

**9<sup>th</sup> International Conference of the Chemical Societies of the  
South-Eastern European Countries  
on  
«CHEMISTRY A NATURE CHALLENGER»**

**SCHEDULE**

Wednesday, May 8<sup>th</sup>, 2019

14 <sup>30</sup> – 18 <sup>00</sup>	Registration Opening – International Conference Center
18 <sup>00</sup> – 19 <sup>00</sup>	Visit to Old Town and Royal Court

Thursday, May 9<sup>th</sup>, 2019

8 <sup>00</sup> – 9 <sup>00</sup>	<b>Registration</b>
9 <sup>00</sup> – 9 <sup>30</sup>	<b>Red Hall Opening Ceremony</b>
9 <sup>30</sup> – 11 <sup>00</sup>	<b>Red Hall Plenary Session</b> Chairpersons: Adamantini Paraskevopoulou & Michaela Dina Stanescu
9 <sup>30</sup> – 10 <sup>15</sup>	<b>Plenary Lecture: Marina Stefova</b> – Analytical methodologies for polyphenols analysis: from spectrophotometry to mass spectrometry

*May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania*

*9<sup>th</sup> International Conference of the Chemical Societies of the South-East European Countries*

10 <sup>15</sup> – 11 <sup>00</sup>	<b>Plenary Lecture:</b> <i>Miloš Milčić et al.</i> – Phycocyanobilin, a bioactive compound of blue-green alga, binds with high affinity to serum albumin and lactoglobulin proteins
11 <sup>00</sup> – 11 <sup>30</sup>	<b>Coffee Break &amp; Poster Session 1</b> (S1, S4, S5 & S6)
11 <sup>30</sup> – 13 <sup>00</sup>	<b>Red Hall</b> Chairpersons: Marina Stefova & Eleonora Mihaela Ungureanu
11 <sup>30</sup> – 12 <sup>15</sup>	<b>Plenary Lecture:</b> <i>Andrei Medvedovici et al.</i> – Peak purity check in HPLC/DAD: Legend & pitfalls
12 <sup>15</sup> – 13 <sup>00</sup>	<b>Plenary Lecture:</b> <i>Adamantini Paraskevopoulou</i> - Encapsulation as an essential tool for improving food aroma quality
13 <sup>00</sup> – 14 <sup>30</sup>	<b>Lunch</b>
14 <sup>30</sup> – 18 <sup>30</sup>	<b>Parallel Sessions:</b>
<b>Blue Hall</b> <i>Inorganic chemistry and technology, inorganic materials and metallurgy</i> Chairperson: Radu Setnescu	
14 <sup>30</sup> – 14 <sup>50</sup>	<i>Ilie Siminiceanu</i> – The first ammonia plant from natural gas at Tarnaveni - 1936
14 <sup>50</sup> – 15 <sup>10</sup>	<i>Anca Silvestru et al.</i> – Heterocyclic diorganopnicogen compounds. Synthesis, structure and catalysis
15 <sup>10</sup> – 15 <sup>30</sup>	<i>Mihai Raduca et al.</i> – Coordination polymers and a dinuclear complex constructed from zinc(II) ions and fluorescein. Iodine adsorption and optical properties
15 <sup>30</sup> – 15 <sup>50</sup>	<i>Viorel Circu et al.</i> – Liquid crystals with luminescent properties based on lanthanides(III) and platinum(II) complexes

May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania

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15 <sup>50</sup> – 16 <sup>10</sup>	<i>Catalin Maxim et al.</i> – Chirality driven single-crystal-to-single-crystal transformations of copper(II) coordination polymers
<b>Red Hall</b> <i>Analytical and environmental chemistry</i> Chairperson: Cristina Todasca	
14 <sup>30</sup> – 14 <sup>50</sup>	<i>Cezara Zagrean-Tuza et al.</i> – Briggs-Rauscher reaction: Old method, new analytical perspective
14 <sup>50</sup> – 15 <sup>10</sup>	<i>Ana-Alexandra Sorescu et al.</i> – Noble metallic nanoparticles from natural materials: Sea buckthorn vs. Jujube
15 <sup>10</sup> – 15 <sup>30</sup>	<i>Laura Enache et al.</i> – Platinum nanoparticles as smart catalyst synthesized by KrF LASER ablation in liquids
15 <sup>30</sup> – 15 <sup>50</sup>	<i>Lucian Ionescu et al.</i> – Modulation of the biocide effects by different chemical structures
15 <sup>50</sup> – 16 <sup>10</sup>	<i>Daniel Mitru et al.</i> – Modulation of the effects of surfactants on the aquatic microbial communities
<b>Green Hall</b> <i>Organic chemistry, biochemistry and pharmaceutical chemistry</i> Chairperson: Igor M. Opsenica	
14 <sup>30</sup> – 14 <sup>50</sup>	<i>Zoran Ratkovic et al.</i> – Dehydrozingerone chalcone analogues with cyclopropyl ring and their derivatives
14 <sup>50</sup> – 15 <sup>10</sup>	<i>Florea Dumitrascu et al.</i> – Aza-Nenitzescu Reaction. New findings
15 <sup>10</sup> – 15 <sup>30</sup>	<i>Andrei Bejan &amp; Luminita Marin</i> – Phenothiazine based nanocrystals with tuned solid state emission
15 <sup>30</sup> – 15 <sup>50</sup>	<i>Cristina Scamoroscenco et al.</i> – Dermato-cosmetic delivery systems using biocompatible microemulsions
15 <sup>50</sup> – 16 <sup>10</sup>	<i>Mihaela Matache et al.</i> – Synthesis and investigation of novel N-acylhydrazones as light-emissive switching molecules
16 <sup>10</sup> – 16 <sup>30</sup>	<b>Coffee Break &amp; Poster Session 1</b> (S1, S4, S5 & S6)

May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania

**Blue Hall**

*Physical, structural chemistry, spectroscopy and electrochemistry*

Chairperson: Ratomir M. Jelic

16 <sup>30</sup> – 16 <sup>50</sup>	<i>Dan G. Dumitrescu et al.</i> – X-Ray induced single crystal to single crystal reactions
16 <sup>50</sup> – 17 <sup>10</sup>	<i>Veronica Anastasoae et al.</i> – Comparison of electrochemical properties of azulene-azothiadiazoles
17 <sup>10</sup> – 17 <sup>30</sup>	<i>Gabriela Iulia David et al.</i> – Make voltammetry better
17 <sup>30</sup> – 17 <sup>50</sup>	<i>George Mihail Teodorescu et al.</i> – Morphological and nanomechanical properties of PP/silicate minerals composites
17 <sup>50</sup> – 18 <sup>10</sup>	<i>Eleonora Mihaela Ungureanu</i> – Heavy metal analysis using new chemically modified electrodes based on azulene crown ethers-2
18 <sup>10</sup> – 18 <sup>40</sup>	<i>Cristina Lungu</i> – Jasco solutions for optical micro-analysis from UV to RAMAN

