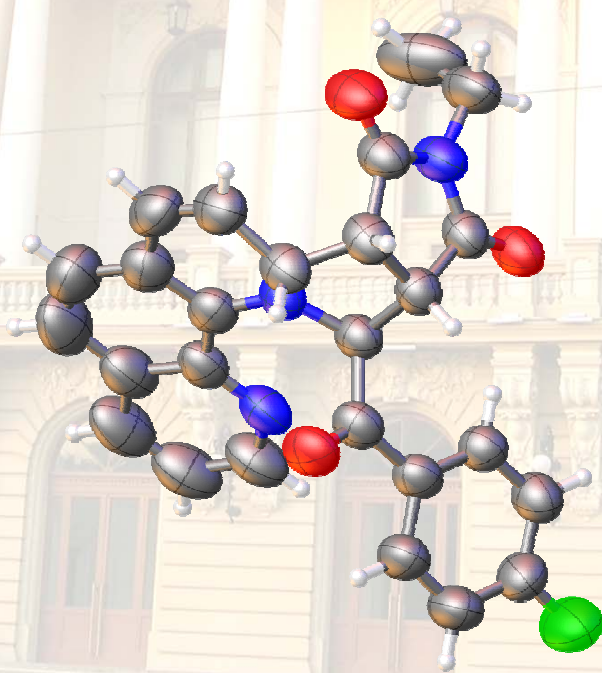




**“Alexandru Ioan Cuza” University Days**

**Faculty of Chemistry Conference**

# Program



**Iași,  
29 – 31 October 2015**



**CERNESIM**

Centrul de studii în știința mediului  
pentru regiunea de dezvoltare NE

# **“Alexandru Ioan Cuza” University Days**

## **Faculty of Chemistry Conference**

# **Program**

**Iasi,  
29 – 31 October 2015**



## ***Faculty of Chemistry Conference***

### ***Scientific Committee***

**President: Prof. PhD. Ionel Mangalagiu**

Acad. Marius Andruh

Acad. eng. Bogdan Simionescu

Acad. Cristian Silvestru

Prof. Ph.D. eng. Dan Cascaval

Prof. Ph.D. Gabi Drochioiu

Prof. Ph.D. Romeo-Iulian Olariu

Assoc. Prof. Ph.D. Ionel Humelnicu

### ***Organizing committee***

**Prof. Ph.D. Aurel Pui**

Prof. Ph.D. Habil. Cecilia Arsene

Assoc. Prof. Ph.D. Mircea-Odin Apostu

Assoc. Prof. Ph.D. Ramona Danac

Assoc. Prof. Ph.D. Doina Humelnicu

### ***Secretaryship***

Assoc. Prof. Ph.D. Nicoleta Cornei

Assist. Prof. Ph.D. Maria Ignat

CSIII Ph.D. Catalina-Ionica Ciobanu

Admin. Eng. Vasile Vatra

Ph.D. Stud. Constantin Virlan



**Scientific Program**

**Day 1**

**Thursday 29 October**

**Location: Faculty of Chemistry, Lecture Hall P3**

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

14<sup>00</sup>-14<sup>10</sup> **Opening ceremony**

14<sup>20</sup>-14<sup>40</sup> **Celebration moment**

**Session 1**

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

***Nobel Prize for Chemistry 2015:***

14<sup>40</sup>-14<sup>50</sup> ***Tomas Lindahl, Paul Modrich and Aziz Sancar***  
tribute by G. Drochioiu<sup>1</sup>

**CO1** ***Clinical diagnostics of lysosomal storage diseases***  
14<sup>50</sup>-15<sup>10</sup> ***on dry blood spots: MRM-MS and fluorimetric***  
***determinations***

L. Ion<sup>1,2</sup>, C. Andries<sup>1,2</sup>, S. Maeser<sup>2</sup>, G. Drochioiu<sup>1</sup>,  
M. Przybylski, B. A. Petre<sup>1,2</sup>

**CO2** ***Evaluation of adsorption characteristics of new***  
15<sup>10</sup>-15<sup>30</sup> ***cephalosporin onto porous microparticles***

