

Wednesday - 4 September 2019

Wednesday, 4 September 2019	Time	VIENA Room	Poster Session - Section 6
	12.00 - 17.00	Registration, collecting conference materials	
	17:00 – 17:30	Opening ceremony	
		PLENARY SESSION - 1	
		<i>Chaired by: Ileana Rau and Sorin Bildea</i>	
	17:30 – 18:05	Tanase Dobre (<i>University Politehnica of Bucharest, Romania</i>) <i>Stochastic Modelling in Chemical Engineering</i>	
	18:05 – 18:40	Olivier Siri (<i>Centre Interdisciplinaire de Nanoscience de Marseille - (CNRS / Aix-Marseille Université), France</i>) <i>Emerging conjugated zwitterions for photonics</i>	
	18:40 – 19:15	Jean-Noel Jaubert (<i>Ecole Nationale Supérieure des Industries Chimiques, Nancy, France</i>) <i>How to boost the performances of equations of state widely used in chemical engineering</i>	
	19:15 – 19:50	Luc Averous (<i>University of Strasbourg, France</i>) <i>From biomass to innovative polyurethane materials: our overview</i>	
	20:00	Welcome cocktail	

Thursday - 5 September 2019

Time	VIENA Room	
	PLENARY SESSION - 2	
	<i>Chaired by: Alina Badanou and Catalin Zaharia</i>	
08:30 – 09:05	Timothy Mason (<i>Centre for Research in the Built and Natural Environment, Coventry University, United Kingdom</i>) <i>40 Years of Sonochemistry</i>	
09:05 – 09:40	Luis Santos (<i>BASF HQ, Germany</i>) <i>Sustainable paints: an important contribution for a healthier life</i>	
09:40 – 10:15	Mihail Barboiu (<i>University of Montpellier, France</i>) <i>Encapsulation versus self-aggregation toward highly selective artificial K⁺- Channels</i>	
10:15 - 10:50	Sigurd Skogestad (<i>Norwegian University of Science and Technology (NTNU), Norway</i>) <i>Distillation is part of the future: A fresh look with focus on Divided-wall (Petlyuk) distillation columns</i>	
10:50 – 11:10	<i>Coffee Break</i>	
	PLENARY SESSION - 3	
	<i>Chaired by: Cristina Orbeci and Cristian Pirvu</i>	
11:10 – 11:45	Horia Iovu (<i>University Politehnica of Bucharest, Romania</i>) <i>New concepts for design and synthesis of advanced nanocomposites</i>	
11:45 – 12:20	Magdalena Ionita (<i>Head of Technical Development Petrobrazi Refinery OMV Petrom, Romania</i>) <i>Challenges and opportunities for oil processing industry – Horizon 2030</i>	
12:20 – 12:55	Gabriela Carja , (<i>Gheorghe Asachi Technical University of Iasi, Romania</i>) <i>Engineering self-assemblies of nanoparticles of metals/metal oxides-layered double hydroxides catalysts for obtained clean energy</i>	
12:55 - 13:30	Mihaela Stefan (<i>University of Texas, Dallas, USA</i>) <i>Functional Polycaprolactones for Drug Delivery Applications</i>	
13:30 – 15:00	<i>Lunch Break</i>	

Thursday, 5 September 2019

Poster Sessions - Section 6 and Section 3

ORAL PRESENTATIONS – Session 1

Time	VIENA Room Section 6 Chaired by: <i>Diana Dragusin and Catalin Zaharia</i>	ROMA Room Section 3 Chaired by: <i>Natalia Yakovleva and Cristian Pirvu</i>	BUCHAREST Room Section 2 Chaired by: <i>Daniela Istrati and Cristina Todasca</i>	CASINO Room Section 4 Chaired by: <i>Costin Sorin Bildea and Anton Alexandru Kiss</i>
15:00 – 15:10	Keynote S6 - 62 Gheorghe Fundueanu <i>Self-regulated drug delivery systems</i>	Keynote S3 - 106 Liana Anicai <i>Electrodeposition of Sn based ternary alloys using deep eutectic solvents</i>	Keynote S2 - 187 Stefan Theodor Tomas <i>Anthocyanes from Various Violet Berries</i>	Keynote S4 - 403 Valentin Plesu <i>Perspectives in collaboration between OMV PETROM and University POLITEHNICA of Bucharest</i>
15:10 – 15:20	S6 - 234 Ionut-Cristian Radu <i>Poly-N-isopropylacrylamide (PNIPAM)/magnetite smart nanoparticles loaded with complex doxorubicin-DNA fragments for breast cancer therapy</i>	S3 - 63 Natalia Yakovleva <i>Electrochemical anodizing of porous titanium sponge sintered powders</i>	Keynote S2 - 192 Mircea Vinitoru <i>Ultrasonically Assisted Extraction in Food Processing and the Challenges of Integrating Ultrasound into the Food Industry</i>	S4 - 29 Calin-Cristian Cormos <i>Chemical Looping Technology - An Energy Efficient Way for Reducing Carbon Footprint of Fossil-based Industrial Processes</i>
15:20 – 15:30	S6 - 39 Irina Popescu <i>Alginate-pluronic hydrogels obtained by thiol-ene photo-click reaction</i>	S3 - 309 Ionut Enculescu <i>Nanostructure based field effect transistors for sensing applications</i>		S4 - 314 George Rizea <i>Natural Gas Dehydration by Absorption and Membrane Separation: Process Simulation and Optimization</i>
15:30 – 15:40				Poster Sessions – Sections 1 and Section 5
Thursday, 5 September 2019				

Thursday, 5 September 2019	<p>15:40 – 15:50</p>	<p>S6 - 96 Elena Iuliana Biru <i>Synthesis of Hyperbranched Benzoxazine – Graphene oxide structures</i></p>	<p>S3 - 68 Sergei Chernyak <i>Stability and structure evolution of cobalt catalyst supported on carbon nanotubes in Fischer-Fropsch synthesis</i></p>	<p>S2 - 6 Ghassan F. Al-Samarrai <i>Application nano-composite (titanium dioxide) as an antifungal coating for orange fruit storage</i></p>	<p>S4 - 58 Mihai Daniel Moraru <i>Dynamics and control of heterogeneous reactive distillation</i></p>
	<p>15:50 – 16:00</p>	<p>S6 - 53 Sanda Bucataru <i>Design and development of sponge-type hydrogel composed of hyaluronic acid and poly(methylvinylether-alt-maleic acid) for biomedical applications</i></p>	<p>S3 - 260 Mihail Chira <i>Tribological behavior of Zn-Ni layers electrodeposited on different substrate</i></p>	<p>S2 - 9 Gavrilas Simona <i>Extraction and Electrochemical Determination of Organophosphorus Compounds Presented in Winery By-products</i></p>	<p>S4 - 38 Szabolcs Szima <i>Techno-Economic Analysis of the new Gas Switching Combustion Technology in a Coal-Fired Power Plant</i></p>
	<p>16:00 – 16:10</p>	<p>S6 - 376 George Mihail Vlasceanu <i>Synthesis and comprehensive characterization of composite biopolymer blend scaffold reinforced with graphene oxide and hydroxyapatite gradient density</i></p>	<p>S3 - 80 Kristina Stepanova <i>Anodic oxidation of powder titanium aluminide</i></p>	<p>S2 - 10 Benahmed Djilali Adiba <i>Extraction of Bioactive Substances of Vine Leaves and Their Functional Properties</i></p>	<p>S4 - 277 Elena Catalina Udrea <i>Modelling and simulation of TAME industrial process using gPROMS® platform</i></p>
	<p>16:10 – 16:20</p>	<p>S6 - 98 Andra Mihaela Onas <i>Synthesis of Albumin-Graphene oxide Complexes for Biomedical Applications</i></p>	<p>S3 - 83 Simona Popescu <i>Silk fibroin hybrid coatings for implantable titanium surface modification</i></p>	<p>S2 - 274 Ana-Maria Brezoiu <i>Enhanced radical scavenger properties of polyphenolic extract from grape marc through encapsulation into mesoporous silica-type matrices</i></p>	<p>S4 - 136 Andrei Maxim Andrei <i>Plantwide control of the olefin metathesis process</i></p>
	<p>16:20 – 16:30</p>	<p>S6 - 99 Georgiana Dana Dumitrescu <i>The Use of Cuttlefish Bone as Potential Mineralization Promotor in Polymers for Bone Reconstruction</i></p>	<p>S3 - 78 Evgeniya Suslova <i>Nitrogen-doped carbon nanotubes 3D frameworks: synthesis by spark plasma sintering, structural and thermochemical features</i></p>	<p>S2 - 218 Pascal Bonnet <i>An In silico Fragment-Based Design Tool for the Discovery of Novel Kinase Inhibitors</i></p>	<p>S4 - 5 Marina Mihalachi <i>In-silico modulate glycolytic oscillator in modified <i>E. coli</i> to control bioprocesses of industrial interest</i></p>

21st Romanian International Conference on Chemistry and Chemical Engineering

				Poster Sessions – Sections 1 and 5
Thursday, 5 September 2019	16:30 – 16:40	S6 - 35 Magdalena-Cristina Stanciu <i>Size and morphology of nanoparticles obtained by self-assembly of dextran based block copolymers</i>	S3 - 113 Sabrina Patricia Rosoiu <i>Electrodeposition of Ni-Sn Alloy/rGO composite coatings involving choline chloride based deep eutectic solvents</i>	S2 - 150 Bogdan Purcareanu <i>Fast screening of antibiotics in consumer products by HRMS</i>
	16:40 – 16:50	S6 - 104 Filis Curti <i>Development of 3D printed structures with controlled architecture for biomedical applications</i>	S2 - 258 Nicoleta-Mirela Blebea <i>Validation and Applications of a new HPLC Methods for determination of Captopril in Pharmaceutical Forms</i>	S4 - 92 Iulian Patrascu <i>Biobutanol purification by heat pump assisted azeotropic dividing-wall column: dynamics and control</i>
	16:50 – 17:00	S6 - 12 Khalid Saeed Lateef Al-Badri <i>Design Double Layers Structure based Dual Band Metamaterial Absorbers</i>	S2 - 297 Marin Gheorghe <i>Characterization by Impedance Spectroscopy of the Supercritical Fluid Extraction Process of Peppermint Volatile Oil</i>	S4 - 142 Mihaela Popescu <i>Carotenoids recovery from tomato pomace: conventional vs. green extraction method</i>
	17:00 – 17:15	Coffee Break		

ORAL PRESENTATIONS – Session 2

Time	VIENA Room Section 6 <i>Chaired by: Serguei Savilov and Ecaterina Andronescu</i>	ROMA Room Section 3 <i>Chaired by: Daniela Ionita and Anca Cojocaru</i>	BUCHAREST Room Section 2 <i>Chaired by: Ioan Calinescu and Adina Gavrila</i>	CASINO Room Section 4 <i>Chaired by: Tanase Dobre and Vasile Lavric</i>
17:15 – 17:25	Keynote S6 - 21 Rodica-Mariana Ion <i>Nanomaterials for the rescue of stone monuments</i>	S3 - 4 Konstantinos Dermentzis <i>Batch and continuously operated electrooxidation process for remediation of phenol</i>	Keynote S2 - 173 Ioan Calinescu <i>Microwaves and ultrasound - a stunning combination - applications in the food industry</i>	S4 - 227 Bogdan Trica <i>Modelling of ultrafiltration for the purification of alginate extracted from a brown seaweed in the Black Sea (<i>Cystoseira Barbata</i>)</i>
17:25 – 17:35		S3 - 230 Matei Raicopol <i>Dye sensitized solar cells based on ionic liquid crystal electrolytes</i>		S4 - 269 Cristian Eugen Raducanu <i>Modelling of batch biodiesel synthesis with external recirculation and simultaneous separation</i>
17:35 – 17:45	S6 - 37 Nicoleta Cioatera <i>Assessment on Doping Possibilities in Pyrochlore Titanates</i>	S3 - 15 Ileana Rau <i>All-biomaterials with multiple applications</i>	Keynote S2 - 199 Olívia Pereira <i>Antioxidant and hepatoprotection of <i>Mentha aquatica</i> L. and <i>Lavandula dentata</i> L. extracts</i>	S4 - 2 Marian Iosif Frincu <i>Electrochemical regeneration of the leaching solution for metals recovery from WPCBs</i>
17:45 – 17:55	S6 - 55 A.S. Viktorova <i>Carbon and nitrogen-doped carbon foam for Lithium-ion batteries</i>	S3 - 161 Eleonora-Mihaela Ungureanu <i>Identification and detection of heavy metal ions by voltammetry on azulene based CMEs</i>		S4 - 288 Ioan Alexandru Tutun <i>Modeling the cargo switchover without the risk of contamination</i>
17:55 – 18:05	S6 - 91 Ekaterina A. Arkhipova <i>Graphene nanoflakes: synthesis and application in supercapacitors</i>		S2 - 196 Daniel Costinel Petre <i>Inorganic ions as periodontitis vectors assessed with a new microsensor</i>	S4 - 47 Elena Catalina Udrea <i>Modelling and Optimization of Middle Vessel Batch Distillation</i>