**Red Hall**

*Analytical and environmental chemistry*

Chairperson: Rodica Mariana Ion

16 <sup>30</sup> – 16 <sup>50</sup>	<i>Virginia Coman et al.</i> – DLLME-SFO for the simultaneous extraction of some nonsteroidal anti-inflammatory and hormone drugs in wastewater samples prior to HPLC
16 <sup>50</sup> – 17 <sup>10</sup>	<i>Mihaela Trandafir et al.</i> – La <sub>2</sub> O <sub>3</sub> -doped alumina supported ceria–manganese mixed oxides for CH <sub>4</sub> catalytic combustion
17 <sup>10</sup> – 17 <sup>30</sup>	<i>Silviu-Laurentiu Badea et al.</i> – Synthesis of iron sulfide (FeS) nanoparticles to study the reductive dechlorination of $\alpha$ -hexachlorocyclohexane in environment
17 <sup>30</sup> – 17 <sup>50</sup>	<i>Diana Puiu et al.</i> – Occurrence of some phenoxy carboxylic herbicides in different surface water and wastewater sources from Romania

May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania

*9<sup>th</sup> International Conference of the Chemical Societies of the South-East European Countries*

17 <sup>50</sup> – 18 <sup>20</sup>	<i>Rainer Rozenich</i> – Analytical Method Life Cycle Management
18 <sup>20</sup> – 18 <sup>40</sup>	<i>Lavinia Misaila et al.</i> – Water shed – Android application for the mineral waters classification
<b>Green Hall</b> <i>Organic chemistry, biochemistry and pharmaceutical chemistry</i> Chairperson: Anca Silvestru	
16 <sup>30</sup> – 16 <sup>50</sup>	<i>Liviu Birzan et al.</i> – Study of the 1-azulenediazenes containing a five member heterocycle by MS spectroscopy
16 <sup>50</sup> – 17 <sup>10</sup>	<i>Maria Cristina Lupas et al.</i> – Sodium alginate for sustainable leather tanning
17 <sup>10</sup> – 17 <sup>30</sup>	<i>Maria Marinescu et al.</i> - Green synthesis of silver nanoparticles with superior antimicrobial activities using onion ( <i>Allium cepa</i> ) extract
17 <sup>30</sup> – 17 <sup>50</sup>	<i>Calin Deleanu &amp; Alina Nicolescu</i> – NMR diagnosis of rare metabolic diseases
17 <sup>50</sup> – 18 <sup>20</sup>	<i>Victor Cosa</i> – Shaping laboratory space-design and build by e-Laborator
<b>19<sup>30</sup></b>	<b>Welcome Reception</b>

*May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania*

Friday, May 10<sup>th</sup>, 2019

8 <sup>00</sup> – 9 <sup>30</sup>	<b>Registration</b>
9 <sup>30</sup> – 11 <sup>00</sup>	<b>Red Hall</b> <b>Plenary Session:</b> Chairpersons: Miloš Milčić & Gheorghita Jinescu
9 <sup>30</sup> – 10 <sup>15</sup>	<b>Plenary Lecture: Ionel Haiduc</b> – Inverse coordination - An emerging new concept or The Janus face of coordination chemistry
10 <sup>15</sup> – 11 <sup>00</sup>	<b>Plenary Lecture: Petar Petrov</b> – Functional polymeric (nano)carriers of bioactive substances
11 <sup>00</sup> – 11 <sup>30</sup>	<b>Coffee Break &amp; Poster Session 2</b> (S2, S3, S7 & S8)
11 <sup>30</sup> – 13 <sup>00</sup>	<b>Red Hall</b> Chairpersons: Vesna Miskovic-Stankovic & Andrei Sirbu
11 <sup>30</sup> – 12 <sup>15</sup>	<b>Plenary Lecture: Michaela Dina Stanescu</b> – Various solutions for solving the pollution with textile dyes
12 <sup>15</sup> – 13 <sup>00</sup>	<b>Plenary Lecture: Rodica Mariana Ion</b> – Selected inorganic consolidants and protective treatments on Romanian stone monuments
13 <sup>00</sup> – 14 <sup>30</sup>	<b>Lunch</b>
14 <sup>30</sup> – 18 <sup>00</sup>	<b>Parallel Sessions:</b>

*May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania*

<b>Blue Hall</b>	
<i>Polymers and polymer materials</i>	
Chairperson: Ioana Maior	
14 <sup>30</sup> – 14 <sup>50</sup>	<i>Claudia Mihaela Ninciuleanu et al.</i> – Poly(methacrylic acid) nanocomposite hydrogels
14 <sup>50</sup> – 15 <sup>10</sup>	<i>Marin Micutz et al.</i> – Porous collagen matrices as storage environment useful in some antimicrobial release
15 <sup>10</sup> – 15 <sup>30</sup>	<i>Sergiu-Alexandru Stoian et al.</i> – Effect of TiO <sub>2</sub> on the properties of polyhydroxyalkanoates
15 <sup>30</sup> – 15 <sup>50</sup>	<i>Anda-Mihaela Craciun et al.</i> – Drug delivery systems based on chitosan and nitrosalicylaldehyde for local cancer therapy
15 <sup>50</sup> – 16 <sup>10</sup>	<i>Teodora Staicu et al.</i> – Luminescent poly(acrylic acid) hydrogels
<b>White Hall</b>	
14 <sup>30</sup> – 16 <sup>00</sup>	<b>Workshop</b> “Acquity Arc UHPLC with Empower software - a system that supports all aspects of a method’s life cycle” – <i>Waters Corporation</i>
<b>Green Hall</b>	
<i>Chemical engineering</i>	
Chairperson: Leontios Philotheou	
14 <sup>30</sup> – 14 <sup>50</sup>	<i>Robert Andrei Tincu et al.</i> – Towards an improved synthesis of 5-hydroxymethylfurfural from fructose
14 <sup>50</sup> – 15 <sup>10</sup>	<i>Ludmila Otilia Cinteza et al.</i> – Eco-friendly synthesis of novel multifunctional coatings with silver decorated zinc oxide nanoparticles
15 <sup>10</sup> – 15 <sup>30</sup>	<i>Elena Emilia Oprescu et al.</i> – Active compounds obtaining from sturgeon gonads using different extraction methods
15 <sup>30</sup> – 16 <sup>00</sup>	<i>Mihaela Apostol</i> – Environmental quality measurement solutions
16 <sup>10</sup> – 16 <sup>30</sup>	<b>Coffee Break &amp; Poster Session 2</b> (S2, S3, S7 & S8)

