



**ROMANIAN ACADEMY
SECTION OF CHEMICAL
SCIENCES**

**OLTCHIM
RESEARCH CENTER**



**ROMANIAN CHEMICAL
SOCIETY**

PROGRAMME

XXXV-th

ROMANIAN

CHEMISTRY

CONFERENCE

**October 2-5, 2018
Călimănești-Căciulata, Vâlcea
ROMANIA**



ACADEMIA ROMÂNĂ
SECȚIA DE ȘTIINȚE CHIMICE



OLTCHIM
CENTRUL DE CERCETARE



SOCIETATEA DE CHIMIE
DIN ROMÂNIA

PROGRAM

A XXXV-A CONFERINȚĂ NAȚIONALĂ DE CHIMIE

2-5 Octombrie 2018
Călimănești-Căciulata, Vâlcea
ROMANIA

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**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

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**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

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**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

PROGRAMUL CONFERINȚEI / CONFERENCE SCHEDULE

MARȚI / TUESDAY, 02 octombrie / october 2018

- 12⁰⁰ - 22⁰⁰ Înregistrarea participanților / Registration

MIERCURI / WEDNESDAY, 03 octombrie / october 2018:

- 09⁰⁰ - 9⁴⁵ Deschiderea lucrărilor / Opening ceremony

- 9⁴⁵ - 10²⁵ Conferință plenară / Plenary lecture

- 10²⁵ - 11⁰⁵ Conferință plenară / Plenary lecture

- 11⁰⁵ - 11³⁵ Pauză de cafea / Coffee break

- 11³⁵ - 12¹⁵ Conferință plenară / Plenary lecture

- 12¹⁵ - 12⁵⁵ Conferință plenară / Plenary lecture

- 12⁵⁵ - 13¹⁵ Prezentare Reaxys/ Reaxys presentation

- 13¹⁵ - 14⁴⁵ Pauză prânz / Lunch

- 14⁴⁵ - 15²⁵ Conferință plenară / Plenary lecture

- 15²⁵ - 16⁰⁵ Conferință plenară / Plenary lecture

- 16⁰⁵ - 16³⁵ Pauză de cafea / Coffee break

- 16³⁵ - 17¹⁵ Conferință plenară / Plenary lecture

- 17¹⁵ - 17⁵⁵ Conferință plenară / Plenary lecture

- 17⁵⁵ - 18³⁰ Workshop Reaxys

- 18³⁰ - 19³⁰ Discuții postere / Posters session

- 20⁰⁰ Cocteil / Cocktail

JOI / THURSDAY, 04 octombrie / october 2018:

- 09¹⁵ - 9⁵⁵ Conferință plenară / Plenary lecture

- 9³⁵ - 10³⁵ Conferință plenară / Plenary lecture

- 10³⁵ - 11⁰⁵ Pauză de cafea / Coffee break

- 11⁰⁵ - 11⁴⁵ Conferință plenară / Plenary lecture

- 11⁴⁵ - 12²⁵ Conferință plenară / Plenary lecture

- 12²⁵ - 14⁰⁰ Pauză prânz / Lunch

- 14⁰⁰ - 16⁰⁰ Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections

- 16⁰⁰ - 16³⁰ Pauză de cafea / Coffee break

- 16³⁰ - 18³⁰ Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections

- 18³⁰ - 19³⁰ Discuții postere / Posters session/ Workshop Metrohm

VINERI / FRIDAY, 05 octombrie / october 2018:

- 9⁰⁰ - 9⁴⁰ Conferință plenară / Plenary lecture

- 9⁴⁰ - 10²⁰ Conferință plenară / Plenary lecture

- 10²⁰ - 11⁰⁰ Conferință plenară / Plenary lecture

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

- 11 ⁰⁰ – 11 ³⁰	Pauză de cafea / Coffee break
- 11 ³⁰ – 13 ³⁰	Conferințe și comunicări în secțiuni / Lectures and oral communications in parallel sections
- 13 ³⁰ – 14 ⁰⁰	Acordarea premiului „C.D. Nenițescu”- prezentarea lucrării premiate/„C.D. Nenițescu” award – young winner work presentation
- 14 ⁰⁰ - 14 ¹⁵	Închiderea lucrărilor conferinței / Closing remarks
- 14 ¹⁵	Prânz / Lunch

Timpul afectat prezentării lucrărilor / Presentation time
(discuții incluse / discussion included)

• conferințe plenare:	40 minute
• plenary lectures:	40 minutes
• conferințe în secțiuni:	20 minute
• lectures in parallel sections:	20 minutes
• comunicări orale:	10 minute
• oral communications in parallel sections	10 minutes

Afișarea posterelor / Posters program

- Numărul din program al posterului corespunde cu cel înscris pe panou.
 - Poster number from the program will be found on poster panel.

 - Posterele programate pentru miercuri 03 octombrie se vor afișa marți seara după orele 20⁰⁰ sau miercuri dimineața între 8³⁰-9³⁰ și se vor ridica seara după orele 20⁰⁰.
 - Posters programmed on Wednesday, October 3 will be placed on the poster board Tuesday evening or Wednesday from 8³⁰ to 9³⁰ a.m. and will be removed Wednesday after 8⁰⁰ p.m.
 - Posterele programate pentru joi 04 octombrie se vor afișa miercuri seara după orele 20⁰⁰ sau joi dimineața între 8³⁰-9³⁰ și se vor ridica seara după orele 20⁰⁰.
 - Posters programmed on Thursday, October 4 will be placed on the poster board Wednesday evening after 8⁰⁰ p.m. or Thursday from 8³⁰ to 9³⁰ a.m. and will be removed Thursday evening, after 8⁰⁰ p.m.
- Discuțiile asupra posterelor vor avea loc conform programului, în prezența autorilor.*
Posters session: presence of authors is required.

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

CONFERINȚE PLENARE / PLENARY LECTURES

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

Hotel Cozia

MIERCURI / WEDNESDAY, 03 octombrie / october 2018

09⁰⁰- 9⁴⁵- Deschiderea lucrărilor conferinței / Opening ceremony

**9⁴⁵ – 11⁰⁵ Președinte / Chairman:
Acad. Ionel HAIDUC**

C.P. - 1. ACADEMIA ROMÂNĂ ȘI UNITATEA NAȚIONALĂ
Bogdan C. Simionescu
Academia Română

C.P. - 2. FLYING WITH EAGLES: 17 YEARS IN ROMANIA AND 51 YEARS IN THE USA
Gheorghe D. Mateescu
Case Western Reserve University, Cleveland, Ohio, USA

11⁰⁵ – 11³⁵ Pauză / Coffee break

**11³⁵ – 13¹⁵ Președinte / Chairman:
Acad. Bogdan C. SIMIONESCU**

C.P. - 3. TABELUL PERIODIC DUPA 150 ANI
Ionel Haiduc
Academia Română

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
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C.P. - 4. REDOX-ACTIVE SELF-ASSEMBLED DISCRETE CAGES

S. Krykun, G. Szalóki, V. Croué, M. Allain, S. Goeb, M. Sallé

Université d'Angers, Laboratoire MOLTECH-Anjou, France

C.P. - 5. HOW DIRECT ACCESS TO EXTRACTED EXPERIMENTAL DATA IS FACILITATING AND SPEEDING UP SCIENTIFIC RESEARCH?

Karol Chomicki

Life Sciences for Central and East Europe, Elsevier, The Netherlands

14⁴⁵ – 16⁰⁵ Președinte / Chairman:

Acad. Cristian SILVESTRU

C.P. - 6. COORDINATION POLYMERS: NEW SYNTHETIC APPROACHES, TOPOLOGIES AND PROPERTIES

Marius Andruh

University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department

C.P. - 7. ARTIFICIAL WATER CHANNELS

Mihail Bărboiu

Institut Européen des Membranes, Adaptive Supramolecular Nanosystems Group, Montpellier, France

16⁰⁵ – 16³⁵ Pauză / Coffee break

16³⁵ – 17⁵⁵ Președinte / Chairman:

Acad. Marius ANDRUH

C.P. - 8. DESIGN OF GENE-ACTIVATED MATRIX FOR BONE REPAIR

Geta David¹, Bogdan Simionescu^{1,2}, Lilia Clima², Dragos Peptanariu², Mariana Pinteală²

¹*"Gh. Asachi" Technical University, Department of Natural and Synthetic Polymers, Iasi, Romania*

²*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.P. - 9. DESIGN, SYNTHESIS AND BIOLOGICAL ACTIVITY EVALUATION OF SOME FIVE AND SIX MEMBER RING NITROGEN HETEROCYCLES

Ionel I. Mangalagiu

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

JOI / THURSDAY, 4 octombrie / october 2018

09¹⁵ – 10³⁵ Președinte / Chairman:

Prof. Ionel I. MANGALAGIU

C.P. - 10. SYNTHETIC "HOST MOLECULES", MECHANICALLY INTERLOCKED AND SELF ASSEMBLED ARCHITECTURES FROM DESIGN TO APPLICATIONS

Ion Grosu

"Babeș-Bolyai" University, Supramolecular Organic and Organometallic Chemistry Center, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

C.P. - 11. DESIGN OF SCALABLE MOLECULAR MATERIALS FOR ORGANIC SOLAR CELLS

Jean Roncali

"Babeș-Bolyai" University, Supramolecular Organic and Organometallic Chemistry Center, Cluj-Napoca, Romania

University of Angers, Group Linear Conjugated Systems, CNRS, Moltech-Anjou, France

10³⁵ – 11⁰⁵ Pauză / Coffee break

11⁰⁵ – 12²⁵ Președinte / Chairman:

Prof. Ion GROSU, MC Acad. Romana

C.P. - 12. MAIN GROUP ORGANOMETALLICS AS BUILDING BLOCKS FOR COORDINATION POLYMERS AND SUPRAMOLECULAR ARCHITECTURES

Cristian Silvestru

Babeș-Bolyai University Faculty of Chemistry and Chemical Engineering Cluj-Napoca

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.P. - 13. HOW RARE IS RARE?

Calin Deleanu^{1,2}

¹ „C.D. Nenitescu” Institute of Organic Chemistry, Bucharest, Romania

² „Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

VINERI / FRIDAY, 5 octombrie / october 2018

09⁰⁰ – 11⁰⁰ Președinte / Chairman:

Dr. ing. Petru FILIP

C.P. - 14. SILICON ALONG HUMAN HISTORY: A SCIENCE/TECHNOLOGY JOURNEY FROM SILICATES TO HIGH PERFORMANCE MATERIALS

Valeria Harabagiu

“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

C.P. - 15. SIMULTANEOUS ARSENIC AND CHROMATE REMOVAL FROM GROUND OR SURFACE WATERS BY FE(II), FE(III) OR MIXED COAGULANTS OF FE(II)/FE(III) SALTS

Ioannis Katsoyianis, Asterios Laskaridis, John Sarakatsianos

Aristotle University of Thessaloniki, Laboratory of Chemical and Environmental Technology Department of Chemistry, Greece

C.P. - 16. CHEMISTRY AND MATERIALS PERFORMANCES IN CULTURAL HERITAGE

Rodica-Mariana Ion^{1,2}

¹ *Research and Development National Institute for Chemistry and Petrochemistry - ICECHIM, Research Group: Evaluation and Conservation of Cultural Heritage, Bucharest, Romania*

² *“Valahia” University, Faculty of Materials Engineering, Targoviste, Romania*

11⁰⁰ – 11³⁰ Pauză / Coffee break

Hotel Cozia

**MIERCURI / WEDNESDAY, 03 octombrie / october
2018**

17⁵⁵ – 18³⁰

WORKSHOP REAXYS

**JOI / THURSDAY, 04 octombrie/october 2018
18³⁰ – 19³⁰**

WORKSHOP METROHM

**CONFERINȚE ÎN SECȚIUNI / LECTURES IN
PARALLEL SECTIONS**

**COMUNICĂRI ORALE ÎN SECȚIUNI / ORAL
COMMUNICATIONS IN PARALLEL SECTIONS**

SECȚIUNEA I / SECTION I

Chimie organică, bioorganică și alimentară / Organic, bioorganic and food chemistry

Hotel Cozia

JOI / THURSDAY, 4 octombrie / october 2018

**14⁰⁰ – 16⁰⁰ Președinte / Chairman:
Dr. Ing. Călin DELEANU**

CONFERINȚE / LECTURES

C.S.I. - 1. TAILORING THE IMMOBILIZATION SUPPORT FOR EFFICIENT ENZYMATIC SYNTHESIS OF NATURAL FLAVOR ESTERS

Corina Vasilescu¹, Anamaria Todea¹, Alexandrina Nan², Iulia Păușescu¹, Ioana-Cristina Benea¹, Rodica Turcu², Francisc Peter¹

¹ "Politehnica" University Timisoara, Biocatalysis Group, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania

² National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania

C.S.I. - 2. SYNTHESSES OF SECONDARY 2-[(4,5-DIPHENYL-4H-1,2,4-TRIAZOL-3-YL)THIO]-1-ARYLETHANOLS AND LIPASE MEDIATED KINETIC RESOLUTIONS OF THEM

Valentin Badea, Anamaria Todea, Horațiu Moldovan, Adinela Cimporescu, Francisc Peter

