

**11-13 October 2018, Park Hotel Sankt Peterburg, Plovdiv**
<http://11cc.uni-plovdiv.net/>

## AGENDA

### Thursday 11 October 2018

*Arrival of the foreign participants:*
*Meeting point at Sofia Airport, transport to Plovdiv and accommodation in the hotels*

13:30 – 16:30 Registration

16:30 – 18:30 Social events, session chair volunteers meeting

### Friday 12 October 2018

*Conference Hall Puldin*

#### Morning Session

08:00 – 13:30 Registration of the participants in 11 CC

 09:00 – 09:30 **11CC OPENING**

Prof. Zapryan Kozludzhov

Rector of the University of Plovdiv "Paisii Hilendarski"

Assoc. Prof. Veselin Kmetov - Dean of the Faculty of Chemistry

 09:30 – 11:00 **PLENARY LECTURES - FIRST BLOCK**

11:00 – 11:45 COFFEE BREAK

 11:45 – 13:15 **PLENARY LECTURES**

13:15 – 14:00 LUNCH

*Sponsors exhibition*

#### Afternoon Session

 14:00 – 15:00 **Lectures:**  
**SECTION 1** Theoretical chemistry, Analytical chemistry; Hall Puldin  
**SECTION 2** Organic chemistry and New methods and materials; Hall Droujba  
**SECTION 3** Inorganic chemistry and Chemistry and Education; Hall Neva

15:00 – 15:30 COFFEE BREAK

 15:30 – 16:50 **Lectures:**  
**SECTION 1** Theoretical chemistry, Analytical chemistry; Hall Puldin  
**SECTION 2** Organic chemistry and New methods and materials; Hall Droujba  
**SECTION 3** Inorganic chemistry and Chemistry and Education; Hall Neva

16:50 – 18:50 POSTER SESSION 1 - Food chemistry, New methods and materials, Analytical chemistry

20:00 11 CC Dinner - Park Hotel Sankt Peterburg; Main Restaurant

*Sponsors exhibition*

### Saturday 13 October 2018

*Conference Hall Puldin*

#### Morning Session

 09:00 – 10:30 **PLENARY LECTURES - SECOND BLOCK**

10:30 – 11:00 COFFEE BREAK

 11:00 – 12:30 **PLENARY LECTURES**

12:30 – 13:30 LUNCH

#### Afternoon Session

 13:30 – 14:50 **Lectures:**  
**SECTION 4** Physical chemistry; Hall Puldin  
**SECTION 5** Food chemistry, Hall Droujba

15:00 – 17:00 COFFEE BREAK and POSTER SESSION 2 - Inorganic chemistry, Organic chemistry, Theoretical chemistry, Physical chemistry and Chemistry and Education

 17:00 **11 CC CLOSING**

## PLENARY LECTURES

Friday 12 October 2018		Conference Hall Puldin
<b>Chairman</b> P. Penchev		<b>PLENARY LECTURES - FIRST BLOCK</b>
09:30 – 10:00	PL1	<b>Matrix effects revisited in plasma spectrometry: standard dilution analysis based on a new multinebulizer</b> <u>A. Canals</u> University of Alicante and Materials Institute, Spain
10:00 – 10:30	PL2	<b>Synthesis of Functionalised Heterocycles - Tales of the Unexpected</b> <u>M. Moloney</u> University of Oxford, England, UK
10:30 – 11:00	PL3	<b>New ventures in copper nanoparticles and indolizines</b> <u>F. Alonso Valdés</u> University of Alicante, Spain
11:00 – 11:45		COFFEE BREAK
11:45 – 12:15	PL4	<b>From foamed suspensions to functional porous materials</b> <u>N. Denkov</u> University of Sofia "St. Kliment Ohridski", Bulgaria
12:15 – 12:45	PL5	<b>New and established approaches to increase speed and throughput in gas chromatography</b> <u>E. Rosenberg</u> Vienna University of Technology, Institute of Chemical Technologies and Analytics, Austria
12:45 – 13:15	PL6	<b>Accuracy of results via reference materials for atomic and molecular mass spectrometry</b> <u>E. Bulska</u> University of Warsaw, Poland
Saturday 13 October 2018		Conference Hall Puldin
<b>Chairman</b> V. Stefanova		<b>PLENARY LECTURES - SECOND BLOCK</b>
09:00 – 09:30	PL7	<b>Gold nanostructures - modified electroconductive materials: development, characterization and applications in electrochemical biosensors</b> <u>N. Dimcheva</u> University of Plovdiv "Paisii Hilendarski", Bulgaria
09:30 – 10:00	PL8	<b>Monitoring of trace elements and long lived radionuclides in the open ocean</b> <u>E. Vassileva</u> International Atomic Energy Agency, Environmental Laboratories, Monaco
10:00 – 10:30	PL9	<b>Different approaches for enhancing the electrocatalytic activity of electrode materials in hydrogen economy</b> <u>P. Paunović</u> University "Sts. Cyril and Methodius", Skopje, Macedonia
10:30 – 11:00		COFFEE BREAK
11:00 – 11:30	PL10	<b>Polymer nanocomposites via Click chemistry reactions</b> <u>M. Atilla Tasdelen</u> Yalova University, Turkey
11:30 – 12:00	PL11	<b>Inclusion complexes based on cyclodextrins and starches</b> <u>T. Spassov</u> University of Sofia "St. Kliment Ohridski", Bulgaria
12:00 – 12:30	PL12	<b>Synthetic applications of beta-enaminones.</b> <u>Pl. Angelov</u> University of Plovdiv "Paisii Hilendarski", Bulgaria