Thursday, 5 September 2019

Poster Sessions - Section 1 and Section 5

Thursday, 5 September 2019

Poster Sessions - Section 1 and Section 5

<p>S6 - 108 R.Y Novotortsev 18:05 – 18:15 <i>Synthesis and properties of Cu/CNT composite materials for powder metallurgy and electronics</i></p> <hr/> <p>S6 - 267 Alexandra I. Cernencu 18:15 – 18:25 <i>Biocompatible Carbohydrate-based Inks for 3D Printing</i></p> <hr/> <p>S6 - 94 Elena Olaret 18:25 – 18:35 <i>Development of nanocomposite nerve guidance channel</i></p> <hr/> <p>S6 - 97 Elena Cojocaru 18:35 – 18:45 <i>Carboxyl-modified graphene oxide incorporated chitosan scaffolds as promising materials for bone tissue engineering</i></p> <hr/> <p>S6 - 304 Mihaela Dascalu 18:45 – 18:55 <i>Attempts to increase the electromechanical performance of siloxane elastomers</i></p> <hr/> <p>S6 – 406 Eugen Gheorghiu 18:55 – 19:05 <i>Enhanced analytic performances of biosensors by modulating optical waveguides resonance with magnetic / electric alternating fields</i></p>	<p>S2 - 349 Brindusa Alina Petre Clinical Diagnostics of Lysosomal Storage Disorders using MRM-MS and Fluorimetric Approaches</p> <hr/> <p>S2 - 168 Aurel Diacon Conventional and Ultrasound Assisted Extraction (UAE) of Lycopene from Siriana F1 hybrid and Pontica 102 Tomatoes</p> <hr/> <p>S2 - 313 Adrian Trifan Microwave Assisted Pretreatment of Lignocellulosic Biomass</p> <hr/> <p>S2 - 172 Anamaria Vartolomei Lyposyme 435 esterification activity improvement using short term treatments with ultrasounds</p> <hr/> <p>S2 - 176 Alexandru Vlaicu Optimization of ultrasound-assisted extraction (UAE) of biocomponents from microalgal biomass</p> <hr/> <p>S2 - 243 Alin Vintila Effect of MW and US treatment on microalgae growth</p>	<p>S4 - 191 Daniela Ghimpeteanu <i>Calorimetric determination of microwave energy absorption in - resonant or multimod applicators in a continuous-flow reactor</i></p> <hr/> <p>S4 - 375 Ramona Dusman (Radu) <i>Automated production of ⁶⁴Cu medical radioisotope using a variable energy cyclotron (TR-19)</i></p> <hr/> <p>S4 – 401 Stefan-Ovidiu Dima <i>Biochemical engineering aspects of hydrothermal carbonization of biomass</i></p> <hr/> <p>S4 – 402 Marius Ghiurea <i>In-situ catalytic conversion of lignocellulosic waste biomass using an alumina-Cu/Pd/Ce catalyst</i></p>
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Friday - 6 September 2019

Time	VIENA Room
PLENARY SESSION - 4	
<i>Chaired by: Raluca Stan and Anton Ficai</i>	
08:30 – 09:05	Serguei Savilov (<i>Lomonosov Moscow State University, Russian Federation</i>) <i>Periodic Table of the Elements: The Developing Alphabet of Science</i>
09:05 – 09:40	Philip T. Jaeger (<i>Eurotechnica GmbH, Germany</i>) <i>Recent developments and future potential of supercritical fluid technology</i>
09:40 – 10:15	Franck Suzenet (<i>University of Orleans, France</i>) <i>Polynitrogen containing heterocycles: from energetic materials to original and promising organic fluorophores</i>
10:15 – 10:50	Adamantini Paraskevopoulou , (<i>Aristotle University of Thessaloniki, Greece</i>) <i>Food properties as influenced by the addition of non-conventional ingredients</i>
10:50 - 11:15	Coffee Break
PLENARY SESSION - 5	
<i>Chaired by: Daniela Istrati and Paul Stancescu</i>	
11:15 – 11:50	Nicolay Tsarevsky (<i>Southern Methodist University, Dallas, USA</i>) <i>Synthesis and Applications of Branched Functional Polymers</i>
11:50 – 12:25	Ai Kah Soh (<i>Monash University Malaysia</i>) <i>Role of stress in electrochemical hysteresis for the applications in Lithium ion batteries</i>
12:25 – 13:00	Karol Chomicki (<i>ELSEVIER</i>) <i>How direct access to extracted experimental data is facilitating and speeding up a scientific research in Academia?</i>
13:00 – 15:00	Lunch Break

Friday, 6 September 2019

Poster Sessions – Section 1 and Section 4

ORAL PRESENTATIONS – Session 3

	VIENA Room Section 6 <i>Chaired by: Ai Kah SOH and Anton Ficai</i>	ROMA Room Section 3 <i>Chaired by: Jean-Noël Jaubert and Catinca Secuiianu</i>	BUCHAREST Room Section 5 <i>Chaired by: Madalina Pandele and Stefan Voicu</i>	CASINO Room Section 1 <i>Chaired by: Matei Raicopol and Florina Dumitru</i>
Time				
15:00 – 15:10	S6 - 117 Stepan Kupreenko <i>The influence of nitrogen doping on the adsorption of organic solvent vapors by carbon nanotubes and few-layer graphene nanoflakes</i>	Keynote S3 - 287 Catinca Secuiianu <i>Alternative green solvents for CO₂ capture: experiments and modeling</i>	Keynote S5 - 240 Stefan Ioan Voicu <i>Functionalization of Cellulose Acetate Membranes with AminopropylTriethoxySilane. Synthesis, Characterization and Applications</i>	Keynote S1 - 11 Raluca Stan <i>Vegetable Oils as Valuable Feedstock for Performant Materials</i>
15:10 – 15:20	S6 - 120 N.I. Osipov <i>Synthesis and intercalation of Ti₃C₂ with Li and Na</i>			
15:20 – 15:30	S6 - 124 Mariya S Paslova <i>Carbon-encapsulated iron particles fixed in a rigid CNT framework: synthesis by spark plasma sintering and catalytic properties in CO hydrogenation</i>	S3 - 148 Andrés Pina-Martinez <i>Methodologies of research for optimal working fluids for cycles of power generation and refrigeration machines</i>	Keynote S5 - 204 Florin Miculescu <i>Sustainable Technologies for Bone Reconstruction Ceramic Biomaterials Derived From Natural Sources and Porogen Agents</i>	Keynote S1 - 395 Sylvain Routier <i>Design of novel alpha7-nAchR ligands: from an idea to in rodent results for Alzheimer [¹⁸F] TEP imaging</i>
15:30 – 15:40	S6 - 134 Cristina Banciu <i>3D Graphene and 3D Graphene/ZnO Composites Preparation and Characterization</i>	S3 - 279 Sergiu Sima <i>Phase equilibria in systems of CO₂ and esters</i>		

Friday, 6 September 2019

Poster Sessions - Section 2

				S1 - 51 Vasilichia Antoci New PyrroloBenzQuinonePhthalazines and PyrroloBenz-QuinonePyridazines: Synthesis, Structure and Anti-leishmaniasis Activity
15:40 – 15:50	S6 - 198 Ioana Asofiea Self-cleaning waterborne paints based on TiO ₂ sensitized with mixed chromophore dyes	S3 - 286 Mihaela Ionita Phase equilibria and densities of carbon dioxide + 1-hexanol	S5 - 16 Radu Mircea Compressor Oil Assessment by using FT-IR Spectroscopy	
15:50 – 16:00	S6 - 268 Miruna-Silvia Stan Analyzing the interaction between different types of nanoparticles and serum albumin	S3 - 281 Radu Ciprian Racovita Experimental studies of several type 1 liquid-liquid ternary systems	S5 - 241 Oana Steluta Serbanescu Removal of Gd(II) onto functionalized Cellulose Acetate membranes with self indicator properties	S1 - 162 Karen Plé Gold catalyzed synthesis of spirocycles
16:00 – 16:10	S6 - 347 Narcisa Vrânceanu Enhanced Elimination of a Lipid Lowering Drug over Titanium Nanosized Catalysts and UV Irradiation	S3 - 395 Alexandra Vasile Removal of nitrogen compounds from wastewater by microemulsion	S5 - 244 Andreea Catalina Iordache Hemodialysis composite membrane with functionalized graphene for retention of heavy metals in case of intoxications	S1 - 180 Frédéric Buron Efficient functionalization of Imidazo[2,1-b][1,3,4]thiadiazoles, access to new kinases inhibitors
16:10 – 16:20	S6 - 72 Andreea L. Chibac Hybrid Polymer Composites with Ag, Au or Au-Ag NPs as Photocatalysts for the Degradation/Reduction of Nitroaromatics	S3 - 396 Daniela Catana Recovery of technological waste from the metalworking industry by microemulsion	S5 - 239 Alin Cristian Nicolae Vintila Integrate approach for liquid digestate treatment and valuable microalgae biomass production	S1 - 202 Robert-Andrei Tincu 5-Hydroxymethylfurfural Synthesis in Biphasic Solvent Systems
16:20 – 16:30	S6 - 225 Andreea Ion Nanohydrogels platforms for drug delivery systems by self-assembling of hydrophilic polymers	S3 - 397 Ana-Maria Manea-Saghir New biomaterials for application in photonics	S5 - 368 Silviu-Laurentiu Badea Reductive dechlorination of α -hexachlorocyclohexane in batch experiments with iron sulfide nanoparticles	Keynote S1 - 232 Beatrice Braun Cula An unusual and rare case of isomerism: Allogen isomers in a series of Fe(II) complexes

Poster Sessions - Section 2			
Friday, 6 September 2019	S6 - 183 Cristina Stavarache 16:30 – 16:40 <i>Mesalamine-loaded mucoadhesive particles with potential application for the treatment of inflammatory bowel disease</i>	S5 - 102 Strokova Natalia The influence of introduction of heteroatoms in carbon nanomaterial structure on organic pollutants adsorption	
	S6 - 197 Diana-Ioana Buliga 16:40 – 16:50 <i>Coloured materials with controlled absorption and emission for military camouflage</i>	S5 - 22 Maria Andreea Nistor Removal of dyes from aqueous solutions by photophonate metal organic frameworks	
	S6 - 115 Serguei V. Savilov 16:50 – 17:00 <i>From 0D to 3D Carbon Nanostructures</i>		Keynote S1 - 122 Delia-Laura Popescu New Organotin (IV) Coordination Compounds: Synthesis, Characterization, and Antimicrobial Activity
	17:00 – 17:15	Coffee Break	

ORAL PRESENTATIONS – Session 4

Time	VIENA Room Section 6 <i>Chaired by: Mihaela Stefan and Mariana Ionita</i>	ROMA Room	BUCHAREST Room	CASINO Room Section 1 <i>Chaired by: Maria Alexandru and Florina Dumitru</i>
	S6 - 236 Celina Maria Damian <i>Synthesis of Hybrid Nanostructures Based on Graphene Oxide and the Evaluation of Their Influence in Epoxy Nanocomposites</i>	S6 - 110 Adnana Spinu Zaulet <i>Glassy dynamics and charge transport of single-ion conductors in bulk and under two-dimensional geometrical constraint</i>	S6 - 257 Adi Ghebaur <i>Alginate superporous microparticle as drug delivery system</i>	Keynote S1 - 290 Catalin Maxim <i>On the role played by the chirality of ligands on the aggregation of heterometallic Cu^{II}-Hg^{II} complexes</i>
17:15 – 17:25				
17:25 – 17:35				
17:35 – 17:45				
17:45 – 17:55				

Friday, 6 September 2019

Poster Sessions - Section 2

Friday, 6 September 2019

	S6 - 116 Emilian Ghibu 17:55 – 18:05 <i>Poly(2-Isopropenyl-2-Oxazoline) Hydrogels as Drug Delivery Systems</i>	Keynote S1 - 23 Ioan-Cezar Marcu <i>Transition-metal-promoted CuCeMgAlO mixed oxide catalysts obtained from multicationic LDH precursors for methane total oxidation</i>
	S6 - 101 Jana Ghitman 18:05 – 18:15 <i>Hybrid PLGA-vegetable oils nanoparticles for improving stability and encapsulation efficiency of lipophilic drugs</i>	
	S6 - 84 Leu Rebeca 18:15 – 18:25 <i>Gelatin Methacryloyl with medical application</i>	S1 - 200 Andrei Slabu <i>A Comparative Study on the Catalytic Activity of Mixed Oxides Derived from LDH in the Synthesis of Methylpyrazine</i>
	S6 - 220 Elena-Alexandra Istratoiu 18:25 – 18:35 <i>Silk fibroin nanocarriers for the targeted delivery of 5-FU in cancer therapy</i>	S1 - 49 Gheorghe Ionita <i>Aspects Concerning the H₂-H₂O Isotopic Exchange Catalyse</i>
	S6 - 299 Maria Cazacu 18:35 – 18:45 <i>Contributions to Recent Developments in Silicone Materials: Dielectric Elastomer Transducers (DETs)</i>	S1 - 73 Raul-Augustin Mitran <i>Nanocomposite phase change materials using molten salts and mesoporous silica matrices</i>
	S6 - 93 Maria-Minodora Marin 18:45 – 18:55 <i>The effects of cross-linking agents on the properties of type II collagen biomaterials</i>	S1-294 Cezar Comanescu <i>Correlation of hyperthermia and magnetic measurements in nanosized cobalt ferrite systems</i>