<b>Blue Hall</b>	
<i>Polymers and polymer materials</i>	
Chairperson: Petar Petrov	
16 <sup>30</sup> – 16 <sup>50</sup>	<i>Daniela Ailincai &amp; Luminita Marin</i> – Iminoboronate chitosan hydrogels – Promising materials for the treatment of candidiasis
16 <sup>50</sup> – 17 <sup>10</sup>	<i>Radu Setnescu et al.</i> – Study on temperature self-regulating effects in some composite materials of carbon/polymer type
17 <sup>10</sup> – 17 <sup>30</sup>	<i>Luminita Marin et al.</i> – Chitosan hydrogelation with monoaldehydes: A new strategy to multifunctional biomaterials
17 <sup>30</sup> – 17 <sup>50</sup>	<i>Delia Laura Popescu</i> – Self-assembled copper(II) coordination polymers
17 <sup>50</sup> – 18 <sup>10</sup>	<i>Delia Laura Popescu et al.</i> – New 1-D coordination polymers with organotin(IV) building-blocks
<b>Green Hall</b>	
<i>Biotechnology and food chemistry &amp; Education</i>	
Chairperson: Gabriela Iulia David	
16 <sup>30</sup> – 16 <sup>50</sup>	<i>Teodora Scrob et al.</i> – Bioaccessibility and potential gastro-intestinal uptake of chlorophylls, carotenoids and polyphenols from <i>Brassica oleracea</i>
16 <sup>50</sup> – 17 <sup>10</sup>	<i>Cristina Todasca et al.</i> – Rennet vs. clotting agents - Study of composition changes from cheese using NMR
17 <sup>10</sup> – 17 <sup>30</sup>	<i>Lidija Ralevic et al.</i> – The on-line animations for the solubility concept acquisition
17 <sup>30</sup> -18 <sup>00</sup>	<i>Alin Mogos</i> – Meet your analytical needs today and tomorrow - Agilent Technologies
18 <sup>10</sup> – 18 <sup>30</sup>	<b>Red Hall</b> Closing Ceremony
<b>19<sup>30</sup></b>	<b>Gala Dinner</b>

**Saturday, May 11<sup>th</sup>, 2019 – Departure of participants**

*May 8<sup>th</sup> – 11<sup>th</sup>, 2019, Targoviste, Romania*

Thursday, May 9<sup>th</sup>, 2019  
Poster Session 1

## S1. ANALYTICAL AND ENVIRONMENTAL CHEMISTRY

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### S1\_P\_01

#### *Determination of fatty and amino acids in Igalo bay peloid (Montenegro)*

Bigovic, Miljan; Kastratovic, Vlatko; Pantovic, Snezana; Roganovic, Milovan; Milasevic, Ivana; Ivanovic, Ljubica; Djurovic, Dijana; Slavic, Vjeroslava; Kosovic, Milica; Vlahovic, Mia

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### S1\_P\_02

#### *The examination of composition and physico-chemical properties of the peloid sediments from Sutomore (Montenegro)*

Vlahovic, Mia; Kosovic, Milica; Jacimovic, Zeljko

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### S1\_P\_03

#### *Complex characterization of sludge from sewage treatment plant*

Tanase, Narcis Mihai; Barboiu, Georgian Alin; Popescu, Ion V.; Bucurica, Ioana Alin; Dulama, Ioana Daniela; Teodorescu, Sofia; Stirbescu, Raluca Maria; Radulescu, Cristiana

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### S1\_P\_04

#### *Complex study on unconsolidated sediments of Amara salt lake*

Bucurica, Ioana Alin; Radulescu, Cristiana; Dulama, Ioana Daniela; Teodorescu, Sofia; Stirbescu, Raluca Maria; Bretcan, Petre; Tanislav, Daunt; Tanase, Narcis Mihai; Barboiu, Georgian Alin

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### S1\_P\_05

#### *Urtica dioica used as biomonitor for environmental pollution*

Barboiu, Georgian Alin; Tanase, Narcis Mihai; Popescu, Ion V.; Dulama, Ioana Daniela; Bucurica, Ioana Alin; Stirbescu, Raluca Maria; Teodorescu, Sofia; Radulescu, Cristiana

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### S1\_P\_06

#### *Analytical techniques applied in the study of ancient pigments*

Dulama, Ioana Daniela; Radulescu, Cristiana; Bucurica, Ioana Alin; Teodorescu, Sofia; Stirbescu, Raluca Maria; Margarit, Monica; Radu, Valentin; Voinea, Valentina; Tanase, Narcis Mihai; Barboiu, Georgian Alin

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### S1\_P\_07

#### *Trace metals pollution of region with developed copper mining activities in Bulgaria*

Ilieva, Radost; Tepavitcharova, Stefka; Kovacheva, Antonina; Gergulova, Rumiana; Rabadjieva, Diana

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### S1\_P\_08

#### *Influence of fluoroquinolone antibiotics on biospeciation of calcium(II) ion in human blood plasma by computer simulation*

Joksovic, Ljubinka; Smit, Biljana; Jakovljevic, Ivan; Mihailovic, Nevena; Petrovic, Djordje

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### S1\_P\_09

#### *Effectiveness of carbonated hydroxyapatite and their derivatives on stony materials*

Iancu, Lorena; Ion, Rodica-Mariana; Grigorescu, Ramona Marina; Ghioca, Paul; Grigore, Madalina Elena; Andrei, Ramona; Filipescu, Mircea Ioan; Vasilievici, Gabriel; Radu, George Ionut

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### S1\_P\_10

#### *Adsorption of methylene blue dye from industrial effluents using beech and fir wood sawdust as adsorbent support materials*

Udrea, Luminita Mihaela; Traistaru, Vanessa; Corban, Madalina; Ion, Rodica-Mariana

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**S1\_P\_11**

***Conservation of wood artifacts using B72 and B67 paraloid, calcium hydroxide and magnesium hydroxide nanoparticles***

Corban, Madalina; Udrea, Luminita Mihaela; Traistaru, Vanessa; Ion, Rodica-Mariana

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**S1\_P\_12**

***Optimization of a solid phase extraction protocol for catecholamine analysis in sheep brain extract***

Tampu, Ioana Raluca; Maciuca (Birtea), Alina Gabriela; Patriciu, Oana-Irina; Ifrim, Irina Loredana; Finaru, Adriana-Luminita; Elfakir, Claire

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**S1\_P\_13**

***Ecological assessment of surface waters and their nearby soils in Radnevo Region, Bulgaria***

Rabadjieva, Diana; Kovacheva, Antonina; Tepavitcharova, Stefka; Gergulova, Rumiana; Ilieva, Radost

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**S1\_P\_14**

***Phytochemical characterization of some water extracts of red grapes cultivated in ecological and traditional vineyards***

Alecu (Holban), Georgeta-Carmen; Nicolescu, Cristina Mihaela; Bumbac, Marius; Olteanu, Radu Lucian; Radulescu, Cristiana; Necula, Cezarina; Boboaca-Mihaescu, Nicoleta

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**S1\_P\_15**

***Freezing-thaw test for pretreated hydroxyapatite brick models***

Radu, George Ionut; Ion, Rodica-Mariana; Iancu, Lorena; Grigorescu, Ramona Marina; Grigore, Madalina Elena; Sorescu, Ana-Alexandra; Andrei, Ramona; Filipescu, Mircea Ioan; Udrea, Luminita Mihaela

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**S1\_P\_16**

***Research regarding the effect of grape pomace extracts on plant growth and development***

Bran, Petronela; Alexa, Irina-Claudia; Nicuta, Daniela; Suceveanu, Mirela; Grosu, Luminita; Finaru, Adriana-Luminita

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**S1\_P\_17**

***Investigation of chromatic parameters of the stone samples treated with hydroxyapatite derivatives***

Andrei, Ramona; Ion, Rodica-Mariana; Iancu, Lorena; Grigorescu, Ramona Marina; Radu, George Ionut; Filipescu, Mircea Ioan; Grigore, Madalina Elena

