sup>

**CO1** ***Efficient removal of methylene blue from aqueous solution using ionic biocomposites: Sorption and reusability studies***

15<sup>30</sup>-15<sup>50</sup>

M.M. Lazar<sup>2</sup>, M.V. Dinu<sup>2</sup>, E.S. Dragan<sup>2</sup>

**CO2** ***NMR Spectroscopy in chemistry – from isolated structures to complex mixtures***

15<sup>50</sup>-16<sup>10</sup>

G.L. Ailiesei<sup>2</sup>, A. Nicolescu<sup>2</sup>

**CO3** *Supramolecular assemblies in water based on ionic transition metal coordination complexes*

16<sup>10</sup>-16<sup>30</sup>

E.I. Szerb<sup>31</sup>, C. Cretu<sup>31</sup>, A.A. Andelescu<sup>31</sup>, L. Cseh<sup>31</sup>,  
O. Costisor<sup>31</sup>

**CO4** *Liganzi simetrici generatori de compusi coordinativi mono- si di-nucleari*

16<sup>30</sup>-16<sup>50</sup>

O. Cotisor<sup>31</sup>, R. Tudose<sup>31</sup>, I. Burta<sup>31</sup>, E Szerb<sup>31</sup>, L. Cseh<sup>31</sup>, C. Cretu<sup>31</sup>

**SC1** *Proteomic approach on LSDs enzymatic activity determination: single and multiplex assays*

16<sup>50</sup>-17<sup>00</sup>

C. Andries<sup>1,3</sup>, L. Ion<sup>1,3</sup>, C. Dimitriu<sup>4</sup>, M. Przybylski<sup>3</sup>, S. Maeser<sup>3</sup>, B.A. Petre<sup>1</sup>



17<sup>00</sup>-19<sup>00</sup> **Roundtable: Role and Importance of Chemistry**

## Scientific Program

### Day 2

*Friday, October 27, Faculty of Chemistry, Lecture Hall P3*

08<sup>30</sup>-09<sup>00</sup> **Registration of the participants**  
**Display of posters – *The Hall of the Echoing Footsteps***

### Session 1

*Plenary lectures*

Chairpersons: Assoc. Prof. Nicoleta Cornei  
Assoc. Prof. Ionel Humelnicu

**CI1** *Spin coupling and magnetic anisotropy in Mn(III) complexes: Weighing the fine balance of ligand field, spin orbit and lattice effects*  
09<sup>00</sup>-09<sup>40</sup>  
M. Ferbinteanu<sup>5</sup>

**CO5** *Chitosan/siloxane hybrid microspheres: preparation, characterization and ability to be used as drug delivery systems*  
09<sup>40</sup>-10<sup>00</sup>  
I.E. Bordianu-Antochi<sup>2</sup>, M. Olaru<sup>2</sup>, C. Cotofana<sup>2</sup>

**CO6** *Mechanical and moisture sorption-desorption characterization of poly(vinyl alcohol)-polysulfone/multiwall carbon nanotube composites*  
10<sup>00</sup>-10<sup>20</sup>  
S.L. Nica<sup>2</sup>, A. Bargan<sup>2</sup>, C. Gaina<sup>2</sup>

**SC2** *Theoretical study of the effects of heteroatom substitution on electronic spectra of selected heterocyclic compounds*  
10<sup>20</sup>-10<sup>30</sup>  
T. Chelariu<sup>1</sup>, D. Maftai<sup>1</sup>, I. Humelnicu<sup>1</sup>, I. Mangalagiu<sup>1</sup>

**SC3** *Hydrogels based on chitosan and 5-nitrosalicylaldehyde with potential antitumor activity for local cancer therapy*

10<sup>30</sup>-10<sup>40</sup>

A.M. Olaru<sup>1,2</sup>, L. Marin<sup>2</sup>, S. Morariu<sup>2</sup>, G. Pricope<sup>2</sup>, M. Pinteala<sup>2</sup>, L. Tartau-Mititelu<sup>6</sup>