Poster Sessions - Section 1 and Section 4

Friday, 6 September 2019

18:55 – 19:05

S1 - 282

Mihaela Deaconu

Mesoporous silica as materials for medicine. Colloidal versus mesostructured particles

19:05 – 19:15

S1 - 284

Simona Ionita

Properties of resveratrol encapsulated into mesoporous silica

19:15 – 19:25

S1-295

Daniel Lincu

Tailoring the resveratrol release profile from mesoporous silica through carrier surface modification

Poster Sessions - Section 1 and Section 4

POSTER PRESENTATIONS

Section 1 - Advances in Organic and Inorganic Chemistry & Catalysis**Thursday 5 September 2019****Time: 15:00 – 19:30**

S1 – 025 **Ludmila Motelica** (University Politehnica of Bucharest, Romania), Ovidiu Oprea, Alina Holban, Anton Ficai, *Optical, Photocatalytic and Antibacterial Properties of Zinc Oxide Nanoparticles*

S1 – 033 **Elena Melnic** (Institute of Applied Physics, Chisinau, Republic of Moldova), V. Ch. Kravtsov, E. Lucenti, E. Cariati, A. Forni, M. S. Fonari, *Copper(II) Coordination Compounds with Isomers of Cyclic Triimidazole and their Derivatives*

S1 – 041 **Diana Chisca** (Institute of Applied Physics, Chisinau, R. Moldova), V. Bold, V. Ch. Kravtsov, E. Lucenti, E. Cariati, A. Forni, M. S. Fonari, *Co(II), Zn(II) and Cd(II) Mononuclear Complexes with Two Isomers of Cyclic Triimidazole*

S1 – 048 **Aliona Vitiu** (Institute of Applied Physics, Chisinau, R. Moldova), D. Chisca, E. Gorincioi, E. Coropceanu, P. Bourosh, *Two New Zn(II) Coordination Compounds with Rhodanine-3-Acetic Acid: Synthesis and Biological Properties*

S1 – 050 **Dumitrela Cucu** (Alexandru Ioan Cuza University of Iasi, Romania) Vasilichia Antoci, Dorina Amariucai-Mantu, Catalina-Ionica Ciobanu, Costel Moldoveanu, Violeta Mangalagiu, Ionel I. Mangalagiu, *Design, Synthesis, Structure and anti-TB Activity of some New Pyridine Derivatives Anchored with Benzimidazole Moieties*

S1 – 052 **Nicu-Cosmin Ostache** (University of Orléans, France), Marie-Aude Hiebel, Adriana-Luminita Finaru, Gérald Guillaumet, Franck Suzenet, *Synthesis and reactivity of original pyrazolo[3,4-c]pyrazoles*

S1 – 077 **Aurel Tabacaru** ("Dunarea de Jos" University of Galati, Romania), Rodica Mihaela Dinica, Mariana Busila, Claudio Pettinari, *Novel antibacterial silver(I) coordination polymers based on a flexible bis(pyrazolyl)-type ligand*

S1 – 082 **Dana-Maria Preda** (University of Bucharest, Romania) Mirela Calinescu, Daniela Bala, Ioana Stanculescu, Vasile Bercu, Ticuta Negreanu-Pirjol, *Synthesis, Spectral Characterization, Electrochemical Behavior and Biological Activity of Some Cu(II) Complexes with 4-Aminoantipyrine Derivatives*

S1 – 088 **Daniela Mariana Rosioru** (National Institute for Marine Research and Development "Grigore Antipa", Constanta, Romania) Andra Oros, Valentina Coatu, Elena Stoica, Ticuta Negreanu Pirjol, *Estimation Of Rapana venosa (Valenciennes, 1846) Quality, A Marine Living Resource From The Romanian Black Sea With Economical Importance*

S1 – 095 Maria Marinescu, Ludmila-Otilia Cintea, **Mecu Maria-Madalina** (University of Bucharest, Romania), Marcela Popa, Mariana-Carmen Chifiriuc, George Iuliu Marton, *Synthesis, Biological Screening and DFT Studies of Novel Pyrazolones*

S1 – 111 **Floreia Dumitrescu** (Center for Organic Chemistry, Bucharest, Romania) Constantin Draghici, Oana G. Popa, Dan G. Dumitrescu, Carmen Limban, Denisa Dumitrescu, *The Nitration of the Non-steroidal Anti-inflammatory Drug: Carprofen*

S1 – 138 **Cristian Andrei Spinu** (University of Bucharest, Romania), Sergiu Calancea, Teodora Mocanu, Marius Andruh, *Nitronyl Nitroxide Ligand Derived from o-Vanillin*

S1 – 166 **Cleopatra Neagoie** (Guangzhou Institute of Biomedicine and Health Chinese Academy of Science, China), Sreenivas Avula, Micky Tortorella, *Synthesis of analogues of the marine alkaloids, Lamellarines*

S1 – 178 **Mihai Raduca** (University of Bucharest, Romania), Augustin M. Madalan, Marius Andruh, *3d and 4f Complexes with Symmetrical and Asymmetrical Mannich Base Derivatives*

S1 – 207 **Adrian Apostol** (University of Bucharest& National Institute for Research and Development in Microtechnologies, Bucharest, Romania), Teodora Mocanu, Catalin Maxim, Iuliana Mihalache, Oana Tutunaru, Cosmin Romanitan, Cristina Pachiu, Marius Andruh, *Novel [ZnⁿLn^m] luminescent coordination compounds deposited on graphene*

S1 – 208 **Madalin Damoc** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Alexandru Stoica, Maria Cazacu, *Attempts to Recover the Platinum Group Metals from Spent Automotive Catalytic Converters by Physical Methods*

S1 – 229 **Georgiana Cornelia Ispas** (National Research and Development Institute for Chemistry and Petrochemistry –ICECHIM, Bucharest, Romania), Valentin Raditoiu, Alina Raditoiu, Florentina Monica Raduly, Violeta Purcar, Raluca Manea, Luminita Eugenia Wagner, *The Effect of Hybrid Pigments on Reflectance Profile of Printed Cellulose Fabrics in Visible-Near Infrared Spectral Regions*

Section 1 - Advances in Organic and Inorganic Chemistry & Catalysis

Friday 6 September 2019

Time: 8:30 – 13:00

S1 – 248 **Raluca Sanda Komartin** (University Politehnica of Bucharest, Romania), Brandusa Balanuca, Anamaria Hanganu, Raluca Stan, *Anti-corrosion coatings based on crosslinking epoxidized Lallemandia oil and lignin*

S1 – 261 Violeta Purcar, **Raluca Manea** (National Research and Development Institute for Chemistry and Petrochemistry –ICECHIM, Bucharest, Romania), Valentin Raditoiu, Alina Raditoiu, Florentina Monica Raduly, Georgiana Cornelia Ispas, Luminita Eugenia Wagner, Adriana Frone, *Synthesis and characterization of photocatalytic TiO₂ sol-gel thin films*

S1 – 264 **Dan Razvan Popoviciu** ("Ovidius" University, Constanta, Romania), Ticuta Negreanu-Pirjol, Bogdan-Stefan Negreanu-Pirjol, *Carotenoids, flavonoids, total phenolic content and antioxidant activity of Cotoneaster horizontalis Decne. and Cotoneaster microphyllus Wall. ex Lindl. fruits*

S1 – 270 Ticuta Negreanu-Pirjol, **Sanda Jurja** ("Ovidius" University, Constanta, Romania), Mihaela Hincu, Bogdan-Stefan Negreanu-Pirjol, *Antioxidant activity of artificial tears – A promising offer for dry eye patients?*

S1 – 272 Sanda Jurja, **Ticuta Negreanu-Pirjol** ("Ovidius" University, Constanta, Romania), Mihaela Hincu, **Bogdan-Stefan Negreanu-Pirjol**, *Correlation between antioxidant activity of various xanthophylls pigment nutritional supplements and retinal safety in an UV - exposure environment*

S1 – 273 Rodica Tatia, **Christina Zalaru** (University of Bucharest, Romania), Isabela Tarcomnicu, Lucia Moldovan, Oana Craciunescu, Ioan Calinescu, *Isolation and Characterization of Hederagenin from Hedera helix L. Extract with Anti-tumor Activity*

S1 – 278 Andra Tatulescu, **Victor Cojocaru** (University of Bucharest, Romania), Bianca Patrascu, Christina Zalaru, Florea Dumitrascu, Constantin Draghici, Isabela Tarcomnicu, Maria Marinescu, Rodica Tatia, Lucia Moldovan, *Novel Substituted Pyrazole Hybrids With Anti-Tumor Activity*

S1 – 285 Anca G. Coman, Codruta C. Popescu, Marius C. Stoian, Antonio Radoi, Anca Paun, Petre Ionita, **Mihaela Matache** (University of Bucharest, Romania), *Synthesis of Novel Dia- and Para-Magnetic Multifunctional Organic Compounds*

S1 – 289 **Mioara Prundeanu** (University Politehnica of Bucharest, Romania), Ana-Maria Brezoiu, Mihaela Deaconu, C. Matei, O. Oprea, T. Negreanu-Pirjol, D. Berger, *Comparison between Salvia officinalis and Thymus serpyllum leaves extract properties embedded in titania matrices*

S1 – 296 Maria Marinescu, Alexandru Neculae, **Ludmila-Otilia Cintea** (University of Bucharest, Romania), Maria-Madalina Mecu, Christina-Marie Zalaru, Cristina Stavarache, Marcela Popa, Mariana-Carmen Chifiriuc, *Synthesis, Antimicrobial Activity and DFT Studies of New Tetrahydropyrimidines*

S1 – 307 **Cristian D.Ene** ("Ilie Murgulescu" Institute of Physical Chemistry, Romanian Academy&University of Bucharest, Romania), **Dragos Negreanu** (University of Bucharest, Romania), Diana Trandafir, Catalin Maxim, *Constructing heterotrispin systems by employing Anderson polyoxoanions*

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- S1 – 316** **Victoria Artem** (Research Station for Viticulture and Oenology Murfatlar, Romania), Ticuta Negreanu –Pirjol, Aurora Ranca, D.R. Popoviciu, Cristina Ciobanu, Anil Abduraman, Bogdan-Stefan Negreanu-Pirjol, *Total phenolic content and antioxidant activity of some grape marc hydroalcoholic extracts - white and red varieties*
- S1 – 327** **Andrei A. Patrascu** (University of Bucharest, Romania), Stéphane Soriano, Maria G. F. Vaz and Marius Andruh, *2p-3d-4f heterotrispin complexes with different metal ions bridged by one aminoxy group*
- S1 – 328** **Elena-Valentina Rosca** ("Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania), Ileana Cornelia Farcasanu, Lavinia Liliana Ruta, Theodora-Venera Apostol, Lucian Iscrulescu, Constantin Draghici, Florica Barbuceanu, Stelian Baraitareanu, Stefania-Felicia Barbuceanu, *Synthesis, characterization and toxicity assessment against *Saccharomyces cerevisiae* of some new compounds from oxazol-5-(4H)-ones and 1,2,4-triazin-6(5H)-ones classes*
- S1 – 334** **Iacob Andreea-Teodora** (University of Medicine and Pharmacy "Grigore T. Popa", Iasi, Romania), Maria Dragan, Luminita Confederat, Frederic Buron, Sylvain Routier, Lenuta Profire, *Azetidin 2-ones derivatives of amino-acids – synthesis and anti-oxidant evaluation*
- S1 – 344** **Florina Dumitru** (University Politehnica of Bucharest, Romania), Anca Razvan, *Functionalized mesoporous silicas (MCM-41, HMS) as heavy metal ions adsorbents*
- S1 – 358** **Raluca Diana Stoica** (University of Bucharest&"Horia Hulubei" National Institute for Physics and Nuclear Engineering, Bucharest, Romania), Luiza-Izabela Jinga, Roberta Stoica, Daniela Bala, Simona Nica, *Antitumoral activity of novel redox active azulene-containing chalcones*