S. Racovita<sup>3</sup>, S. Vasiliu<sup>3</sup>, T. A. Cigu<sup>1,4</sup>, C. Cheptea<sup>5</sup>,  
V. Sunel<sup>1</sup>, M. Popa<sup>1</sup>

**SC1** ***Fluorescence spectroscopy: a simple tool for***  
15<sup>30</sup>-15<sup>40</sup> ***studying enzymes interactions***

V. R. Gradinaru<sup>1</sup>, H.-J. Apell<sup>6</sup>, M. Zaharia<sup>1</sup>

**SC2** ***Synthesis and characterization of new poly(sulfone-***  
15<sup>40</sup>-15<sup>50</sup> ***urethane) networks***

O. Ursache<sup>3</sup>, C. Gaina<sup>3</sup>, V. Gaina<sup>3</sup>

15<sup>50</sup>-16<sup>20</sup>

**COFFEE BREAK**

## **Session 2**

Plenary lectures

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

Assoc. Prof. Ph.D. Ramona Danac

**CO3** *Investigations on the isoprene ozonolysis: Product yields formation over temperature range 273-343K*  
16<sup>20</sup>-16<sup>40</sup>  
I. Bejan<sup>7,8</sup>, P. W. Seakins<sup>7</sup>

**CO4** *Ionic hybrid materials based on poly(dimethylaminoethyl methacrylate) and chloroalkyl-functionalized silicone derivatives: Preparation and characterization*  
16<sup>40</sup>-17<sup>00</sup>  
M. M. Lazar<sup>3</sup>, M. Cazacu<sup>3</sup>, E. S. Dragan<sup>3</sup>

**CO5** *Particle size and doping influence on the magnetic properties of CoFe<sub>2</sub>O<sub>4</sub>*  
17<sup>00</sup>-17<sup>20</sup>  
C. Virlan<sup>1</sup>, O. F. Caltun<sup>9</sup>, G. Bulai<sup>9</sup>, R. Hempelmann<sup>10</sup>, A. Pui<sup>1</sup>

**CO6** *Macroporous semi-IPN composite hydrogels based on native or anionically modified starch*  
17<sup>20</sup>-17<sup>40</sup>  
D. F. Apopei-Loghin<sup>3</sup>, E. S. Dragan<sup>3</sup>

**SC3** *Adsorptive removal of p-chlorophenol from aqueous solutions by activated carbon. Equilibrium studies*  
17<sup>40</sup>-17<sup>50</sup>  
E. David<sup>4</sup>, M. S. Secula<sup>4</sup>, G. Ozdemir<sup>11</sup>, I. Mamaliga<sup>4</sup>

**SC4** *Effect of ZnO and Ag nanoparticles on some hybrid composites used in photocatalytic degradation of methylene blue*  
17<sup>50</sup>-18<sup>00</sup>  
V. E. Podasca<sup>3</sup>, T. Buruiana<sup>3</sup>, E. C. Buruiana<sup>3</sup>

18<sup>00</sup>-20<sup>00</sup> *Roundtable: Past, Present And Future Of Chemistry at “Alexandru Ioan Cuza” University*

