The 13th Symposium with International Participation

NEW TRENDS AND STRATEGIES IN THE CHEMISTRY OF ADVANCED MATERIALS WITH RELEVANCE IN BIOLOGICAL SYSTEMS, TECHNIQUE AND ENVIRONMENTAL PROTECTION

PROGRAM OF THE CHEMISTRY SYMPOSIUM

ONLINE EVENT, October 7-8, 2021 Timișoara, România

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POLITEHNICA UNIVERSITY OF TIMISOARA Faculty of Industrial Chemistry and Environmental Engineering

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Dr. Cristian NEANU Institute of Chemistry Timişoara

of the Romanian Academy



Thursday, 07 October 2021

OPENING SESSION

09.00-09.10

Dr. Otilia COSTISOR, Chairman of the Organizing Committee, Director of the "Coriolan Drăgulescu" Institute of Chemistry

PLENARY CONFERENCES & LECTURES

Chairmen: Dr. Otilia COSTISOR

09.10-09.40

PL1. <u>Evamarie HEY-HAWKINS</u>, Peter LÖNNECKE, John POPP, Axel STRAUBE

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

Redox-switchable catalysts

09.40-10.10

PL2. Ya-xin LI, Yi-nan XUE, Yan WANG, <u>Goran UNGAR</u>, Xiao-hong CHENG, Rui-bin ZHANG, Xiang-bing ZENG, Liliana CSEH, Hong-fei GAO, Feng LIU, Kutlwano GABANA, Gillian A. GEHRING

University of Sheffield, Department of Materials Science and Engineering, Sheffield, UK LC Consulting, Udine, Italia

Liquid crystal phase of counter-twisting ribbons and stars – first examples of antiferro- and ferrichirality

10.10-10.25

L1. Angela CANDREVA, Giuseppe DI MAIO, Francesco PARISI, Francesca SCARPELLI, <u>Massimo LA DEDA</u>

University of Calabria, Department of Chemistry and Chemical Technologies, Italy
Luminescent self-assembled monolayer on gold nanoparticles: tuning of
emission according to the surface curvature

10.25-10.40

L2. Petronela PASCARIU, Mihaela HOMOCIANU

"Petru Poni" Institute of Macromolecular Chemistry, Iasi

Electrospun cu doped TiO₂ nanofiber composites with high photocatalytic activity

10.40-10.55

L3. <u>Ionel SARACHIE</u>

ABL&E-JASCO Romania S.R.L.

"Jasco spectroscopic instruments used in supramolecular chemistry research"

Coffee Break 10.55-11.15

Chairmen: Prof. Dr. Francisc PÉTER

11.15-11.45

PL3. Gabriel DUNEȘ, Alpar PÖLLNITZ, Alexandru SAVA, <u>Cristian</u> SILVESTRU

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

Hypercoordinated organopnicogen(III) (Sb, Bi) compounds - C-H bond activation and reactivity

11.45-12.15

PL4. Gary HIX

School of Sciences, University of Wolverhampton, Wolverhampton, UK Luminescent MOFs and metal phosphonate materials

12.15-12.30

L4. Loredana RICCIARDI

CNR NANOTEC - Institute of Nanotechnology, Italy

Glioblastoma treatment with photo-nanotherapeutics: the synergistic combination [Ir(ppy)₂(en)]OOCCH₃ complex/gold nanoparticles

12.30-12.45

L5. <u>Rosario Mercedes Pérez COLODRERO</u>, Aurelio CABEZA, Gary HIX

Universidad de Málaga, Dpto Química Inorgánica, Facultad de Ciencias, Málaga, Spain Coordination polymers as biomedical platforms

Lunch Break 12.45-14.30

Chairmen: Dr. Liliana CSEH

14:30-15.00

PL5. G. Dan PANTOS, Dora-M. RĂSĂDEAN

University of Bath, Department of Chemistry, Bath, UK

Small molecule g-quadruplex binders: a supramolecular problem and solution?

15.00-15.30

PL6. Cristian MOISA, Andreea I. LUPITU , Adriana CSAKVARI, Dana RADU, Dorina CHAMBRE, Lucian COPOLOVICI, <u>Dana Maria</u> COPOLOVICI

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

Silver nanoparticles products for potential biological applications

15.30-15.45

L6. Toma GALAON

Agilrom Scientific S.R.L.