POSTER PRESENTATIONS

Section 2 - Food, Health & Bioresources

Friday 6 September 2019

Time: 15:00 – 19:30

S2 – 31 **Hugo Goes** (Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal) Luís Pedro, Olívia R. Pereira, Jorge Sá Morais, M^a João Sousa, *Hop Bioactive Compounds: Spontaneous vs Commercial Varieties*

S2 – 45 Lucia Pirvu, Sultana Nita, Bujor Albu, Fawzia Sha'at, **Ramona-Daniela Pavaloiu** (National Institute for Chemical-Pharmaceutical Research and Development – ICCF Bucharest, Romania), Cristina Bazdoaca, Roxana Donciu, Ionica Bajenaru, Bianca Tihauan, Cristina Balas, Alina Perisoara, Adina Mara Mihai, Crina Maria Kamerzan, *Diffusion studies on the standardized propylene glycol extracts from Malva neglecta L. and Epilobium hirsutum L. extracts for cosmetic use*

S2 – 86 **Bianca-Maria Tihauan** (Concordia Holding SRL, Calugareni, Romania), Alina Perisoara, Cristina Balas, Crina Maria Kamerzan, Adina Mara Mihai, Lucia Pirvu2, Bujor Albu, Fawzia Sha'at, Ramona Pavaloiu, *Novel cosmetic formulation based on standardized propylene glycol extracts from Malva neglecta L. and Epilobium hirsutum L. with anti-acne and hydrating effect*

S2 – 128 **Mihaela Carmen Eremia** (National Institute for Chemical-Pharmaceutical Research and Development – ICCF Bucharest, Romania), Cristina Hlevca, Gabriela Savoiu, Ramona Daniela Pavaloiu, Fawzia Sha'at, Irina Lupescu, *Studies on lanolin purification for pharmaceutical and cosmetic applications*

S2 – 144 **Elena Danila** (Mercure Commerce International, Neos Cosmetics, Romania), Raluca Stan, Andrade Serafim, Zenovia Moldovan, Ciprian Chelaru, *Formulation and characterization of oleogels for cosmetic applications based on sun protection vegetable oils and lavender essential oil*

S2 – 149 **Lia-Mara Ditu** (University of Bucharest, Romania), Ana-Maria Bercea, Eliza Oprea, Mihaela Buleandra, Irinel Adriana Badea, Alina Ortan, *Origanum majorana essential oil: major constituents' characterization and antimicrobial properties evaluation*

S2 – 151 **Alina Morosan** (University Politehnica of Bucharest, Romania), Daniela Istrati, Dan Eduard Mihaescu, Mihai-Alexandru Florea, Bogdan Purcareanu, Gabriel Vasilievici, Bogdan Trica, Raluca Stan, *Release study of the biological active compounds from plant extracts loaded on MCM41 composites, using HRMS*

S2 – 160 **Mioara Negoita** (National Research & Development Institute for Food Bioresources, Romania), Adriana Laura Mihai, Gabriela-Andreea Hornet, *Application of Different Purification Techniques for the Determination of Acrylamide In Potato Crisps through GC-MS/MS*

S2 – 163 **Sylvain Routier** (University of Orléans, France), Agnieszka Zak, Johnny Vercouillie, Nicolas Arlicot, Sylvie Chalon, Patrick Emond, Frederic Buron, *Synthesis and Biological Evaluation of New Fluorinated Ligands Targeting P2X Receptors*

S2 – 164 **Adina Ionuta Gavrila** (University Politehnica of Bucharest, Romania), Anamaria Vartolomei, Ioan Calinescu, Mircea Vinotoru, *Alkaline pretreatment of ligno-cellulosic biomass*

S2 – 165 **Lucia Pintilie** (National Institute for Chemical-Pharmaceutical Research and Development, Romania), Elena Mihai, Constantin Tanase, Amalia Stefanii, *Molecular docking studies of some new quinolone compounds for developing new antimicrobial agents*

S2 – 174 **Vasile Staicu** (University Politehnica of Bucharest, Romania), Cristina Luntraru, Ioan Calinescu, Ciprian Chisega-Negrila, Mircea Vinotoru, *Treatment of biomass wastes with MW and US for additional recovery of active compounds*

S2 – 175 **Petre Chipurici** (University Politehnica of Bucharest, Romania), Aurel Diacon, Ioan Calinescu, Mircea Vinotoru, Adrian Trifan, Alexandru Vlaicu, *Optimization of Ultrasound - Assisted Extraction (UAE) of Lycopene from Tomato Skins*

- S2 – 177** **Natalita (Ionescu) Bordei** (Hofigal Export-Import S.A., Romania), Viorica Carabela, Viorica Tamas, Ionela Daniela Belala, Mariana Popescu, *Utilizing mucilage of some vegetal species in the production of new cosmetic products*
- S2 – 185** **Andreea Miruna Neagu** (Hofigal Export-Import S.A., Romania), Vasile Staicu, Cristina Luntraru, Adriana Popescu, Mihaela Neagu, *Natural Intermediates for Obtaining Phytotherapeutic Products Beneficial in Cardiovascular Diseases*
- S2 – 189** **Stefan Tomas** (University Politehnica of Bucharest, Romania), Aurelian Cristian Boscornea, Ioana Asofiei, Ana-Maria Draghici-Popa, Florina Teodorescu, Cristina Viorica Pop, *Prunus spinosa, a forgotten berry?*
- S2 – 190** **Elena-Daniela Anton** (National Institute of R&D for Biological Sciences, Romania), Lucia Moldovan, Alexandra Gaspar-Pintilieescu, Rodica Tatia, Daniela Ilie, Cristian Matei, Dana Berger, Ticuta Negreanu-Pirjol, *Isolation and characterisation of collagen from marine fish skin for use in biotechnological applications*
- S2 – 194** **Daniela Ilie** (National Institute of R&D for Biological Sciences, Romania), Elena Daniela Anton, Rodica Tatia, Dana Maria Copolovici, Florentina Munteanu, Lucian Copolovici, Oana Craciunescu, *Antioxidant and radioprotective activity of polyphenolic extracts of vegetable peels*
- S2 – 214** **Maria Madalina Nichitoi** (University Politehnica of Bucharest, Romania), Ana Maria Josceanu, Raluca Isopescu, Vasile Lavric, *Characterization of Ethanolic and Aqueous Propolis Extracts*
- S2 – 238** **Denisa D. Duta** (National Research&Development institute for Food Bioresources, Romania), Alina Culetu, *Growing Trend on Plant-based proteins*
- S2 – 247** **Diana Popescu** (National Research&Development institute for Food Bioresources, Romania) Corina Ciucure, Roxana Ionete, *Residues of polychlorinated biphenyls, organochlorine pesticides and heavy metals in environmental samples and bovine milk of several farms of south Romania*
- S2 – 251** **Corina Ciucure** (National R&D Institute for Cryogenics and Isotopic Technologies, Romania), Elisabeta-Irina Geana, *Optimisation and validation of extraction method for the analysis of polycyclic aromatic hydrocarbons in fish*
- S2 – 302** **Ibrahim Saleh** (Chemistry of Medicinal Plants Department, National Research Centre, Egypt) *Volatile Constituents and Antimicrobial Activity of Cotula cinerea Growing Wild in Egypt*
- S2 – 303** **Anca-Daniela Raiciu** (S.C.Hofigal Export-Import S.A, Romania) *Gemmotherapy used in various disease*
- S2 – 318** **Alexandru Suciu** (Hofigal Export-Import S.A., Romania), Vasile Staicu, Adriana Florina Popescu, Georgeta Alexandru, *Valorization of By-Product from Cold-Pressed Flaxseed Oil Processing. Extraction, Hydrolysis and HPLC-DAD Analysis of Secoisolariciresinol Diglucoside Oligomers*
- S2 – 320** **Adrian Volceanov** (University Politehnica of Bucharest, Romania), Razvan State, Cosmin Marculescu, Dorin Boldor, *Structural behaviour of zeolite ZSM-5 as catalyst for vegetal waste pyrolysis*
- S2 – 323** **Lavinia Misaila** ("Vasile Alecsandri" University of Bacau, Romania), Oana-Irina Patriciu, Luminita Grosu, Lucian Gavrilă, Adriana-Luminita Finaru, *Chemical characteristics and health effects of mineral waters from Slanic-Moldova*
- S2 – 324** **Florin Iordache** (University of Agronomic Sciences and Veterinary Medicine, Romania), Dorin Alexandru, Horia Maniu, *Engineering of Blood Vessel Using 3D Bioprinting of Stem Cells and Collagen-Hyaluronic Acid Hydrogel*
- S2 – 332** **Cristina Todasca** (University Politehnica of Bucharest, Romania), Teodora Manasia, Ioana Maior, Mihai Eftimie, Fulvia Manolache, Valentin Ionescu, *Metals Influence on Wine Fermentation and Stability*
- S2 – 333** **Catalina-Ionica Ciobanu** ("Al. I. Cuza" University, Romania), Ancuta Veronica Lupaescu, Monica Jureschi, Brindusa-Alina Petre, Gabi Drochioiu, *Identification of Metal Binding Sites in Peptide Fragments*
- S2 – 338** **Adrian Catalin Puitel** ("Gheorghe Asachi" Technical University of Iasi, Romania), Dan Gavrilescu, Gabriel Dan Suditu, Mircea Nechita Teodor, Georgiana Balusescu, *Corn stalks –raw material for fractionation to value added products*
- S2 – 339** **Boris Brezan** (University Politehnica of Bucharest, Romania), Alexandru Woinaroschy, *Usage of ultrasounds treatment in case of experimental variants of cider, enriched in advance with antioxidant-rich extracts*
- S2 – 346** **Roxana-Madalina Stoica** (National Institute for Chemical-Pharmaceutical Research and Development – ICCF, Romania), Misu Moscovici, Angela Casarica, Ana Despina Ionescu, *The influence of maceration time and solvent concentration on the capsaicinoids extraction from various Capsicum species*

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S2 – 353 Jamie Hinks (Singapore Centre for Environmental Life Sciences Engineering, Singapore), Cheng Zhou, Geraldine Chia, James Ho, Thomas Seviour, Gui Bazan, Staffan Kjelleberg, *Additive approach to stabilizing chemical membranes*

S2 – 354 Elena-Mirela Suceveanu (“Vasile Alecsandri” University of Bacau, Romania), Irina-Claudia Alexa, Petronela Bran, Luminita Grosu, Irina Ifrim, Oana-Irina Patriciu, Adriana-Luminita Finaru, *Valorization of Grape Pomace for Obtaining Fortified Innovative Product with Honey*

S2 – 360 Lacramioara Oprica, Olga Molchan, Claudia Chirila (Alexandru Ioan Cuza University, Romania), Madalina Baetu, Marius-Nicusor Grigore, *Response of antioxidant enzymes to selenium nanoparticles and saline stress in milk thistle (*Silybum marianum L.*) seedling*

S2 – 372 Diana-Maria Dragusin (University Politehnica of Bucharest, Romania), Filis Curti, Elena Olaret, Horia Iovu, Izabela-Cristina Stancu, *Gelatin – Aloe Vera hydrogels reinforced with melt-electro-written PCL scaffolds for skin regeneration*

S2 – 377 Oana Maria Ionescu (“Grigore T. Popa” University of Medicine and Pharmacy of Iasi, Romania), Constanta Ibanescu, Maricel Danu, Lenuta Profire, *Novel Chitosan Loaded Nanofibers for Wound Healing Applications*

S2 – 380 Mariana Nela Stefanut (National Institute of Research and Development for Electrochemistry and Condensed Matter, Dr. A. P. Podeanu, Timisoara, Romania), Adina Cata, Ioana Maria Carmen Ienascu, *Different Methods for Extraction of Biological Active Compounds from some Brassicaceae Vegetables*

S2 – 382 Ioana Maria Carmen Ienascu (National Institute of Research and Development for Electrochemistry and Condensed Matter, Dr. A. P. Podeanu, Timisoara, Romania), Diana Obistioiu, Iuliana Popescu, Adina Cata, Mariana Nela Stefanut, *Antibacterial Activity Evaluation of Some New 5-Chloro-2-Hydroxy-Benzamide Derivatives*

S2 – 383 Adina Cata (National Institute of Research and Development for Electrochemistry and Condensed Matter, Dr. A. P. Podeanu, Timisoara, Romania), Mariana Nela Stefanut, Ioana Maria Carmen Ienascu, *Analysis of Salicin in Some Willow Bark Food Supplements*

S2 – 394 Maria Lavinia Moroceanu (University Politehnica of Bucharest, Romania), Cristian Raducanu, Oana Parvulescu, Tanase Dobre, *Methods and procedures for mixing powders in the pharmaceutical area*

POSTER PRESENTATIONS

Section 3 - Physical Chemistry; Electrochemistry & Corrosion**Thursday 5 September 2019****Time: 8:30 – 13:00**