**SC4** *Electrochemical performances of polyaniline-based composites obtained by in-situ chemical polymerization*

10<sup>40</sup>-10<sup>50</sup>

A.M. Solonaru<sup>2</sup>, M. Grigoras<sup>2</sup>

**SC5** *Refraction and dielectric features of some semi-alicyclic polyimides designed for liquid crystal displays*

10<sup>50</sup>-11<sup>00</sup>

R.M. Albu<sup>2</sup>, A.I. Barzic<sup>2</sup>, C. Hulubei<sup>2</sup>

## POSTER SESSION

11<sup>00</sup>-11<sup>30</sup>

## COFFEE BREAK

### Session 2

*Plenary lectures*

Chairpersons: Prof. Doina Humelnicu  
Prof. Gabi Drochioiu

**CI2** *Back to the basis! A critical revision of Gaussian basis sets*

11<sup>30</sup>-12<sup>10</sup>

F. Cimpoesu<sup>7</sup>

**CO7** *Aromatic hydrocarbon contribution to the secondary organic aerosol formation in urban atmosphere*

12<sup>10</sup>-12<sup>30</sup>

I. Bejan<sup>8</sup>

**CO8** *Tuning the photocatalytic performance of TiO<sub>2</sub> nanoparticles embed in polymer matrices by their combination with others inorganic components*

12<sup>30</sup>-12<sup>50</sup>

A.L. Chibac<sup>2</sup>, V. Melinte<sup>2</sup>, T. Buruiana<sup>2</sup>

**SC6** *Impact of solvent type on rheological behavior of hydroxypropylmethyl cellulose solutions*  
12<sup>50</sup>-13<sup>00</sup>

A.I. Barzic<sup>2</sup>, R.M. Albu<sup>2</sup>, L.I. Buruiana<sup>2</sup>

**SC7** *Synthesis and characterization of spinel type compounds  $ACr_2O_4$  (A= Ni, Zn, Co and Cu)*  
13<sup>00</sup>-13<sup>10</sup>

E.D. Chitoiu-Arsene<sup>1</sup>, A.R. Jordan<sup>1</sup>, N. Melniciuc-Puica<sup>9</sup>, G. Bulai<sup>10</sup>, L. Leontie<sup>10</sup>, A. Carlescu<sup>8</sup>, M.N. Palamaru<sup>1</sup>

**SC8** *Synthesis of zinc oxide (ZnO) particles for glucose sensing applications*  
13<sup>10</sup>-13<sup>20</sup>

V.E. Podasca<sup>2</sup>, E.C. Buruiana<sup>2</sup>

**SC9** *Multilayer thin films consisting of ploy(N,N-dimethylamino)ethyl methacrylate and sodium alginate with tunable affinity for biomacromolecules*  
13<sup>20</sup>-13<sup>30</sup>

C.A. Gheorghita<sup>2</sup>, F. Bucatariu<sup>2</sup>, E.S. Dragan<sup>2</sup>

13<sup>30</sup>-14<sup>30</sup>

**LUNCH**

14<sup>30</sup>-15<sup>00</sup>

**POSTER SESSION**

### **Session 3**

*Plenary lectures*

Chairpersons: Assoc. Prof. Ramona Danac

Assoc. Prof. Mircea-Odin Apostu

**CP2** *Self-assembled nanostructures based on amphiphilic block copolymers*  
15<sup>00</sup>-15<sup>40</sup>

I.A. Dinu<sup>2</sup>

**CO9** *Rational design of coordination compounds based on thiosemicarbazide ligands – synthesis, structure and application*  
15<sup>40</sup>-16<sup>00</sup>

O. Palamarciuc<sup>11</sup>

**CO10** *Hydrodynamic properties of xanthan aqueous solution*  
16<sup>00</sup>-16<sup>20</sup>

C.E. Brunchi<sup>2,12</sup>

**SC10** *Catalytic and fluorescence properties of new double hydrophilic imidazole-based copolymers*  
16<sup>20</sup>-16<sup>30</sup>

L. Stroe<sup>2</sup>, E.C. Buruiana<sup>2</sup>

**SC11** *Electrochemical characterization of star poly(N-vinylcarbazole) obtained by Reversible Addition-Fragmentation Chain Transfer Polymerization (RAFT)*  
16<sup>30</sup>-16<sup>40</sup>

O.I. Negru<sup>2</sup>, M. Grigoras<sup>2,12</sup>

**SC12** *"Grey" water: characteristics, treatment methods and recycling/reuse possibilities*  
16<sup>40</sup>-16<sup>50</sup>

C. Zaharia<sup>13</sup>

**SC13** *Professor Petru Poni's contributions to the establishment of major educational and research institutions: the United Institutes and the Institute of Chemistry*  
16<sup>50</sup>-17<sup>00</sup>