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**S1\_P\_18**

***Ions content of some stone samples from Corvins' Castle, Hunedoara***

Traistaru, Vanessa; Udrea, Luminita Mihaela; Corban, Madalina; Ion, Rodica-Mariana

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**S1\_P\_19**

***Effect of fine particulate matter on romanian rehabilitated cultural heritage***

Radulescu, Cristiana; Ion, Rodica-Mariana; Dulama, Ioana Daniela; Stihi, Claudia; Teodorescu, Sofia; Stirbescu, Raluca Maria; Let, Dorin Dacian; Gurgu, Ion Valentin; Bucurica, Ioan Alin; Olteanu, Liviu; Stirbescu, Nicolae Mihail; Stanescu, Sorina Geanina; Pehoiu, Gica; Murarescu, Ovidiu

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**S1\_P\_20**

***Oxidized carbon nanohorns as novel sensing layer for chemiresistive humidity sensor***

Serban, Bogdan Catalin; Cobianu, Cornel; Dumbravescu, Nicolae; Buiu, Octavian; Bumbac, Marius; Nicolescu, Cristina Mihaela

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**S1\_P\_21**

***Rudbeckia triloba (Asteraceae Family) - Spectrophotometric and antimicrobial characterization***

Minea, Zamfirica; Moldovan, Zenovia; Saviuc, Crina

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**S1\_P\_22**

***SP-ICP-MS – Critical evaluation of some parameters affecting quantification of silver nanoparticles***

Kaynarova, Lidia; Georgieva, Deyana; Stefanova, Violeta

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**S1\_P\_23**

***Characterization and classification of amino acids according to their antioxidant activity***

Guidea, Alexandrina; Casoni, Dorina; Mot, Augustin Catalin

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**S1\_P\_24**

***Determination of silver nanoparticles by single particle - ICP-MS after cloud point extraction***

Varbanova, Evelina; Simitchiev, Kiril; Stefanova, Violeta

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**S1\_P\_25**

***Evaluation of the efficiency of wastewater treatment plants in rural regions of Romania using the wastewater quality index***

Pirvu, Florinela; Paun, Iuliana; Chiriac, Florentina Laura; Niculescu, Marcela; Lehr, Blaziu Carol; Pascu, Luoana Florentina; Galaon, Toma

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**S1\_P\_26**

***Efficient reduction of nitrogen and phosphorus from liquid digestate with microalgae strain *Chroococcum minutus****

Paulenco, Anca; Galan, Ana Maria; Vintila, Alin Cristian Nicolae; Capra, Luiza; Velea, Sanda

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**S1\_P\_27**

***Fluorimetric and voltammetric approaches on aminoglycosides determination***

Cheregi, Mihaela-Carmen; David, Gabriela Iulia; Cristea, Catalina-Diana; Bucur, Bogdan; David, Victor

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**S1\_P\_28**

***Thermodynamic parameters obtained for the retention of aromatic hydrocarbons on phenylsilica stationary phase in reversed-phase liquid chromatography***

Soare, Andreia Cristina; Cheregi, Mihaela-Carmen; David, Victor

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**S1\_P\_29**

Evaluation of wastewater quality discharged in urban sewerage of Bucharest using water quality index

Dinu, Cristina; Ungureanu, Eleonora-Mihaela; Vasile, Gabriela-Geanina

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**S1\_P\_30**

***Monitoring of beta-lactam antibiotics in different wastewater samples***

Popa, Marcela; Marutescu, Luminita; Nita-Lazar, Mihai; Banciu, Alina; Chifiriuc, Carmen Mariana; Ivan, Bianca Cristina; Olar, Rodica; Badea, Mihaela; Badea, Irinel Adriana

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## **S4. PHYSICAL, STRUCTURAL CHEMISTRY, SPECTROSCOPY AND ELECTROCHEMISTRY**

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**S4\_P\_01**

***Spatial plasma structures in LASER induced plasma at interface metal – aqueous aerosol***

Stoiljkovic, Milovan; Momcilovic, Milos; Lazic, Violeta

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**S4\_P\_02**

***Infrared and Raman spectra of  $MgTiAsO_4 \cdot 6H_2O$***

Stefov, Viktor; Koleva, Violeta; Cahil, Adnan; Rexhepi, Albana; Abdija, Zuldjevat

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**S4\_P\_03**

***Aluminium deposits from  $AlCl_3$  + urea solvate ionic liquid on aluminum substrate at room temperatures***

Vukicevic, Natasa M.; Cvetkovic, Vesna S.; Nikolic, Nebojsa D.; Stevanovic, Jasmina S.; Jovicevic, Jovan N.

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**S4\_P\_04**

***Electrochemical deposition of titanium and aluminum from equimolar AlCl<sub>3</sub> + NaCl melt***

Cvetkovic, Vesna S.; Vukicevic, Natasa M.; Milicevic, Ksenija; Stopic, Srecko; Friedrich, Bernd; Jovicevic, Jovan N.

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**S4\_P\_05**

***Modified amperometric microsensors for botanical extracts assay***

Oancea, Ioana Adina; Van Staden, Jacobus (Koos) Frederick; Oancea, Elena; Ungureanu, Eleonora-Mihaela

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**S4\_P\_06**

***Nano-Fe<sub>2</sub>O<sub>3</sub> particles as voltammetric signal amplifiers in sensing of heavy metals and pesticides***

Milenkovic, Mila; Jevtic, Sonja; Laban, Bojana; Petkovic, Branka B.; Jokic, Anja

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**S4\_P\_07**

***HPLC-DAD-ESI-Q-TOF-MS profiling of Vernonia kotschyana extracts***

Vasincu, Alexandru; Vasincu, Ioana Mirela; Apotrosoaei, Maria; Constantin, Sandra; Skalicka-Wozniak, Krystyna; Luca, Vlad

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**S4\_P\_08**

***Electrochemically synthesized silver nanoparticles for antibacterial applications***

Nesovic, Katarina; Jankovic, Ana; Radetic, Tamara; Kojic, Vesna; Peric-Grujic, Aleksandra; Miskovic-Stankovic, Vesna

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**S4\_P\_09**

***Gentamicin-loaded bioceramic composite coating aimed for biomedical use***

Stevanovic, Milena; Dosic, Marija; Jankovic, Ana; Kojic, Vesna; Vukasinovic-Sekulic, Maja; Miskovic-Stankovic, Vesna

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**S4\_P\_10**

***Voltammetric analysis of metronidazole at a disposable electrode***

David, Gabriela Iulia; Parosanu, Catalina; Buleandra, Mihaela; Popa, Dana Elena; David, Vasile; Cheregi, Mihaela-Carmen

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**S4\_P\_11**

***Building a microcontroller based capacitively coupled contactless conductivity detector***

Lazar, Paul; David, Gabriela Iulia; Cheregi, Mihaela-Carmen; Buleandra, Mihaela; Popa, Dana Elena; David, Vasile; Iorgulescu, Emilia Elena