S3 – 03 **Camelia Ungureanu** (University Politehnica of Bucharest, Romania), Liliana Cristina Soare, Mirela Calinescu, Diana Vizitiu, Irina Fierascu, Radu Claudiu Fierascu, *Isolation of Podosphaera Leucotricha from golden delicious apple variety*

S3 – 08 **George-Octavian Buica** (University Politehnica of Bucharest, Romania), Matei D. Raicopol, Nicoleta A. Chira, *Thiosemicarbazone based click-modified electrodes for metal ions detection*

S3 – 18 **Mirela Anton** (University Politehnica of Bucharest, Romania), Ileana Rau, Alina Simion, Cristian Simion, *On the stability and degradation of DNA based materials doped with natural extracts*

S3 – 19 **Carla-Cezarina Paduretu** (University Politehnica of Bucharest, Romania), Ileana Rau, Manuela Rossemary Apetroaei, Verginica Schröder, *Study on the methods of acetylation degree evaluation used for chitin/chitosan extracted from romanian black sea crab shell waste*

S3 – 20 Manuela Rossemary Apetroaei, **Carla-Cezarina Paduretu** (University Politehnica of Bucharest, Romania), Ileana Rau, Dinu V. Atodiresei, Laura A. Bucur, Verginica Schröder, *Physical-Chemical comparative studies on chitosan extracted from different romanian marine waste*

S3 – 27 **Marcela Elisabeta Barbinta-Patrascu** (University of Bucharest, Romania), Nicoleta Badea, Camelia Ungureanu, Irina Zgura, Mihaela Bacalum, Andra Lazea-Stoyanova, Angela Vlad, *Phyto-silver based nanomaterials with potential biomedical applications: physico-chemical and biological characterization*

S3 – 36 Madalina I. Duinea (University of Craiova, Romania), Geta Carac, Lucian M. Birsa, Paul Chirita, *Efficient oxidation of metal sulfides using TRIS-based Schiff to construct advanced electrode active materials*

S3 – 42 **Dumitru Lucan** (Institute for Nuclear Research Pitesti, Romania), Manuela Fulger, Maria Mihalache, Lucian Velciu, *The synergistic impurities effect on the candu steam generator tubing corrosion*

S3 – 54 **Victoria Bejenari** ("Gheorghe Asachi" Technical University of Iasi, Romania), Alina-Mirela Ipate, Daniela Rusu, Catalina Anisoara Peptu, Gabriela Lisa, *Evaluating the water and oil holding capacity of solid residues in the food industry*

S3 – 59 **Verginica Schröder** (Ovidius University of Constanta, Romania), Manuela Rossemary Apetroaei, Carla-Cezarina Paduretu, Ileana Rau, *Study of manganese uptake in crustaceans from romanian seaside waters*

S3 – 60 **Florentina Golgovici** (University Politehnica of Bucharest, Romania), Manuela Voicu, Ioana Demetrescu, *Electrochemical behavior of magnesium alloy with and without polymeric coatings electrodeposited from ionic liquids*

S3 – 65 **Yakovleva Natalia** (Petrozavodsk State University, Russia), Kokatev Aleksandr, Lukiyanchuk Irina, Rudnev Vladimir, Stepanova Kristina, Pettersson Håkan, *Catalytically active composite coatings with self-organized porous anodic alumina matrix modified by $\gamma\text{-MnO}_2$ nanoparticles*

S3 – 67 **Aurora Petica** (University Politehnica of Bucharest, Romania), Veronica Anastasoaei, Oana Lazar, Marius Enachescu, Teodor Visan, Liana Anicai, *Electrochemical synthesis of 1D bismuth nanostructures using deep eutectic solvents*

S3 – 87 **Andrei Bogdan Stoian** (University Politehnica of Bucharest, Romania), Ioana Iftimi, Diana Cristea, Daniela Ionita, *Coating Characterization of ultrasmooth titanium covered with fibrinogen*

S3 – 105 **Mariana Prodana** (University Politehnica of Bucharest, Romania), Daniela Ionita, Calin Moise, Oana Lazar, Marius Enachescu, *Carbon nano-onions in biomedical applications*

S3 – 109 **Cristina Dumitriu** (University Politehnica of Bucharest, Romania), Cristian Pirvu, *TiO₂-graphene oxides nanocomposites, as promising electrodes for gluten detection*

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- S3 – 114** Amalia Stefaniu, Mihaela Brinzei (University Politehnica of Bucharest, Romania), Olga Iulian, Oana Istrate, *Prediction of reactivity parameters using density functional theory (dft) calculations for essential amino acids L-Valine and L-Serine*
- S3 – 118** Anca Cojocaru (University Politehnica of Bucharest, Romania), Sabrina Patricia Rosoiu, Oana Lazar, Geanina Mihai, Aida Ghiulnare Pantazi, Marius Enachescu, Liana Anicai, Teodor Visan, *Electrodeposition of nickel-cobalt alloy / MWCNT composite coatings involving deep eutectic solvents*
- S3 – 119** Anca Cojocaru (University Politehnica of Bucharest, Romania), Ioana Maior, Ioana-Alina Ciobotaru, Alexandra Cojocaru-Greblea, Danut-Ionel Vaireanu, *Eco-friendly corrosion inhibitors for steel in NaCl medium*
- S3 – 123** Stefania Costovici (University Politehnica of Bucharest, Romania), Geanina Mihai, Liana Anicai, Marius Enachescu, *Synthesis of 1D polypyrrole nanostructures with applications in electrochemical detection*
- S3 – 140** Simona Rada (National Institute for Research and Development of Isotopic and Molecular Technologies Cluj-Napoca, Romania), An Pengfei, Marius Rada, Jing Zhang, Adriana Popa, Eugen Culea, *recycled electrodes from spent lead acid battery and doped with copper (II) and manganese (IV) oxides*
- S3 – 141** Marius Rada (National Institute for Research and Development of Isotopic and Molecular Technologies Cluj-Napoca, Romania), An Pengfei, Mioara Zagrai, Jing Zhang, Simona Rada, *Manganese-lead-lead dioxide electrode vitroceramics*
- S3 – 152** Adriana Samide, Bogdan Tutunaru (University of Craiova, Romania), Claudia Merisanu, Cristian Tigae, Cezar Spinu, *Poly(vinyl acetate) performance on carbon steel corrosion control in acid environment*
- S3 – 158** Veronica Anastasoae (University Politehnica of Bucharest, Romania), Mariana Apostoiu (Popescu), Laura-Bianca Enache, Liviu Birzan, Eleonora-Mihaela Ungureanu, Marius Enachescu, *Azulene-Azothiadiazoles ligands for heavy metals detection using CME*
- S3 – 159** Laura-Bianca Enache (University Politehnica of Bucharest, Romania), Veronica Anastasoae, Liviu Birzan, Eleonora-Mihaela Ungureanu, Marius Enachescu, *Surface and electrochemical techniques for characterization of azulene azotetrazoles and heavy metal ions detection*
- S3 – 181** Mariana Mincu (University Politehnica of Bucharest, Romania), Raluca-Ioana Stefan-van Staden, Jacobus Frederick van Staden, *Molecular recognition of Aflatoxin M1 in water and milk samples*
- S3 – 221** Alexandra Virginia Meresescu (Bounegru) ("Dunarea de Jos" University of Galati, Romania), Constantin Apetrei, *Voltammetric determination of caffeic acid in pharmaceutical products*
- S3 – 275** Cristian Pirvu (University Politehnica of Bucharest, Romania), *Biomimetic surface functionalization of biomedical titanium alloys*
- S3 – 326** Daniela Ionita (University Politehnica of Bucharest, Romania), Mariana Prodana, Florentina Golgovici, *Magnesium alloy corrosion behavior by electrodeposition of bioactive calcium phosphate coating*
- S3 – 331** Lavinia Gabriela Popescu (Metallurgical Research Institute Bucharest, Romania), Emanuil Cristian Coman, Eniko Volceanov, *Assessment of hydrogen-induced cracking of pipelines steels*
- S3 – 367** Cristian Omocea (University Politehnica of Bucharest, Romania), Eleonora-Mihaela Ungureanu, Liviu Birzan, Veronica Anastasoae, Laura-Bianca Enache, Marius Enachescu, *Detection of lead ions by voltammetry on azulene based CMEs*
- S3 – 378** Mihalj Poša (Faculty of Medicine, University of Novi Sad, Serbia), Zita Farkaš Agatić, Kosta Popović, Dušan Škorić, János Csanádi, *Excess Gibbs Energy of the Binary Mixed Micelle Formation between Ionic and Non-ionic Surfactants in the Set of: Sodium-Cholate, Sodium-Deoxycholate, Brij S10 and Brij 58 at T = (283.15-323.15) K*
- S3 – 387** Roberta Irodia (University Politehnica of Bucharest, Romania), Cristina Orbeci, Cristina Dumitriu, Cristian Pirvu, *Comparison between antibiotics photocatalytic degradation performance of TiO₂ nanostructures*

POSTER PRESENTATIONS

Section 4 - New Concepts in Chemical and Biochemical Engineering**Friday 6 September 2019****Time: 8:30 – 13:00**

S4 – 001 Aurel Diacon, **Alexandra Mocanu** (University Politehnica of Bucharest, Romania), Cristian Eugen Raducanu, Edina Rusen, Cristina Busuioc, Raluca Somoghi, Bogdan Trica, Adrian Dinescu, *Synthesis and characterization of new carbon/ZnO/Li₂O nanocomposites with enhanced photocatalytic activity*

S4 – 032 **Diana Maria Banu** (Research & Development National Institute for Radioactive Metals and Resources, Bucharest, Romania), Aura Daniela Radu, Elena Viorica Ionita, *Contamination with heavy metals of soils from a city with industrial activity (study case- Craiova City, Romania)*

S4 – 131 **Ilona Bezedea** (University Politehnica of Bucharest, Romania), Costin Sorin Bildea, *Production of Sodium Methoxide by Reactive Distillation*

S4 – 132 **Marian Paul Bezedea** (University Politehnica of Bucharest, Romania), Ilona Bezedea, Costin Sorin Bildea, *Industrial processes for alkylamines production: modelling, economic evaluation and process control*

S4-170 Gabriela Isopencu, Cristina Enascuta, **Elena-Emilia Oprescu** (National Research & Development Institute for Chemistry and Petrochemistry-ICECHIM Bucharest, Romania), Vasile Lavric, *Study of P. purpureum and Nannochloropsis sp. growth conditions for increasing yields in Carbohydrates and Lipids Production*

S4-171 **Gabriela Isopencu** (University Politehnica of Bucharest, Romania), Cristina Enascuta, Elena-Emilia Oprescu, Vasile Lavric, *Symbiotic growth of red microalgae, bacteria and fungi in a discontinuous bioreactor*

S4-201 **Catalin Patrut** (University Politehnica of Bucharest, Romania), Costin Sorin Bildea, Anton Alexandru Kiss, *Modeling, design and control of (catalytic) cyclic distillation*

S4-203 **Alina Georgiana Ciufu** (University Politehnica of Bucharest, Romania), Cristian Raducanu, Oana Parvulescu, Doinita Roxana Tirpan, Tanase Dobre, *Natural wool fibers: a viable substitute for the existing synthetic sorbents*

S4 – 222 **Marius Ciprian Ilie** (Ovidius University of Constanta), Tanase Dobre, Chis Timur, *Numerical modeling of the corrosion process*

S4 – 223 **Carmen Viorica Turcu** (University Politehnica of Bucharest, Romania), Oana Cristina Parvulescu, Tanase Dobre, *Filtration property of water-based bentonite drilling mud in presence of polymers*

S4-224 **Claudia Patrichi** (University Politehnica of Bucharest, Romania), Claudia Koncsag, Oana Cristina Parvulescu, Anicuta Stoica, Tanase Dobre, *Coupled process for ABE synthesis and their optimization problems*

S4-266 **Elena-Emilia Oprescu** (National Research & Development Institute for Chemistry and Petrochemistry-ICECHIM, Bucharest, Romania), Cristina-Emanuela Enascuta, Gabriel Vasilievici, Adrian Radu, Elena Radu, Grigore Psenovschi, Vasile Lavric, *Effect of temperature and composition on viscosity of different formulation of ethyl levulinate/diesel fuel/biodiesel*

S4-276 **Mihail Checiu** (University Politehnica of Bucharest, Romania), Elena Catalina Udrea, Jordi Bonet-Ruiz, Valentin Plesu, Petrica Iancu, Alexandra Elena Bonet-Ruiz, *Modeling of (Non)Reactive Residue Curve Maps for TAME Synthesis System using MATLAB® assisted by SIMULIS Thermodynamics®*

S4-280 **Romuald György** (University Politehnica of Bucharest, Romania), *Modeling, Simulation and Optimization of a Stem Cell Bioprocess*