O. Florescu<sup>14</sup>, I. Sandu<sup>15</sup>, V. Vasilache<sup>15</sup>

## POSTER SESSION

17<sup>00</sup>-17<sup>30</sup>

## COFFEE BREAK

17<sup>30</sup>-17<sup>45</sup>

## AWARDS FOR THE BEST PARTICIPANTS CLOSING THE CONFERENCE

18<sup>30</sup>

## Cocktail (Vanatorul Restaurant)

## POSTERS

- P1** *Synthesis and characterization of a novel composite based on poly(2,2-dimethyltrimethylene carbonate) with carboxylic end-groups and hydroxyapatite*  
I.M. Pelin<sup>2</sup>, M. Socka<sup>16</sup>, A. Michalski<sup>16</sup>, R.N. Darie-Nita<sup>2</sup>, M. Basko<sup>16</sup>, F. Tanasa<sup>3</sup>, M. Zanoaga<sup>3</sup>, T. Biela<sup>16</sup>
- P2** *Atmospheric behavior of water soluble organic anions in fine and coarse particulate matter from Iasi, Romania*  
A.G. Galon (Negru)<sup>1</sup>, R.I. Olariu<sup>1,8</sup>, C. Arsene<sup>1,8</sup>
- P3** *New quaternary curdlan derivatives – interaction with proteins*  
D.M. Suflet<sup>2</sup>, I. Popescu<sup>2</sup>, I.M. Pelin<sup>2</sup>
- P4** *Determination of chemical and nutritional characteristics of edible flowers*  
A.E. Ungureanu<sup>17</sup>, A.C. Donise<sup>17</sup>, I.N. Georgescu<sup>17</sup>, M.E. Craciun<sup>17</sup>
- P5** *Efficient adsorption of Cr(VI) ions from synthetic aqueous solution using novel composites with strong base anion exchangers embedded into chitosan/poly(vinyl amine) cryogels*  
D. Humelnicu<sup>1</sup>, E.S. Dragan<sup>3</sup>, M.V. Dinu<sup>3</sup>
- P6** *Rheological investigations of polysilane solutions*  
M. Soroceanu<sup>2</sup>, A.I. Barzic<sup>2</sup>, L. Sacarescu<sup>2</sup>, V. Harabagiu<sup>2</sup>
- P7** *Pedologic, atmospheric or anthropogenic contributions as driving forces for aquaculture water quality. A case study for an artificial lake from the north-eastern Romania*  
C. Amarandei<sup>1</sup>, A.G. Galon (Negru)<sup>1</sup>, S.M. Cucu-Man<sup>1</sup>, R.I. Olariu<sup>1,8</sup>, C. Arsene<sup>1,8</sup>
- P8** *FT-IR gas-phase products study of OH radicals initiated photooxidation of phenol*  
C. Roman<sup>1</sup>, I.G. Bejan<sup>8</sup>, C. Arsene<sup>1,8</sup>, R.I. Olariu<sup>1,8</sup>
- P9** *Non-conventional heavy metals remediation methods of Tarnita site*  
M.C. Closca<sup>1</sup>, M. Zaharia<sup>1,18</sup>, R. Gradinaru<sup>1</sup>, G. Drochioiu<sup>1</sup>
- P10** *Experimental data of functionalized nanocrystalline ferrites MFe<sub>2</sub>O<sub>4</sub> (M= Co, Mg, Mn, Ni, Zn) adsorption capability for Congo red dye*  
T. Roman<sup>1,19</sup>, R.L. Asavei<sup>19</sup>, A. Pui<sup>1</sup>, S. Stanciu<sup>19</sup>