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**Scientific Program**

**Day 2**

**Friday, 30 October**

**Location: Faculty of Chemistry, Lecture Hall P3**

**Registration of the participants**

08<sup>30</sup>-09<sup>00</sup>

**Display of posters (P1 - P44)**

**The Hall of the Echoing Footsteps**

**Session 1**

Plenary lectures

Chairpersons: Acad. Cristian Silvestru

Prof. Ph.D. Ionel Mangalagiu

**CP1**

09<sup>00</sup>-09<sup>45</sup>

***The beauty of coordination polymers***

M. Andruh<sup>12</sup>

University of Bucharest, Bucharest, Romania

**CP2**

09<sup>45</sup>-10<sup>30</sup>

***Medical diagnosis by NMR spectroscopy. How, when, why?***

C. Deleanu<sup>3, 13</sup>

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

"Costin D. Nenitescu" Institute of Organic Chemistry, Bucharest, Romania

**CO7**

10<sup>30</sup>-10<sup>50</sup>

***Ethics in science, chemistry and academia***

A. Silvestru<sup>14</sup>

Babes-Bolyai University, Cluj-Napoca, Romania

10<sup>50</sup>-11<sup>20</sup>



**POSTER SESSION  
COFFEE BREAK**

## **Session 2**

Plenary lectures

Chairpersons: Prof. Ph.D. Habil. Cecilia Arsene

Assoc. Prof. Ph.D. Doina Humelnicu

**CP3** *Biosensors for dopamine determination in foods of plant origin*  
11<sup>20</sup>-12<sup>05</sup>

C. Apetrei<sup>15</sup>, C. V. Ungureanu<sup>16</sup>, I. M. Apetrei<sup>17</sup>  
“Dunarea de Jos” University of Galati, Romania

**CO8** *Template assemblies of single molecule magnets based on manganese coordination compounds*  
12<sup>05</sup>-12<sup>25</sup>

O. Palamarciuc<sup>18</sup>, M. Secu<sup>18</sup>, R. Clérac<sup>19</sup>

**CO9** *Theoretical study of 8- hydroxyquinoline tautomerization in solution*  
12<sup>25</sup>-12<sup>45</sup>

I. Humelnicu<sup>1</sup>, D. Maftai<sup>1</sup>

**SC5** *Rational design and structural characterization of three novel extended structures of copper(II)*  
12<sup>45</sup>-12<sup>55</sup>

M. Mocanu<sup>12</sup>, C. Maxim<sup>12</sup>, A. M. Madalan<sup>12</sup>, D.-L. Popescu<sup>12</sup>, M. Andruh<sup>12</sup>

**SC6** *Molecular determinants of polypyridine chelator activity at the chemokine receptor CCR5 in the presence of Zn(II) salts*  
12<sup>55</sup>-13<sup>05</sup>

R.-M. Amarandi<sup>1,20</sup>, S. Karlshøj<sup>20</sup>, M. M. Rosenkilde<sup>20</sup>, A. Pui<sup>1</sup>



13<sup>05</sup>-14<sup>30</sup>

**LUNCH**

### **Session 3**

Plenary lectures

Chairpersons: Acad. Marius Andruh

Prof. Ph.D. Gabi Drochioiu

- CP4** *New materials with application in Oenology*  
14<sup>30</sup>-15<sup>15</sup> V. Cotea<sup>21</sup>  
"Ion Ionescu de la Brad" University of Agricultural  
Science and Veterinary Medicine of Iasi, Romania
- CO10** *Oxytetracycline delivery systems based on  
mesoporous titania*  
15<sup>15</sup>-15<sup>35</sup> D. Berger<sup>22</sup>, A. I. Iorgu<sup>22</sup>, R. A. Mitran<sup>22</sup>, C. Matei<sup>22</sup>
- CO11** *The behavior of some photoactive glycomonomers in  
UV or femtosecond laser-induced two-photon  
polymerization*  
15<sup>35</sup>-15<sup>55</sup> A. L. Chibac<sup>1,3</sup>, T. Buruiana<sup>3</sup>, V. Melinte<sup>3</sup>, I.  
Mangalagiu<sup>1</sup>, E. C. Buruiana<sup>3</sup>
- SC7** *Mesostructured silica and aluminosilicates as  
carriers for irinotecan delivery systems*  
15<sup>55</sup>-16<sup>05</sup> S. Nastase<sup>23</sup>, L. Bajenaru<sup>23</sup>, L. Miclea<sup>24</sup>, R. A.  
Mitran<sup>23</sup>, E. Radu<sup>25</sup>, D. Berger<sup>23</sup>, T. Savopol<sup>24</sup>, M. G.  
Moiescu<sup>24</sup>, C. Matei<sup>23</sup>