## LECTURES

Friday 12 October 2018		Conference Hall Puldin
SECTION 1 <i>Theoretical chemistry and Analytical chemistry</i>		
Chairman K. Simitchiev		LECTURES
14:00 – 14:20	S1L1	<b>Tautomerism in azodyes and related Schiff bases: if theory meets experiment.</b> <u>L. Antonov</u> BAS, Institute of Organic Chemistry with Centre of Phytochemistry, Bulgaria
14:20 – 14:40	S1L2	<b>DFT study of interactions between hydroxamic acids and histone deacetylases</b> <u>N. Toshev, D. Cheshmedzhieva, T. Dudev</u> University of Sofia "St. Kliment Ohridski", Bulgaria
14:40 – 15:00	S1L3	<b>One-pot synthesis of formamide-based prebiotic compounds after heating and proton irradiation</b> <u>V. Enchev</u> BAS, Institute of Organic Chemistry with Centre of Phytochemistry, Bulgaria
15:00 – 15:30		COFFEE BREAK
15:30 – 15:50	S1L4	<b>Artificial intelligence applications in drug discovery</b> <u>D. Hristozov</u> Evotec, UK
15:50 – 16:10	S1L5	<b>Profile of volatile organic compounds (VOCs) emitted from the point of combustion of charcoals produced from three potentially toxic tree plants in Nigeria</b> <u>J. Gushit</u> University of Jos, Nigeria
16:10 – 16:30	S1L6	<b>Analysis of some illicit drugs and abused pharmaceuticals in municipal wastewaters (effluents) of Nottingham</b> <u>M. Aliru Olajide</u> Kwara State University Malete, Nigeria
16:30 – 16:50	S1L7	<b>Chemical reagents for detection of fluoroquinolones by immunoassays</b> <u>S. Eremin</u> A.N. Bach Institute of Biochemistry, Research Centre of Biotechnology of the Russian Academy of Sciences, Moscow, Russia

Friday 12 October 2018		Conference Hall Droujba
SECTION 2 <i>Organic chemistry and New methods and materials</i>		
Chairman S. Atanasova		LECTURES
14:00 – 14:20	S2L1	<b>Neo-clerodane diterpenoids from <i>Scutellaria velenovskyi</i> rech. fil.</b> <u>Pl. Penchev, P. Bozov</u> University of Plovdiv "Paisii Hilendarski", Bulgaria
14:20 – 14:40	S2L2	<b>Microwave-assisted synthesis and characterisation of inulin acetates</b> <u>R. Arabadzhieva, N. Petkova, I. Ivanov</u> University of Food Technologies Plovdiv, Bulgaria
14:40 – 15:00	S2L3	<b>Surface coatings based on glycerol phase and waste polyethylene terephthalate</b> <u>N. Todorov</u> Bourgas University "Prof. Assen Zlatarov", Bulgaria
15:00 – 15:30		COFFEE BREAK

**Friday 12 October 2018**
**Conference Hall Droujba**
**SECTION 2 Organic chemistry and New methods and materials**

15:30 – 15:50	S2L4	<b>Suppressive effect of salicylaldehyde benzoylhydrazone derivatives on ferrous iron-induced oxidative molecular damage – evaluation of the structure-protection activity relationship via Raman analysis</b> <u>V. Hadjimitova, N. Hristova-Avakumova, B. Nikolova-Mladenova, E. Valcheva</u> Medical University – Sofia, Bulgaria
15:50 – 16:10	S2L5	<b>Forming and lamination of specific polystyrene parts technology</b> <u>N. Todorov</u> Bourgas University “Prof. Assen Zlatarov”, Bulgaria
16:10 – 16:30	S2L6	<b>E-Z Photoisomerization in photoswitchable molecular machines for triplet-triplet annihilation upconversion induced molecular organic solar thermal systems</b> <u>M. Kandinska, R. Dimitrova, S. Kitova, V. Videva, S. Stoyanov, S. Yordanova, S. Stanimirov, S. Angelova, S. Balushev, A. Vasilev</u> University of Sofia “St. Kliment Ohridski”, Bulgaria

**Friday 12 October 2018**
**Conference Hall Neva**
**SECTION 3 Inorganic chemistry and Chemistry and Education**
**Chairman**