S4 – 306 **Florica Imre-Lucaci** (Babes-Bolyai University, Cluj Napoca, Romania), Marian Iosif Francu, Kovaci Eniko, Sorin Aurel Dorneanu, Marius Ioan Purcar, Petru Ilea, *Metals selective electrodeposition from leaching solutions resulting in the WPCBs recycling process*

S4 – 312 **Cristina Ionela Gogoasa** (University Politehnica of Bucharest, Romania), Oana Cristina Parvulescu, Anicuta Stoica, Tanase Dobre, *Influence of cellulose addition in tableted drugs on release rate of active drug species*

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- S4 – 315** **Paula Postelnicescu** (University Politehnica of Bucharest, Romania), Anca Madalina Dumitrescu, *Study of the Rheological Behaviour of LustreClear™ Coating System*
- S4 – 317** **Greg Josef Duru** (University Politehnica of Bucharest, Romania), Oana Cristina Parvulescu, Tiberiu Dinu Danciu, Tanase Dobre, *Stochastic modelling of cellulose hydrolysis with breaking probabilities Weibull distributed*
- S4 – 321** **Ariana Ivanciu** (University Politehnica of Bucharest, Romania), Cristiana Luminita Gijiu, Raluca Isopescu, *Multi-objective optimization of ammonia synthesis reactor in two cooling methods*
- S4 – 322** **Andreea Lascu** (University Politehnica of Bucharest, Romania), Cristiana Luminita Gijiu, Daniel Dinculescu, Raluca Isopescu, *HNO₃ synthesis in mono- and dual-pressure operating plants. Technical and cost comparative analysis*
- S4 – 336** **Marilena Nicolae** (Petroleum-Gas University of Ploiesti, Romania), Costin Sorin Bildea, *Vapor-liquid equilibrium determination in ethanol + mesitylene, butanol + mesitylene binary systems and data correlation*
- S4 – 337** Mircea Teodor Nechita, Elena Niculina Dragoi, **Gabriel Dan Suditu** ("Gheorghe Asachi" Technical University, Iasi, Romania), Adrian Catalin Puitel, *Analysis of the Residence Time Distribution of a Photochemical Reactor*
- S4 – 359** **Elena Niculina Dragoi** ("Gheorghe Asachi" Technical University, Iasi, Romania), Gabriel Dan Suditu, Mircea Teodor Nechita, Vlad Dafinescu, *Optimization of bromocresol green adsorption from aqueous solutions using Bacterial Foraging Optimization algorithm*
- S4 – 361** **Ramona-Elena Tataru-Farmus** ("Gheorghe Asachi" Technical University, Iasi, Romania), Elisabeta Hultuana, Corina Cernatescu, Claudia Cobzaru, Gabriela Antoaneta Apostolescu, Nicolae Apostolescu, Maria Harja, *Physical properties of aqueous solutions of potassium carbonate promoted by ethylenediamine*
- S4 – 385** **Andra Bucse** (National Institute for Research and Development on Marine Geology and Geoecology – GeoEcoMar, Bucharest, Romania and University Politehnica of Bucharest, Romania), Dan Vasiliu, Sorin Balan, Oana Cristina Parvulescu, Tanase Dobre, *Heavy Metals Spatial Distribution and Pollution Assessment in the Surface Sediments of the North-Western Black Sea Shelf*
- S4 – 389** **Iuliana Dumitru** (University Politehnica of Bucharest, Romania), Cristian Eugen Raducanu, Oana Cristina Parvulescu, Tanase Dobre, *Modeling of moisture and volatile compound content dynamics during the storage of dried medicinal plants*
- S4 – 391** **Sergiu Adrian Aciu** (University Politehnica of Bucharest, Romania), Dobre Tanase, *Heat Transfer Analysis at Pyrolysis in Device with Direct Flame*
- S4 – 392** **Andreea Daniela Dima** (National Institute for Research and Development in Electrical Engineering ICPE-CA, Bucharest, Romania and University Politehnica of Bucharest, Romania), Oana Cristina Parvulescu, Carmen Mateescu, *Optimization of Biomethane Recovery from Agro-industrial Waste for Energy Supply and Environmental Protection*
- S4-404** **Nicoleta-Gabriela řtefan** (University POLITEHNICA of Bucharest), Valentin Plešu, Petrica Iancu, Ioan Călinescu, *Strategies to concentrate ω-PUFA methyl esters through molecular distillation*

POSTER PRESENTATIONS

Section 5 - Monitoring & Environmental Protection

Thursday 5 September 2019

Time: 15:00 – 19:30

S5 – 44 **Ana Despina Ionescu** (National Chemical-Pharmaceutical for Research and Development Institute-ICCF-Bucharest, Romania), Angela Casarica, Mariana Gratiela Vladu, Roxana Madalina Stoica, *Biotechnological studies concerning the vegetable wastes hydrolyzed production and their use for yeasts biomass development*

S5 – 56 **Paul Chirita** (University of Craiova, Romania), Madalina I. Duinea, *Troilite oxidative dissolution*

S5 – 57 **Mihai Tudor Olaru** (National R&D Institute for Nonferrous and Rare Metals, Romania), Daniela, Violeta Dumitrescu, Mariana Burada, Laura Barbulescu, Sabina Andreea Munteanu, Beatrice Adriana Carlan, Florin Marius Dragoscu, Felicia Cosmulescu, Ciprian Schiopu, Tiberiu Cimpean, *Non-ferrous alloys chips melting in microwave field*

S5 – 121 **Vasilica Vasile** (INCD URBAN-INCERC, INCERC Bucharest Branch, Romania) Mihaela Ion, Alina Dima, *Analysis of the VOCs monitoring in educational spaces*

S5 – 125 **Cristina Coromelci** (Laboratory of Materials Chemistry, "Alexandru Ioan Cuza University, Iasi, Romania), Petrisor Samoila, Cornelius Cojocaru, Maria Ignat, *Effect of the Titanium source used during synthesis on the properties of mesoporoustitania*

S5 – 145 **Mahu Elvira** (Laboratory of Materials Chemistry, "Alexandru Ioan Cuza University, Iasi, Romania), Ignat Maria, Cojocaru Cornelius, Coromelci Cristina, Samoila Petrisor, Asaftei Iulian, Harabagiu Valeri, *Comparative study of Congo Red dye and 2,4-diclorophenoxyacetic acid herbicide photodegradation over mesoporoustitania*

S5 – 146 **Laura Bulgariu** (Gheorghe Asachi Technical University of Iasi, Romania), Iulia Simona Badescu, Teodora Arsenie, Dumitru Bulgariu, Alina Roxana Lucaci, *Effect of removal of Cd(II) ions from aqueous effluents on different types of waste biomass*

S5 – 147 **Laura Bulgariu** (Gheorghe Asachi Technical University of Iasi, Romania), Lacramioara Nemes, Alina Mihaela Matcaboja, Dumitru Bulgariu, Anca Mihaela Mocanu, *The use of functionalized biochar as biosorbent for quantitative removal of Cu(II) and Co(II) ions from aqueous media*

S5 – 153 **Alexandru Woinaroschy** (University Politehnica of Bucharest, Romania), Alice Iordache, *Analysis of the effectiveness of the water treatment process within the Palas Constanta storage and water treatment plant and the identification of risk factors*

S5 – 154 **Cristina Modrogan** (University Politehnica of Bucharest, Romania), Oanamari Daniela Orbulet, Liliana Bobirica, Madelene Annette Dancila, Constantin Bobirica, Cristina Orbeci, *Nitrates removal from aqueous solutions using magnetite nanoparticles functionalized with EDTA*

S5 – 179 **Arpad Imre-Lucaci**, Melinda Fogarasi, Florica Imre-Lucaci, Szabolcs Fogarasi (Babes-Bolyai University, ClujNapoca, Romania), *Technical and environmental assessment of copper recovery plant developed for the processing of waste printed circuit base boards*

S5 – 188 **Alina Pauna** (University Politehnica of Bucharest, Romania), Elena Diacu, *The response of some plants to the oxidative stress caused by heavy metal soil pollution in the industrial area of Slatina*

S5 – 193 **Oanamari Daniela Orbulet** (University Politehnica of Bucharest, Romania), Cristina Orbeci, Constantin Bobirica, Cristina Modrogan, Madelene Dancila, Liliana Bobirica, *Phosphate Removal from Aqueous Solution using NanosizedZerovalent Iron Supported by Anionic Exchange Resin*

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- S5 – 231** **Daniela Simina Stefan** (University Politehnica of Bucharest, Romania), Ana Maria Manea, Aurelia Meghea, Mircea Stefan, *Study of the Biodegradability and the Leachability of Composite Fertilizers Obtaining from Pelt skin waste*
- S5 – 234** **Ionul Alexandru Savu Radu** (Univeristy Politehnica of Bucharest), Daniela Simina Stefan, Vasile Lavric, Mircea Stefan, *Comparative study of the performance of adsorbents used in water and wastewater treatment*
- S5 – 237** **Andrei Giurgea** (National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Romania), Ana-Maria Galan, Catalin Bogdan Matei, Alexandru Vlaicu, Anca Paulenco, Sanda Velea, *Chitosan based bioflocculants for microalgae harvesting*
- S5 – 242** **Cristina Tuncel** (UniveristyPolitehnica of Bucharest, Romania), Andreea Madalina Pandele, Stefan Ioan Voicu, *Modified carbon nanotubes for gas sensors*
- S5 – 250** **Daniel Ighigeanu** (National Institute for Laser, Plasma and Radiation Physics, Electron Accelerators Laboratory, Magurele, Romania), Elena Manaila, Gabriela Craciun, *Efficiency of Hydrogels Obtained by Electron Beam Irradiation in Cu²⁺ and Cr⁶⁺ removal from aqueous solutions*
- S5 – 255** **Elisabeta-Irina Geana** (National R&D Institute for Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, Romania), Corina Ciucure, *Assessment of PAHs levels in sediments of artificial laches on the middle and lower course of Oltriver, Romania: optimisation and validation of extraction method*
- S5 – 256** **Idiko Butal** (CoriolanDragulescu" Institute of Chemistry, Timisoara, Romania), Maria Andreea Nistor, Simona Gabriela Muntean, Otilia Costisor, *The Study of Photodegradation of Anionic Dyes by Visible Light Using Cadmium(II) Coordination Polymers*
- S5 – 265** **Adina Pacala** (Aquatim SA Timisoara, Romania), Ilie Vlaicu, Florica Manea, *Flexible and Modular-Pilot Plant for Drinking Water Treatment*
- S5 – 291** **Dorin Bombos** (Petroleum-Gas University of Ploiesti, Romania), SandaVelea, Catalina Calin, Mihaela Bombos, Rami Doukeh, Gabriel Vasilievici, Elena-Emilia Oprescu, *Component for diesel fuel and solvent for bitumen road based on pyrolysis bio-oil*
- S5 – 310** **Nicoleta Vasilache** (National Research and Development Institute for Industrial Ecology ECOIND, Bucharest, Romania), Iuliana Claudia Paun, *Validation of modified version the sodium salicylate method for analysis of water nitrate*
- S5 – 311** **Cecilia Lete** (Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania), Vassilena Karabozhikova, Vessela Tsakova, Raul Mitran, Mariana Marin, Stelian Lupu, *Electrochemical Sensing of Antioxidants and Drugs at PEDOT-Composite Electrode*
- S5 – 319** **Juan José García-Guzmán** (Institute of Research on Electron Microscopy and Materials (IMEYMAT), Cadiz, Spain), David López-Iglesias, José María Palacios-Santander, Laura Cubillana-Aguilera, Cecilia Lete, Stelian Lupu, *Application of sinusoidal methods to the development of new nanostructured sensors based on conducting polymers*
- S5 – 362** **Sorin Vizireanu** (National Institute for Lasers, Plasma and Radiation Physics), S. A Yehia, M. Zarif, L. G. Carpen, B. Bita, N. Petrea, N. Grigoriu, G. Dinescu, *Submerged plasma in liquid for wastewater decontamination*
- S5 – 374** **R. D. Stoica** ("Horia Hulubei" National Institute for Physics and Nuclear Engineering (IFIN-HH) Magurele-Bucharest, Romania), L. Neagu, I. Dorobantu, C. C. Mustăciosu, C. Coman and D. Ancuta, *Kinetics Of Antidicamba Antibody-3,6-Dichloro-2-methoxybenzoyl-Amido-Benzene System In ELISA Technique*
- S5 – 381** **Irina-Elena Ciobotaru** (National Institute for Research and Development in Environmental Protection, Bucharest, Romania), Cristina Maria, Ecaterina Marcu, Alexandru-Anton Ivanov, Carmen Tociu, *The Current State of the Presence of Micropollutants in the Aquatic Environment*
- S5 – 384** **Violeta Alexandra Ion** (Research Center for Studies of Food and Agricultural Products Quality, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania), Liliana Badulescu, Vlad Popa, Mihaela Zugravu, Oana Cristina Parvulescu, *Separation and Analysis of Microplastic in Agricultural Soil*
- S5 – 390** **Cristina Orbeci** (University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Material Science, Bucharest, Romania), Oana Cristina Parvulescu, Diana Egri, Madalina Pandele, Cristina Tuncel, *Removal of Pharmaceutical Compounds from Wastewater using Composite Membranes*