16<sup>05</sup>-16<sup>30</sup>

***POSTER SESSION  
COFFEE BREAK***

### **Session 4**

Plenary lectures

Chairpersons : Prof. Ph.D. Aurel Pui

Assoc. Prof. Ph.D. Mircea Apostu

**CP5** *Organometallic compounds as building blocks for  
supramolecular architectures*

16<sup>30</sup>-17<sup>15</sup>

C. Silvestru<sup>14</sup>

Babes-Bolyai University, Cluj-Napoca, Romania

**CO12** *Intermolecular interactions and spin crossover  
materials*

17<sup>15</sup>-17<sup>35</sup>

T. Palamarciuc<sup>18</sup>, P. Rosa<sup>26</sup>, J. F. Letard<sup>26</sup>, A. Pui<sup>1</sup>

*Poly(ethyleneimine) based multilayer films  
constructed onto silica microparticles as drug  
delivery systems*

**CO13**

17<sup>35</sup>-17<sup>55</sup>

C. A. Ghiorghita<sup>3</sup>, F. Bucatariu<sup>3</sup>, A. I. Cocarta<sup>3</sup>, E. S.  
Dragan<sup>3</sup>

17<sup>55</sup>-18<sup>15</sup>

***POSTER SESSION***

***COFFEE BREAK***

18<sup>15</sup>-18<sup>30</sup>

***Awards For The Best Participants***

***Closing the Conference***

19<sup>00</sup>

***Cocktail (Vanatorul Restaurant)***

**POSTERS**

- P1** *Differential pulse anodic stripping voltammetry in mercury determination*  
P. C. Verestiuc<sup>27</sup>, O. M. Tucaliuc<sup>27</sup>, I. Breaban<sup>27</sup>, Ig. Cretescu<sup>4</sup>, Gh. Nemtoi<sup>1</sup>
- P2** *Sm(III) polyoxometalate: synthesis, structure and properties*  
D. Humelnicu<sup>1</sup>, O. M. Apostu<sup>1</sup>, M. L. Craus<sup>28</sup>, M. Dumitras<sup>1</sup>, I. Humelnicu<sup>1</sup>
- P3** *Kinetic studies on p-chlorophenol adsorption from aqueous solutions by activated carbon*  
E. David<sup>4</sup>, M. S. Secula<sup>4</sup>, G. Ozdemir<sup>11</sup>, I. Mamaliga<sup>4</sup>
- P4** *Comparative photodegradation study of Erythrosin B using two reactors type*  
L. C. Apostol<sup>29,4</sup>, M. Gavrilescu<sup>4,30</sup>
- P5** *Magnetic mesoporous inorganic composites with biomedical applications*  
D. Georgescu<sup>22</sup>, A. Zanfır<sup>22</sup>, N. Stănică<sup>31</sup>, R. A. Mitran<sup>22</sup>, C. Munteanu<sup>31</sup>, C. Matei<sup>22</sup>, D. Berger<sup>22</sup>
- P6** *Mesoporous silica-ceria composites as carriers for drug delivery systems*  
M. Petrescu<sup>22</sup>, R. A. Mitran<sup>22</sup>, C. Matei<sup>22</sup>, D. Berger<sup>22</sup>
- P7** *Chemistry expertise to polymeric supports from the counterfeit documents*  
D. Potolinca<sup>27</sup>, C. I. Negru<sup>32</sup>, V. Vasilache<sup>33</sup>, M. Paduraru<sup>27</sup>, I. Sandu<sup>33</sup>, O. P. Tanasa<sup>27</sup>
- P8** *Synthesis of polymetallic oxides with high organized structure*  
V. Jucan<sup>27</sup>, A. M. Dumitrescu<sup>1</sup>, A. R. Iordan<sup>1</sup>, M. N. Palamaru<sup>1</sup>
- P9** *Rhodamine 6G dye photodegradation study on TiO<sub>2</sub>-based photocatalysts*  
D. Petrovski<sup>1</sup>, D. Lutic<sup>1</sup>
- P10** *Morphological and microchemical surface analyses of modern coins minted in the 20<sup>th</sup> century*  
S. L. Marin<sup>1</sup>, R. I. Olariu<sup>1</sup>, C. Arsene<sup>1</sup>
- P11** *Dinitrophenolic pollutants in the environment: toxicity and decontamination*  
A. Cosma<sup>1</sup>, M. Zaharia<sup>1</sup>, D. Cozma<sup>1</sup>, R. Gradinaru<sup>1</sup>, G. Drochioiu<sup>1</sup>
- P12** *Adsorption of some organic compounds of biological interest from wine on mesoporous solids*  
A. M. Nistor<sup>1</sup>, M. Niculaua<sup>34</sup>, D. Lutic<sup>1</sup>