V. Lekova

**LECTURES**

14:00 – 14:20	S3L1	<b>Supporting laboratory learning through the use of peer assessment and feedback</b> <u>M. Rashid</u> Manchester Metropolitan University, UK
14:20 – 14:40	S3L2	<b>The current environmental state in Kosovo: challenges and possible solutions</b> <u>B. Korça, K. Jusufi</u> University of Pristina, Kosovo
14:40 – 15:00	S3L3	<b>Metallo-supramolecular assemblies with application in bioinorganic chemistry - anticancer activity of Pd(II) and Pt(II)-linked coordination capsules</b> <u>A. Ahmedova,</u> University of Sofia “St. Kliment Ohridski”, Bulgaria
15:00 – 15:30		COFFEE BREAK
15:30 – 15:50	S3L4	<b>Impact of 5-amino orotic acid and its complex with Lanthanum(III) on the luminol-dependent chemiluminescence in presence of sodium hypochlorite</b> <u>L. Todorov, T. Traykova, I. Kostova</u> Medical University – Sofia, Bulgaria
15:50 – 16:10	S3L5	<b>Cost-effective Na-Y zeolite synthesized from impure Algerian kaolin and sand by hydrothermal alkaline activation</b> <u>B. Abbani, M. Belhachemi, L. Driss.</u> University of Taheri Mohamed- Bechar, Algeria

**Saturday 13 October 2018**
**Conference Hall Puldin**
**SECTION 4 Physical chemistry**
**Chairman**

N. Dimcheva

**LECTURES**

13:30 – 13:50	S4L1	<b>Balloon-borne measurements in the upper troposphere and lower stratosphere above Bulgaria (N41-43° E24-26°)</b> <i>A. Terziyski, St. Tenev, V. Jeliaskov, N. Kochev, G. Dimitrov, N. Jeliaskova, L. Iliev,</i> University of Plovdiv "Paisii Hilendarski", Bulgaria
13:50 – 14:10	S4L2	<b>Study of the effect of structure on the kinetics and mechanism of Fe(III)/Fe(II) complexes</b> <i>R. Khattak, J. Naqvi</i> Shaheed Benazir Bhutto Women University, Peshawar, Pakistan
14:10 – 14:30	S4L3	<b>Catalytic performance of LnFeO<sub>3</sub> complex oxides for dry reforming of methane to synthesis gas</b> <i>V. Kost, A. Sizykh, T. Kryuchkova, V. Zimina, T. Sheshko, A. Cherednichenko, V. Kurilkin, M. Safronenko</i> Peoples' Friendship University of Russia (RUDN University)
14:30 – 14:50	S4L4	<b>Polyelectrolyte-modified kaolinite nanocontainers for entrapment of corrosion inhibitor benzotriazole</b> <i>K. Kamburova, Ts. Radeva</i> BAS, Institute of Physical Chemistry, Bulgaria

**Saturday 13 October 2018**
**Conference Hall Droujba**
**SECTION 5 Food chemistry**
**Chairman**

M. Zlatanov

**LECTURES**

13:30 – 13:50	S5L1	<b>A comparative study on chemical and lipid composition of amaranth seeds (<i>Amaranthus caudatus</i> L.) with different origin.</b> <i>Zh. Petkova, G. Antova, M. Angelova-Romova, I. Vaseva</i> University of Plovdiv "Paisii Hilendarski", Bulgaria
13:50 – 14:10	S5L2	<b>Morphological and biochemical diversity of common bean landraces</b> <i>T. Stoilova, G. Antova, P. Chavdarov, N. Velcheva</i> Institute of Plant genetic Resources, Sadovo, Bulgaria
14:10 – 14:30	S5L3	<b>Utilization of essential oil industry Chamomile wastes as source of polyphenols</b> <i>N. Yantcheva, I. Vasileva, V. Shikov, P. Denev, H. Fidan, R. Denkova, A. Slavov</i> University of Food Technologies Plovdiv, Bulgaria
14:30 – 14:50	S5L4	<b>"Green" synthesis of gold nanoparticles with <i>Rosa damascena</i> waste and brewer's yeast</b> <i>A. Slavov, I. Vasileva, D. Karashanova, B. Georgieva, R. Dinkova, Y. Georgiev, V. Shikov</i> University of Food Technologies Plovdiv, Bulgaria