"Politehnica" University Timisoara, Biocatalysis Group, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.I. - 3. ANTIOXIDANT AND PROOXIDANT REACTIVITY IN NATURAL COMPOUNDS: MECHANISMS, INTERACTIONS WITH (METALLO)PROTEINS, AND PRACTICAL APPLICATIONS

Radu Silaghi-Dumitrescu

Department of Chemistry, "Babes-Bolyai" University, Cluj-Napoca, Romania

C.S.I. - 4. HYROGENATION OF PROSTAGLANDIN INTERMEDIATES FOR OBTAINING OCULAR ANTI-HYPERTENSIVE ANALOGUES OF LATANOPROST: PRODUCTS AND SECONDARY COMPOUNDS, QUANTITY OF CATALYST

Constantin I. Tănase¹, Florea Cocu¹, Constantin Drăghici², Anamaria Hanganu², Lucia Pintilie¹, Maria Maganu², Cristian V. A. Munteanu³, Sergiu Shova⁴

¹ National Institute for Chemical-Pharmaceutical Research and Development, Department of Bioactive Substances and Pharmaceutical Technologies, Bucharest, Romania

² "C.D.Nenițescu" Organic Chemistry Center of the Romanian Academy, Spectroscopy Laboratory, Bucharest, Romania

16⁰⁰ – 16³⁰ Pauză / Coffee break

**16³⁰- 18³⁰: Președinte / Chairman
Dr. ing. Constantin TĂNASE**

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.I. - 5. ESSENTIAL OILS AND THEIR APPLICATIONS

Dana Copolovici, Cristian Moisa, Andreea Pag, Smeurica Schitea, Nicoleta Mihoc, Lucian Copolovici

"Aurel Vlaicu" University, Faculty of Food Engineering, Tourism and Environmental Protection, Institute of Research, Development, Innovation in Technical and Natural Sciences, Arad, Romania

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CĂLIMĂNEȘTI – CĂCIULATA**

C.S.I. - 6. MONO VERSUS DISUBSTITUTION DISCRIMINATION ON β -DIKETONE AND AZOMETHINE COMPOUNDS USING NMR SPECTROSCOPY

Gabriela-Liliana Ailiesei¹, Alina Nicolescu¹, Vasile Cozan¹, Luminita Eugenia Wagner²

¹*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

² *Research and Development National Institute for Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania*

C.S.I. - 7. CHARACTERISATION OF WHITE GRAPE POMACE-PHENOLIC PROFILE

Simona Gavriș, Florentina-Daniela Munteanu

"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania

C.S.I. - 8. IN SILICO DRUG DESIGN AND MOLECULAR DOCKING STUDIES OF SOME NOVEL QUINOLONE DERIVATIVES AS ANTICANCER AGENTS

Lucia Pintilie¹, Constantin Tanase¹, Miron T. Caproiu²

¹ *National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, Romania*

² *"C.D. Nenișescu" Organic Chemistry Center, Bucharest, Romania*

C.S.I. - 9. PROTECTING DESIGNATIONS OF ORIGIN AND GEOGRAPHICAL INDICATIONS FOR MEAT PRODUCTS USING NMR SPECTROSCOPY

Cristina Todașcă¹, Mihaela Tociu¹, Tuan Nguyen¹, Fulvia Manolache², Valentin Ionescu², Sorin Rosca¹

¹ *"Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, "C.D. Nenișescu" Organic Chemistry Department, Bucharest, Romania*

² *National Research & Development Institute for Food Bioresources - IBA, Bucharest, Romania*

A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA

VINERI / FRIDAY, 5 octombrie / october 2018

11³⁰ – 13³⁰ Președinte / Chairman:
Dr. Ing. Cristina TODAȘCĂ

CONFERINȚE / LECTURES

C.S.I. - 10. SELECTIVE NOE EXPERIMENTS FOR STUDYING THE
CONFORMATION OF OLIGOSACCHARIDES

Ion Ghiviriga

University of Florida, Chemistry Department, Gainesville

C.S.I. - 11. SYNTHESIS AND PROPERTIES OF HETEROARYLAZO-1-AZULENES

Liviu Birzan¹, Alexandru C. Razus¹, Mihaela Cristea¹, Victorita Tecuceanu¹, Eleonora
Mihaela Ungureanu²

¹ "C.D. Nenițescu" Centre of Organic Chemistry of the Romanian Academy, Bucharest,
Romania

² "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Material Sciences,
Romania

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.I. - 12. NEW NICOTINATE AND ISONICOTINATE ORGANOTIN(IV)
COMPOUNDS WITH POTENTIAL BIOLOGICAL ACTIVITY

Sabina-Mădălina Vieriu¹, Emilia Licarete², Manuela Banciu², Richard A. Varga¹

¹ "Babeș-Bolyai" University, Centre of Supramolecular Organic and Organometallic
Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

² "Babeș-Bolyai" University, Department of Molecular Biology and Biotechnology, Faculty of
Biology and Geology, Molecular Biology Centre, Institute for Interdisciplinary Research in
Bio-Nano-Sciences, Cluj-Napoca, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
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C.S.I. - 13. SYNTHESIS, STRUCTURE AND ANTIMICROBIAL ACTIVITY OF NEW HOMODRIMANE SESQUITERPENOIDS WITH OXA- AND THIADIAZOLE UNITS

Aculina Aricu¹, Lidia Lungu¹, Alexandru Ciocarlan¹, Alic Barba¹, Nicoleta Vornicu², Ionel Mangalagiu³

¹ *Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova*

² *Metropolitan Center of Research T.A.B.O.R. Iasi, Romania*

³ *“Al. I. Cuza” University of Iasi, Faculty of Chemistry, Iasi, Romania*

C.S.I. - 14. MOLECULAR DOCKING STUDIES OF SOME NOVEL NONCLEAVABLE DUAL-ACTION MOLECULES WITH ANTIMICROBIAL ACTIVITY

Lucia Pintilie, Amalia Stefaniu, Constantin Tanase

National Institute for Chemical-Pharmaceutical Research and Development, Bucharest, Romania

C.S.I. - 15. TAILORED SYNTHESIS OF POLYESTER POLYOLS FROM PET WASTES USING METAL CONTAINING IONIC LIQUIDS

Robert-Andrei Țincu¹, Andrei Slabu¹, Maria Maganu¹, Monica Duldner², Bogdan Cursaru², Emeric Bartha¹

¹ *“C. D. Nenitescu” Organic Chemistry Center, Bucharest, Romania*

² *National Institute of Research and Development for Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania*

A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA

SECȚIUNEA II / SECTION II
Chimie anorganică, bioanorganică și analitică / Inorganic,
bioinorganic and analytical chemistry

Hotel Căciulata

JOI / THURSDAY, 4 octombrie / october 2018

14⁰⁰ – 16⁰⁰ : Președinte / Chairman
Prof. Radu SILAGHI DUMITRESCU

CONFERINȚE / LECTURES

C.S.II. - 1. THE HIGH AFFINITY OF SMALL-MOLECULE ANTIOXIDANTS FOR HEMOGLOBIN AND MYOGLOBIN

Cristina Puscas¹, Luana Radu¹, Francisco Carrascoza¹, Augustin Mot¹, Diana Amariei¹, Oana Lungu¹, Florina Scurtu¹, Paula Podea¹, Raluca Septelean¹, Alina Matei¹, Mihaela Mic², Radu Silaghi-Dumitrescu¹

¹ "Babeș-Bolyai" University, Department of Chemistry, Cluj-Napoca, Romania

² National Institute of Isotopic and Molecular Technologies, Department of Molecular and Biomolecular Physics, Cluj-Napoca, Romania

C.S.II. - 2. NOVEL HETEROTRISPIN COMPLEXES

A. A. Patrascu^{1,2}, S. Soriano³, M. G. F. Vaz² and M. Andruh¹

¹ University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Laboratory, Bucharest, Romania

² Universidade Federal Fluminense, Instituto de Química, Niterói, Rio de Janeiro, Brazil

³ Universidade Federal Fluminense, Instituto de Física, Niterói, Rio de Janeiro, Brazil

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.II. - 3. REȚELE COORDINATIVE CARBOXILICE ALE Co(II), Cd(II) și Zn(II) DECORATE CU LIGANZI NICOTINAMIDICI: SINTEZĂ, PROPRIETĂȚI FIZICO-CHIMICE

D. Chișca^{1,2}, L. Croitor¹, O. Petuhov³, Ed. B. Coropceanu^{2,3}, M. S. Fonari¹

¹ *Institute of Applied Physics, Chișinau, Moldova*

² *Tiraspol State University, Chișinau, Moldova*

³ *Institute of Chemistry, Chișinau, Moldova*

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.II. - 4. PLATINUM COMPLEX FORMATION ABILITY AND STABILITY CONSTANTS OF THIOSEMICARBAZONE LIGANDS

Madalin Damoc¹, Alexandru Stoica¹, Ionela Grecu¹, Mirela-Fernanda Zaltariov², Maria Cazacu²

¹ *"Al. I. Cuza" University, Faculty of Chemistry, Iasi, Romania*

² *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

C.S.II. - 5. TETRAKIS(4-CARBOXYPHENYL)STANNANE – A NEW ORGANOMETALLIC TECTON FOR THE CONSTRUCTION OF COORDINATION POLYMERS

Alexandru Sava¹, Teodora Mocanu², Sergiu Shova³, Marius Andruh², Cristian Silvestru¹

¹ *"Babeș-Bolyai" University, Centre of Supramolecular Organic and Organometallic Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania*

² *University of Bucharest, Inorganic Chemistry Laboratory, Faculty of Chemistry, Bucharest, Romania*

³ *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

C.S.II. - 6. TOWARDS A COMPREHENSIVE OVERVIEW OF E-O AND E-N CHEMICAL BONDINGS (E = Si, Ge, Sn) IN NEUTRAL AND CATIONIC SPECIES; A DFT CASE STUDY

Ionut-Tudor Moraru, Florin Teleanu, Gabriela Nemes

"Babeș-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

16⁰⁰ – 16³⁰ Pauză / Coffee break

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

**16³⁰- 18³⁰ : Președinte / Chairman
Prof. Cecilia ARSENE**

CONFERINȚE / LECTURES

**C.S.II. - 7. CONTRIBUȚII LA VALORIFICAREA ELEMENTELOR UTILE DIN CENUȘILE
PIRITICE DE VALEA CĂLUGĂREASCĂ**

Jack Goldstein¹, Liana Oșanu², Giulia Slavic¹, Mirela Miclean³

¹ S.C. CMC Chimie S.R.L., sat Cărbunar , jud. Maramureș, România

² A.C. Helcor S.A., Baia Mare, România

³ Administrația de Apă Someș – Tisa, Cluj-Napoca, România

**C.S.II. - 8. AI-FORECAST PROJECT (PN-III-P4-ID-PCE-2016-0299) BETWEEN
PREDICTION OF THE AEROSOL CHEMICAL COMPOSITION AND INTEGRATION OF
CERNESIM'S INFRASTRUCTURE IN A EUROPEAN CONTEXT**

Cecilia Arsen^{1,2}, Romeo Iulian Olariu^{1,2}

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

² "Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science
Studies in the North Eastern Region (CERNESIM), Romania

**C.S.II. - 9. SINTEZA ȘI DESIGNUL MOLECULAR AL COMPLECȘILOR V^{II, IV}, Fe^{III}, Co^I, Cu^{II}
ȘI Zn^{II} CU 2,6-DIACETILPIRIDINĂ BIS(IZO)NICOTINOILHIDRAZONE)**

Ion Bulhac, Olga Danilescu

Institutul de Chimie, Chișinău, Moldova

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

**C.S.II. - 10. COMPUȘI COORDINATIVI AI UNOR METALE TRANZIȚIONALE CU ACIDUL
2,2'-DITIODIBENZOIC ÎN PREZENȚA PUNȚILOR BIPIRIDINICE**

Aliona Vitiu^{1,2}, Lilia Croitor¹, Anatolii Siminel¹, Eduard Coropceanu^{2,3}, Polina Bouroș^{1,3}

¹ Institutul de Fizică Aplicată, Chișinău, Moldova

² Institutul de Chimie, Chișinău, Moldova

³ Universitatea de Stat din Tiraspol, Chișinău, Moldova

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.II. - 11. CHARGE TRANSFER AND POLARIZATION EFFECTS IN MgTE MAGNESIUM CHANNELS REGULATE SELECTIVITY

Dragos Lucian Isac¹, Andrei Neamtu^{1,2}, Tudor Vasiliu¹, Cornel Cojocaru¹, Anton Airinei¹, Mariana Pinteala¹

¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

² "Gr. T. Popa" University of Medicine and Pharmacy of Iasi, Department of Physiology, Iasi, Romania

C.S.II. - 12. STRUCTURAL INFLUENCE OF DIFFERENT COUNTER IONS IN COPPER(II) COMPLEXES WITH HEXADENTATE SCHIFF BASE AS LIGAND

Ildiko Buta¹, Anamaria Ardelean¹, Carmen Cretu¹, Peter Lönnecke², Evamarie Hey-Hawkins², Marius Andruh³, Otilia Costisor¹

¹ Institute of Chemistry of the Romanian Academy, Timisoara, Romania

² Leipzig University, Faculty of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Leipzig, Germany