- P13** *Beyond Coenzyme A labelling with FITC*  
R. Tarus<sup>1</sup>, A. B. Petre<sup>1</sup>, M. Mihasan<sup>35</sup>, O. M. Glocker<sup>36</sup>, R. V. Gradinaru<sup>1</sup>
- P14** *Structural evaluation of biocomposite materials based on PVA and CNC*  
B.-I. Dogaru<sup>3,1</sup>, M. Goanta<sup>1</sup>, M.-C. Popescu<sup>3</sup>
- P15** *Nanostructuring capacity of some azopolymers using pulse laser irradiation*  
E. Sava<sup>4</sup>, R. Constantinel<sup>4</sup>, C. Ibanescu<sup>4</sup>, N. Hurduc<sup>4</sup>, I. Sava<sup>3</sup>
- P16** *Phytochemical variability of Thymus pulegioides L. wild populations from Eastern Carpathians*  
R. Necula<sup>1,37</sup>, V. Grigoras<sup>37</sup>, G. Gavril<sup>37</sup>, E. Gille<sup>37</sup>, G. Drochioiu<sup>1</sup>
- P17** *(Bio)remediation of heavy metal contaminated effluents in mechanical and pneumatic mixed systems*  
M. Rosca<sup>4</sup>, R. M. Hlihor<sup>4</sup>, E. D. Comanita<sup>4,1</sup>, P. Cozma<sup>4</sup>, I. M. Simion<sup>4</sup>, M. Diaconu<sup>4</sup>, M. Gavrilesu<sup>4,30</sup>
- P18** *Analysis of the degradation and potential human health risks of twelve pesticides applied in double dose in tomatoes*  
R.-M. Hlihor<sup>4</sup>, M. O. Pogacean<sup>38</sup>, M. Rosca<sup>4</sup>, M. Gavrilesu<sup>30</sup>
- P19** *Dynamic behaviour of organic pollutants in the soil matrix - the influence of main parameters*  
C. Smaranda<sup>4</sup>, M. Rosca<sup>4</sup>, P. Cozma<sup>4</sup>, M. Gavrilesu<sup>4,30</sup>
- P20** *Theoretical study of the isomerization mechanisms in the ground state of some push-pull substituted azobenzenes*  
D. L. Isac<sup>3</sup>, D. Maftai<sup>1</sup>, A. Airinei<sup>3</sup>, I. Humelnicu<sup>1</sup>, M. Pinteala<sup>3</sup>
- P21** *Gas chromatography-mass spectrometry analysis of intermediates involved in lysergic acid biosynthesis in plants*  
G. Mardare (Balusescu)<sup>1</sup>, R. I. Olariu<sup>1</sup>, C. Arsene<sup>1</sup>
- P22** *Synthesis, structure and anticancer evaluation of new  $\gamma$ -cyano-substituted phenanthrolines*  
M. C. Al-Matarneh<sup>1</sup>, R. Danac<sup>1</sup>, M. O. Apostu<sup>1</sup>, I. I. Mangalagiu<sup>1</sup>
- P23** *Synthesis and anticancer evaluation of new (aza)indolizines*  
L. Popovici<sup>1</sup>, I. I. Mangalagiu<sup>1</sup>, R. Danac<sup>1</sup>
- P24** *Complexation of anthracene-imidazolium salt with different acetate ions: UV-vis and fluorescence studies*  
V. Antoci<sup>1</sup>, D. Mantu<sup>1</sup>, Ghe. Zbancioc<sup>1</sup>, C. Moldoveanu<sup>1</sup>, I. I. Mangalagiu<sup>1</sup>
- P25** *Ultrasonic extraction of  $\alpha$ -zein*  
S. Bancila<sup>1</sup>, C.-I. Ciobanu<sup>1</sup>, B. A. Petre<sup>1</sup>, M. Murariu<sup>3</sup>, R. Gradinaru<sup>1</sup>, G. Drochioiu<sup>1</sup>