**POSTER SESSIONS**

Friday 12 October 2018		16:50 – 18:50
POSTER SESSION 1 - <i>Food chemistry, New methods and materials, Analytical chemistry</i>		
Code	Title	Authors
<b>S1P1</b>	Phenol profile and antioxidant activity of wild growing <i>Nectaroscordum siculum</i> ssp. <i>Bulgaricum</i> (Janka) Stearn	R. Vrancheva, M. Stoyanova, D. Myhailova, I. Aneva, I. Deseva, N. Petkova, I. Ivanov, A. Pavlov
<b>S1P2</b>	Phytochemical analysis and <i>in vitro</i> antioxidant activity of grains	R. Vrancheva, L. Krystev, A. Popova, D. Mihaylova, A. Krastanov
<b>S1P3</b>	Phytochemical profile and antioxidant activity of water pepper ( <i>Polygonum hydropiper</i> L.)	D. Mihaylova, R. Vrancheva, I. Ivanov, A. Popova
<b>S1P4</b>	Culinary herbs (Tarragon, Wild garlic and Samardala) – sources of antioxidants and prebiotics	N. Petkova, I. Ivanov, M. Topuzova, M. Todorova, P. Denev
<b>S1P5</b>	Lipid composition of watermelon ( <i>Citrullus lanatus</i> ) seed oil	M. Angelova – Romova, Zh. Simeonova, Zh. Petkova, G. Antova, O. Teneva
<b>S1P6</b>	Fatty acids composition of purslane ( <i>Portulaca oleracea</i> L.) extracted by supercritical CO <sub>2</sub>	S. Taneva, S. Momchilova, Y. Nikolova, A. Konakchiev, D. Antonova, V. Dimitrov
<b>S1P7</b>	Composition of residual lipids isolated from <i>Salinomycin</i>	B. Chuchkov, G. Antova
<b>S1P8</b>	Residual levels and tissue distribution of polychlorinated biphenyls (PCBs) in fish from the Danube River, Bulgaria	S. Georgieva, M. Stancheva, Z. Peteva
<b>S1P9</b>	Total phenolic content and antioxidant activity of <i>R. Damascena</i> dry extract	K. Gechovska, V. Deneva, D. Antonova, St. Bojanov and L. Antonov
<b>S1P10</b>	Fatty acid, phospholipids, health risk index and daily intake of metals in edible wild mushroom ( <i>Tricholoma equestre</i> ) from the Batak mountain, Bulgaria	L. Dospatliev, M. Ivanova, P. Papazov
<b>S1P11</b>	PCA analysis and health risk index of trace elements in nine species wild edible mushrooms from Batak mountain, Bulgaria	M. Ivanova, L. Dospatliev, D. Grigorova
<b>S1P12</b>	Bioaccumulation factors and chemometric analysis of nine wild edible mushrooms from Batak mountain, Bulgaria	M. Ivanova, L. Dospatliev
<b>S1P13</b>	Evaluation of paralytic shellfish poisoning toxin profile of mussels from Bulgarian north Black Sea coast by HPLC-FI with postcolumn derivatisation	Zl. Peteva, B. Krock, M. Stancheva, St. Georgieva, A. Gerasimova
<b>S1P14</b>	Optical characteristics of French wines	St. Minkova, N. Avakumova, V. Vladev, Kr. Nikolova, V. Hadjimitova, T. Eftimov
<b>S1P15</b>	Physico chemical characteristic of Chia seeds from Peru	G. Uzunova, M. Perifanova-Nemska, J. Petkova, St. Minkova, Kr. Nikolova
<b>S1P16</b>	Correlation between antioxidant properties and optical characteristics of Algal A aqueous extracts at different conditions	P. Radusheva, Iv. Minchev, N. Avakumova, Il. Milkova – Tomova, Kr. Nikolova, V. Hadjimitova, I. Bodurov, T. Yovcheva