³ University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Laboratory, Romania

C.S.II. - 13. ROLE OF SIROHEME AND THE Fe₄S₄ CLUSTER IN THE ACTIVE SITE OF SULFITE REDUCTASE

Adrian Brânzanic¹, Ulf Ryde², Radu Silaghi-Dumitrescu¹

¹ Department of Chemistry, "Babes-Bolyai" University, Cluj-Napoca, Romania

² Department of Theoretical Chemistry, Lund University, Lund, Sweden

VINERI / FRIDAY, 5 octombrie / october 2018

**11³⁰ – 13³⁰ : Președinte / Chairman
Dr. Jack GOLDSTEIN**

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.II. - 14. METAL COMPLEXES AS R₂ RIBONUCLEOTIDE REDUCTASE INHIBITORS: ELUCIDATION OF STRUCTURE-ACTIVITY RELATIONSHIP

Mirela-Fernanda Zaltariov

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

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.II. - 15. DETAILED CHARACTERIZATION OF HEAVY AND LIGHT CRUDE OIL ASPHALTENES BY EXPERIMENTAL AND SIMULATION APPROACHES

Salim Ok¹, Navvamani Rajasekaran¹, Muhammad Sabti¹, Raffaella Cabriolu², Mehdi Mahmoodinia², Anders Lervik², Titus van Erp²

¹ *Petroleum Research Center, Kuwait Institute for Scientific Research, Safat, Kuwait*

² *Norwegian University of Science and Technology (NTNU), Department of Chemistry, Trondheim, Norway*

C.S.II. - 16. NEW LIQUID-CRYSTALLINE PLATINUM(II) POLYCATENAR COMPLEXES FOR POLARIZED LIGHT EMISSION

A. A. Andelescui¹, A. M. Spirache¹, L. Cseh¹, O. Costișor¹, B. Donnio², and E. I. Szerb¹

¹ *Institute of Chemistry of the Romanian Academy, Timisoara, Romania*

² *Institut de Physique et Chimie des Matériaux de Strasbourg, Strasbourg, France*

C.S.II. - 17. COORDINATION POLYMERS OF VARIOUS TOPOLOGIES BUILT FROM TETRADENTATE SPACERS

Teodora Mocanu¹, Sergiu Shova², Cristian Silvestru³, Ion Grosu³, Marius Andruh¹

¹ *University of Bucharest, Inorganic Chemistry Laboratory, Faculty of Chemistry, Bucharest, Romania*

² *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

³ *"Babeș-Bolyai" University, Centre of Supramolecular Organic and Organometallic Chemistry, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania*

C.S.II. - 18. NEW ORGANOTIN(IV) COMPLEXES WITH VARIOUS DIMENSIONALITIES

Delia-Laura Popescu

University of Bucharest, Faculty of Chemistry, Inorganic Chemistry Department, Bucharest, Romania

C.S.II. - 19. NOVEL DIPHOSPHASTANAPROPENES. TOWARDS NEW UNSATURATED PHOSPHORUS CONTAINING DERIVATIVES

Raluca Septelean, Gabriela Nemes

"Babeș-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

C.S.II. - 20. SYNTHESIS, CHARACTERIZATION AND REACTIVITY STUDY OF SOME NEW GERMAPHOSPHAALKENYL TYPE DERIVATIVES

Lavinia Buta, Gabriela Nemes

"Babeș-Bolyai" University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.II. - 21. HOMO- AND HETEROMETALLIC COMPLEXES CONSTRUCTED FROM HEXAFLUOROACETYLACETONATO AND SCHIFF BASE COMPLEXES AS BUILDING-BLOCKS

Mihaela I. Mocanu¹, Sergiu Shova², Francesc Lloret³, Miguel Julve³, Marius Andruh¹

¹ *University of Bucharest, Inorganic Chemistry Department, Faculty of Chemistry, Bucharest, Romania*

² *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

³ *University of Valencia, Instituto de Ciencia Molecular (ICMOL), Valencia, Spain*

SECȚIUNEA III / SECTION III

Chimie macromoleculară și supramoleculară / Macromolecular and supramolecular chemistry

Hotel Caciulata

JOI / THURSDAY, 4 octombrie / october 2018

**14⁰⁰- 16⁰⁰ Președinte / Chairman:
Dr. Ing. Valeria HARABAGIU**

CONFERINȚE / LECTURES

C.S.III. - 1. THE PYRENE BOX: A READILY AVAILABLE, WATER SOLUBLE AND VERSATILE MOLECULAR CAPSULE

Dan G. Dumitrescu^{1,2}, Mihail Barboiu^{2,3}

¹ *Elettra - Sincrotrone Trieste S.C.p.A., Trieste, Italy*

² *Institut Europeen des Membranes, Adaptive Supramolecular Nanosystems Group University of Montpellier, France*

³ *Lehn Institute of Functional Materials, School of Chemistry, Sun Yat-sen University, China*

C.S.III. - 2. SURFACE RELIEF GRATINGS OF AZOBENZENE-CONTAINING POLYIMIDES

Ion Sava, Mariana-Dana Damaceanu

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

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

**C.S.III. - 3. SINTEZA UNOR POLIOLI PENTRU POLIURETANI PRIN REACTII
TIOL-ENE**

Mihail Ionescu¹ și Zoran S. Petrović²

¹ S.C. OLTCHIM S.A, Valcea, Romania

² Pittsburg State University, USA

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

**C.S.III. - 4. NONVIRAL VECTORS BASED ON DYNAMIC HYDROPHILIC-
HYDROPHOBIC IMINES**

Daniela Ailincăi, Mariana Pinteală, Luminița Marin

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

C.S.III. - 5. POLIIMIDE HETEROCICLICE CU UNITĂȚI DE TRIFENILAMINĂ

Andra-Elena Bejan, Cătălin-Paul Constantin, Mariana-Dana Dămăceanu

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

C.S.III. - 6. POLIIMIDE FUNCȚIONALIZATE PENTRU APLICAȚII IONOCROME

Adriana-Petronela Chiriac, Cătălin-Paul Constantin, Mariana-Dana Dămăceanu

Institutul de Chimie Macromoleculară "Petru Poni", Iași, România

C.S.III. - 7. CHIRAL BETULIN-IMINE CHITOSAN HYDROGELS

Manuela-Maria Iftime, Luminița Marin

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

16⁰⁰ – 16³⁰ Pauză / Coffee break

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

**16³⁰- 18³⁰ Președinte / Chairman:
Dr ing. Mihail IONESCU**

CONFERINȚE / LECTURES

C.S.III. - 8. POLY-2-OXAZOLINES - VERSATILE MATRIX FOR NON-LINEAR OPTICS OR BIO-MEDICAL APPLICATIONS

Victor Valentin Jerca, Florica Adriana Jerca, Cezar Mitica Spiridon, Nicoleta Doriana Stanciu, Emilian Ghibu, Dumitru Mircea Vuluga

"Costin D. Nenitescu" Centre for Organic Chemistry of the Romanian Academy, Bucharest, Romania

C.S.III. - 9. FINE-TUNING THE DESIGN OF HYDROGEN- AND HALOGEN-BONDING SUPRAMOLECULAR ANION RECEPTORS

Luiza Bondilă, Paul D. Beer

University of Oxford, United Kingdom

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.III. - 10. CHALLENGES IN SYNTHESIS, CHARACTERIZATION AND APPLICATIONS OF NOVEL BIOMIMETIC POLYMERS

Tatiana Munteanu, Ana-Maria Albu, Simona Andreea Popescu, Wanda Polipciuc

Faculty of Applied Chemistry and Materials Science Politehnica University of Bucharest, Bucharest, Romania

C.S.III. - 11. SYNTHESIS AND SELF-ASSEMBLIES OF AMPHIPHILIC CHIRAL AMINO ACID BASED-COPOLY(METHACRYLAMIDE)S IN AQUEOUS MEDIUM

Mioara Murariu, Emil. C Buruiana

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

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

**SECȚIUNEA IV / SECTION IV
Materiale noi și nanomateriale / Advanced materials and
Nanomaterials**

Hotel Căciulata

JOI / THURSDAY, 4 octombrie / october 2018

14⁰⁰ – 16⁰⁰

Președinte / Chairman:

Prof. Dr. Ing. Eleonora-Mihaela UNGUREANU

CONFERINȚE / LECTURES

**C.S.IV. - 1. TRYBOPOLYMERIZATION: MODERN TRENDS FOR ANTIWEAR
PROCESS**

Ana-Maria Albu

*“Politehnica” University of Bucharest, Faculty of Applied Chemistry and Materials Science,
Bioresources and Polymer Science Department*

**C.S.IV. - 2. PHENOTHIAZINE BASED MATERIALS FOR OPTO-ELECTRONIC
APPLICATIONS**

Luminița Marin

“Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

**C.S.IV. - 3. *p*-HYDROXYMANDELIC ACID AS A BRICK FOR DESIGNING A NEW
TYPE OF HIGHLY FUNCTIONALIZED POLYMERS**

Alexandrina Nan, Iolanda Ganea, Xenia Filip, Rodica Turcu

*National Institute for Research and Development of Isotopic and Molecular Technologies,
Cluj-Napoca, Romania*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.IV. - 4. NOVEL POLYMER ASSEMBLES WITH POTENTIAL USE AS SOLID ELECTROLYTES MEMBRANES

Marius Popa¹, Silvia Mathe¹, Ioana Maior², Ana-Maria Albu¹

¹ "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, Bioresources and Polymer Science Department, Bucharest, Romania

² "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, Inorganic Chemistry, Physical Chemistry and Electrochemistry Department, Bucharest, Romania

C.S.IV. - 5. EFFECT OF MICROWAVE ANNEALING TIME ON NANOSTRUCTURE FORMATION OF MESOPOROUS TITANIA PHOTOCATALYST

Mahu Elvira^{1,2}, Coromelci-Pastravanu Cristina¹, Ignat Maria^{1,2}, Samoila Petrisor², Harabagiu Valeria²

¹ "Alexandru Ioan Cuza" University, Laboratory of Materials Chemistry, Department of Chemistry, Iasi, Romania

² "Petru Poni" Institute of Macromolecular Chemistry, Laboratory of Inorganic Polymers, Iasi, Romania

16⁰⁰ – 16³⁰ Pauză / Coffee break

**16³⁰ – 18³⁰ : Președinte / Chairman
Conf. Dr. Ing. Ana-Maria ALBU**

CONFERINȚE / LECTURES

C.S.IV. - 6. ELECTROCHEMISTRY, A VALUABLE TOOL FOR ORGANIC CHEMISTRY, ANALYTICAL CHEMISTRY AND POLLUTION MONITORING

Eleonora-Mihaela Ungureanu

"Politehnica" University of Bucharest, Bucharest, Romania

C.S.IV. - 7. COMPETITIVE PHOTOCATALYTIC MATERIALS: PHOTOPOLYMERIZED HYBRID COMPOSITES CONTAINING TiO₂ NANOPARTICLES

Andreea L. Chibac, Tinca Buruiana, Violeta Melinte

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

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.IV. - 8. SILANE FUNCTIONALIZED FUMED SILICA FOR SILICONE RUBBER COMPOSITES

Ioana Chiulan, Elena Ruxandra Radu, Raluca Augusta Gabor, Cristian Andi Nicolae, Denis Mihaela Panaitescu, Adriana Nicoleta Frone, Valentin Rădițoiu

The National Institute for Research & Development in Chemistry and Petrochemistry, Bucharest, Romania

C.S.IV. - 9. STRUCTURAL BEHAVIOUR AND MAGNETIC PROPERTIES OF CERIUM DOPED COPPER FERRITES AT 600°C AND 950°C

Tiberiu Roman^{1,2}, Marius Zaharia^{2,3}, Aurel Pui², Sergiu Stanciu¹

¹ "Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering, Iasi, Romania

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

³ "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine, Faculty of Horticulture, Iași, Romania

C.S.IV. - 10. SYNTHESIS OF HYBRID COMPOSITES CONTAINING ZnO DOPED PARTICULES FOR PHOTOCATALYSIS APPLICATIONS

Viorica Elena Podășcă, Mariana-Dana Dămăceanu

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

VINERI / FRIDAY, 5 octombrie / october 2018

**11³⁰ – 13³⁰ : Președinte / Chairman:
Dr. Alexandrina NAN**

CONFERINȚE / LECTURES

C.S.IV. - 11. ROLE OF LATTICE DEFECTS SURROUNDING Fe/CoNx SITES IN GRAPHENE IN CATALYTIC ACTIVITY FOR OXYGEN REDUCTION IN FUELL CELLS

Isabela-Costinela Man, Stefan-Gabriel Soriga

"C. D. Nenițescu" Center of Organic Chemistry of Romanian Academy, Bucharest, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S.IV. - 12. POLIIMIDE CU RĂSPUNS CROMIC LA ACȚIUNEA UNOR STIMULI EXTERNI

Mariana-Dana Dămăceanu

Institutul de Chimie Macromoleculară "Petru Poni", Iași, România

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S.IV. - 13. PRELIMINARY INVESTIGATION IN SYNTHESIS AND CHARACTERIZATION OF EPOXY NETWORK NANOSTRUCTURES

George Mihai Teodorescu¹, Oana Cristea², Ana-Maria Albu¹, Celina Maria Damian¹, Cristî Andy Nicolae³