"An easy-to use, cost-effective LC/MSD solution for chromatographers"

Coffee Break 15.45-16.00

FLASH PRESENTATIONS/POSTERS

Chairmen: Dr. Elisabeta I. SZERB

16.00-16.05

FP1. <u>Giuseppe DI MAIO</u>, Angela CANDREVA, Francesco PARISI, Francesca SCARPELLI, Nicolas GODBERT, Iolinda AIELLO and Massimo LA DEDA

University of Calabria, Department of Chemistry and Chemical Technologies, Italy Preparation and characterization of gold nanocubes two-dimensional monolayers

16.05-16.10

FP2. <u>Angela CANDREVA</u>, Francesco PARISI, Rosa BARTUCCI, Rita GUZZI, Giuseppe DI MAIO, Francesca SCARPELLI, Iolinda AIELLO, Nicolas GODBERT, Massimo LA DEDA

University of Calabria, Department of Chemistry and Chemical Technologies, Italy Synthesis and characterization of hyper branched nanoparticles with magnetic and plasmonic properties

16.10-16.15

FP3. <u>Camelia EPURAN</u>, Ion FRATILESCU, Diana ANGHEL, Mihaela BIRDEANU , Eugenia FAGADAR-COSMA

"Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania Selection of the best sensitive material for uric acid detection from complexes of a functionalized porphyrin and CuNPs, PtNPs or Pt@CuNPs

16.15-17.00 Poster discussions

First day closing session

Friday 08 October 2021

PLENARY CONFERENCES & LECTURES

Chairmen: Dr. Aurelia VIŞA

09.00-09.30

PL7. Anca SILVESTRU

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

Organochalcogen compounds with relevance for biology. structure and reactivity

09.30-10.00

PL8. Konstantinos D. DEMADIS

Crystal Engineering Growth and Design Laboratory, Department of Chemistry, University of Crete, Heraklion, Greece

Fighting osteoporosis: controlled release drug delivery systems based on coordination polymers

10.00-10.15

L7. <u>Catalin-Paul CONSTANTIN</u>, Andra-Elena BEJAN, Mariana-Dana DAMACEANU

"Petru Poni" Institute of Macromolecular Chemistry, Electroactive Polymers and Plasmochemistry Department, Iasi, Romania

Effect of dianhydride segment structure on the electrochromic properties of novel triphenylamine-based polyimides

10.15-10.30

L8. Gabriel KISS, Gerlinde RUSU, Geza BANDUR, Francisc PÉTER

University Politehnica Timişoara, Faculty of Industrial Chemistry and Environmental Engineering, Timişoara, Romania

Achievements in polyurethane foam degradation and recycling, addressing current environmental challanges

10.30-10.45

L9. Mihai BALAS

Ronexprim

"RONEXPRIM - your reliable partner for integrated solutions in r&d for 30 years"

Coffee Break 10.45-11.00

Chairmen: Dr. Ramona CURPĂN

11.00-11.30

PL9. <u>Alessandra CRISPINI</u>, Francesca SCARPELLI, Debora POLICASTRO, Iolinda AIELLO, Massimo LA DEDA, Fabio MARCHETTI, Corrado DI NICOLA, Riccardo PETTINARI, Claudio PETTINARI

Department of Chemistry and Chemical Technologies, University of Calabria, Italy
Metal-based active biofilms: modulation of properties by using zinc and
silver coordination compounds

11.30-12.00

PL10. Mirabbos HOJAMBERDIEV

Berlin Technical University, Institute of Chemistry, Berlin, Germany

Bismuth-based layered photocatalytic materials for environmental remediation

12.00-12.30

PL11. Snežana USKOKOVIĆ MARKOVIĆ

University of Belgrade - Faculty of Pharmacy, Belgrade, Serbia

Are composites the best direction for developing new applications of tungstophosphates?