POSTER PRESENTATIONS

Section 6 - New Materials and Nanomaterials

Wednesday 4 September 2019

Time: 17:30 – 19:30

S6 – 228 **Bogdan Catalin Marin** (University Politehnica of Bucharest, Romania), **Bogdan Negut**, Georgeta Voicu, Stefania Stoleriu, *Ye'elimite based cements – an ecological alternative to Portland cements*

S6 – 363 **Lucian Valentin Albu** (University Politehnica of Bucharest, Romania), Ana Maria Anghel, **Radu Serban**, Stefania Stoleriu, *Influence of Dopants on Apatite-Wollastonite Glass-Ceramics Properties*

S6 – 364 **Florian Gabriel Enache** (University Politehnica of Bucharest, Romania), Ruxandra Schitea, Stefania Stoleriu, *Properties of Si₃N₄ – 45S5 Bioglass Biocomposites Obtained by Vacuum Sintering*

S6 – 365 **Andrei Gheorghe** (University Politehnica of Bucharest, Romania), Stefania Stoleriu, *Influence Alumina Grains Size Distribution on SiC-Al₂O₃ Ceramic Composites Properties*

S6 – 330 **Martins Rucins** (Latvian Institute of Organic Synthesis, Riga, Latvia), Pavels Dimitrijevs, Krisjanis Smits, Karlis Pajuste, Arkadij Sobolev, Ilona Domracheva, Aiva Plotniece, *4-(N-Alkylpyridinium)-1,4-Dihydropyridines as Bifunctional Lipid-Like Compounds for Self-Assembling and Biological Studies*

S6 – 040 **Lenuta Stroea** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Violeta Melinte, Tinca Buruiana, *Synthesis, Morphology and Properties of Novel Aliphatic Biodegradable Polyurethanes*

S6 – 043 **Dana M. Suflet** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Irina M. Pelin, Irina Popescu, *Phosphorylated curdlan based hydrogels for medical applications*

S6 – 046 **Maria Rapa** (University Politehnica of Bucharest, Romania), Ecaterina Matei, Andra Mihaela Predescu, Andreea Turcanu, Cristian Predescu, Daniela Ignat,

Grigore Vlad, *Electrospun Biomembranes for Removal of Micropollutants in Water Environment*

S6 – 061 **Marieta Constantin** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Gheorghe Fundueanu, *Chitosan/Polyvinyl alcohol cryogels as scaffolds for tissue engineering*

S6 – 064 Radu Claudiu Fierascu, **Irina Fierascu** (Emerging Nanotechnologies Group, The National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Romania), Anda Maria Baroi, Roxana Ioana Brazdis, Lia Mara Ditu, Anca Nicoleta Sutan, Liliana Cristina Soare, *Development of phytosynthesized nanoparticles and their potential applications*

S6 – 066 **Razvan Lisnic** (University Politehnica of Bucharest, Romania), Ana Maria Spataru, Sorin Ion Jinga, *Seaweed addition in Portland cement mortars*

S6 – 069 **Marius Miricioiu** (National Research and Development Institute for Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, Romania), Violeta-Carolina Niculescu, Irina Petreanu, Gheorghe Nechifor, *Fly ash waste as source for mesoporous silica used in natural gas purification*

S6 – 070 **Viorica-Elena Podasca** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Mariana-Dana Damaceanu, Tinca Buruiana, *Preparation and photocatalytic properties of polymer hybrid composites containing ZnO doped Ag particles*

S6 – 071 **Violeta Melinte** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Andreea-Laura Chibac, Viorica Podasca, Tinca Buruiana, Emil C. Buruiana, *UV-Cured Polymeric Hybrid Coatings Containing ZnO Nanoparticles with Photocatalytic Properties*

S6 – 074 **Mioara Murariu** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Lenuta Stroea, *Synthesis, characterization and self-association of random copolymers bearing D/L-Phenylglycine pendant groups*

S6 – 075 **Elena Anghel** (National Institute for Research and Development in Microtechnologies, Romania), Andrei Avram, Octavian Simionescu, Oana Tutunaru, Cristina Pachiu, Ioana Demetrescu, *Synthesis and characterization of vertical graphene (VG) on SiO₂ substrate*

S6 – 076 **Luminita- Georgeta Confederat** ("Grigore T. Popa" University of Medicine and Pharmacy, Iasi, Romania), Iustina Avram, Maria Dragan, Andreea-Teodora Iacob, Lenuta Profire, *New Polymeric Systems Containing Glibenclamide – Development, Characterization and Evaluation of some Metabolic Parameters*

S6 – 081 **Irina Petreanu** (National Research and Development Institute for Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, Romania), Violeta Niculescu, Mirela Dragan, Adnana Spinu Zaulet, Radu Ene, Ciprian Iacob, Mircea Teodorescu, *Design and testing of a Composite Proton Exchange Membrane based on Sulfonated Polyphenylene Oxide and Mesoporous Silica*

S6 – 085 **Traian-Dinu Pasatoiu** (University of Bucharest, Romania), Catalin Maxim, Marius Andruh, *New Homometallic Systems Obtained Using 3d and 5f Metal Ion Nodes and Carboxylato Spacers*

S6 – 089 **Bianca Tincu** (National Institute for Research and Development in Microtechnologies IMT-Bucharest, Romania), Marioara Avram, Andrei Avram, Vasilica Tucureanu, Alina Matei, Tiberiu Burinaru, Oana Tutunaru, Ioana Demetrescu, *Influence of polymethyl-methacrylate in graphene functionalization*

S6 – 090 **Dana-Maria Miu** (University Politehnica of Bucharest, Romania), Sorin Ion Jinga, Cristina Busuioc, Georgeta Voicu, *Zinc oxide thin films obtained by the spin-coating method*

S6 – 100 **Gabriela Carja** (Technical University of Iasi, Romania), Corina Eugenia Ignat, Iuliana Biru, Horia Iovu, *On the tunability of micro/nanoparticulates of ibuprofen/layered double hydroxides dry-powders for targeting pulmonary delivery*

S6 – 103 **Angela Casarica** (National Institute for Chemical-Pharmaceutical Research and Development – ICCF, Bucharest, Romania), Ana Despina Ionescu, Iuksel Rasit, Minerva Panteli, *Test of cutanea local tolerance of the native bacterial cellulose*

S6 – 112 **Ramona-Daniela Pavelou** (University Politehnica of Bucharest, Romania), Sha'at Fawzia, Hlevca Cristina, Sha'at Mousa, Berger Daniela, Nechifor Gheorghe, *Cardiovascular APIs encapsulated into biodegradable matrix: in vitro evaluation on drug release kinetics*

S6 – 126 **Ramona-Daniela Pavelou** (University Politehnica of Bucharest, Romania), Sha'at Fawzia, Mihaela Deaconu, Ana-Maria Brezoiu, Cristina Hlevca, Sha'at Mousa, Cristian Matei, Daniela Berger, Gheorghe Nechifor, *Core shell lipid-polymer nanoparticles loaded with amlodipine-valsartan for cardiovascular therapy*

S6 – 127 **Andra-Cristina Humelnicu** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Petrisor Samoila, Cornelius Cojocaru, Valeria Harabagiu, *Chitosan-based ionic conductive hybrid membranes with improved mechanical and thermal properties*

S6 – 129 **Ramona - Crina Suciu** (National Institute for Research and Development of Isotopic and Molecular Technologies, Romania), C. Marutoiu, I. Bratu, D. Nemes, M. Suciu and M. Cotetiu, *Preliminary Results on the Calcium Hydroxide Nanoparticles for the Heritage Conservation*

S6 – 130 **George Pelin** (National Institute for Aerospace Research and Development "Elie Carafoli", Bucharest, Romania), Cristina- Elisabeta Pelin, Adriana Stefan, Alina Dragomirescu, George- Catalin Cristea, *Multifunctional Composite Structures with Extreme Temperatures Resistance*

S6 – 137 **Alina Dragomirescu** (National Institute for Aerospace Research and Development "Elie Carafoli", Bucharest, Romania), Stefan Adriana, Pelin Cristina Elisabeta, Pelin George, Smorygo Oleg, Cristea George-Catalin, Mihail Botan, *Lightweight sandwich structure with cellular core*

S6 – 143 **Mariana Bobeica** (Extreme Light Infrastructure - Nuclear Physics/ IFIN-HH, Romania), Viorel Nastasa, Theodor Asavei, Paul Vasos, *Nanoparticles and liposomes for measurements and imaging of high dose rate irradiation effects*

S6 – 155 **Angela Spoiala** (University Politehnica of Bucharest, Romania), Cornelia-Ioana Ilie, Denisa Ficai, Anton Ficai, Laura Moise, Violeta Trusca, Roxana Doina Trusca, Bogdan Stefan Vasile, Ovidiu Oprea, Anca Gafencu, Ecaterina Andronescu, *Alginate beads loaded with cells and biologic active agents*

S6 – 156 **Cornelia-Ioana Ilie** (University Politehnica of Bucharest, Romania), Angela Spoiala, Denisa Ficai, Anton Ficai, Adrian Ionut Nicoara, Bogdan Stefan Vasile,

Vasile-Adrian Surdu, Maria Anghelache, Manuela Calin, Ecaterina Andronescu, *Synthesis and characterization of a new polysaccharide-coated magnetic nanoparticles*

S6 – 167 **Adrian Ionut Nicoara** (University Politehnica of Bucharest, Romania), Alina Badanouiu, Nicoleta Cirstea, Cristian Dinu, *The effect of inorganic additions on gypsum behaviour at high temperatures*

S6 – 139 **Alina Elena Coman** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Monica Duldner, Anita Radu, Emeric Bartha, Robert Tincu, Tanta-Verona Iordache, Andrei Sarbu, Adi Ghebaur, Celina Damian, *Nanocomposite polyurethane foams from pet wastes and renewable raw materials*

S6 – 169 **Madalina Ioana Necolau** (University Politehnica of Bucharest, Romania), Ana Maria Paraschiv, Celina Maria Damian, Brîndusa Balanuca, Horia Iovu, *Advanced Studies on Biobased Epoxy Network Curing Reactions and Thermal Properties*

S6 – 184 **Leu Rebeca** (University Politehnica of Bucharest, Romania), Ionut Radu, Paul Octavian Stanescu, Bianca Galateanu, Ariana Hudita, Eugenia Tanasa, Horia Iovu, Catalin Zaharia, *Wound dressing based on bacterial cellulose*

S6 – 186 **Elena Irina Popescu** („Ilie Murgulescu“ Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania), Zamfirica Minea, Sorin Mocanu, Iulia Matei, Gabriela Ionita, Spin Probes – Tools to Investigate Loading Capacity and Inhomogeneity of Hydrogels

S6 – 206 **Daniela C. Culita** („Ilie Murgulescu“ Institute of Physical Chemistry, Romania), Madalina Tudose, Daniela C. Culita, Petre Ionita, Simona Somacescu, Elena M. Anghel, Jose Calderon-Moreno, Olguta Dracea, Marcela Popa, Luminita Marutescu, Carmen Curutiu, Mariana C. Chifiriuc, Coralia Bleotu, *Tuberculostatic agents linked on graphene oxide – multitarget hybrid systems with extended antimicrobial spectrum*

S6 – 209 **Andreea Alexandra Mainea** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Nicoleta Levinta, George-Mihail Teodorescu, Zina Vuluga, Cristian Andi Nicolae, Raluca-Augusta Gabor, Dorel Florea, Sergiu-Alexandru Stoian, Mihai Cosmin Corobe, 2D Graphene Nanostructures-New Challenges for PA6/Glass Fibres Composites

S6 – 210 **Rodica D. Carpen Baratoiu** („Ilie Murgulescu“ Institute of Physical Chemistry, Romania), Rodica D. Carpen Baratoiu, Elena N. Hristea, Madalina Tudose, Mariana Voicescu, Antonio Radoi, Daniela C. Culita, Simona Somacescu, Elena M.