**POSTER SESSION 1 - Food chemistry, New methods and materials, Analytical chemistry**

<b>Code</b>	<b>Title</b>	<b>Authors</b>
<b>S1P17</b>	<b>Estimation of THQ and potential health risk for metals by consumption of some Black Sea marine fishes and mussels in Bulgaria</b>	<i>K. Peycheva, V. Panayotova, A. Merdzhanova, M. Stancheva</i>
<b>S1P18</b>	<b>Seasonal variation in fat soluble vitamins, cholesterol and fatty acid profile of lipid classes of <i>Rapana venosa</i></b>	<i>A. Merdzhanova, D. Dobрева, V. Panayotova, R. Stancheva</i>
<b>S1P19</b>	<b>Effect of thermal stress on the biologically active lipids of <i>Mutilus galloprovincialis</i></b>	<i>D. Dobрева, A. Merdzhanova, V. Panayotova, R. Stancheva</i>
<b>S1P20</b>	<b>Quality-related changes of biologically active lipids in Bluefish muscle tissue after cooking</b>	<i>D. Dobрева, A. Merdzhanova, V. Panayotova</i>
<b>S1P21</b>	<b>Coefficient of diffusion of tannins in extracts from physalis leaves (<i>Physalis peruviana</i> L.)</b>	<i>S. Tasheva, T. Ivanova, V. Popova, I. Iliev, S. Stankov, H. Fidan, N. Mazova, A. Stoyanova</i>
<b>S1P22</b>	<b>Chemical composition of the dill essential oils (<i>Anethum graveolens</i> L.) from Bulgaria</b>	<i>M. Dimow, K. Dobрева, A. Stoyanova</i>
<b>S1P23</b>	<b>Effects of vanillin on behavioral impairments in Parkinson's disease model in rats</b>	<i>A. Popatanasov, T. Pajpanova, M. Lazarova, L. Tancheva</i>
<b>S1P24</b>	<b>Characterization and application of spent brewer's yeast for silver nanoparticles synthesis</b>	<i>N. Yancheva, D. Karashanova, B. Georgieva, I. Vasileva, A. Stoyanova, P. Denev, R. Dinkova, M. Ognyanov, A. Slavov</i>
<b>S1P25</b>	<b>Carbon fiber enzyme electrodes fabricated by invertase and polyphenol oxidase enzymes</b>	<i>G. Karabacak, A. Boyukbayram</i>
<b>S1P26</b>	<b>Effective activation of PMS by Co, Bi and Mg doped g-C<sub>3</sub>N<sub>4</sub> for organic dyes oxidative degradation</b>	<i>V. Ivanova-Kolcheva, M. Stoyanova</i>
<b>S1P27</b>	<b>Biosynthesized silver nanoparticles: electrochemical application</b>	<i>Y. Lazarova, T. Dodevska, A. Slavov, D. Karashanova, B. Georgieva</i>
<b>S1P28</b>	<b>Synthesis and characterization of novel polymeric architectures for biomedical applications</b>	<i>S. Ismail and R. Bryaskova</i>
<b>S1P29</b>	<b>Iridium oxide modified graphite materials as an electrochemical sensing platform</b>	<i>T. Dodevska, I. Shterev, Y. Lazarova</i>
<b>S1P30</b>	<b>Copper supported on nanostructured mesoporous titanium-tin oxide composites as catalysts for sustainable environmental protection: Effect of support composition</b>	<i>G. Issa, T. Tsoncheva, M. Dimitrov</i>
<b>S1P31</b>	<b>Effect of the tautomeric functionality and aromaticity of the stator in rotary switches</b>	<i>S. Hristova, A. Kurutos, F. Kamounah, A. Crochet, P. Hansen, K. Fromm, L. Antonov</i>
<b>S1P32</b>	<b>Isolation and purification of lipase produced from <i>Rhizopus arrhizus</i> in solid state fermentation by fractional precipitation</b>	<i>A. Hambarliiska, V. Dobрева, H. Strinska, B. Zhekova, G. Dobrev</i>
<b>S1P33</b>	<b>Investigation of luminescent properties of thin zinc oxide films doped by cerium</b>	<i>A. Shulga, G. Chudinova, T. Sheshko, E. Boruleva, I. Nagovitsyn, A. Cherednichenko</i>
<b>S1P34</b>	<b>Investigation of kaolin based inorganic polymer foams</b>	<i>A. Boros, T. Korim, I. Balczár</i>

Friday 12 October 2018

16:50 – 18:50

**POSTER SESSION 1 - Food chemistry, New methods and materials, Analytical chemistry**

<b>Code</b>	<b>Title</b>	<b>Authors</b>
<b>S1P35</b>	Innovative treatment of livestock manure by air-cathode microbial fuel cell	G. Peeva, B. Midyurova, V. Nenov
<b>S1P36</b>	Ultrasound-assisted green synthesis of silver nanoparticles using trisaccharide raffinose: the process and optimization	P. Vasileva
<b>S1P37</b>	Zinc assisted preparation of reduced graphene oxide	D. Kichukova, D. Kovacheva, A. Staneva
<b>S1P38</b>	Physicochemical properties of nanosized MnFe <sub>2</sub> O <sub>4</sub> obtained by solution combustion synthesis.	Ts. Lazarova, D. Kovacheva
<b>S1P39</b>	Obtaining and corrosion properties of zinc systems, zinc alloys / Cr <sup>3+</sup> containing, environmentally friendly conversion films	M. Peshova, V. Bachvarov, St. Vitkova, N. Boshkov
<b>S1P40</b>	Determination of Brodifacoum, Bromadiolone and Difenacoum in commercial rodenticides by using High-Performance Liquid Chromatography with UV detection	A. Ivanova, S. Andreev, E. Belyaev
<b>S1P41</b>	Characterization of <i>Melissa officinalis</i> L. with respect to its adsorption properties towards Cu <sup>2+</sup> ions by the combined use of analytical techniques	L. Ivanova, A. Detcheva, P. Vassileva
<b>S1P42</b>	Rose oils and aromatic products studied by GC/MS/FID	Y. Medarska, A. Slavov, D. Nedeltcheva, L. Antonov
<b>S1P43</b>	Optimisation of calibration strategies for ICP-MS analysis of human serum	D. Davcheva, G. Kirova, T. Tsvetkova, V. Kmetov
<b>S1P44</b>	<i>Hibiscus sabdariffa</i> characterizat on with respect to the organic acids and essential elements content	St. Georgieva, Ts. Voyslavov
<b>S1P45</b>	A static headspace GC-FID method for trace analysis of volatile organic compounds (VOCs) in waters	Z. Mustafa, R. Milina
<b>S1P46</b>	Bulgarian coniferous and Oak honeydew honey – characteristics	E. Mladenova, R. Balkanska, R. Shumkova, V. Manolova
<b>S1P47</b>	Chemical profiling of Bulgarian rose absolute ( <i>Rosa damascena</i> Mill.) using GC/MS and trimethylsilyl derivatives	D. Nedeltcheva, L. Antonov
<b>S1P48</b>	Confirmative identification of drugs in biological fluids: detection limits of actual GC-MS methods in Laboratory of Analytical toxicology, Naval Hospital – Varna	G. Bonchev, I. Stefanova
<b>S1P49</b>	Liquid-liquid extraction with phase separation in determination of 8-isoPGF <sub>2</sub> α in blood plasma	D. Tomov, V. Divarova, L. Kasabova, D. Svinarov
<b>S1P50</b>	Polymeric ionic liquids for metal anion sorption	I. Dakova, O. Veleva, M. Karadjov, I. Karadjova
<b>S1P51</b>	GC-MS and NMR analysis of synthetic cannabinoids inflicted on "herbal mixtures"	I. Ivanov, S. Stoykova, N. Burdzhiev, I. Pantcheva, V. Atanasov