12.30-12.45

L10. <u>Konstantinos E. PAPATHANASIOU</u>, Vera I. ISAEVA, Pawel ZAJDEL, Leonid M. KUSTOV, Gary B. HIX

University of Wolverhampton, School of Sciences, University of Wolverhampton, Wolverhampton, United Kingdom

Bottom-up synthesis of novel 3- & 4-connected boron imidazolate frameworks

Lunch Break 12.45-14.30

Chairmen: Dr. Nicoleta PLEŞU

14.30-14.45

L11. Mariana-Dana DAMACEANU, Catalin-Paul CONSTANTIN

"Petru Poni" Institute of Macromolecular Chemistry, Electroactive Polymers and Plasmochemistry Department, Iasi, Romania

Phenoxazine-based polymers with blue and green light emission in solid state for light-emitting diode applications

14.45-15.00

L12. <u>Dora-M. RĂSĂDEAN</u>, Dan G. PANTOŞ

 ${\it University~of~Bath,~Department~of~Chemistry,~Bath,~U.K}$

Flavin-based molecular rotors

15.00-15.15

L13. Magdalena Cristina STANCIU, Marieta NICHIFOR

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

Dextran-based antimicrobial polymers

15.15-15.30

L14. <u>Ion FRATILESCU</u>, Zoltán DUDÁS, Mihaela BIRDEANU, Camelia EPURAN, Diana ANGHEL, Ionela FRINGU, Anca LASCU, Adél LEN, Eugenia FAGADAR-COSMA

"Coriolan Drăgulescu" Institute of Chemistry Timisoara, Romania

Hybrid silica materials containing platinum, impregnated with porphyrins and/or platinum nanoparticles for fuchsine B color removal from wastewaters

Closing Remarks

Thursday, 07 October 2021, 16.15 - 17.00

POSTER SESSION

- 1. PHOTOCATALYTIC COMPOSITE MEMBRANES FOR WATER TREATMENT: RESULTS, LIMITATIONS, AND NEW INSIGHTS Radu Mihaela HOMOCIANU, Petronela PASCARIU
- 2. SILVER TUNGSTOPHOSPHATE/BETA ZEOLITE A SOLUTION FOR PESTICIDE INDUCED OXIDATIVE STRESS Dejana JANIĆIJEVIĆ, Anka JEVREMOVIĆ, Aleksandra JANOŠEVIĆ LEŽAIĆ. Bojana NEDIĆ VASILJEVIĆ. USKOKOVIĆ-MARKOVIĆ. MILOJEVIĆ-RAKIĆ Maia Danica BAJUK-BOGDANOVIĆ
- 3. IN VITRO CYTOTOXIC RESPONSE OF THE BEA ZEOLITE/ACETAMIPRID SYNERGISTIC ACTION

 Anka JEVREMOVIĆ, Dragana ARSENIJEVIĆ, Aleksandar ARSENIJEVIĆ, Bojana NEDIĆ VASILJEVIĆ, Danica BAJUK-BOGDANOVIĆ, Maja MILOJEVIĆ-RAKIĆ
- 4. SYNTHESIS, CHARACTERIZATION AND CO₂ ADSORPTION-DESORPTION OF MCM-48 AND MCM-41 MOLECULAR SIEVE Silvana BORCĂNESCU, Alexandru POPA, Paul BARVINSCHI, Orsina VERDES, Mariana SUBA
- 5. 3D Cd(II) COORDINATION POLYMER ASSEMBLED FROM BIPHENYL-4,4'-DICARBOXYLIC ACID AND N,N'-(1,4-PHENYLENE)BIS(1- (PYRIDIN-4-YL)METHANIMINE)