¹ "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science,

² Nanochem, Apollo Center, Bucharest, Romania

³ National Institute of Research and Development for Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania

C.S.IV. - 14. TRANSPORT PROPERTIES OF N-SUCCINYL CHITOSAN BASED MEMBRANES

Andra-Cristina Humelnicu, Cornel Cojocaru, Petrisor Samoila, Valeria Harabagiu

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

C.S.IV. - 15. PHOTOPOLYMERIZED HYBRID COMPOSITES CONTAINING Ag, Au or Ag-Au NPs WITH APPLICATION IN PHOTOCATALYTIC REDUCTION OF NITROAROMATIC DERIVATIVES

Lenuta Stroea, Emil C. Buruiana, Andreea Chibac, Violeta Melinte

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

C.S.IV. - 16. NEW 3D STRUCTURES FROM NANOCELLULOSE AND BIOPOLYMERS
Denis Mihaela Panaitescu¹, Adriana Nicoleta Frone¹, Ioana Chiulan¹, Cristian Andi Nicolae¹, Augusta Raluga Gabor¹, Madalina Calarasu¹, Sergiu Stoian¹, Roxana Trusca², Angela Casarica³

¹ National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania

² "Politehnica" University of Bucharest, Romania

³ National Institute for Chemical Pharmaceutical Research and Development, Bucharest, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

SECȚIUNEA V / SECTION V

**Protecția mediului și monitorizare & Inginerie chimică și bioinginerie /
Chemistry of the Environment & Chemical engineering and
bioengineering**

Hotel Căciulata

JOI / THURSDAY, 4 octombrie / October 2018

**14⁰⁰- 16⁰⁰ : Președinte / Chairman:
Dr. Lector Emese GAL**

CONFERINȚE / LECTURES

**C.S. V-1. GAS PHASE OZONOLYSIS OF BIOGENIC VOLATILE ORGANIC
COMPOUNDS**

**Iustinian Bejan^{1,2}, Romeo Iulian Olariu^{1,2}, Cecilia Arsene^{1,2}, John Wenger³, Paul
Seakins⁴**

¹ "Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science
Studies in the North Eastern Region - CERNESIM, Iasi, Romania

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

³ Department of Chemistry and Environmental Research Institute, Univ. College Cork,
Ireland

⁴ University of Leeds, School of Chemistry, University of Leeds, United Kingdom

C.S. V-2. MODELLING SMALL-SCALE WASTEWATER TREATMENT FACILITIES

Anders Stolan¹, Cristian Teodorescu¹, Isabela Corneanu²

¹ International Development Norway, Trondheim, Norvegia

² SC RITMIC COM SRL, Suceava, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

COMUNICĂRI ORALE / ORAL COMMUNICATIONS

C.S. V-3. THE EFFECTS OF DIFFERENT POLLUTANTS ON PLANTS AND ECOSYSTEMS

Lucian Copolovici, Andreea Pag, Monica Taschina, Cristian Moisa, Dana Copolovici
“Aurel Vlaicu” University, Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Technical and Natural Sciences Research-Development-Innovation, Arad, Romania

C.S. V-4. PHOTOHYDROLYSIS OF DINITROPHENOL POLLUTANTS ON ZINC FERRITE NANOPARTICLES

Marius Zaharia^{1,2}, Tiberiu Roman³, Laura Ion^{1,2}, Andana Mihai¹, Gheorghita Zbancioc¹, Aurel Pui¹, Robert Vasile Gradinaru¹ and Gabi Drochioiu¹

¹ *“Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Iasi, Romania*

² *“Ion Ionescu de la Brad” University of Agricultural Sciences and Veterinary Medicine, Faculty of Horticulture, Iasi, Romania*

³ *“Gheorge Asachi” Technical University of Iasi, Faculty of Materials Science and Engineering, Romania*

C.S. V-5. NOI POLIIMIDE PE BAZĂ DE TRIFENILAMINĂ PENTRU APLICAȚII ELECTROCROME

Cătălin-Paul Constantin, Andra-Elena Bejan, Mariana-Dana Dămăceanu
Institutul de Chimie Macromoleculară “Petru Poni”, Iași, România

C.S. V-6. PARTICIPARI ICSI RM. VALCEA IN PROIECTE INTERNAȚIONALE DE CERCETARE-DEZVOLTARE REFERITOARE LA HIDROGEN SI PILE DE COMBUSTIE

Ioan Iordache, Ioan Ștefănescu, Dorin Schitea, Iordache Mihaela
Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice ICSI, Ramnicu Valcea, România
Asociația pentru Energia Hidrogenului din România, Ramnicu Valcea, România

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

C.S. V-7. NON-VIRAL VECTORS BASED ON HYDROPHOBIC CORES AND POLYETHYLENIMINE

Dragoș Peptănăriu¹, Cristina Urîtu^{1,2}, Rodinel Ardeleanu¹, Andrei Dascălu¹, Andrei Neamțu^{1,2}, Mariana Pinteală¹

¹ “Petru Poni” Institute Of Macromolecular Chemistry, Centre Of Advanced Research In Bionanoconjugates And Biopolymers, Iasi, Romania

² “Grigore T. Popa” University Of Medicine And Pharmacy, Iasi, Romania

C.S. V-8. NMR MOUSE FOR STUDYING COLLAGEN-BASED ARTEFACTS

Claudiu Șendrea^{1,2}, Elena Badea^{1,3}, Cristina Carșote⁴, Noemi Proietti⁵, Valeria Di Tullio⁵

¹ National Research & Development Institute for Textiles and Leather, ICPI Division Bucharest, Advanced Research for Cultural Heritage (ARCH Lab) Group, Romania

² “Politehnica” University of Bucharest, Faculty of Applied Chemistry and Material Science, Bucharest, Romania

³ University of Craiova, Department of Chemistry, Faculty of Sciences, Craiova, Romania

⁴ National Museum of Romanian History, Bucharest, Romania

⁵ Magnetic Resonance Laboratory “Annalaura Segre”, Institute of Chemical Methodologies, CNR Research Area of Rome, Rome, Italy

POSTERE / POSTERS

Hotel COZIA

SECȚIUNEA I / SECTION I

Chimie organică, bioorganică și alimentară / Organic, bioorganic and food chemistry

MIERCURI / WEDNESDAY, 3 octombrie / october 2018

Discuții postere / Posters session: 18³⁵ – 19³⁰

P.S.I - 1. NEW BIS-PYRIDAZINE DERIVATIVES: DESIGN AND SYNTHESIS OF NEW POTENTIAL CANDIDATES FOR LEISHMANIASIS

Dorina Amăriucăi-Mantu¹, Vasilichia Antoci¹, Costel Moldoveanu¹, Philippe M. Loiseau², Sandrine Cojean², Ionel I. Mangalagiu¹

¹ "Alexandru Ioan Cuza" University of Iași, Faculty of Chemistry, Chemistry Department, Iași, Romania

² Université Paris-Sud, Faculté de Pharmacie, Antiparasitic Chemotherapy, Chatenay-Malabry, France

P.S.I - 2. MODIFIED IONIC LIQUIDS AS PET DEPOLYMERIZATION CATALYSTS: SYNTHESIS AND CHARACTERIZATION

Robert-Andrei Țincu¹, Mihai Deleanu¹, Andrei Slabu¹, Monica Duldner², Cristina Stavrache¹ and Emeric Bartha¹

¹ "C. D. Nenițescu" Organic Chemistry Center, Bucharest, Romania,

² National Institute of Research and Development for Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania

P.S.I - 3. CONFORMATIONAL VERSATILITY OF A NEW MACROCYCLE BASED ON 1,3-DIOXANE UNITS

Alexandra Bogdan^{1,2}, Andreea Petronela Crișan^{1,2}, Ionuț-Tudor Moraru², Ion Grosu^{1,2}

¹ Supramolecular Organic and Organometallic Chemistry Center (SOOMC)

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P.S.I - 4. NEW N-BRIDGEHEAD HETEROCYCLIC COMPOUNDS

**Emilian Georgescu¹, Florentina Georgescu², Alina Nicolescu^{3,4}, Daniela Marinescu¹
Florina Teodorescu⁴, Cristina Stavarache⁴, Călin Deleanu^{3,4}**

¹ *Research Center Oltchim, Ramnicu Valcea, Romania*

² *Teso Spec Srl, Fundulea, Calarasi, Romania*

³ *"PetruPoni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania*

⁴ *"C. D. Nenițescu" Center of Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I - 5. THE HALOGENATION OF THE NON-STEROIDAL ANTI-INFLAMMATORY
DRUG CARPROFEN**

**Denisa Dumitrescu¹, Alexandra Telehoiu,^{1,2} Mino R. Caira³, Constantin Draghici⁴
Carmen Limban² and Florea Dumitrascu⁴**

¹ *"Ovidius" University, Faculty of Pharmacy, Constanta, Romania*

² *"Carol Davila" Univ. Med. Pharm., Dept. Pharmaceut. Chem., Bucharest, Romania*

³ *Department of Chemistry, University of Cape Town, South Africa*

⁴ *Center for Organic Chemistry, Romanian Academy, Bucharest, Romania*

**P.S.I - 6. SYNTHESIS OF NEW POTENTIAL ACTIVE TRINORLABDANE
COMPOUNDS WITH 1,3-THIAZOLE UNITS**

Svetlana Blaja, Lidia Lungu, Aculina Aricu, Alexandru Ciocarlan

Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova

**P.S.I - 7. NEW HYBRID QUINOLINE DERIVATIVES ANCHORED WITH IMIDAZOLE
MOIETY**

**Dumitrelea Cucu¹, Dorina Amăriucăi-Mantu¹, Cătălina Ionica Ciobanu^{1*}, Violeta
Mangalagiu², Ionel I. Mangalagiu¹**

¹ *"Al. I. Cuza" University, Faculty of Chemistry, Chemistry Department, Department Research*,
Iasi, Romania*

² *"Al. I. Cuza" University, CERNESIM Research Center, Iasi, Romania*

**P.S.I - 8. PREPARATION AND CHARACTERIZATION OF NANOEMULSIONS
ENCAPSULATING ALLICIN EXTRACT FROM GARLIC**

**Mariana Deleanu^{1,2}, Elena Valeria Fuior¹, Mihaela G. Carnuta¹, Laura Toma¹, Mona E.
Popa², Anca V. Sima¹**

¹ *"Nicolae Simionescu" Institute of Cellular Biology and Pathology of the Romanian Academy,
Bucharest, Romania*

² *University of Agronomical Sciences and Veterinary Medicine, Faculty of Biotechnology,
Bucharest, Romania*

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P.S.I - 9. QUANTITATIVE MEASUREMENT OF CHEESE ADULTERATION WITH NON MILK FAT

Fulvia Manolache¹, Cristina Todașcă², Valentin Ionescu¹, Gabriela Stamatie¹, Claudiu Uțoiu¹, Enuța Iorga¹

¹ National Research&Development Institute for Food Bioresources - IBA Bucharest, Bucharest, Romania

² "Politehnica" University of Bucharest, Faculty of Applied Chemistry and Materials Science, "C. Nenițescu" Organic Chemistry Department, Bucharest, Romania

P.S.I - 10. LIQUID CRYSTAL DERIVATIVES CONTAINING FLUORENONE STRUCTURE

Daniela Haidu¹, Goran Ungar^{1,2}, Elisabeta Szerb, Liliana Cseh¹

¹ Institute of Chemistry of Romanian Academy, Timisoara, Romania

² Department of Materials Science and Engineering, Sheffield University, UK

P.S.I - 11. POLYFUNCTIONAL DERIVATIVES OF SUBSTITUTED 3-ALKYL / 3-ARYL 2,5-DIHYDROXY-1,4-NAPHTHOQUINONE (2-HYDROXYJUGLONE)

Timur Andrusenco, Fliur Macaev

¹ University of the Academy of Sciences of Moldova (UNAM) Dimitrie Cantemir

² Institute of Chemistry, Chisinau, Moldova

P.S.I - 12. SYNTHESIS AND STRUCTURE OF NEW 7,7'-(ETHENE-1,2-DIYL)BISINDOLIZINE DERIVATIVES

Monica-Cornelia Sardaru¹, Maria Sobaru¹, Catalina Ciobanu², Ramona Danac¹

¹ "Al. I. Cuza" University, Faculty of Chemistry, Chemistry Department, Iasi, Romania

² "Al. I. Cuza" University, Faculty of Chemistry, Research Department, Iasi, Romania

P.S.I - 13. BIOACTIVE PRODUCTS FROM MUSTARD OILSEEDS FOR CULTIVATED PLANTS NUTRITION AND PROTECTION

Mariana Popescu, Florin Oancea, Elena Radu, Mălina Deșliu-Avram

National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, Bucharest, Romania

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P.S.I - 14. DETERMINATION OF FATTY ACIDS CONTENTS FROM DIFFERENT COLD PRESSED OILS

Andreea Lupitu, Cristi Moisa, Dana Maria Copolovici, Lucian Copolovici

“Aurel Vlaicu” University, Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Technical and Natural Sciences Research-Development-Innovation, Arad, Romania