Friday 12 October 2018

16:50 – 18:50

**POSTER SESSION 1 - Food chemistry, New methods and materials, Analytical chemistry**

<b>Code</b>	<b>Title</b>	<b>Authors</b>
<b>S1P52</b>	Guest-tunable anticancer activity of $M_2L_4$ (M = Pd(II) or Pt(II)) supramolecular capsule hosts	S. Stoykova, J. Zaharieva, D. Momekova, R. Mihaylova, G. Momekov, P. Shestakova, A. Ahmedova
<b>S1P53</b>	Complexation of 2-substituted 1H-imidazol-4-yl and 2-pyridyl containing Schiff bases with Cu(II), Pd(II) and Pt(II) ions	A. Nedzhib, N. Burdzhiev, A. Ahmedova
<b>S1P54</b>	Smart polymer gels designed for iron speciation in surface waters	M. Mitreva, I. Dakova, I. Karadjova
<b>S1P55</b>	TXRF for Hg determination in fish	O. Veleva, P. Vassileva, K. Bacheva, T. Stafilov, M. Karadjov
<b>S1P56</b>	Determination of platinum, palladium and rhodium in spent automotive catalytic converters	O. Veleva, I. Karadjova, M. Karadjov
<b>S1P57</b>	Calculations of true detection limits of traces in barite mine wastes and approach to quantification with ICP-OES	D. Ilieva, A. Surleva, M. Murariu, G. Drochioiu
<b>S1P58</b>	Determination of Arsenic in a soil matrix with ICP MS HR	V. Ivanova, C. Oster, P. Fiscaro, A. Surleva
<b>S1P59</b>	Analysis of selected heavy metals in fresh wood as indicator of air pollution in Kosovo	K. Jusufi, E. Dano, V. Çitaku and B. Korça
<b>S1P60</b>	Heavy metal content in wood ashes from Selected regions in Kosovo	K. Jusufi, E. Dano, B. Korça, X. Kuka
<b>S1P61</b>	MP-AES method for determination of silver in cosmetic products.	E. Varbanova, V. Stefanova
<b>S1P62</b>	One-factor-at-a-time vs multivariate optimization of MP-AES and ICP-OES analysis of target elements in treated biowaste	V. Zapryanova, E. Piskova, K. Simitchiev
<b>S1P63</b>	Nanoparticles assisted hydride generation	M. Kiryakova, D. Stoitsov, E. Varbanova, K. Simitchiev, V. Kmetov
<b>S1P64</b>	General Characteristics of AgNPs analysis by spICP-MS	L. Kainarova, D. Georgieva, V. Stefanova
<b>S1P65</b>	Magnetic assisted solid phase extraction of trace elements by APDC impregnated silica coated manganese-ferrite nanoparticles	A. Ivancheva, D. Georgieva, Ts. Lazarova, V. Stefanova

Saturday 13 October 2018

15:00 – 17:00

**POSTER SESSION 2 - Inorganic chemistry, Organic chemistry, Theoretical chemistry, Physical chemistry and Chemistry and Education**