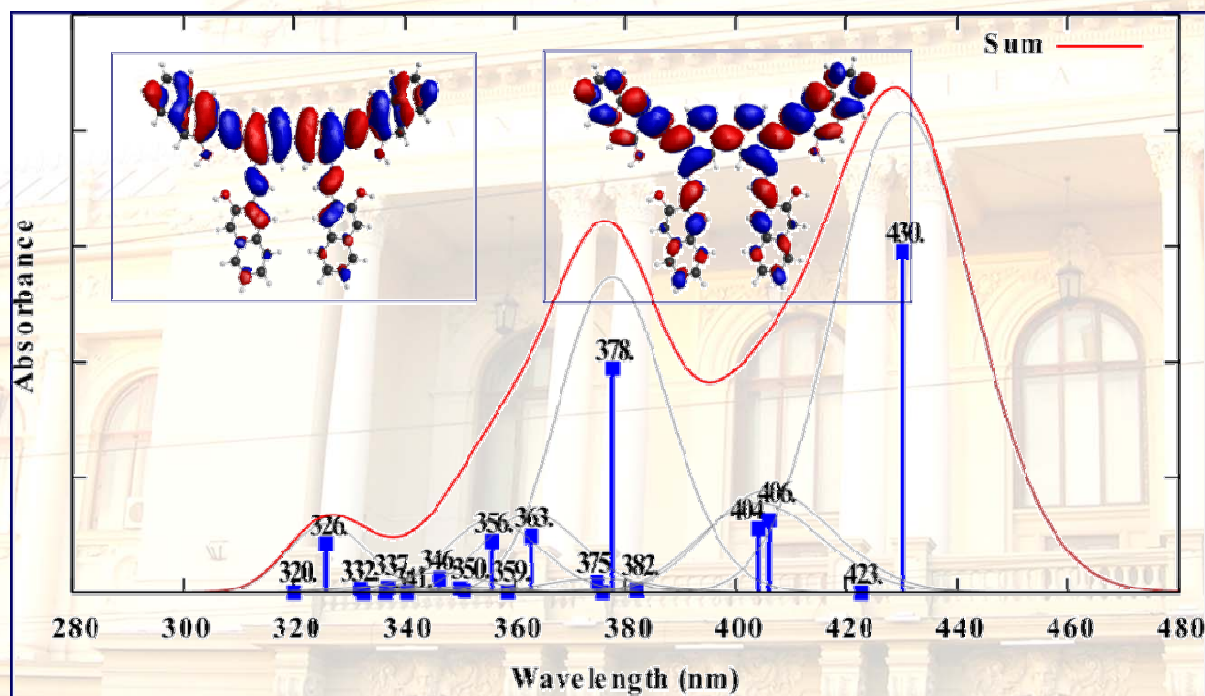
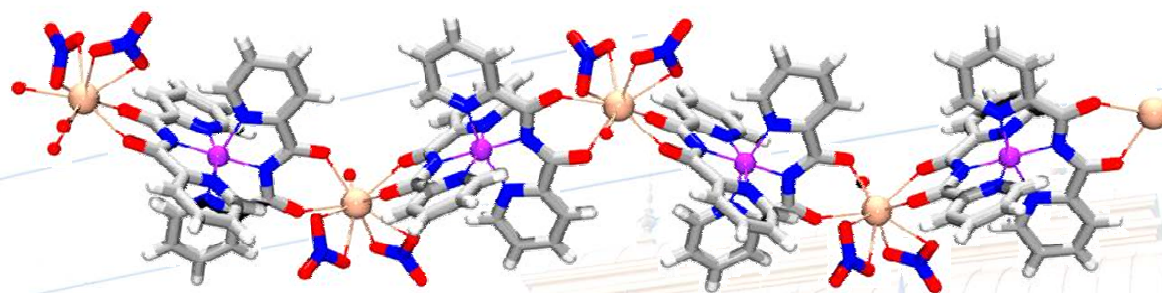
- P26** *Synthesis of new peptides with potential neuroprotective activity: metal ions affinity study*  
C.-I. Ciobanu<sup>1</sup>, L. Ion<sup>1</sup>, V. Antoci<sup>1</sup>, T. Teslaru<sup>9</sup>, G. Drochioiu<sup>1</sup>
- P27** *Yeast-based microbiological decontamination of heavy metal contaminated soils: Tarnita area case*  
A. E. Butnariu<sup>35</sup>, R. Stefanescu<sup>1</sup>, O. Pintilie<sup>27</sup>, M. M. Zamfirache<sup>35</sup>, A. Surleva<sup>39</sup>, C.-I. Ciobanu<sup>1</sup>, G. Drochioiu<sup>1</sup>
- P28** *Synthesis of  $NiAl_{2-x}Cr_xO_4$  by sol-gel method using fructose as fuel agent*  
E. D. Chitoiu-Arsene<sup>1</sup>, A. R. Iordan<sup>1</sup>, M. Dumitras<sup>1</sup>, N. Melniciuc-Puica<sup>40</sup>, V. Nica<sup>11</sup>, L. Leontie<sup>9</sup>, M. N. Palamaru<sup>1</sup>
- P29** *Essential elements in forages from permanent grasslands of North-Eastern Romania. Implications for animal nutrition*  
S. M. Cucu-Man<sup>1</sup>, D. Tarcau<sup>41</sup>, O. A. Culicov<sup>42</sup>, R. Buhaceanu<sup>1</sup>, V. Vintu<sup>41</sup>, M. V. Frontasyeva<sup>42</sup>
- P30** *Decolorization of Basic Blue 41 by hydrogen peroxide using a heterogeneous catalytic system consisting of Cu(II)-macroporous chelating polymer functionalized with diethylenetriamine*  
S. M. Cucu-Man<sup>1</sup>, R. Buhaceanu<sup>1</sup>, A. Dogariu<sup>1</sup>, I. Bunia<sup>3</sup>, V. Dulman<sup>1</sup>