P.S.I - 15. SYNTHESIS AND CHARACTERIZATION OF NEW IMIDAZOLE SALTS

Dana Bejan, Sergiu Shova, Lucian Bahrin, Monica C. Sardaru, Alexandru Rotaru, Lilia Clima, Narcisa Marangoci

“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

P.S.I - 16. SYNTHESIS OF NEW BIOLOGICAL ACTIVE TETRANORLABDANE COMPOUNDS WITH 1,3,4-THIADIAZOLE UNITS

Lidia Lungu¹, Nadejda Tenu¹, Aculina Aricu¹, Alic Barba¹, Alexandru Ciocarlan¹, Nicoleta Vornicu²

¹ Institute of Chemistry, Academy of Sciences of Moldova, Chisinau, Moldova

² Metropolitan Center of Research T.A.B.O.R, The Metropolitanate of Moldavia and Bukovina, Iasi, Romania

P.S.I - 17. NEW IONIC LIQUIDS WITH IMIDAZOLE SKELETON BY ANION METATHESIS

Costel Moldoveanu¹, Gheorghică Zbancioc¹, Dorina Amăriucăi-Mantu¹, Vasilichia Antoci¹, Dana Bejan², Ionel Mangalagiu¹

¹“Al. I. Cuza” University Iasi, Faculty of Chemistry, Iasi, Romania

²“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania

P.S.I - 18. NOVEL PHENYLTHIAZOLE CONTAINING ORGANOSELENIUM COMPOUNDS WITH POTENTIAL BIOLOGICAL ACTIVITY

Roxana-Alexandra Popa¹, Emilia Licarete², Manuela Banciu², Anca Silvestru¹

¹ “Babeș-Bolyai” University, Centre of Supramolecular Organic and Organometallic Chemistry, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

² “Babeș-Bolyai” University, Molecular Biology Centre, Institute for Interdisciplinary Research in Bio-Nano- Sciences, Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Cluj-Napoca, Romania

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P.S.I - 19. PROCEDU DE OBTINERE A 4-(4-AMINOFENIL)-5-(METIL-4-IL)-4H-1,2,4-TRIAZOL-3-TIOL

Roman Rusnac, Nicanor Barbă, Aurelian Gulea

Universitatea de Stat din Moldova, Chișinău, Republica Moldova

P.S.I - 20. BENZO[F]QUINOLINE DERIVATIVES: SYNTHESIS AND BIOLOGICAL ACTIVITY

Liliana Oniciuc¹, Vasilichia Antoci¹, Ionel I. Mangalagiu¹, Gabi Drochioiu¹ and Violeta Mangalagiu^{1,2}

¹ "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, *CERNESIM Research Center Iasi, Romania

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JOI / THURSDAY, 4 octombrie / october 2018

Discuții postere / Posters session: 18³⁰ – 19³⁰

P.S.I - 21. INTRAMOLECULAR INTERACTIONS IN [2.2]PARACYCLOPHANES

Lucian M. Birsa, Lucian G. Bahrin, Laura G. Sarbu

"Alexandru Ioan Cuza" University of Iasi, Romania

P.S.I - 22. NEW HYPERCOORDINATED DIORGANOTIN(IV) COMPOUNDS WITH DITHIOCARBAMATO OR TETRAORGANODICHALCOGENOIMIDODIPHOSPHINATO LIGANDS

Eleonora Denes, Nora Chiorean, Anca Silvestru

"Babeș-Bolyai" University, Centre of Supramolecular Organic and Organometallic Chemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

P.S.I - 23. SINTEZA DERIVAȚILOR SPIRO ISATINICI

Bilan Dmitri

Institutul de Chimie, Chișinău, Moldova

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P.S.I - 24. SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF NEW 1,8-NAPHTHALENEDICARBOXYLIC ACID DERIVATIVES

Anton Airinei¹, Emilian Georgescu², Florentina Georgescu³, Alina Nicolescu^{1,4}, Florin Oancea⁵, Radu Tigoianu¹, Călin Deleanu^{1,4}

¹ "Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy Iasi, Romania

² Research Center Oltchim, Ramnicu Valcea, Romania

³ Teso Spec Srl, Fundulea, Calarasi, Romania

⁴ Center of Organic Chemistry "C. D. Nenițescu", Romanian Academy, Bucharest, Romania

⁵ National Research & Development Institute for Chemistry & Petrochemistry – ICECHIM, Bucharest, Romania

P.S.I - 25. CHEMICAL COMPOSITION, ANTIMICROBIAL ACTIVITY AND CHEMOINFORMATICS STUDY OF CACTUS (*Opuntia ficus-indica*) EXTRACT

Gheorghe-Lucian Irimia¹, Corina Duda-Seiman¹, Daniel-Marius Duda-Seiman²

¹ West University of Timișoara, Faculty of Chemistry, Biology, Geography, Chemistry-Biology Department, Timișoara, Romania

² "Victor Babeș" University of Medicine and Pharmacy, Timișoara, Romania

P.S.I - 26. OBȚINEREA 5-IZOTIOCIANATO-1,3-BENZOXAZOL-2-TIOL ȘI 5-IZOTIOCIANATO-N,N-DIMETIL-1,3-BENZOXAZOL-2-AMINĂ

Anna Rusnac, Roman Rusnac, Nicanor Barbă, Aurelian Gulea

Universitatea de Stat din Moldova, Chișinău, Republica Moldova

P.S.I - 27. MULTINUCLEAR NMR CHARACTERIZATION OF SCHIFF BASES CONTAINING A FUROXAN MOIETY

Ana-Maria Macsim¹, Emilian Georgescu², Alina Nicolescu^{1,3}, Florentina Georgescu⁴, Florin Oancea⁵, Calin Deleanu^{1,3}

¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania

² Research Center Oltchim, Ramnicu Valcea, Romania

³ "C.D. Nenițescu" Centre of Organic Chemistry, Bucharest, Romania

⁴ Research Dept., Teso Spec SRL, Fundulea, Calarași, Romania

⁵ National R&D Institute for Chemistry & Petrochemistry, Bucharest, Romania

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P.S.I - 28. MENTHA ESSENTIAL OIL APPLICATION FOR SHELF LIFE EXTENSION OF CEREAL AND PSEUDO-CEREAL BARS

Fulvia Manolache^{1,3}, Cristina Todașcă², Valentin Ionescu¹, Alina Dobre¹, Mirela Cucu¹, Luminița Catana¹, Enuța Iorga¹, Doru Ioan Marin³

¹ *National Research&Development Institute for Food Bioresources - IBA Bucharest, Bucharest, Romania*

² *University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, "C.D. Nenitescu" Organic Chemistry Department, Bucharest, Romania*

³ *University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania*

P.S.I - 29. THE EFFICIENCY OF INERT ADDITIVES ON PROPANE/AIR IGNITION BY ELECTRIC SPARKS

Codina Movileanu¹, Domnina Razus¹ and Dumitru Oancea²

¹ *"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania*

² *University of Bucharest, Department of Physical Chemistry, Bucharest, Romania*

P.S.I - 30. ANTIMICROBIAL ACIVITY OF SOME NEWHOMODRIMANE SESQUITERPENOIDS BEARING 1,3,4-OXADIAZOLE UNITS

Alexandru Ciocarlan¹, Lidia Lungu¹, Aculina Aricu¹, Ilker Ozer¹, Nicoleta Vornicu²

¹ *Institute of Chemistry, Chisinau, Moldova*

² *Metropolitan Center of Research T.A.B.O.R, The Metropolitanate of Moldavia and Bukovina, Iasi, Romania*

P.S.I - 31. HYBRID SYSTEMS TETRATHIAFULVALENES - [2.2]PARACYCLOPHANES

Laura G Sarbu, Lucian M Birsa

"Alexandru Ioan Cuza" University, Institute of Physical Chemistry, Iasi, Romania

P.S.I - 32. ALKYLPIRAZINES SYNTHESIS OVER Zn/Al MIXED OXIDE OBTAINED BY MECHANOCHEMICAL METHOD

Andrei Slabu¹, Octavian Pavel², Florina Teodorescu¹

¹ *"Costin D. Nenitescu" Centre for Organic Chemistry, Romanian Academy, Bucharest, Romania.*

² *University of Bucharest, Department of Organic Chemistry, Biochemistry and Catalysis, Faculty of Chemistry, Bucharest, Romania.*

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**P.S.I - 33. PHYSICAL AND CHEMICAL CHARACTERIZATION OF
CARBAMAZEPINE- β - CYCLODEXTRIN INCLUSION COMPOUNDS**

Adina Magdalena Musuc¹, Irina Atkinson¹, Emma Adriana Cretu² and Vlad Tudor Popa¹

¹ "Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania

² "Carol Davila" University of Medicine and Pharmacy Bucharest, Faculty of Pharmacy, Bucharest, Romania

**P.S.I - 34. SYNTHESIS, MOLECULAR MODELLING AND ANTICANCER
EVALUATION OF NEW PYRROLO[1,2-b]PYRIDAZINE AND PYRROLO[2,1-
a]PHTHALAZINE BASED DERIVATIVES**

Lacramioara Popovici¹, Roxana Amarandi¹, Anda-Mihaela Craciun¹, Ionel I. Mangalagiu¹, Ramona Danac¹

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

**P.S.I - 35. SYNTHESIS OF SOME NEW HOMODRIMANE SESQUITERPENOIDS
WITH 1,3,4-OXADIAZOLE FRAGMENT**

A.N. Aricu, K.I. Kuchkova, E.S. Secara, A.N. Barba, I.P. Dragalin, N.D. Ungur

Institute of Chemistry of the Academy of Sciences of Moldova., Chisinau, Moldova

**P.S.I - 36. GREEN ACCELERATED SYNTHESIS OF ANTIMICROBIAL
QUATERNARY AMMONIUM SALTS**

Georgiana Horincar¹, Bianca Furdui², Aurel Tăbăcaru², Rodica Mihaela Dinică³

¹ "Dunărea de Jos" University of Galați, Faculty of Food Science and Engineering, Department of Food Science, Food Engineering and Applied Biotechnology, Galați, Romania

² "Dunărea de Jos" University of Galați, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, Galați, Romania

**P.S.I - 37. SYNTHESIS OF NEW AZASTEROID DERIVATIVES WITH
FLUORESCENT PROPERTIES**

Gheorghită Zbancioc, Costel Moldoveanu, Vasilichia Antoci, Dorina Mantu, Ionel Mangalagiu

„Al. I. Cuza” University Iasi, Faculty of Chemistry, Iasi, Romania

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P.S.I - 38. METABOLIC DIFFERENCES IN GEOGRAPHICALLY SEPARATED POPULATIONS REVEALED BY NMR METABOLOMICS

Alina Nicolescu^{1,2}, Lăcrămioara Tîrnăcop¹, Lorena-Ivona Ștefan³, Calin Deleanu^{1,2}

¹ "Costin D. Nenitescu" Centre of Organic Chemistry, Roumanian Academy, Bucharest, Romania

² "Petru Poni" Institute of Macromolecular Chemistry, Roumanian Academy, Iasi, Romania

³ Clinical Emergency Hospital, Department of Diabetes, Nutrition and Metabolic Diseases, Craiova, Romania

P.S.I - 39. FROM MOLECULES TO CONTROL OF STRUCTURE AND FUNCTIONALITY OF HIGHLY REACTIVE SPECIES BY INCORPORATING THEM IN A DYNAMIC MOLECULAR SYSTEM

Ion Neda^{1,2,3}, M. Heiko Franz^{2,3}, Ionel Balcu³ and Corina Macarie³

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² InnoChemTech GmbH, Braunschweig, Germany

³ Institutul National de Cercetare Dezvoltare pentru Electrochimie si Materie Condensata Timisoara, Romania

SECȚIUNEA II / SECTION II
Chimie anorganică, bioanorganică și analitică / Inorganic,
bioinorganic and analytical chemistry

MIERCURI / WEDNESDAY, 3 octombrie / october 2018

Discuții postere / Posters session: 18³⁰ – 19³⁰

P.S.II. - 1. CATALYTIC EFFECT OF ORGANOBISMUTH(III) DICATIONS IN
MANNICH REACTIONS

János (Biró) Andrea, Ciprian I. Raț, Cristian Silvestru

*Centre of Supramolecular Organic and Organometallic Chemistry, Faculty of Chemistry and
Chemical Engineering, Babeș-Bolyai University, Cluj-Napoca, Romania*

P.S.II. - 2. X-RAY, EPR AND THERMAL STUDIES OF 2-HYDROXY-3-CARBOXY-
NAPHTHYLIDENEDITHIOCARBOMETOXYHYDRAZONE Cu(II) COORDINATION
POLYMER

A. Lazarescu¹, E.Melnic², P.Bourosh², Trachevskii³, A. Melnyk⁴

¹ *Institute of Chemistry, Chișinău, Republic of Moldova*

² *Institute of Applied Physics, Chișinău, Republic of Moldova*

³ *Technical Center of the NAS of Ukraine, Ukraine*

⁴ *Institute For Sorption and Endoecology Problems of the NAS of Ukraine, Ukraine*

P.S.II. - 3. A PRELIMINARY INVESTIGATION ON THE CHEMICAL COMPOSITION
OF SECONDARY ORGANIC AEROSOLS IN THE NORTH-EASTERN ROMANIA