<b>Code</b>	<b>Title</b>	<b>Authors</b>
<b>S2P1</b>	Synthesis and properties of mixed sodium manganese – sodium copper sulfate dihydrates with a Kröhnkite-type structure	<i>D. Marinova, Tsv. Bancheva, I. Mihailova, M. Georgiev, D. Stoilova</i>
<b>S2P2</b>	Complex formation and liquid-liquid extraction of the ion-pair of molybdenum(VI) with 3,5-dinitrocatechol and 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl-2h-tetrazolium bromide	<i>K. Stojnova, V. Divarova, P. Racheva, K. Bozhinova, V. Lekova</i>
<b>S2P3</b>	Kinetic analysis of ultrasound leaching of nickel laterite ore	<i>G. Načevski, P. Paunović, A. Petrovski, A. Dimitrov</i>
<b>S2P4</b>	Novel complexes of N-substituted-4,5-dimethoxy-phenylethyl-2-arylketoamides with metal ions	<i>P. Marinova, S. Tsoneva, S. Nikolova, I. Ivanov</i>
<b>S2P5</b>	New palladium(II), copper(II), cobalt(II) and Gold(III) complexes of 2-thiouracil	<i>P. Marinova, M. Frenkeva, S. Tsoneva, P. Dzhambazova, P. Penchev</i>
<b>S2P6</b>	Low toxic organic solvent-based liquid-liquid extraction-chromogenic system for nickel(II).	<i>G. Toncheva, N. Milcheva, K. Gavazov</i>
<b>S2P7</b>	Palladium complexes containing dithiocycloheptanespiro-5'-hydantoin ligand. Synthesis, characterization, theoretical analysis and cytotoxic activity	<i>E. Cherneva, R. Buyukliev, R. Michailova, A. Bakalova</i>
<b>S2P8</b>	Experimental and theoretical studies of new Pd complexes with 3'-methyl tetrahydro-4H-thiopyranspiro-5'-hydantoin	<i>E. Cherneva, R. Buyukliev, A. Bakalova</i>
<b>S2P9</b>	Synthesis of 10-membered fluoroisopropyl-substituted enediyne fused to a benzothiophene	<i>A. Lyapunova, N. Danilkina, I. Balova</i>
<b>S2P10</b>	Spectral investigations on the formation of lanthanide complexes with styryl dyes	<i>J. Zaharieva, M. Kandinska-Vasileva, A. Vasilev, M. Tsvetkov, M. Milanova</i>
<b>S2P11</b>	Spectral characterization of rare earth complexes with 4-hydroxybiscoumarin derivatives	<i>V. Kircheva, J. Zaharieva, I. Manolov, M. Milanova</i>
<b>S2P12</b>	Thermal decomposition of nano-sized zinc hydroxy nitrate	<i>K. Ivanov, A. Peltekov, N. Nguen, E. Kolentsova</i>
<b>S2P13</b>	Elemental composition and some optical characteristics of Bulgarian beers	<i>S. Minkova, G. Gencheva, K. Nikolova, C. Tzvetkova</i>
<b>S2P14</b>	New method for the preparation and biological activity of CuO nanoparticles from a mixed PVA and 2-aminobenzothiazole complex	<i>M. Al-Fakeh, F. Alminderej</i>

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<b>S2P15</b>	Effects of Pr(III) complex with 5-aminoorotic acid on the xanthin oxidase activity and free radicals accumulation in rat blood serum	<i>C. R. G. Costanzo, V. Atanasova, I. Kostova</i>
<b>S2P16</b>	Tripodal synthetic receptors based on cyclotriphosphazene Scaffolds	<i>S. Yeşilot, S. Tümay</i>
<b>S2P17</b>	Chiral configurations of morpholine substituted spirane-bridged cyclotriphosphazenes	<i>A. Uslu, O. Balkaner</i>
<b>S2P18</b>	Reaction of various bis-geminal and mono-spiro cyclotriphosphazene derivatives with dibenzylamine and investigation of product diversity	<i>S. Beşli, C. Köseoğlu, C. Mutlu Balcı</i>
<b>S2P19</b>	Determination of carbonyl compounds in tobacco smoke and factors influence of their composition	<i>M. Docheva, D. Kirkova, Y. Kochev, A. Stoilova</i>
<b>S2P20</b>	Multicomponent reactions for the synthesis of camalexin derivatives	<i>Y. Stremski, D. Kirkova, S. Statkova-Abeghe, P. Angelov, I. Ivanov</i>
<b>S2P21</b>	New isoquinoline and ibuprofen derivatives obtained by heterogeneously catalyzed reaction of $\alpha$ -amidoalkylation	<i>S. Manolov, I. Ivanov</i>
<b>S2P22</b>	Fragmentation of 6-methoxy-flavones in negative mode	<i>D. Bojilov, S. Dagnon, I. Ivanov</i>
<b>S2P23</b>	Study on the fragmentation of polymethoxylated flavones in the ESI-MS/MS experiments	<i>D. Bojilov, S. Dagnon, I. Ivanov</i>
<b>S2P24</b>	A study of the distinguishing features found in the mass spectra of 2- and 4-hydroxy substituted styrylquinolinium dyes	<i>R. Bakalska, M. Todorova, Ts. Kolev</i>
<b>S2P25</b>	Application of natural amino acids for the synthesis of 1,3-disubstituted 3,4-dihydroisoquinolines and investigation of 1- (2-chlorophenyl) -6,7-dimethoxy-3-methyl-3,4-dihydroisoquinoline influence on the electromechanical process in smooth muscles	<i>S. Nikolova, M. Penkova, V. Gledacheva, I. Stefanova, R. Ardasheva, A. Krastev</i>
<b>S2P26</b>	Inulin, phenolic content and antioxidant potential of burdock ( <i>Arctium lappa</i> L.) roots extracts obtained by green extraction methods	<i>N. Petkova, I. Ivanov, D. Mihaylova, A. Lante</i>
<b>S2P27</b>	Synthesis of immobilized ferrocene derivatives	<i>S. Keszei, C. Fehér, R. Skoda-Földes, G. Lendvay,</i>
<b>S2P28</b>	Sonochemical synthesis of 10-undecylenic aliphatic esters with antimicrobial activity	<i>D. Vassilev, N. Petkova, Y. Tumbarski, M. Koleva, P. Denev</i>