- P31** *Influence of the cobalt substitution on the structural and catalytic properties of  $La(Sm)Fe_{1-x}Co_xO_3$  perovskites*  
N. Cornei<sup>1</sup>, C. Mita<sup>1</sup>, I. A. Gorodea<sup>1</sup>, M.-L. Craus<sup>43,42</sup>, M. Ignat<sup>1</sup>, V. Dobrea<sup>43</sup>, A.-A. Domocos<sup>9</sup>
- P32** *Synthesis of  $BaMnO_3$  from heterometallic coordination compounds*  
 I. Bulimestru<sup>18</sup>, N. Cornei<sup>1</sup>, O. Mentre<sup>44</sup>, N. Tancret<sup>44</sup>, N. Popa<sup>18</sup>, S. Shova<sup>3</sup>, A. Gulea<sup>18</sup>
- P33** *Functionalized polymers for new applications*  
 L. I. Buruiana<sup>3</sup>, R. M. Albu<sup>3</sup>, S. Ioan<sup>3</sup>
- P34** *Comparative Theoretical Study of the cyclisation of several symmetric and asymmetric diarylethenes*  
 I. Humelnicu<sup>1</sup>, D. Maftai<sup>1</sup>, T. Chelariu<sup>1</sup>
- P35** *Synthesis of a functional polymer as porous crosslinked beads containing alicyclic groups, potentially useful as high temperature microcontainers*  
 C. D. Vlad<sup>3</sup>, I. Stoica<sup>3</sup>, S. Nica<sup>3</sup>, A. I. Barzic<sup>3</sup>, C. Hulubei<sup>3</sup>
- P36** *Synthesis, characterization and toxicity analysis of some Mn(II), Co(II), Ni(II) and Cu(II) complexes with N-(p-nitrobenzoyl)-L-glicina*  
 C. Y. Rosca<sup>4</sup>, V. Sunel<sup>1</sup>, M. Cretu<sup>1</sup>, C. Mita<sup>1</sup>, D. Sibiescu<sup>4</sup>, D. Sutiman<sup>4</sup>