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**S4\_P\_12**

***Application of the pencil graphite electrode to trimethoprim voltammetric analysis***

David, Gabriela Iulia; Stancu, Andra Maria; Lazar, Paul; Buleandra, Mihaela; Popa, Dana Elena; David, Vasile; Iorgulescu, Emilia Elena

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**S4\_P\_13**

***Green synthesis of copper nanomaterials for electrochemical applications***

Chelu, Mariana; Lete, Cecilia; Munteanu, Cornel; Musuc, Adina Magdalena; Gartner, Mariuca

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**S4\_P\_14**

***Preliminary studies for antioxidants evaluation from wine by electrochemical methods***

Maior, Ioana; Cican, Diana Petruta; Todasca, Maria Cristina

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**S4\_P\_15**

***Raman spectroscopic investigation of pigments in decoration of neolithic pottery from Vădastra culture (Romania) using laboratory and portable instruments***

Cinteza, Ludmila Otilia; Marinescu, Maria; Raducan, Adina; Oancea, Petruta; Scamoroscenco, Cristina; Alexandrescu, Elvira; Petcu, Cristian; Tablet, Cristina

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**S4\_P\_16**

***Electrochemical synthesis of bismuth and copper nanowires involving ionic liquids analogues***

Petica, Aurora; Anastasoae, Veronica; Mihai, Geanina; Enachescu, Marius; Anicai, Liana

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## S5. POLYMERS AND POLYMER MATERIALS

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### S5\_P\_01

#### *Novel antibacterial silver(I) coordination polymers based on a flexible bis(pyrazolyl)-type ligand*

Tabacaru, Aurel; Dinica, Rodica Mihaela; Busila, Mariana; Pettinari, Claudio

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### S5\_P\_02

#### *Biocomposites from bacterial cellulose and polyhydroxyalkanoates*

Oprea, Madalina; Nicolae, Cristian Andi; Gabor, Raluca Augusta; Trusca, Roxana; Panaitescu, Denis Mihaela

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### S5\_P\_03

#### *Chitosan/collagen biomaterials with antibacterial properties for wound healing*

Grigore, Madalina Elena; Ion, Rodica-Mariana; Ficai, Anton; Ardeleanu, Ioana Lavinia; Ilie, Cornelia; Grigorescu, Ramona Marina; Iancu, Lorena; Andrei, Ramona; Radu, George Ionut; Filipescu, Mircea Ioan

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### S5\_P\_04

#### *Plastic composition of waste electric and electronic equipment*

Filipescu, Mircea Ioan; Iancu, Lorena; Ghioca, Paul; Ion, Rodica-Mariana; Grigore, Madalina Elena; Andrei, Ramona Elena; Radu, George Ionut; Nicolae, Cristian Andi; Rapa, Maria; Teodorescu, Sofia; Grigorescu, Ramona Marina

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### S5\_P\_05

#### *Physical-mechanical properties of composites based on waste electrical and electronic equipment*

Grigorescu, Ramona Marina; Ghioca, Paul; Iancu, Lorena; Ion, Rodica-Mariana; Grigore, Madalina Elena; Nicolae, Cristian Andi; Gabor, Raluca Augusta; Vuluga, Zina; Filipescu, Mircea Ioan; Andrei, Ramona Elena; Rapa, Maria

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### S5\_P\_06

#### *Collagen-chitosan composites for biomedical purposes*

Staicu, Teodora; Ionita, Gabriela; Cinteza, Ludmila Otilia; Voicu, Sorina Nicoleta; Bala, Daniela; Petcu, Cristian; Gifu, Ioana Catalina; Trica, Bogdan; Somoghi, Raluca; Ilis, Monica; Circu, Viorel; Micutz, Marin

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### S5\_P\_07

#### *Synthesis and characterization of a novel chitosan derivative using trimethylene carbonate*

Andreica, Bianca; Ailincai, Daniela; Marin, Luminita

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### S5\_P\_08

#### *EPR study on the hybrid materials represented by polysaccharides hydrogels and inorganic nanoparticles*

Minea, Zamfirica; Ionita, Gabriela; Matei, Iulia; Mocanu, Sorin; Aricov, Ludmila; Somoghi, Raluca

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### S5\_P\_09

#### *Gels of pluronic F127 for drug release*

Micutz, Marin; Badauta, Mihaela; Ilis, Monica; Circu, Viorel; Staicu, Teodora

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### S5\_P\_10

#### *New delivery systems for wound healing*

Radu, Anita Laura; Cojocaru, Crina Thea; Zaharia, Anamaria; Botez, Edward Razvan; Gavrila, Ana Mihaela; Iordache, Tanta Verona; Sarbu, Andrei; Damian, Celina; Stanescu, Paul

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### S5\_P\_11

#### *Inorganic-organic composites with enhanced properties for advanced ceramics*

Radu, Anita Laura; Sarbu, Andrei; Miron, Andreea; Zaharia, Anamaria; Gavrila, Ana Mihaela; Iordache, Tanta Verona; Sandu, Teodor; Coman, Alina Elena; Apostol, Steluta; Damian, Celina

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**S5\_P\_12**

***Nanogels composites for controlled – drug delivery***

Botez, Edward Razvan; Zaharia, Anamaria; Radu, Anita Laura; Cojocaru, Crina Thea; Iordache, Tanta Verona; Zaharia, Catalin; Radu, Ionut; Gavrilă, Ana Mihaela; Sandu, Teodor; Duldner, Monica; Sarbu, Andrei

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**S5\_P\_13**

***Hybrid materials by organic moieties grafting onto natural clays***

Dumitru, Marinela Victoria; Sandu, Teodor; Sarbu, Andrei; Ciurlica, Ana Lorena; Georgescu, Elena Bianca; Apostol, Steluta; Garea, Sorina Alexandra; Ghebaur, Adi

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**S5\_P\_14**

***New fluorene based polymer with white electro-luminescence emission***

Popovici, Dumitru; Rotaru, Aurelian; Marin, Luminita

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**S5\_P\_15**

***Hydrophilic polymer - oxidized carbon nanohorns composite - based chemiresistive humidity sensor***

Serban, Bogdan Catalin; Cobianu, Cornel; Dumbravescu, Nicolae; Buiu, Octavian; Nicolescu, Cristina Mihaela; Bumbac, Marius

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**S5\_P\_16**

***Potential of iminoboronate-chitosan nanofibers in wound healing application***

Anisie, Alexandru; Marin, Luminita

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**S5\_P\_17**

***Water soluble phenothiazine derivatives***

Cibotaru, Sandu; Belei, Dalila; Marin, Luminita

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**S5\_P\_18**

***The antimicrobial evaluation of some new chitosan microsystems with antidiabetic potential***

Constantin, Sandra; Vasincu, Ioana Mirela; Apotrosoaei, Maria; Caba, Ioana; Vasincu, Alexandru; Profire, Lenuta

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**S5\_P\_19**

***The development of chitosan nanoparticles using ionic gelation method***

Constantin, Sandra; Vasincu, Ioana Mirela; Apotrosoaei, Maria; Vasincu, Alexandru; Petrovici, Anca Roxana; Profire, Lenuta