- P11** *Spin glass state and magneto resistance investigation of Cu substituted  $La_{0.54}Nd_{0.11}Ca_{0.35}MnO_3$  manganites*  
C. Mita<sup>1</sup>, M.L. Craus<sup>20,21</sup>, N. Cornei<sup>1</sup>, V. Dobrea<sup>21</sup>
- P12** *Structural, transport and magnetic properties of  $La_{0.54}Nd_{0.11}Sr_{0.35}Mn_{1-x}Sc_xO_3$  manganites*  
N. Cornei<sup>1</sup>, M.L. Craus<sup>20,21</sup>, C. Mita<sup>1</sup>, V. Dobrea<sup>21</sup>
- P13** *Synthesis of new imidazolium/benzimidazolium salts: conventional versus nonconventional methods*  
M.M. Grigore<sup>1</sup>, D. Cucu<sup>1</sup>, D. Amariuca-Mantu<sup>1</sup>, V. Vasilache<sup>23</sup>, I. Mangalagiu<sup>1</sup>
- P14** *A new study on the recovery of precious metals from electronic waste*  
R.E. Tataru-Farmus<sup>13</sup>, C. Cernatescu<sup>13</sup>, G.A. Apostolescu<sup>13</sup>, C. Cobzaru<sup>13</sup>, N. Apostolescu<sup>13</sup>, M.A. Vizitiu<sup>13</sup>
- P15** *Computational analysis on azopolymers capable to generate photo-sensitive micelles*  
E.L. Epure<sup>13</sup>, N. Hurduc<sup>13</sup>
- P16** *Anion metathesis used to obtain new ionic liquids with imidazole skeleton*  
D. Bejan<sup>2</sup>, G. Zbancioc<sup>1</sup>, D. Amariuca-Mantu<sup>1</sup>, M. Culică<sup>1</sup>, I. Mangalagiu<sup>1</sup>, C. Moldoveanu<sup>1</sup>
- P17** *Dynamic azo-polymeric surfaces for cell culture application*  
C.M. Herghiligiu<sup>13</sup>, I. Carlescu<sup>13</sup>, D. Scutaru<sup>13</sup>, N. Hurduc<sup>13</sup>
- P18** *Azo-polymers as support for biomolecule nanomanipulation using laser irradiation*  
C.M. Herghiligiu<sup>13</sup>, N. Hurduc<sup>13</sup>
- P19** *Synthesis and anticancer activity of some new monoindolizine mono-salt based on 4,4'-bipyridine skeleton*  
A.M. Olaru<sup>1</sup>, I. Mangalagiu<sup>1</sup>, R. Danac<sup>1</sup>
- P20** *Novel pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles*  
M.C. Sardaru<sup>1</sup>, G. Pricope<sup>2</sup>, C. Cojocaru<sup>1</sup>, R. Danac<sup>1</sup>, I. Mangalagiu<sup>1</sup>, A. Rotaru<sup>1</sup>
- P21** *Synthesis and anticancer evaluation of new pyrrolo-heterocyclic compounds*  
L. Popovici<sup>1</sup>, R. Danac<sup>1</sup>, I. Mangalagiu<sup>1</sup>

- P22** *Cellulose derivatization using green routes*  
G. Biliuta<sup>2</sup>, S. Coseri<sup>2</sup>
- P23** *Synthesis and mesomorphic properties of 1,3,5-trisubstituted benzene derivatives containing azo-aromatic units as the peripheral arms*  
I. Carlescu<sup>13</sup>, A. Simion<sup>13</sup>, G. Lisa<sup>13</sup>, C. Herghiligiu<sup>13</sup>, N. Hurduc<sup>13</sup>, D. Scutaru<sup>13</sup>
- P24** *Synthesis of novel luminescent and paramagnetic 2,6-bis(5-aryl-1,3,4-oxadiazol-2-yl)phenols*  
A.G. Coman<sup>24</sup>, C.C. Paraschivescu<sup>24</sup>, A. Paun<sup>24</sup>, M. Matache<sup>24</sup>, P. Ionita<sup>24</sup>
- P25** *New approach on the formation of HONO from the ortho-nitrotoluene ground ( $S_0$ ) and lowest triplet ( $T_1$ ) states. Insight from theory*  
D. Maftai<sup>1</sup>, J. Kleffmann<sup>25</sup>, P. Wiesen<sup>25</sup>, R.I. Olariu<sup>1,8</sup>, I. Bejan<sup>8</sup>
- P26** *Affinity studies of antigen-antibody binding*  
A.V. Lupaescu<sup>1</sup>, M. Jureschi<sup>1</sup>, L. Ion<sup>1</sup>, C. Tiron<sup>26</sup>, G. Drochioiu<sup>1</sup>, B.A. Petre<sup>1,26</sup>
- P27** *Microcrystalline cellulose as adsorbent in removal of dyes from textile wastewaters*  
I. Nica<sup>13</sup>, G. Biliuta<sup>2</sup>, S. Coseri<sup>2</sup>, C. Zaharia<sup>13</sup>, D. Suteu<sup>13</sup>
- P28** *Synthesis and characterization of new heterocyclic polydentate ligands*  
D. Bejan<sup>2</sup>, L.G. Bahrin<sup>2</sup>, R. Ardeleanu<sup>2</sup>, M. Sardaru<sup>1,2</sup>, L. Clima<sup>2</sup>, A. Nicolescu<sup>2</sup>, S. Shova<sup>2</sup>, N. Marangoci<sup>2</sup>, V. Lozan<sup>2,27</sup>
- P29** *QuEChERS and ultrasound-assisted extraction as preparative tools for various secondary metabolites analysis by GC-MS technique*  
G. Mardare (Balusescu)<sup>1</sup>, R.I. Olariu<sup>1,8</sup>, C. Arsene<sup>1,8</sup>
- P30** *Azopolysiloxane conformational study through molecular modeling*  
S. Ciobotarescu<sup>13,28</sup>, E.L. Epure<sup>13</sup>, N. Hurduc<sup>13</sup>
- P31** *Biologic properties of 5-sulfonate-salicylaldehyde thiosemicarbazone derivatives in copper(II) compounds*  
A. Sirbu<sup>11</sup>, O. Palamarciuc<sup>11</sup>
- P32** *Modelling of photocatalytic degradation processes of organic compounds in presence of TiO<sub>2</sub>*  
A.M. Sescu<sup>13</sup>, L. Favier<sup>13</sup>, M. Harja<sup>13</sup>, G. Ciobanu<sup>13</sup>
- P33** *Calculating electronic absorption spectra in solution. Which solvent model should we choose?*  
A.I. Gavril<sup>1</sup>, D. Maftai<sup>1</sup>