Cornelia Amarandei¹, Alina Giorgiana Galon (Negru)¹, Anke Mutzel², Hartmut
Herrmann², Romeo-Iulian Olariu^{1,3}, Cecilia Arsene^{1,3}

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

² *Leibniz Institute for Tropospheric Research (TROPOS), Leipzig, Germany*

³ *"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science
Studies in the North Eastern Region, Iasi, Romania*

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P.S.II. - 4. BIOACTIVE BINUCLEAR COMPLEXES OF COPPER (II) AND COBALT (II) WITH A NEW SCHIFF BASE: 1,3-BIS[ORTHO-(2-CARBOXY-PHENYLIMINOMETHYL)-PHENOXY]PROPANE

Florina Ciolan¹, Anca Gănescu¹, Gabriela Dumitru¹, Elena Ionescu²

¹*University of Craiova, Faculty of Sciences, Department of Chemistry, Craiova*

²*University of Medicine and Pharmacy, Craiova, Romania*

P.S.II. - 5. DISPOSABLE ELECTRODE FOR TOTAL POLYPHENOLIC CONTENT ESTIMATION OF BEVERAGES

Iulia Gabriela David, Dana Elena Popa, Mihaela Buleandă, Lorelei Iordache, Mihaela Carmen Cheregi, Vasile David, Emilia Elena Iorgulescu

University of Bucharest, Faculty of Chemistry, Department of Analytical Chemistry, Bucharest, Romania

P.S.II. - 6. NEW MONONUCLEAR MANGANESE(II) COMPLEX BASED ON 2,6-DIACETYLPIRIDINE BIS(ISONICOTINOYLHIDRAZONE)

Maria Cocu¹, Lilia Croitor², Pavlina Bourosh², Tatiana Titica^{1,3}, Olga Danilescu¹, Ion Bulhac¹

¹*Institute of Chemistry, Chisinau, Republic of Moldova*

²*Institute of Applied Physics, Chisinau, Republic of Moldova*

³*State University "D. Cantemir", Chisinau, Republic of Moldova*

P.S.II. - 7. THERMAL PROPERTIES OF TWO 3d TRANSITION METAL COMPLEXES WITH HEXADENTATE SCHIFF BASE AS LIGAND

Anamaria Ardelean, Ildiko Buta, Viorel Sasca, Otilia Costisor

Institute of Chemistry of the Romanian Academy, Timisoara, Romania

P.S.II. - 8. METAL COMPLEXES OF A SILOXANE LIGAND DERIVED FROM PYRROLE 2-CARBALDEHYDE

Alexandra Bargan, Corina Ana Maria Dumitriu, Angelica Vlad, Maria Cazacu

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

P.S.II. - 9. SYNTHESIS AND CRYSTAL STRUCTURE OF ERBIUM(III) COMPLEX WITH 2,6-DIACETYLPIRIDINEBIS-(SEMICARBAZONE)

Radu Stafi¹, Sergiu Shova², Diana Dragancea¹

¹*Institute of Chemistry, Chisinau, Moldova*

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P.S.II. - 10. TOWARDS NEW LEWIS BASED SYSTEMS BASED ON BORON FUNCTIONALIZED CALIXARENES

Delia Grec, Jonathan Joly, Raluca Septelean, Gabriela Nemes

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University, Cluj-Napoca, Romania

P.S.II. - 11. GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS) ANALYSIS OF GASEOUS METHYLGLYOXAL AFTER DERIVATIZATION AND SOLID PHASE EXTRACTION

Ana-Maria Rusu¹, Claudiu Roman¹, Cecilia Arsene^{1,2}, Iustinian Gabriel Bejan^{1,2}, Romeo-Iulian Olariu^{1,2}

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

² "Alexandru Ioan Cuza" University of Iasi, CERNESIM, Iasi, Romania

P.S.II. - 12. SINTEZA ȘI STRUCTURA POLIMERULUI COORDINATIV 2D DE COBALT(II) CU 2,6-DIACETILPIRIDINĂ BIS(NICOTINOILHIDRAZONA)

Olga Danilescu¹, Ion Bulhac¹, Polina Bouroș²

¹ Institutul de Chimie, Chișinău, Moldova

² Institutul de Fizică Aplicată, Moldova

P.S.II. - 13. DENSITY FUNCTIONAL THEORY INVESTIGATION OF HYPOELECTRONIC EIGHT-VERTEX METALLABORANES

Raluca Anamaria Șeptelean,¹ Amr A. A. Attia,¹ Alexandru Lupan,¹ R. Bruce King²

¹ Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University Cluj-Napoca, Romania

² Department of Chemistry, University of Georgia, Athens, Georgia

P.S.II. - 14. ELECTROCHEMICAL CHARACTERIZATION OF SEVERAL PYRROLO PYRIMIDINES

Alina-Alexandra Vasile¹, Marian-Laurentiu Tatu¹, Georgiana-Luiza Tatu¹, Marcel Mirel Popa², Eleonora-Mihaela Ungureanu¹, Emilian Georgescu³

¹ "Politehnica" University of Bucharest, Bucharest, Romania,

² Institut of Organic Chemistry "C. D. Nenițescu " of the Romanian Academy, Bucharest, Romania

³ Research Center Oltchim, Ramnicu Valcea, Romania

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**JOI / THURSDAY, 4 octombrie / october 2018
Discuții postere / Posters session: 18³⁰ – 19³⁰**

**P.S.II. - 15. NICKEL(II) COMPLEX WITH A SCHIFF BASE SEMICARBAZONE
LIGAND**

Lidia Cuba¹, Elena Gorincioi¹, Pavlina Bourosh², Victor Kravtsov², Diana Dragancea¹

¹*Institute of Chemistry, Chisinau, Moldova*

²*Institute of Applied Physics, Chisinau, Moldova*

**P.S.II. - 16. INVESTIGATION ON NEW ATMOSPHERIC PARTICLES FORMATION
AND GROWTH IN IASI, NORTH-EASTERN ROMANIA**

Alina-Giorgiana Galon (Negru)¹, Romeo Iulian Olariu^{1,2}, Cecilia Arsene^{1,2}

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

²*"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region (CERNESIM), Romania*

**P.S.II. - 17. COMPARISON OF RETENTION BEHAVIOUR OF SOME AMINO-ACIDS
AND THEIR PEPTIDES ON TWO DIFFERENT COLUMNS, UNDER HILIC AND ZIC-HILIC
MECHANISMS**

Maria Tanase, Mihaela-Carmen Cheregi, Iulia-Gabriela David, Victor David

University of Bucharest, Faculty of Chemistry, Department of Analytical Chemistry

**P.S.II. - 18. CORRELATIONS BETWEEN NUMBER OF ELECTRONS AND
STRUCTURAL FEATURES OF NEUTRAL AND IONIC
(ER₃)₃ Z SPECIES (Z = B, C; E = Si, Ge, Sn; R = H, ME)**

Florin Teleanu, Ionut-Tudor Moraru, Gabriela Nemes

Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca, Romania

**P.S.II. - 19. SPECTROPHOTOMETRIC EVALUATION OF COMPLEX FORMATION
BETWEEN PLATINUM AND THIOSEMICARBAZONE DERIVATIVES IN AQUEOUS
SOLUTIONS OF METHANOL, DIMETHYLFORMAMIDE AND ACETONITRILE**

Alexandru Stoica¹, Madalin Damoc¹, Ionela Grecu¹, Mirela-Fernanda Zaltariov², Maria Cazacu²

¹*"Al. I. Cuza" University, Faculty of Chemistry, Romania*

²*"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

**P.S.II. - 20. COPPER(II) SALICYLIDENE-4-ALLYL-S-METHYL-
ISOTHIOSEMICARBAZIDATES CONTAINING AMINES**

Irina Usataia¹, Aliona Moldovan¹, Vasilii Graur¹, Victor Tsapkov¹, Olga Garbuz¹, Peter Petrenko², Yurii Chumakov², Aurelian Gulea²

¹ *Moldova State University, Chisinau, Moldova*

² *Institute of Applied Physics of Academy of Sciences of Moldova, Chisinau, Moldova*

**P.S.II. - 21. CONTRIBUTION TO Co(III) NITROCOMPLEXES CHEMISTRY. NEW
ANALOGUES OF NH₄Co[(NO₂)₄(NH₃)₂] COMPLEX WITH
HEXAMETHYLENETETRAMINE**

Anca Gănescu¹, Florina Ciolan¹, Gabriela Dumitru¹, Elena Ionescu²

¹ *University of Craiova, Faculty of Sciences, Department of Chemistry, Craiova, România*

² *University of Medicine and Pharmacy, Craiova, Romania*

**P.S.II. - 22. THE ROLE OF 1,3-BIS [(4-METHYLPHENYL) SULFONYL] -5-TERT-
BUTYL-BENZENE IN THE STABILIZATION OF SOME ORGANIC-TIN DERIVATIVES**

Diana Roxana Adespei, Noemi Deak, Raluca Septelean, Gabriela Nemes

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University, Cluj-Napoca, Romania

**P.S.II. - 23. COMPARING RPLC PAIRING ION SYSTEM AND HILIC SYSTEM FOR
NEUROTRANSMITTERS DETERMINATION**

Raluca-Ioana Tâmpu, Alina Gabriela (Birtea) Măciucă, Adriana-Luminița Finaru, Claire Elfakir

¹ *"Vasile Alecsandri" University of Bacau, Bacau, Romania*

² *Institut de Chimie Organique et Analytique, University of Orléans, France*

**P.S.II. - 24. SYNTHESIS, STRUCTURE AND BIOLOGICAL ACTIVITY OF SOME 3d-
METAL COORDINATION COMPOUNDS WITH N'-[(3-METHYL-5-OXO-1-PHENYL-4,5-
DIHYDRO-1H-PYRAZOL-4-YL)(PHENYL)METHYLIDENE]BENZOHYDRAZIDE**

Aurelian Gulea¹, Greta Bălan², Olga Burduniuc³, Cristina Emandei¹, Aliona Cotovaia¹, Victor Tsapkov¹

¹ *Moldova State University, Chisinau, Moldova*

² *State University of Medicine and Pharmacy "Nicolae Testemitanu", Chisinau, Moldova*

³ *National Public Health Agency, Chisinau, Moldova*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.II. - 25. INTERACTION OF PLATINUM(IV) IONS WITH POLYDENTATE N, O-DONOR LIGANDS: COMPLEX FORMATION ABILITY, STABILITY AND CYTOTOXICITY

Mirela-Fernanda Zaltariov¹, Mihaela Avadanei¹, Dragos Peptanariu²

¹ "PetruPoni" Institute of Macromolecular Chemistry, Iasi, Romania

² Centre of Advanced Research in Bionanoconjugates and Biopolymers (IntelCentru), "PetruPoni" Institute of Macromolecular Chemistry, Iasi, Romania

P.S.II. - 26. ICP-MS ANALYSIS OF RARE EARTH ELEMENTS IN SAMPLES ENRICHED BY USING ENVIRONMENTALLY FRIENDLY METHODS

Laurentiu-Valentin Soroaga^{1,2}, Cecilia Arsene^{1,2}, Catalin Borcia³, Romeo-Iulian Olariu^{1,2}

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

² "Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region (CERNESIM)

³ "Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Iasi, Romania

P.S.II. - 27. POLYNUCLEAR COORDINATION COMPOUNDS OF OXOVANADIUM(IV/V) WITH SCHIFF BASES DERIVED FROM AMINO ACIDS

Mihaela G. Cărnută, Andrei A. Pătrașcu, Mihai Răducă, Delia-Laura Popescu

University of Bucharest, Faculty of Chemistry, Department of Inorganic Chemistry, Bucharest, Romania

P.S.II. - 28. ONE-DIMENSIONAL COORDINATION POLYMERS OF ZN AND CD ASSEMBLED FROM 2-THIOPHENECARBOXYLIC ACID AND 1,2-BIS(PYRIDIN-4-YLMETHYLENE)HYDRAZINE LIGANDS

V. N. Lozovan^{1,2}, V. Ch. Kravtsov³, E. B. Coropceanu^{1,2}, M. S. Fonari³

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³ Institute of Applied Physics, Chisinau, Republic of Moldova

SECȚIUNEA III / SECTION III
**Chimie macromoleculară și supramoleculară / Molecular and
supramolecular chemistry**

MIERCURI / WEDNESDAY, 3 octombrie / october 2018

Discuții postere / Posters session: 18³⁵ – 19³⁰

**P.S.III - 1. ORGANOANTIMONY COMPOUNDS AS METALLOLIGANDS FOR
COORDINATION POLYMERS**

Ahmad Ben Kiran¹, Sergiu Shova², Cristian Silvestru¹

¹ *Centre of Supramolecular Organic and Organometallic Chemistry, Faculty of Chemistry
and Chemical Engineering, Babeș-Bolyai University, Cluj-Napoca, Romania*

² *"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

**P.S.III - 2. HIDROGELURI CU PROPRIETATI DE "AUTO-VINDECARE" DIN
RESURSE REGENERABILE**

Raluca I. Baron, Gabriela Biliuta, Madalina E. Culica, Sergiu Coseri

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

**P.S.III - 3. SELF-ASSEMBLED THERMOTROPIC LIQUID CRYSTALS BASED ON
Cu(I) COMPLEXES**

**Livia Deveseleanu-Corici¹, Carmen Cretu¹, Adelina A. Andelescu¹, Alessandra
Crispini², Liliana Cseh¹, Otilia Costisor¹, Massimo La Deda², Elisabeta I. Szerb¹**