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**S5\_P\_20**

***Pro-cicatrisation potential assessing of chitosan/hyaluronic acid sponges***

Iacob, Andreea Teodora; Dragan, Maria; Vasincu, Ioana Mirela; Apotrosoaei, Maria; Confederat, Luminita; Profire, Lenuta

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**S5\_P\_21**

***Kinetic analysis of polyethylene/rosemary composites melting***

Musuc, Adina Magdalena; Doni, Mihaela; Popa, Vlad Tudor

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**S5\_P\_22**

***Evaluation of the material degradation and radiation hardness of new composite materials***

Bancuta, Iulian; Gheboianu, Anca Irina; Setnescu, Radu; Setnescu, Tanta; Bancuta, Oana Roxana; Chilian, Andrei; Kulikov, Sergey; Culicov, Otilia

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## **S6. BIOTECHNOLOGY AND FOOD CHEMISTRY**

**S6\_P\_01**

***TLC and image analysis as new tool for the evaluation of antioxidant potential of redox-active drugs***

Casoni, Dorina; Guidea, Alexandrina; Kiraly, Alexandra Gabriela

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**S6\_P\_02**

***Protein hydrolysates from wool waste as plant biostimulants by using fungal isolates***

Raut, Iuliana; Calin, Mariana; Alexandrescu, Elvira; Oancea, Florin; Arsene, Melania Liliana; Vesilescu, Gelu; Gurban, Ana Maria; Doni, Mihaela; Jecu, Luiza

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**Friday, May 10<sup>th</sup>, 2019**

**Poster Session 2**

**S2. INORGANIC CHEMISTRY AND TECHNOLOGY, INORGANIC MATERIALS AND METALLURGY**

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**S2\_P\_01**

***Synthesis, DNA interaction and in vitro cytotoxic activity of dinuclear platinum(II) complexes with different N-heterocyclic bridging ligands***

Franich, Andjela Alessandro; Janjic, Goran V.; Ilic-Tomic, Tatjana; Zivkovic, Marija; Djuran, Milos; Nikodinovic-Runic, Jasmine; Rajkovic, Snezana

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**S2\_P\_02**

***Synthesis and characterization of new bifunctional ruthenium(II) polypyridyl complexes***

Medjedovic, Milica; Simovic, Ana Rilak; Petrovic, Biljana

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**S2\_P\_03**

***New cobalt(II) complexes with benzimidazole derivatives as ligands***

Diaconescu, Valentina; Chifiriuc, Carmen Mariana; Popa, Marcela; Olar, Rodica; Badea, Mihaela

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**S2\_P\_04**

***Cobalt (II) complexes with 1-phenylbiguanide as antimicrobial species***

Tulpan, Alina; Olar, Rodica; Badea, Mihaela

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**S2\_P\_05**

***Synthesis and cytotoxic activity of benzodiazine-bridged dinuclear palladium(II) complexes***

Draskovic, Nenad; Zivkovic, Marija; Franich, Andela; Arsenijevic, Aleksandar; Djordjevic, Dragana; Rajkovic, Snezana; Djuran, Milos

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**S2\_P\_06**

***Insight of new antimicrobials based on Cu(II) complexes with mixed ligands***

Olar, Rodica; Iordanescu, Victoras Iulian; Chifiriuc, Carmen Mariana; Daniliuc, Constantin Gabriel; Badea, Mihaela

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**S2\_P\_07**

***Ruthenium complexes with diaminodicarboxylate ligands having multiple target sites***

Ionita, Monica; Munteanu, Alexandra Cristina; Uivarosi, Valentine; Badea, Mihaela; Olar, Rodica

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**S2\_P\_08**

***Biological activity of mixed-ligand cobalt(II) macrocyclic complex***

Drazic, Branka; Tanaskovic, Sladana; Antonijevic-Nikolic, Mirjana

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**S2\_P\_09**

***Two-dimensional coordination polymers using lanthanide(III) ions and fluorescein spacers***

Raduca, Mihai; Ene, Cristian D.; Avram, Daniel; Tiseanu, Carmen; Madalan, Augustin M.

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**S2\_P\_10**

***Metal oxide semiconductors and their composites for relative humidity monitoring. An HSAB prospect***

Serban, Bogdan Catalin; Buiu, Octavian; Cobianu, Cornel; Bumbac, Marius; Nicolescu, Cristina Mihaela

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**S2\_P\_11**

*Liquid crystalline and mechanochromic properties of cyclometalated platinum(II) complexes with benzoylthiourea ligands*

Codreanu, Ana Maria; Ilis, Monica; Staicu, Teodora; Micutz, Marin; Circu, Viorel

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**S2\_P\_12**

*Synthesis, characterization and potential biological activity of new organotin(IV) derivatives*

Vieriu, Sabina Madalina; Varga, Richard A.; Licarete, Emilia; Banciu, Manuela

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**S2\_P\_13**

*Solid-state synthesis of silver nanoparticles*

Laban, Bojana; Veljovic, Dorde; Petkovic, Branka B.; Jokic, Anja

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**S2\_P\_14**

*New Fe<sup>2+</sup>, VO<sup>2+</sup> and Co<sup>2+</sup> complexes with curcumin derivatives: synthesis, redox and biological activity*

Bala, Daniela; Moldovanu, Lucia Oana; Fiastru, Malina; Stan, Miruna; Calinescu, Mirela

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**S2\_P\_15**

*Synthesis, spectral characterization and redox behavior of some metal(II) complexes with 2-carboxibenzaldehyde-2-benzothiazolyl hydrazone*

Calinescu, Mirela; Ungureanu, Iulia Maria; Bala, Daniela

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**S2\_P\_16**

*New stabilization methods of germynes and stannylenes*

Buta, Lavinia; Moraru, Ionut Tudor; Muresan, Alexandra; Adespei, Diana; Brem, Balazs; Septelean, Raluca; Nemes, Gabriela

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**S2\_P\_17**

*New hypercoordinated organoantimony(III) compounds*

Corjuc, Anamaria; Rat, Ciprian Ionut

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**S2\_P\_18**

*Solubility and dissolution rate enhancement by drug encapsulation into mesoporous silica*

Lincu, Daniel; Ionita, Simona; Mitran, Raul Augustin; Deaconu, Mihaela; Matei, Cristian; Berger, Daniela

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**S2\_P\_19**

*Composite phase change materials containing molten li-na-k nitrates and mesoporous silica*

Mitran, Raul Augustin; Lincu, Daniel; Ionita, Simona; Berger, Daniela; Matei, Cristian

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**S2\_P\_20**

*Novel ambiphilic proligands containing antimony*

Stoian, Corina

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**S2\_P\_21**

*Fabrication and characterization of novel hybrid coatings for hydrophobization of textiles based on zinc oxide and silica modified nanoparticles*

Marinescu, Maria; Scamorosenco, Cristina; Gifu, Ioana Catalina; Ianchis, Raluca; Alexandrescu, Elvira; Petcu, Cristian; Chirila, Laura; Stanculescu, Ioana Rodica; Raducan, Adina; Oancea, Petruta; Cinteza, Ludmila Otilia

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**S2\_P\_22**

*Synthesis and characterization of three new asymmetric binuclear sciff-base 3D-4F compounds*

Maxim, Catalin; Topor, Alexandru; Andruh, Marius

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**S2\_P\_23**

*Metalloligands obtained from pyrazinoic acid*

Pasatoiu, Traian D.; Maxim, Catalin; Andruh, Marius

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**S2\_P\_24**

*New luminescent 3D-4F building-blocks*

Pasatoiu, Traian D.; Madalan, Augustin M.; Andruh, Marius

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### S3. ORGANIC CHEMISTRY, BIOCHEMISTRY AND PHARMACEUTICAL CHEMISTRY

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#### S3\_P\_01

##### *Improved Pd/C catalyzed decarbonylation of aliphatic aldehydes*

Nikolic, Andrea M.; Ajdacic, Vladimir; Opsenica, Igor M.