	LIGANDS Vasile N. LOZOVAN, Victor Ch. KRAVTSOV, Marina S. FONARI
-	NOVEL vic-DIOXIME LIGANDS AND ITS ANTIMICROBIAL
6.	
	ACTIVITY Dumitru URECHE
_	
7.	THE CYCLIC ADSORPTION-DESORPTION OF CO ₂ ON KIT-6
	AND NI/KIT-6 STUDIED BY TEMPERATURE-PROGRAMMED
	DESORPTION M. GUIDA ALL DODA O VERDES GIL
	Mariana SUBA, Alexandru POPA, Orsina VERDEŞ, Silvana BORCĂNESCU, Paul BARVINSCHI
	,
8.	EXPLORATION OF MAO-B INHIBITORS AS A POTENTIAL
	ANTI-DIABETIC DRUG
-	Daniela ISTRATE, Luminita CRISAN, Alina BORA
9.	INSIGHTS INTO CRYSTAL STRUCTURE AND HIRSHFELD
	SURFACE ANALYSIS OF Cu(II) TRIETHANOLAMINE 4-
	NITROBENZOATE
	Anastasia GOROBET, Manuela E. CRISAN, Paulina N. BOUROSH, Lilia CROITOR
4.0	
10.	A WEB TOOL TO COMPUTE THE DIFFRACTION PRECISION
	INDEX OF PROTEIN STRUCTURES
11	Cristian NEANU, Sorin AVRAM
11.	PROSPECTIVE FLUORESCENT PLANT GROWIH REGULATORS AND
	THEIR RESPONSE IN PLANTS
	Manuela CRISAN, Liliana HALIP, Radu SUMALAN, Lilia CROITOR, Anatolii SIMINEL, Paulina BOUROSH, Yurii CHUMAKOV, Massimo MAFFEI
10	
12.	DISCRETE AND POLYMERIC Mn(II) COORDINATION COMPOUNDS WITH DIHYDRAZONE SCHIFF BASES
	Olga DANILESCU, Lilia CROITOR, Maria COCU, Paulina N.
	BOUROSH, Ion BULHAC, Victor Ch. KRAVTSOV, Oleg PETUHOV
13.	
13.	HOMO- AND HETEROMETALLIC Zn(II) AND Cd(II) COORDINATION POLYMERS CAPABLE OF RETAINING
	GUEST MOLECULES
	Olga DANILESCU, Paulina N. BOUROSH, Oleg PETUHOV, Olga V.
	KULIKOVA, Yurii M. CHUMAKOV, Ion BULHAC, Lilia CROITOR
14.	HIRSHFELD SURFACE ANALYSIS OF π - π STACKING
17.	INTERACTIONS IN THE CRYSTALS OF Cu(II) COMPLEXES
	WITH AROMATIC LIGANDS
_	