Anghel, Petre Ionita, *Synthesis and Characterization of a New Graphene Oxide Nanocomposite Containing a Pyrene Thiazole Conjugate: Fluorescence and Electrochemical Studies*

S6 – 211 **Adriana Dehelean** (National Institute for Research and Development of Isotopic and Molecular Technologies, Romania), Simona Rada, Mioara Zagrai, C. Grosan, Adriana Popa, *Influence of samarium ions on structural properties of lead-borate glasses and vitroceramics*

S6 – 212 **Lauretiu Baltag** (“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania), Petrisor Samoilă, Corneliu Cojocaru, Maria Ignat, Valeria Harabagiu, Sulfonated poly(ether ether ketone)-based hybrid membranes with potential applications in fuel cells

S6 – 213 **Ionela Grecu** (“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania), Petrisor Samoilă, Corneliu Cojocaru, Maria Ignat, Valeria Harabagiu, *Alginate - Poly(vinyl sulfonic acid) membranes for fuel-cell potential applications*

S6 – 215 **George Mihail Teodorescu** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Zina Vuluga, Mihai-Cosmin Corobe, Cristi Andy Nicolae, Raluca Augusta Gabor, Nicoleta Levinta, Andreea-Alexandra Mainea, *Reinforcing Effect of Polypropylene Composites with Glass Fiber*

S6 – 216 **Adriana Dehelean** (National Institute for Research and Development of Isotopic and Molecular Technologies, Romania), Simona Rada, Ramona Suciu, Mioara Zagrai, Sergiu Macavei, *XRD, UV-Vis and Photoluminescence studies of terbium ions doped 4PbO-B₂O₃ glasses and vitroceramics*.

S6 – 219 **Nicoleta Levinta** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Zina Vuluga, Florin Miculescu, Mihai Cosmin Corobe, Cristian-Andi Nicolae, Raluca Gabor, Andreea-Alexandra Mainea, George-Mihail Teodorescu, *Nanocomposites Based on Polyamide 6/Halloysite Versus Polyamide 6/Hydrotacite*

S6 – 253 **Enikö Volceanov** (Metallurgical Research Institute - ICEM SA of Bucharest, Romania), Lavinia Gabriela Popescu, Victor Fruth, Adrian Volceanov, Zoran Popović, Branko Matović, *Development of inorganic polymeric materials from silicate industrial waste*

S6 – 245 **Madalina Oprea** (National Institute for Research & Development in Chemistry and Petrochemistry – ICECHIM, Polymer Department, Romania), Adriana Nicoleta Frone, Denis Mihaela Panaitescu, Raluca Augusta Gabor, Ioana Chiulan, Cristian Andi Nicolae, Sergiu Alexandru Stoian, *The influence of silica based nanofillers on thermal and dynamic mechanical properties of polylactic acid*

S6 – 246 **Mihaela Carnuta** (Institute of Cellular Biology and Pathology “Nicolae Simionescu” of the Romanian Academy, Bucharest, Romania), Andrei Patrascu, Catalin Maxim, Maria Anghelache, Manuela Calin, Delia-Laura Popescu, *Synthesis and characterization of a new vanadium (V) complex based on D/L-valine Schiff base with anti-cancer properties*

S6 – 249 **Adriana Marinoiu** (RD Institute for Cryogenics and Isotopic Technologies - ICSI, Romania), Andreea Dogaru, Elena Carcdea, Stanica Enache, Simona Nica, *Facile synthesis of covalent functionalized reduced graphene oxide with azulenes for ORR reaction*

S6 – 301 **Mariana Chelu** (Institute of Physical Chemistry “Ilie Murgulescu”, Romanian Academy, Romania), Hermine Stroescu, Jose Calderon Moreno, Silviu Preda, Madalina Nicolescu, Mariuca Gartner, Carmen Moldovan, Marin Gheorghe, *Development and characterization of PMMA/ZnO nanowires based piezoelectric nanogenerators*

S6 – 305 **Monica Enculescu** (National Institute of Materials Physics, Magurele, Romania), Alexandru Evangelidis, Ionut Enculescu, *Dye Concentration Dependence of Dye-Doped Polymer Nanofibers’ Properties*

Section 6 - New Materials and Nanomaterials

Thursday 5 September 2019

Time: 8:30 – 13:00

S6 – 351 **Ariana Hudita** (University of Bucharest, Romania), Bianca Galateanu, Ionut-Cristian Radu, Catalin Zaharia, Marieta Costache, *Pro-inflammatory potential of doxorubicin loaded Poly-N-isopropylacrylamide (PNIPAM)/magnetite smart nanoparticles for breast cancer therapy*

S6 – 352 **Ariana Hudita** (University of Bucharest, Romania), Bianca Galateanu, Ionut-Cristian Radu, Paul Stanescu, Catalin Zaharia, Eugenia Tanasa, Marieta Costache, *Evaluation of the biological performance of original chitosan and bacterial cellulose – based materials tuned with polymeric nanoparticles loaded silver sulfadiazine designed for wound healing management*

S6 – 355 **Luiza-Izabela Jinga** (National Institute for Lasers, Plasma and Radiation Physics, Magurele, Romania), Gianina Popescu-Pelin, Cristian Mihailescu, Livia Sima, Gabriel Socol, *Antitumoral activity and hyperthermia tests of iron based magnetic nanoparticles*

S6 – 356 **Mariana Ionita** (University Politehnica of Bucharest, Romania), Sebastian Muraru, Sorin Muraru, *Computational studies of separation membrane prototypes for small gas molecules*

S6 – 357 **Sorin Muraru** (University Politehnica of Bucharest, Romania), Sebastian Muraru, Mariana Ionita, *Molecular Dynamics simulations of separation membrane prototypes for small gas molecules*

S6 – 366 **Mariana Ionita** (University Politehnica of Bucharest, Romania), George Mihail Vlasceanu, Horia Iovu, *Graphene based biomaterials for bone regeneration*

S6 – 013 **Cristina Andreia Vijan** (University Politehnica of Bucharest, Romania), Alina Badanoiu, Iulia Barcan, *Calcium magnesium phosphate cements for toxic waste immobilization*

S6 – 014 **Madalina Nicolescu** (Institute of Physical Chemistry "Ilie Murgulescu", Romanian Academy), M. Anastasescu, J. M. Calderon Moreno, S. Preda, I. Stanculescu, M. Moderanu, V. Kampylafka, E. Aperathitis, M. Gartner, *The Structural, Optical, Piezoelectric and Luminescence Properties of N-doped ZnO Thin Films Deposited by RF Magnetron Sputtering*

S6 – 024 **Andreea Dogaru** (C. D. Nenitzescu" Institute of Organic Chemistry, Romanian Academy, Romania), Gabriela Marinescu, Catalin Maxim, Sergiu Shova, Rodolphe Clérac, Marius Andruh, *3d-5d-4f heterometallic octanuclear complexes and 1D coordination polymers assembled from the same lego pieces*

S6 – 030 **Violeta-Carolina Niculescu** (National Research and Development Institute for Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, Romania), Marius Miricioiu, Amalia Soare, Adriana Marinoiu, Elena David, *Mesoporous Materials based Catalysts for the Oxidation of Rhodamine in Wastewater*

S6 – 369 **Sebastian Muraru** (University Politehnica of Bucharest, Romania), Mariana Ionita, *Molecular Dynamics Simulations of drug-delivery super carbonaceous structures*

S6 – 370 **Sebastian Muraru** (University Politehnica of Bucharest, Romania), Emil Ioan Slusanschi, Jorge S. Burns, Mariana Ionita, *Molecular Dynamics Simulations*

regarding ssDNA and dsDNA Adsorption on Graphene Oxide and Reduced Graphene Oxide-PEG-NH₂ in the presence of ions (Mg²⁺; Cl⁻)

S6 – 371 **George Mihail Vlasceanu** (University Politehnica of Bucharest, Romania), Sorin Muraru, Sebastia Muraru, Mariana Ionita, *Fabrication of polysulfone membranes reinforced with supercarbonic nano-architectures with selective permeability strength*

S6 – 348 **Maria Cazacu** ("Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania), Georgiana-Oana Turcan-Trofin, Mirela-Fernanda Zaltariov, Mihaela Dascalu, Nicoleta Vornicu, Sergiu Shova, *Bis-Triazoles Spaced by a Dimethylsilane or Tetramethyldisiloxane Motif as New Ligands and Biologically Active Agents*

S6 – 379 **C. Herman** (Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania), C. Gaidau, M. Constantin, M. Stanca, O. Capraru, D. Timpu, I. Stanculescu, *Investigation of leather materials functionalized by chemical and gamma radiation treatments*

S6 – 388 **Cristina Coromelci** (Laboratory of Materials Chemistry, Department of Chemistry, "Alexandru Ioan Cuza" University, Romania), Elvira Mahu, Mircea Palamaru, Maria Ignat, *Organic Dyes Degradation using Microwave Synthesized Titania*

Section 6 - New Materials and Nanomaterials

Friday 6 September 2019

Time: 8:30 – 13:00

S6 – 226 **Ionut-Cristian Radu** (University Politehnica of Bucharest, Romania), Catalin Zaharia, Elena-Alexandra Istratoiu, Sorina Dinescu, Eugeniu Vasile, Horia Iovu, *Nanocomposite hydrogels for tissue engineering applications*

S6 – 343 **Elena Iuliana Biru** (University Politehnica of Bucharest, Romania), Daniela Zaharioiu Brinzoi, Gabriela Perca, Gabriela Ariton, Sorina Alexandra Garea, Horia Iovu, *Preparation and thermal properties of graphene oxide-reinforced polybenzoxazine*

S6 – 254 **Adriana Lungu** (University Politehnica of Bucharest, Romania), Alexandra I. Cernencu, Andreea Vadureanu, Adi Ghebaur, Sorina Dinescu, Marieta Costache, Horia Iovu, *Porous Nanocellulosic Materials as Platforms for Drug Delivery*

S6 – 259 **Catalin Zaharia** (University Politehnica of Bucharest, Romania), Alina Ionita, Andra Sirmon, Beatrice Girbaciu, Ionut-Cristian Radu, Doina Dimonie *The melt flow properties of new renewable compounds designed for 3D printing*

S6 – 283 **Paul Octavian Stanescu** (University Politehnica of Bucharest, Romania), Denis Mihaela Panaitescu, Adriana Nicoleta Frone, Ionut-Cristian Radu, Ioana Chiulan, Augusta Raluca Gabor, Cristian Andi Nicolae *Surface Modified Bacterial Cellulose for Packaging Application*

Section 6 - New Materials and Nanomaterials

Friday 6 September 2019

Time: 15:00 – 19:30

S6 – 252 **C.E. Iurciuc (Tincu)** („Grigore T. Popa” University of Medicine and Pharmacy, Iasi Romania), L.I. Atanase, R. Riva, C. Jérôme, L. Ochiuz, M. Popa, *Immobilization of Curcumin in Hydrogel Films Based on Albumin and Oxidized Gellan*

S6 – 262 **Sergiu Alexandru Stoian** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Iuliana Biru, George Mihai Vlasceanu, Adriana Nicoleta Frone, Augusta Raluca Gabor, Cristian Andi Nicolae, Denis Mihaela Panaitescu, *Micro-computed tomography analysis of bacterial cellulose cryogels*

S6 – 263 **Sergiu Alexandru Stoian** (National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania), Florin Ciuprina, Laura Andrei, Denis Mihaela Panaitescu, George Mihail Teodorescu, Cristian Andi Nicolae, Valentin Raditoiu, Raluca Augusta Gabor, *Structural, mechanical and dielectric properties of polyhydroxyalkanoate biocomposites*

S6 – 293 **Irina Zarafu** (University of Bucharest, Romania), Ioana Nicolau, Carmen Chifiriuc, Marcela Popa, Carmen Limban, Diana Camelia Nuta, Cristiana Radulescu, Ioana-Daniela Dulama, Petre Ion Ionita, *Biological Studies of Organic Functionalized Graphene-Oxide with Amines Derivatives of Pyrimidine*

S6 – 300 **Maria Ignat** (“Alexandru Ioan Cuza” University/“Petru Poni” institute of Macromolecular Chemistry, Romania), Cristina Coromelci, Elvira Mahu, Petrisor Samoila, Cornelius Cojocaru, Liviu Sacarescu, *One-pot synthesis of porous carbon using surfactant micelles as carbon source in the soft-templated silica synthesis procedure.*

S6 – 308 **Mirela Maria Codescu** (R&D National Institute for Electrical Engineering ICPE-CA Bucharest, Romania), Elena Chitanu, Wilhelm Kappel, Delia Patroiu, Eugen Manta, *Crystalline and Magnetic Structures in Oxide Systems, Hardened by Exchange Interactions*

S6 – 335 **Lenuta Profire** („Grigore T. Popa” University of Medicine and Pharmacy, Iasi Romania), Andreea Teodora Iacob, Luminita Confederat, Iustina Avram, Claudia Andries, Mihaela Mosnegutu, Simona Giusca, Irina Draga Caruntu, *Formulation of new hybrid hydrogels based on chitosan - hyaluronic acid and bentonite as potential chronic wound dressings*

S6 – 345 **Ramona Oana Gunache (Rosca)** („Dunarea de Jos” University of Galati, Galati Romania), Constantin Apetrei, *Voltammetric sensors for the analysis of three types of statins in pharmaceuticals*