¹ *Institute of Chemistry Timisoara of Romanian Academy, Timisoara, Romania*

² *Università della Calabria, MAT-INLAB (Laboratorio di Materiali Molecolari Inorganici),
Dipartimento di Chimica e Tecnologie Chimiche, Italy*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.III - 4. NEW DRUG RELEASE SYSTEMS BASED ON POLY(2-ISOPROPENYL-2-OXAZOLINE) HYDROGELS

Emilian Ghibu^{1,2}, Valentin Victor Jerca¹, Verona Tanta Iordache³, Dumitru Mircea Vuluga¹, Raluca Stan², Florica Adriana Jerca¹

¹ Centre of Organic Chemistry "Costin D. Nenitescu", Romanian Academy, Bucharest, Romania

² Department of Organic Chemistry "Costin Nenitescu", Faculty of Applied Chemistry and Materials Science, University POLITEHNICA of Bucharest, Romania

³ The National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, Bucharest, Romania

P.S.III - 5. THE SYNTHESIS AND X-RAY STRUCTURES OF TWO NEW BIMESITYL-BASED MAGNESIUM MOFS

Lucian G. Bahrin, Sergiu Shova, Dana Bejan, Alexandru Rotaru, Lilia Clima, Monica C. Sardaru, Narcisa L. Marangoci

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

P.S.III - 6. PHOTODEGRADATION OF LDPE-TIO₂ / PP-TIO₂ NANOCOMPOSITES FOR SHORT DURATION MATERIALS

Cristian-Andi Nicolae, Augusta Raluca Gabor, Valentin Rădițoiu, Adriana Frone, Michaela Doina Iorga

ICECHIM, Bucharest, Romania

P.S.III - 7. ROLE OF HYDROGEN-BOND INTERACTIONS OF TANNIC ACID WITH POLY (VINYL ALCOHOL) AND POLY (N-ISOPROPYLACRYLAMIDE) IN FORMING POLYMERIC MOLECULE CARRIERS

Salim Ok¹, Ahmet Altun²

¹ Petroleum Research Centre, Kuwait Institute for Scientific Research, Safat, Kuwait

² Max Planck Institute for Coal Research, Germany

P.S.III - 8. SPUME POLIURETANICE RIGIDE EXPANDATE CU AGENȚI DE EXPANDARE DIN GENERAȚIA A 4-A

Căpitanu Stanca, Tuță Ioana, Guță Elena, Cedică Mihaela

Centrul de Cercetare Oltchim, S.C. OLTCHIM S.A, Râmnicu Vâlcea, România

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

JOI / THURSDAY, 4 octombrie / october 2018

Discuții postere / Posters session: 18³⁰ – 19³⁰

P.S.III - 9. PHTHALIMIDE-N-OXYL RADICAL (PINO) AS MEDIATOR IN SELECTIVE CELLULOSE OXIDATION

Biliuță Gabriela, Sergiu Coseri

"Petru Poni" Institute Of Macromolecular Chemistry Of Romanian Academy, Iasi, Romania

P.S.III - 10. FLUORINATED TERPOLYMER THIN FILMS TREATED BY SOLVENT AND NON-SOLVENT VAPOUR ANNEALING

Salim Ok¹, Julia Sheets², Susan Welch², Savas Kaya⁴, Almaz Jalilov⁵, David R. Cole^{2,3}

¹ Petroleum Research Centre, Kuwait Institute for Scientific Research, Safat, Kuwait

² School of Earth Sciences and Department of Chemistry, The Ohio State University, Columbus, Ohio

⁴ School of Elec Eng & Comp Sci, Ohio University, Athens, Ohio

⁵ Chemistry Department, King Fahd University of Petroleum & Minerals, Dhahran

P.S.III - 11. STRATEGIES FOR OBTAINING HYDROPHOBIC MOFs BASED ON SILICON-CONTAINING CARBOXYLATE LIGANDS

Angelica Vlad, Mirela-Fernanda Zaltariov, Maria Cazacu, Sergiu Shova

"Petru Poni" Institute of Macromolecular Chemistry, Iasi Romania

P.S.III - 12. THE IN VITRO RELEASE OF A DRUG WITH ANTICANCER ACTIVITY FROM XEROGELS BASED ON CHITOSAN

Anda-Mihaela Craciun^{1,2}, Mariana Pinteala², Ramona Danac¹, Ionel I. Mangalagiu¹

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

² "Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.III - 13. LIPID BASED NON-VIRAL DYNAMIC VECTORS: INFLUENCE OF POLYETHYLENE GLYCOL RATIO FROM ITS COMPOSITION ON TRANSFECTION EFFICIENCY

Bogdan-Florin Crăciun, Lilia Clima, Gabriela Gavril, Dragoș Peptanariu, Mariana Pinteală

"Petru Poni" Institute of Macromolecular Chemistry, Center of Advanced Research in Bionanoconjugates and Biopolymers, Iasi, Romania

P.S.III - 14. NEW PYRIDINE/HYDROQUINONE BASED [2]ROTAXANES: SYNTHESIS OF THE BUILDING BLOCKS

Teodor-Aurelian Cucuiet, Cătălin Anghel, Niculina Hădade, Ion Grosu

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

P.S.III - 15. NEW HETEROGENEOUS SYSTEM FOR SELECTIVE OXIDATION OF VARIOUS POLYSACCHARIDES

Madalina-Elena Culica, Raluca-Ioana Baron, Gabriela Biliuta, Sergiu Coseri

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

SECȚIUNEA IV / SECTION IV

Materiale noi și nanomateriale / Advanced materials and Nanomaterials

MIERCURI / WEDNESDAY, 3 octombrie / october 2018

Discuții postere / Posters session: 18³⁵ – 19³⁰

P.S.IV - 1. ELECTROCHEMICAL STUDY OF CERTAIN TRIPHENYLBENZYLARSONIUM DERIVATIVES

Veronica Anastasoae¹, Cristian Omocea¹, Magdalena-Rodica Bujduveanu¹, Liviu Birzan², Eleonora-Mihaela Ungureanu¹

¹ *University "Politehnica" of Bucharest, Bucharest, Romania*

² *Institut of Organic Chemistry "C. D. Nenitescu" of Romanian Academy, Bucharest, Romania*

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.IV. - 2. NMR EVALUATION OF UREA RELEASE FROM SALICYL-IMINE-CHITOSAN HYDROGELS

Gabriela-Liliana Ailieseș¹, Manuela Iftime¹, Alina Nicolescu^{1,2}, Luminita Marin¹, Calin Deleanu^{1,2}

¹"Petru Poni" Institute of Macromolecular Chemistry, Roumanian Academy, Iasi, Romania

²"Costin D. Nenitescu" Centre of Organic Chemistry, Roumanian Academy, Bucharest, Romania

P.S.IV. - 3. IRON OXIDE–CELLULOSE NANOCOMPOSITES: COMPARISON BETWEEN ULTRASONICATION AND STIRRING SYNTHESIS METHODS

Rotaru Razvan, Savin Marcela, Peptu Cristian, Samoila Petrisor, Harabagiu Valeria

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

P.S.IV. - 4. HALLOYSITE NANOTUBES AS INNOVATIVE CONSOLIDANT FOR HISTORICAL LEATHER

Hadimbu Emanuel^{1,2}, Badea Elena^{1,3}, Carșote Cristina⁴, Miu Lucreția¹

¹Advanced Research for Cultural Heritage (ARCH Lab) Group, National Research & Development Institute for Textiles and Leather, ICPI Division, Bucharest, Romania

²Faculty of Applied Chemistry and Material Science, University Politehnica of Bucharest, Bucharest, Romania

³Department of Chemistry, Faculty of Sciences, University of Craiova, Craiova, Romania

⁴National Museum of Romanian History, Bucharest, Romania

P.S.IV. - 5. SYNTHESIS OF DISPERSED GOLD NANOPARTICLES ON REDUCED GRAPHENE OXIDE AND ITS APPLICATION AS ORR ELECTRODE FOR PEMFCs

Adriana Marinou, Radu Dorin Andrei, Andrei Lucian Constantin, Catalin Capris, Elena Carcadea

RD Institute for Cryogenics and Isotopic Technologies- ICSI, Rm Valcea, Romania

P.S.IV. - 6. A NOVEL METHOD TO PRODUCE POLYACRILONITRIL NANOFIBERS

Adriana Marinou¹, Daniela Marinescu², Constantin Teodorescu², Radu Dorin Andrei¹, Claudia Sisu¹, Irina Petreanu¹, Elena Marin¹

¹Institute for Cryogenics and Isotopic Technologies- ICSI, Ramnicu Valcea, Romania

²Research Center OLTCHIM SA, Ramnicu Valcea, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.IV. - 7. ZnO NANOSTRUCTURED HYBRID MATERIALS WITH ANTIBACTERIAL ACTIVITY FOR FUNCTIONAL COATINGS

Ioana Catalina Gifu¹, Otilia Ludmila Cinteza², Cristina Scomorosenco², Raluca Ianchis², Claudia Mihaela Ninciuleanu², Elvira Alexandrescu², Bogdan Trica¹, Cristina Lavinia Nistor¹, Sabina Georgiana Nitu¹, Cristian Petcu¹

¹ National Institute for Research & Development in Chemistry and Petrochemistry ICECHIM Bucharest, Romania

² Physical Chemistry Department, University of Bucharest, Bucharest, Romania

P.S.IV. - 8. FUNCTIONALIZED GRAPHENE-OXIDE WITH SELECTED AMINES AS BIOACTIVE MATERIAL

Irina Zarafu¹, Daniela C. Culiță², Simona Petrescu², Marcela Popa^{3,4}, Carmen M. Chifiriuc^{3,4}, Alexandra Telehoiu⁵, Carmen Limban⁵, Petre Ioniță²

¹ University of Bucharest, Faculty of Chemistry, Bucharest, Romania

² Institute of Physical Chemistry, Bucharest, Romania

³ University of Bucharest, Faculty of Biology, Bucharest, Romania

⁴ Research Institute of the University of Bucharest, Bucharest, Romania

⁵ "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania

P.S.IV. - 9. BIMETALLIC (Pt/AI) FUNCTIONALIZED SBA-15 BASED GRAPHITE PASTE MODIFIED ELECTRODE FOR PARACETAMOL DETECTION

Thi Thanh Hien Ngo¹, Thanh Huyen Pham¹, Liana Maria Muresan², Graziella Liana Turdean²

¹ Hanoi University of Science and Technology, School of Chemical Engineering, Hanoi, Vietnam

² "Babes Bolyai" University, Faculty of Chemistry and Chemical Engineering, Department of Chemical Engineering, Center of Electrochemistry and Non-Conventional Materials, Cluj-Napoca, Romania

P.S.IV. - 10. THE INFLUENCE OF GADOLINIUM ON THE MAGNETIC PROPERTIES OF FERRITES

Constantin Virlan¹, Mihail-Liviu Craus², Ovidiu Caltun³, Aurel Pui¹

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

² Laboratory of Neutron Physics – JINR, Dubna, Moscow region, Russia

³ Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi, Romania

**JOI / THURSDAY, 4 octombrie / october 2018
Discuții postere / Posters session: 18³⁰ – 19³⁰**

P.S.IV. - 11. EFFECT OF THE ULTRASOUND REGIME USED DURING SYNTHESIS ON THE PROPERTIES OF MESOPOROUS TITANIA

Cristina Coromelci¹, Elvira Mahu^{1,2}, Petrișor Samoilă^{1,2}, Corneliu Cojocaru^{1,2}, Maria Ignat^{1,2}

¹ *Laboratory of Materials Chemistry, Department of Chemistry, "Alexandru Ioan Cuza" University, Iași, Romania*

² *Laboratory of Inorganic polymers, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

P.S.IV. - 12. DESIGN OF NANOSTRUCTURED HETEROGENEOUS CATALYSTS IMMOBILIZED ON MESOPOROUS SILICA AND THEIR USE IN LIQUID OXIDATION

Violeta Niculescu¹, Simona Somacescu², Nicolae Aldea³, Vasile Rednic³, Viorica Parvulescu²

¹ *National Research and Development Institute for Cryogenics and Isotopic Technologies, Ramnicu Valcea, Romania*

² *"Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania*

³ *National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania*

P.S.IV. - 13. MECHANICAL AND THERMAL CHARACTERIZATION OF POLYLACTIC ACID COMPOSITES WITH NANO-TiO₂ FOR SHORT DURATION MATERIALS

Sergiu Stoian, Mădălina Călărășu, Cristian-Andi Nicolae, Valentin Rădițoiu, Denis Mihaela Panaitescu, Augusta Raluca Gabor

ICECHIM Bucharest, Bucharest, Romania

P.S.IV. - 14. HYDROPHILIC POROUS CARBON COMPOSITE FOR CAPTURE WATER VAPOR FROM AIR STREAM

Ignat Maria^{1,2}, Cojocaru Corneliu¹, Samoila Petrisor¹, Soreanu Gabriela³, Cretescu Igor³, Harabagiu Valeria¹