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#### S3\_P\_02

##### *Quick access, modulation and study of pyrazolo[3,4-d] thiazoles*

Ostache, Nicu Cosmin; Hiebel, Marie Aude; Finaru, Adriana-Luminita; Guillaumet, Gerald; Suzenet, Franck

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#### S3\_P\_03

##### *Influence of fluoroquinolones on the binding of tigecycline to human serum albumin*

Jelic, Ratomir M.; Stojanovic, Stefan D.; Odovic, Jadranka V.

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#### S3\_P\_04

##### *Novel substituted haloaminopyrazoles with anti-tumor activity*

Chiva, Alexandru; Ene, Flavia; Dobre, Laura; Al Ioanii, Catalina; Chirita, Ionela; Buta, Cristina; Radu, Mihai; Zalaru, Christina; Dumitrascu, Florea; Draghici, Constantin; Ferbinteanu, Marilena; Marinescu, Maria; Tarcomnicu, Isabela; Tatia, Rodica; Moldovan, Lucia

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#### S3\_P\_05

##### *Affinity and effect of anticancer drugs on the redox reactivity of hemoglobin*

Puscas, Cristina; Mircea, Alina; Raiu, Madalina; Mic, Mihaela; Attia, Amr A.A.; Silaghi-Dumitrescu, Radu

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#### S3\_P\_06

##### *On the stability of glutaraldehyde in biocide compositions*

Matei, Alina Catalina; Puscas, Cristina; Patrascu, Iulia; Lehene, Maria; Baia, Monica; Silaghi-Dumitrescu, Radu

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#### S3\_P\_07

##### *Antitumor activity of ten polyoxometalates. an in vitro study on cancer and normal cell lines*

Balici, Stefana; Soritau, Olga; Rusu, Dan; Filip, Miuta; Nicula, Gheorghe; Ungur, Rodica; Matei, Horea; Siserman, Costel

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#### S3\_P\_08

##### *Active-metal template synthesis of a [2]rotaxane using „click” chemistry*

Cucuiet, Teodor Aurelian; Anghel, Catalin; Hadade, Niculina; Grosu, Ion

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#### S3\_P\_09

##### *The effect of ruthenium(II) complexes on the oxidation-reduction processes in thp-1 leukemic cells*

Krstic, Milena P.; Borozan, Suncica Z.; Santibanez, Juan Francisco; Sovilj, Sofija P.; Grguric-Sipka, Sanja

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#### S3\_P\_10

##### *New approaches of peptide synthesis*

Morosan, Alina; Mihaiescu, Dan Eduard; Istrati, Daniela; Stan, Raluca; Voicu, Georgeta; Vasile, Bogdan

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#### S3\_P\_11

##### *Two new analogues of 7-epi-goniofufurone: synthesis, antiproliferative activity and SAR study*

Francuz, Jovana; Benedekovic, Goran; Zelenovic, Bojana Sreco; Popsavin, Mirjana; Kojic, Vesna; Svircev, Milos; Popsavin, Velimir

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**S3\_P\_12**

***Novel dia- and para-magnetic polycarboxylic ligands for metal ion complexes***

Stoian, Marius C.; Coman, Anca G.; Popescu, Codruta C.; Paun, Anca; Ionita, Petre; Radoi, Antonio; Matache, Mihaela

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**S3\_P\_13**

***Photocatalytic TiO<sub>2</sub> sensitized with graphene oxide in water-based styrene-acrylic coatings***

Raditoiu, Valentin; Ispas, Georgiana Cornelia; Raditoiu, Alina; Raduly, Florentina Monica; Purcar, Violeta; Manea, Raluca; Frone, Adriana; Wagner, Luminita Eugenia

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**S3\_P\_14**

***Sol-gel bilayer coatings based on silica hybrids and TiO<sub>2</sub> sensitized with iron(III) phthalocyanine***

Purcar, Violeta; Manea, Raluca; Raditoiu, Valentin; Raditoiu, Alina; Raduly, Florentina Monica; Ispas, Georgiana Cornelia; Frone, Adriana; Wagner, Luminita Eugenia; Caprarescu, Simona

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**S3\_P\_15**

***Highly emissive oxadiazole-based compounds through cross-coupling reactions as key step***

Purcarea, Alexandra Mihaela; Matache, Mihaela; Dobre, Adela; Coman, Anca Gabriela; Popescu, Codruta; Paun, Anca; Mihalache, Iuliana

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**S3\_P\_16**

***Synthesis and antitumour activity of two dephenylated (-)-goniofufurone analogues***

Zelenovic, Bojana Sreco; Kekezovic, Sladana; Kojic, Vesna; Benedekovic, Goran; Jadrantin, Milka; Popsavin, Mirjana; Popsavin, Velimir

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**S3\_P\_17**

***Expanding the substrate scope of phenylalanine ammonia lyases***

Amariei, Diana Alexandra; Moisa, Madalina Elena; Tork, Souad Diana; Bencze, Laszlo Csaba

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**S3\_P\_18**

***Synthesis of polyaryl compounds using the Suzuki coupling reaction in aqueous medium***

Matache, Mihaela; Frincu, Alexia Mihaela; Coman, Anca Gabriela; Paun, Anca; Popescu, Codruta Constanta; Nicolau, Ioana

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**S3\_P\_19**

***Vapour phase synthesis of alkylpyrazines used as flavouring products***

Teodorescu, Florin; Slabu, Andrei

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**S3\_P\_20**

***Evaluation of toxicological potential of some thiazolidin-4-one derivatives of phenazone***

Apotrosoaei, Maria; Vasincu, Ioana Mirela; Constantin, Sandra Madalina; Iacob, Andreea; Vasincu, Alexandru; Butnaru, Maria; Profire, Lenuta

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**S3\_P\_21**

***Biological activity of organic functionalized graphene-oxide with pyridine derivatives***

Zarafu, Irina; Nicolau, Ioana; Chifiriuc, Carmen Mariana; Popa, Marcela; Limban, Carmen; Nuta, Diana Camellia; Radulescu, Cristiana; Dulama, Ioana Daniela; Ionita, Petre Ion

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**S3\_P\_22**

***Synthesis, electrochemical and biological studies of new isoniazid derivatives***

Bala, Daniela; Nicolau, Ioana; Chifiriuc, Carmen Mariana; Popa, Marcela; Limban, Carmen; Nuta, Diana Camellia; Ionita, Petre Ion; Zarafu, Irina

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**S3\_P\_23**

***The synthesis of new 4-aminoantipyrine derivatives and the studies of their electrochemical properties***

Bala, Daniela; Nicolau, Ioana; Ionita, Petre Ion; Zarafu, Irina

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**S3\_P\_24**

***Mechanistic aspects of the reduction of carbonyl compounds with nickel-aluminum alloy in alkaline aqueous media***

Suceveanu, Mirela; Finaru, Adriana-Luminita; Raicopol, Matei; Rosca, Sorin I.