- P37** *Magnetic properties of quaternary ferrites*  
R.-G. Ciocarlan<sup>1</sup>, C. Virlan<sup>1</sup>, O. F. Caltun<sup>9</sup>, V. Nica<sup>9</sup>, M.-L. Craus<sup>28</sup>, R. Hempelmann<sup>10</sup>, A. Pui<sup>1</sup>
- P38** *Cytotoxic activity of some dihydroxyacetophenone derivatives*  
A. M. Zbancioc<sup>1,45</sup>, G. Tataringa<sup>45</sup>, A. Jitareanu<sup>45</sup>, C. Moldoveanu<sup>1</sup>, G. Zbancioc<sup>1</sup>, I. Mangalagiu<sup>1</sup>
- P39** *Pyridazinones with acetylhydrazine skeleton: synthesis and stereochemical investigations*  
D. Mantu<sup>1</sup>, V. Antoci<sup>1</sup>, A. Nicolescu<sup>3</sup>, C. Deleanu<sup>3</sup>, I. I. Mangalagiu<sup>1</sup>
- P40** *An Anova study about photocatalytic reactivity of titania thin layers*  
V. Vasilache<sup>29</sup>
- P41** *Environmental impacts evaluation of polyhydroxyalkanoates (PHAs) with ReCiPe method*  
E.-D. Comanita<sup>4,1</sup>, C. Ghinea<sup>29</sup>, M. Gavrilesu<sup>30</sup>
- P42** *Evaluation of municipal solid waste scenarios with AHP and electre techniques*  
C. Ghinea<sup>4,29</sup>, E. D. Comanita<sup>4,1</sup>, M. Petraru<sup>4</sup>, H. Th. A Bressers<sup>46</sup>, M. Gavrilesu<sup>4,30</sup>
- P43** *5D cyanido complex as building block for magnetic materials*  
M. Secu<sup>18</sup>
- P44** *Synthesis, characterization and biological investigation of copper(II) complexes with 4-methylthiosemicarbazone 8-formylquinoline*  
E. Stratulat<sup>18</sup>, S. Sova<sup>3</sup>, A. Pui<sup>1</sup>, I. Corja<sup>18</sup>, A. Ciloci<sup>47</sup>, O. Palamarciuc<sup>18</sup>
- P45** *Synthesis and structure of copper(II) complex with 5-sulfosalicylaldehyde thiosemicarbazone*  
A. Sirbu<sup>18</sup>, S. Shova<sup>3</sup>, O. Palamarciuc<sup>18</sup>
- P46** *Prediction of best-fitting isotherm model by comparing error criteria in linear and non-linear regression analysis of hazardous heavy metal adsorption onto functionalized polymers*  
G. Moroi<sup>3</sup>, E. Avram<sup>3</sup>
- P47** *Equilibrium isotherm studies on removal of toxic metal ions from aqueous solutions by non-porous polymeric adsorbents*  
G. Moroi<sup>3</sup>, E. Avram<sup>3</sup>
- P48** *Pure and doped TiO<sub>2</sub> thin films for environmental and energy applications*  
M. Sucheai<sup>1,9,48</sup>, I. V. Tudose<sup>1,48</sup>, F. Iacomi<sup>9</sup>, E. Koudoumas<sup>48</sup>

**Legend**

1. "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Romania
2. Steinbeis Centre for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim, Germany
3. "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
4. "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Romania
5. "Grigore T. Popa" Medicine and Pharmacy University, Faculty of Biomedical Bioengineering, Iasi, Romania
6. University of Konstanz, Department of Biology, Germany
7. University of Leeds, School of Chemistry, United Kingdom
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