- P34** *Toward a reliable comparison of calculated absorption and fluorescence spectra with experimental counterparts: improving the virtual spectrometer*  
R.C. Cirdei<sup>1</sup>, D. Maftai<sup>1</sup>
- P35** *Alkane content in the cuticle of tall fescue (*Festuca arundinacea*) plantlets exposed to metal ions*  
R. Necula<sup>1,29</sup>, E. Gille<sup>29</sup>, A.C. Dirtu<sup>1</sup>, V.R. Gradinaru<sup>1</sup>, B.A. Petre<sup>1</sup>, G. Drochioiu<sup>1</sup>
- P36** *Determination of acidity, moisture and NaCl content in bread*  
A. Sandu<sup>1</sup>, M. Goanta<sup>1</sup>
- P37** *Study of siloxanic schiff bases as ionofores for cation selective electrodes*  
M. Diru<sup>11</sup>, O. Palamarciuc<sup>11</sup>
- P38** *Intelligent molecular materials*  
T. Palamarciuc<sup>11</sup>, E. Popovici<sup>11,27</sup>, O. Palamarciuc<sup>11,27</sup>
- P39** *The preparation and characterization of some copper(II) complexes of 2-methyl-imidazole-4-carbaldehyde thiosemicarbazone derivatives*  
E. Stratulat<sup>11</sup>, S. Shova<sup>11</sup>, A. Pui<sup>1</sup>, V. Prisacari<sup>30</sup>, I. Corja<sup>11</sup>, A. Dizdari<sup>30</sup>, O. Palamarciuc<sup>11</sup>
- P40** *Kinetic analysis of the thermal degradation of decabromodiphenyleter*  
V. Esanu<sup>22</sup>, M. Dumitras<sup>1</sup>
- P41** *Reducing the energy consumption for anodizing process of aluminium alloys*  
L. Lazar<sup>13</sup>, E. Droniuc (Hultuana)<sup>13</sup>, M. Harja<sup>13</sup>
- P42** *Copper recovery from galvanic effluents*  
L. Lazar<sup>13</sup>, M.A. Mocanu<sup>13</sup>, I. Mamaliga<sup>13</sup>
- P43** *Determining the level of natural radioactivity of air in different locations in Iasi*  
S.F. Dediu<sup>13</sup>, M. Goanta<sup>1</sup>
- P44** *Applications of polymeric adsorbents for water pollution control*  
G.N. Moroi<sup>2</sup>

### Legend

1. "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Romania
2. "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
3. Steinbeis Center for Biopolymer Analysis and Biomedical Mass Spectrometry, Rüsselsheim, Germany
4. Emergency Hospital for Children "Sf. Maria" of Iasi, Romania
5. University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department, Romania
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10. "Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Romania
11. Moldova State University, Chisinau, Republic of Moldova
12. Romanian Academy
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14. National Museums Complex of Iasi, Romania
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17. Polytechnic University of Bucharest, Applied Chemistry and Materials Science Chemistry Department, Romania
18. University of Agricultural Sciences and Veterinary Medicine "Ion Ionescu de la Brad", Iasi, Romania
19. "Gheorghe Asachi" Technical University of Iasi, Science and Materials Engineering Department, Romania
20. Joint Institute of Nuclear Research, Laboratory of Neutron Physics, Dubna, Russia
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25. Bergische Universität Wuppertal, Faculty of Mathematics and Natural Sciences, Germany

26. Regional Institute of Oncology, Center for Fundamental Research and Experimental Development in Translational Medicine - TRANSCEND, Iasi, Romania
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28. University of Angers, Science Department, France
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