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**S3\_P\_25**

***Microwave-assisted multicomponent synthesis of benzof[*f*]pyrrolo[1,2-*a*]quinoline derivatives***

Georgescu, Emilian; Georgescu, Florentina; Dumitrascu, Florea; Draghici, Constantin; Stavarache, Carmen; Nicolescu, Alina; Deleanu, Calin

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**S3\_P\_26**

***Synthesis and spectroscopic properties of a new fluorescent strigolactone mimic***

Georgescu, Emilian; Georgescu, Florentina; Oancea, Florin; Nicolescu, Alina; Airinei, Anton; Tigoianu, Radu; Deleanu, Calin

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**S3\_P\_27**

***Studies on separation of some flavonoid glycosides by HPLC***

Sandulovici, Roxana Colette; D'alessandro, Gabriele; Darie, Dumitrita Gianina; Ailiesei, Ioana; Moldovan, Zenovia; David, Gabriela Iulia; Popa, Dana Elena; Buleandra, Mihaela; Tencaliec, Anca Monica; Badea, Irinel Adriana

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**S3\_P\_28**

***The toxicological profile of some new derivatives of aryl-propionic acid***

Vasincu, Ioana; Vasincu, Alexandru; Constantin, Sandra; Apotrosoaei, Maria; Iacob, Andreea Teodora; Butnaru, Maria; Profire, Lenuta

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**S3\_P\_29**

***Hybride organic-inorganic perovskite ( $CH_3NH_3Pb_{1-x}Eu_xI_3$ ) for solar cell applications***

Neatu, Florentina; Derbali, Sarah; Neatu, Stefan; Galca, Aurelian C.; Leonat, Lucia N.; Tomulescu, Andrei G.; Stancu, Viorica; Toma, Vasilica; Pintilie, Ioana; Florea, Mihaela

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**S3\_P\_30**

***Preparation of azulene - decorated on reduced graphene oxide hybrid materials***

Marinoiu, Adriana; Dogaru, Andreea; Carcadea, Elena; Enache, Stanica; Nica, Simona

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**S3\_P\_31**

***Biological evaluation of new ferulic acid hydrazones***

Dragan, Maria; Iacob, Andreea Teodora; Dragostin, Oana Maria; Profire, Lenuta; Confederat, Luminita; Stan, Catalina Daniela

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**S3\_P\_32**

***Degradation of organo-persistent pesticides by heterogenic photocatalization (optimal conditions)***

Dragan, Maria; Iacob, Andreea Teodora; Confederat, Luminita; Dragostin, Oana Maria; Cretescu, Igor; Stan, Catalina Daniela

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**S3\_P\_33**

***Identification of molecular fragments responsible for the antimicrobial activity of *N'*-(substituted phenyl)-2-(1*H*-azol-1-yl) acetamides***

Amzoiu, Emilia; Amzoiu, Manuel; Belu, Ionela; Popescu, Sofia; Cheita, Gratiela; Amzoiu, Denisa

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**S3\_P\_34**

***Synthesis, crystal structure and biological activity of 2-hydroxy-8-substituted-tricyclo [7.3.1.0<sup>2,7</sup>] tridec-13-ones***

Zarafu, Irina; Nicolau, Ioana; Sarbu, Ecaterina Monica; Chifiriuc, Carmen Mariana; Marutescu, Luminita; Ionita, Petre Ion; Ferbinteanu, Marilena

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**S3\_P\_35**

***Synthesis and reactivity of thioorganic heterocyclic compounds in palladium-catalysed couplings***

Ionete, Cristina; Anghel, Adriana; Paladache, Laura; Popescu, Codruta C.; Paun, Anca; Matache, Mihaela

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**S3\_P\_36**

***Interlaboratory quantitation assessment for NMR metabolomics***

Ailiesei, Gabriela; Dorneanu, Cristina; Macsim, Ana-Maria; Stavarache, Cristina; Tirnacop, Lacramioara; Nicolescu, Alina; Deleanu, Calin

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## S7. CHEMICAL AND TEXTILE ENGINEERING

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### S7\_P\_01

#### *Application of fern extracts: from biomedicine to nanotechnology*

Fierascu, Radu Claudiu; Fierascu, Irina; Fistos, Toma; Baroi, Anda Maria; Brazdis, Roxana Ioana

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### S7\_P\_02

#### *Apatite materials: from environmental protection to cultural heritage preservation*

Fierascu, Radu Claudiu; Fierascu, Irina; Brazdis, Roxana Ioana; Baroi, Anda Maria; Fistos, Toma

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### S7\_P\_03

#### *Effects of halloysite clay nanotubes on collagen matrix within historical leather*

Paunescu, Simona Maria; Hadimbu, Emanuel; Caniola, Iulia Maria; Lupas, Maria Cristina; Carsote, Cristina; Badea, Elena

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### S7\_P\_04

#### *Effects of low-temperature plasma on parchment – towards a new system for cleaning and decontamination of historical parchments*

Caniola, Iulia Maria; Paunescu, Simona Maria; Carsote, Cristina; Tino, Radovan; Vizarova, Katarina; Badea, Elena

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### S7\_P\_05

#### *Biofuels from digestate by pyrolysis process*

Vasilievici, Gabriel; Velea, Sanda; Bombos, Mihaela; Oprescu, Emilia; Ghimis, Simona; Doukeh, Rami

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### S7\_P\_06

#### *Synthesis of fuel additive from biomass platform molecules*

Oprescu, Elena Emilia; Enascuta, Cristina Emanuela; Radu, Elena; Radu, Adrian; Vasilievici, Gabriel; Bombos, Mihaela

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### S7\_P\_07

#### *Combined treatment of cotton textile materials using Gamma irradiation and Ag<sup>+</sup> and ZnO nanoparticles*

Capraru, Ovidiu; Herman, Cosmin; Radulescu, Denisa Maria; Chirila, Laura; Cinteza, Ludmila Otilia; Stanculescu, Ioana Rodica

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### S7\_P\_08

#### *Gamma irradiation and nanoparticles treatments for the functionalization of leather materials*

Herman, Cosmin; Capraru, Ovidiu; Lungu, Ion; Stanculescu, Ioana Rodica; Constantin, Mihai; Cinteza, Ludmila Otilia; Stanca, Maria; Gaidau, Carmen

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## S8. EDUCATION

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### S8\_P\_01

#### *About supramolecular chemistry-how a modern and revolutionary scientific concept can be presented to the students as chemistry of every day*

Serban, Bogdan Catalin; Buiu, Octavian; Cobianu, Cornel; Bumbac, Marius; Nicolescu, Cristina Mihaela

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