¹ *Laboratory of inorganic polymers, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*

² *Laboratory of Materials Chemistry, Department of Chemistry, "Alexandru Ioan Cuza" University, Iași, Romania*

³ *"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania*

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P.S.IV. - 15. SURFACE FUNCTIONALIZED ZnO NANOPARTICLES EMBEDDED IN PHOTOPOLYMERIZED ACRYLIC COMPOSITES

Violeta Melinte, Andreea-Laura Chibac, Viorica Podasca, Tinca Buruiana, Emil C. Buruiana
Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

P.S.IV. - 16. STABILIZATION OF ELECTROCHEMICALLY PREPARED SILVER NANOPARTICLES BY AQUEOUS SOLUTIONS OF POLYMERS

Sabina G. Nitu¹, Otilia L. Cinteza², Cristina L. Nistor¹, Raluca Ianchis¹, Cristina Scamoroscenco², Cristian Petcu¹, Claudia M. Ninciuleanu¹, Ioana C. Vacaresteanu¹, Elvira Alexandrescu¹

¹ *National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania*

² *Physical Chemistry Department, University of Bucharest, Bucharest, Romania*

P.S.IV. - 17. BIO-BASED POLYAMIDE WITH GRAPHENE NANOPATELETS USING A SIMPLE POLYMER PROCESSING APPROACH

Mihai Cosmin Corobea, Zina Vuluga, Dorel Florea, Michaela Iorga

National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Bucuresti, Romania

P.S.IV. - 18. MECHANICAL AND AESTHETIC PROPERTIES OF PMMA-WOLLASTONITE COMPOSITES

Zina Vuluga¹, Cristina Elizetxea², Mario Ordonez³, Mihai Cosmin Corobea¹, Michaela Iorga¹, Dorel Florea¹

¹ *National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Bucuresti, Romania*

² *Fundacion Tecnalia Research and Innovation, Donostia-San Sebastian, Spain*

³ *Maier Technology Centre, R&D Department, Polígono industrial Arabieta, Spain*

P.S.IV. - 19. INTELLIGENT BIO-HYBRID MATERIALS WITH INORGANIC NANOPARTICLES AND PLANT EXTRACT

Raluca Ianchis, Claudia Mihaela Ninciuleanu, Ioana Catalina Vacaresteanu, Elvira Alexandrescu, Cristina Lavinia Nistor, Sabina Nitu, Cristian Petcu

National Research and Development Institute for Chemistry and Petrochemistry – ICECHIM, Bucharest, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.IV. - 20. SUCCESFUL ELIMINATION OF A REFRACTORY PHARMACEUTIC COMPOUND FROM AQUEOUS SYSTEM USING NANOSIZED CATALYSTS

Iasmina-Florina Burlacu^{1,2}, Lidia Favier¹, Ecaterina Matei², Andra Predescu², Cristian Predescu²

¹École Nationale Supérieure de Chimie de Rennes, Rennes, France

²University Politehnica of Bucharest, Faculty of Material Science and Engineerin, Bucharest,, Romania

P.S.IV. - 21. NEW CANDIDATES FOR CONTROLLED DRUG DELIVERY BASED ON POLYETHYLENEGLYCOL DIACRYLATE AND NANOZEOLITE COMPOSITE NANOGELS

Anamaria Zaharia¹, Catalina Paula Spatarelu¹, Anita-Laura Radu¹, Bogdan Cursaru¹, Tanta-Verona Iordache¹, Ana-Mihaela Florea¹, Bogdan Trica¹, Andrei Sarbu¹, Mircea Teodorescu², Vlad Tofan³, François-Xavier Perrin⁴

¹ National Research and Development Institute for Chemistry and Petrochemistry-ICECHIM, Bucharest, Romania

² University "Politehnica" of Bucharest, Department of Bioresources and Polymer Science, Bucharest, Romania

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⁴ University of South Toulon-Var, Laboratoire Matériaux Polymères Interfaces et Environnement Marin, France

SECȚIUNEA V / SECTION V

**Protecția mediului și monitorizare & Inginerie chimică și bioinginerie /
Chemistry of the Environment & Chemical engineering and
bioengineering**

MIERCURI / WEDNESDAY, 3 octombrie / October 2018

Discuții postere / Posters session: 18³⁵ - 19³⁰

P.S.V. - 1. OPTIMIZATION OF EXTRACTION PARAMETERS FOR SOME ECO-FRIENDLY CORROSION INHIBITORS

Alina Gabriela Birtea (Măciucă), Raluca-Ioana Tâmpu, Oana-Irina Patriciu, Nicolae-Cătălin Tâmpu, Eugen Herghelegiu, Lucian Gavrilă, Adriana-Luminița Finaru

"Vasile Alecsandri" University of Bacau, Faculty of Engineering, Bacau, Romania

**A XXXV-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE
CĂLIMĂNEȘTI – CĂCIULATA**

P.S.V. - 2. STUDIUL DIZOLVĂRII OXIDATIVE A SULFURILOR METALICE PRIN FOLOSIREA ELECTROZILOR PASTĂ DE CĂRBUNE

Mihaela Petcu, Mădălina I. Duinea și Paul Chiriță

Universitatea din Craiova, Departamentul de Chimie, Craiova, România

P.S.V. - 3. INHIBAREA DIZOLVĂRII OXIADATIVE A MONOSULFURII DE FIER (FeS)

Madalina I. Duinea^{1,2}, Geta Cârâc², Ștefan Ghigu¹, Bianca Ghejan¹, Ana-Maria Sandu¹, Irina Dabuleanu¹, Lucian M. Birsa³ și Paul Chirita¹

¹ *Universitatea din Craiova, Departamentul de Chimie, Craiova, Romania*

² *Universitatea „Dunarea de Jos”, Departamentul de Chimie, Fizică și Mediu, Galați, România*

³ *Universitatea „A. I. Cuza”, Departamentul de Chimie, Iași, România*

P.S.V. - 4. TECHNICAL ASSESSMENT OF COPPER LIBERATION FROM ELECTRONIC COMPONENT FREE WASTE PRINTED CIRCUIT BASE BOARDS

Șzabolcs Fogarasi^{1,2}, Florica Imre-Lucaci², Melinda Fogarasi³, Arpad Imre-Lucaci^{1,2}

¹ *Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj Napoca, Romania*

² *Babes-Bolyai University, Interdisciplinary Research Institute on Bio Nano Sciences, Cluj Napoca, Romania*

³ *University of Agriculture Science and Veterinary Medicine, Department of Food Science and Technology, Cluj-Napoca, Romania*

P.S.V. - 5. CONVENTIONAL PYROLYSIS OF SOLID WASTES BIOMASS OBTAINED FROM SUGAR CANE BIOETHANOL INDUSTRY

Anca Sauciuc^{1,2}, Balázs Brém², Emese Gál²

¹ *ROCAT Synfuels SRL, Brașov, Brașov, Romania*

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P.S.V. - 6. CATIONIC DEXTRAN DERIVATIVES APPLICATION AS FLOCCULANTS

Luminița Ghimici, Marieta Nichifor

“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania

P.S.V. - 7. ELECTROCHEMICAL pH CONTROL FOR THE PROCESS OF METALS RECOVERY FROM WASTE PRINTED CIRCUIT BOARDS

Alexandru-Andrei Avram, Sorin-Aurel Dorneanu, Petru Ilea

“Babeș-Bolyai” University, Faculty of Chemistry and Chemical Engineering, Department of Chemical Engineering, Cluj-Napoca, Romania

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P.S.V. - 8. WEEE - RECYCLING I. CHEMICAL AND ELECTROCHEMICAL PROCESS FOR Zn-Mn BATTERIES RECYCLING

Larisa - Maria Podelenczki¹, Tudor Ungureanu¹, Oana Poptile¹, Ancuta Ghiriti¹, Petru Ilea^{1,2}, Sorin Aurel Dorneanu^{1,2}, Florica Imre-Lucaci²

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P.S.V. - 9. EFFECT OF ULTRASOUND AND MICROWAVE IRRADIATION ON ZEIN EXTRACTION

Olga Pintilie¹, Marius Zaharia^{1,2}, Manuela Murariu³, Cătălin Cloșcă¹, Cătălina Ciobanu¹, Gabi Drochioiu¹

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**JOI / THURSDAY, 4 octombrie / october 2018
Discuții postere / Posters session: 18⁰⁰ – 19³⁰**

P.S.V. - 10. STUDIES ON HERITAGE TEXTILE OBJECTS FOR INVENTORY AND CLASSIFICATION USING DIFFRACTOMETRIC TECHNIQUES

Marius Ghiurea¹, Radu Claudiu Fierăscu¹, Irina Fierăscu¹, Petronela Fotea^{1,2}

¹ National Institute for Research and Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania

² Romanian Peasant Museum, Bucharest, Romania

P.S.V. - 11. ASPECTS ON ADVANCED ISOTOPIC AND MULTIPARAMETRIC INVESTIGATION OF SEDIMENTS AS SUPORT IN ENVIRONMENTAL PROCESSES

Andreea Maria Iordache, Mihaela Iordache, Diana Costinel, Roxana Elena Ionete

National Research and Development Institute for Cryogenics and Isotopic Technologies - ICSI Ramnicu Valcea, Romania

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P.S.V. - 12. THE POLYCYCLIC AROMATIC CONTENT EVALUATION OF THE HYDROCARBONS (PAH) FROM THE WATER AND SEDIMENTS OLT RIVER RESERVOIRS

lordache Mihaela, Geana Irina, lordache Andreea, Sandru Claudia, Ionete Roxana, lordache Ioan

Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice ICSI, Rm. Valcea, România

P.S.V. - 13. CHANGES IN THE CHEMICAL COMPOSITION OF SOME ESSENTIAL OILS FROM LAMIACEAE FAMILY DURING DIFFERENT PHENOLOGICAL STAGES

Cristian Moisa^{1,2}, Lucian Copolovici¹, Georgeta Pop², Andreea Pag^{1,2}, Dana Copolovici¹

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² *Banat University of Agricultural Sciences and Veterinary Medicine „King Michael 1st of Romania” from Timisoara, Romania*

P.S.V. - 14. DETECTION OF CADMIUM IONS AT GLASSY CARBON ELECTRODES MODIFIED WITH ORDERED MESOPOROUS SILICA

Liana Maria Muresan¹, Ana-Maria Sacara¹, Graziella Turdean¹, Andrea Salis²

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² *Università degli Studi di Cagliari, CSGI, and CNBS, Dipartimento di Scienze Chimiche e Geologiche, Cittadella Universitaria, Monserrato (CA), Italy*

P.S.V. - 15. COMPARISON OF ELECTROCHEMICAL PROPERTIES OF SUBSTITUTED AZULENES

Mariana Popescu (Apostoiu)¹, Georgiana-Luiza Tatu¹, Liviu Birzan², Eleonora-Mihaela Ungureanu¹, Gabriela Stanciu³

¹ *“Politehnica” University of Bucharest, Romania*

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³ *Department of Chemistry and Chemical Engineering, Ovidius University, Constanta, Romania*

P.S.V. - 16. RATE COEFFICIENT OF THE GAS-PHASE ATMOSPHERIC OH RADICAL INITIATED OXIDATION OF 2-METHOXYPHENOL

Claudiu Roman¹, Cecilia Arsene^{1,2}, Iustinian Gabriel Bejan^{1,2}, Romeo Iulian Olariu^{1,2}

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P.S.V. - 17. STUDIES ON PHYSICO-CHEMICAL CHARACTERIZATION OF GEOTHERMAL WATERS FROM CALIMANESTI AREA

Luisa Roxana Popescu¹, Luoana Florentina Pascu², Carol Blaziu Lehr²

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² National Research and Development Institute for Industrial Ecology – INCD-ECOIND Bucharest, Romania

P.S.V. - 18. KINETIC STUDY OF THE GAS-PHASE OH RADICAL INITIATED OXIDATION OF 2-METHYLFURAN IN ATMOSPHERIC CONDITIONS

Claudiu Roman¹, Cecilia Arsene^{1,2}, Romeo Iulian Olariu^{1,2}, Iustinian Gabriel Bejan^{1,2}

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ABREVIERI / ABBREVIATIONS

A.S.M.	<i>Academia de Științe a Moldovei</i>
C.C.O.	<i>Centrul de Chimie Organică</i>
ECOIND	<i>Institutul Național de Cercetare – Dezvoltare pentru Ecologie Industrială</i>
ICECHIM	<i>Institutul Național de Cercetare – Dezvoltare pentru Chimie și Petrochimie</i>
I.C.M.	<i>Institutul de Chimie Macromoleculară</i>
I.N.C.D.	<i>Institutul Național de Cercetare-Dezvoltare</i>
I.N.C.D.F.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor</i>
I.N.C.D.P.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Protecția Muncii</i>
I.N.C.D.T.I.M.	<i>Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Izotopice și Moleculare</i>
I.N.C.D.T.C.I.	<i>Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice</i>
I.N.C.D.E.M.C.	<i>Institutul Național de Cercetare și Dezvoltare pentru Electrochimie și Materie Condensată</i>
U.M.F.	<i>Universitatea de Medicină și Farmacie</i>
U.S.A.M.V.	<i>Universitatea de Științe Agricole și Medicina Veterinară</i>

COMPLETARI

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