	Elena MELNIC, Yurii M. CHUMAKOV, Victor Ch. KRAVTSOV
15.	HETEROMETALLIC {Fe ^{III} 4Na ₂ } PIVALATE CLUSTER -
	SYNTHESIS AND STRUCTURE CHARACTERISATION
	Daniel PODGORNII, Svetlana G. BACA, Victor Ch. KRAVTSOV
16.	BIMETALLIC LIQUID CRYSTALLINE FUNCTIONAL
	MATERIALS
	Evelyn POPA, Bianca-Nicoleta BADESCU, Alexandru VISAN, Sorin
	MARINESCU, Ildiko BUTA, Carmen CRETU, Elisabeta I. SZERB
17.	LINEAR TRINUCLEAR COBALT(II) ISOBUTYRATE WITH
	1,10-PHENANTHROLINE
	Écaterina NIRCA, Victor Ch. KRAVTSOV, Svetlana G. BACA
18.	REMOVAL OF ACETYLSALICYLIC ACID FROM AQUEOUS
"	SOLUTIONS USING POLYMERS CONTAINING
	AMINOPHOSPHINIC GROUPS
	Radu ARDELEAN, Aurelia VISA, Adriana POPA, Manuela MIHETIU,
	Corneliu-Mircea DAVIDESCU
19.	POLYMERS OF VINYLPHOSPHONIC ACID WITH
	DIALKYLVINYL PHOSPHONATES AND THEIR
	ANTICORROSION PROPERTY
	Lavinia MACARIE, Nicoleta PLESU, Gheorghe ILIA, Milica TARA-
	LUNGA-MIHALI, Adriana POPA
20.	ORDERED MESOPOROUS SILICA FUNCTIONALIZED WITH
	AMINOPROPYL GROUPS BY CO-CONDENSATION AND POST
	GRAFTING
	Ana-Maria PUTZ, Oleksandr I. IVANKOV, Cătălin IANĂȘI, Marija
\square	MILANOVIĆ, Ivan STIJEPOVIĆ, László ALMÁSY
0.1	CRYSTALLINE MULTI-COMPONENT COMPOUNDS
21.	CRYSTALLINE MULTI-COMPONENT COMPOUNDS
21.	INVOLVING HEXAAMMINE COBALT(III) CATIONS AND
21.	INVOLVING HEXAAMMINE COBALT(III) CATIONS AND THEIR EFFECTS AGAINST PLANT PATOGENIC BACTERIA
21.	INVOLVING HEXAAMMINE COBALT(III) CATIONS AND THEIR EFFECTS AGAINST PLANT PATOGENIC BACTERIA Mariana DARII, Ecaterina NIRCA, Victor Ch. KRAVTSOV, Paulina
21.	INVOLVING HEXAAMMINE COBALT(III) CATIONS AND THEIR EFFECTS AGAINST PLANT PATOGENIC BACTERIA Mariana DARII, Ecaterina NIRCA, Victor Ch. KRAVTSOV, Paulina BOUROSH, Jürg HAUSER, Silvio DECURTINS, Shi-Xia LIU, Olga
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	INVOLVING HEXAAMMINE COBALT(III) CATIONS AND THEIR EFFECTS AGAINST PLANT PATOGENIC BACTERIA Mariana DARII, Ecaterina NIRCA, Victor Ch. KRAVTSOV, Paulina BOUROSH, Jürg HAUSER, Silvio DECURTINS, Shi-Xia LIU, Olga SULTANOVA, Svetlana G. BACA APPLICATION OF FULL FACTORIAL DESIGN FOR ADSORPTION OF METHYLENE BLUE DYE FROM AQUEOUS
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AND SEPABEADS SUPORTS	MAGNETIC
Ioan BÎTCAN, Andreea PETROVICI, Andrei ŞTEFA	N, Anamaria
TODEA, Iulia PĂUȘESCU, Francisc PÉTER	
24. ENZYMATIC APPROACH FOR THE SYNTHES	
CAPROLACTAM AND HYDROXY ACIDS POLYEST	
Ioana-Cristina BENEA, Diana Maria DREAVĂ, Anama	aria TODEA,
Lajos NAGY, Sándor KÉKI, Francisc PÉTER	
25. POLYMERIC SORBENT FOR DYE RETAINING	
Milica TARA-LUNGA-MIHALI, Nicoleta PLESU	
26. MODULATED SYNTHESIS OF Zr(IV) METAL-ORGA	
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Elena-Mirela PICIORUS, Alexandru POPA, Catalin IANA	ASI, Elisabeta
I. SZERB, Carmen CRETU	
27. NATURAL PRODUCTS AS ANTI-HIV AGENTS: AN	IN SILICO
INSIGHT	
Luminita CRISAN, Alina BORA	
28. MONO- AND OLIGONUCLEAR COMPLEXES BASE	ED ON A O-
VANILLIN DERIVED SCHIFF-BASE LIGAND	NEA Moring
Ildiko BUTA, Sergiu SHOVA, Sorina ILIES, Florica MAl ANDRUH, Otilia COSTISOR	NEA, Mailus
29. SYNTHESIS AND CHARACTERISATION	OF 2-
HYDROXYBENZYLIDENE DERIVATIVES	OF 2-
Livia DEVESELEANU-CORÎCI, Ana Maria PANĂ, And	ca BELEAN
Sergiu SHOVA, Valentin BADEA, Liliana CSEH	ou BEEER II I,
30. CHEMICAL SPACE ANALYSIS OF PROTEIN	N KINASE
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Luminita CRISAN, Liliana PACUREANU	
31. EXPLORING THE MOLECULAR BINDING MECHA	ANISMS OF
	ESTROGEN
RECEPTOR MODULATORS THROUGH MO	OLECULAR
DYNAMICS SIMULATIONS	
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Craig V. JORDAN	
	ECEPTORS
SUPERFAMILY	
Liliana HALIP, Ramona CURPAN, Ana BOROTA, Alina	BORA, Sorin

	AVRAM
33.	MANUKA HONEY AND ITS FLAVONOID COMPONENTS - AN AFFORDABLE THERAPEUTIC OPTION TO FIGHT SARS-COV-2 INFECTIONS: IN SILICO EVALUATION Alina BORA, Liliana HALIP, Sorin AVRAM, Luminita CRISAN
34.	BATCH AND CONTINUOUS FLOW AROMA ESTER SYNTHESIS BY SOL-GEL ENTRAPPED CANDIDA ANTARCTICA LIPASE B Ivana MILOŞ, Mădălina GHEORGHE, Corina VASILESCU, Francisc PETÉR, Cristina PAUL
35.	SYNTHESIS AND CHARACTERIZATION OF NEW RACEMIC SECONDARY ALCOHOL WITH 5-BENZYL-4-(4-METHYLPHENYL)-3-SULFANYL-1,2,4-TRIAZOLE STRUCTURE Ion BURCĂ, Vladislav-Silvestru VALICSEK, Valentin BADEA, Vasile-Nicolae
36.	A NEW LANDSCAPE FOR DRUG REPUROSING Sorin AVRAM, Ramona CURPĂN, Liliana HALIP, Alina BORA

Closing Conference