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<b>S2P29</b>	Simple and efficient ultrasound-assisted method for the synthesis of tertiary aliphatic esters	<i>D. Vassilev, N. Petkova, M. Koleva, P. Denev</i>
<b>S2P30</b>	Synthesis and structure investigation of 1,5-dibenzimidazolyl formazans and their metal complexes	<i>M. Argirova, K. Anichina, D. Yancheva, S. Stoyanov, A. Mavrova</i>
<b>S2P31</b>	DFT and experimental study of the IR spectra and structure on Acetaminosalol and its anions	<i>S. Stoyanov, E. Velcheva, B. Stamboliyska</i>
<b>S2P32</b>	Exploring the electrochemical reduction of nitrofurantoin through model compounds: a combined IR and computational study	<i>S. Stoyanov, D. Yancheva, A. Popova, K. Anichina</i>
<b>S2P33</b>	Study of the secondary structure of two folic acid-modified hemocyanins in comparison to the native proteins	<i>D. Yancheva, M. Guncheva, Y. Raynova, K. Idakieva</i>
<b>S2P34</b>	Synthesis, IR and DFT study on the anion products of N-(4hydroxy-3-methoxybenzyl)acetamide, a capsaicin derivative	<i>D. Yancheva, S. Stoyanov, K. Anichina, S. Stamboliyska, E. Velcheva</i>
<b>S2P35</b>	Synthesis of N,N'-disubstituted derivatives of 5-nitrobenzimidazole-2-thione and IR study on the electrochemical generation of their nitro radical anions	<i>N. Anastassova, D. Yancheva, S. Stoyanov, A. Mavrova</i>
<b>S2P36</b>	Synthesis of new N,N'-disubstituted benzimidazole-2-thiones containing various arylhydrazone moieties as modulators of oxidative stress	<i>N. Anastassova, D. Yancheva, N. Hristova-Avakumova, V. Hadjimitova</i>
<b>S2P37</b>	Synthesis, antinematodal activity and hepatotoxicity of some piperazine-containing benzimidazole derivatives	<i>K. Anichina, A. Mavrova, D. Vutchev, M. Kondeva-Burdina, D. Yancheva, S. Stoyanov</i>
<b>S2P38</b>	Stereoselective addition of hydride to [5] helicenium carbocations	<i>M. Marinova, C. Besnard, K. Kostova, V. Dimitrov, J. Lacour</i>
<b>S2P39</b>	New ferrocene containing camphor sulfonamides – synthesis and anti-tumor activity	<i>M. Kamenova-Nacheva, M. Ravutsov, V. Dimitrov, G. Dobrikov</i>
<b>S2P40</b>	Enhanced structural stability of modified <i>Helix aspersa maxima</i> hemocyanin	<i>Y. Raynova, S. Todinova, D. Yancheva, M. Guncheva, K. Idakieva</i>
<b>S2P41</b>	Design of new tautomeric molecular sensors	<i>V. Deneva, S. Hristova, A. Kurutosand L. Antonov</i>
<b>S2P42</b>	Synthesis of chiral aminobenzyl naphthols for catalytic applications in asymmetric synthesis	<i>K. Dikova, K. Kostova, A. Chimov, A. Linden, V. Dimitrov</i>

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<b>S2P43</b>	<b>Steroidal aminobenzyl-naphthols as privileged ligands for asymmetric reaction</b>	<i>I. Zagranjarska, K. Kostova, R. Nikolova, B. Shivachev, V. Dimitrov</i>
<b>S2P44</b>	<b>HPLC analysis of flavonoids from <i>Scutellaria altissima</i></b>	<i>Y. Georgieva, M. Katsarova, K. Gercheva, P. Bozov, S. Dimitrova</i>
<b>S2P45</b>	<b>Synthesis of novel bidentate and tridentate ligands for enantioselective reduction of ketones with boranes</b>	<i>Y. Nikolova, P. Shestakova, G. Dobrikov, V. Dimitrov</i>
<b>S2P46</b>	<b>Amino acids in edible wild mushroom from the Batak mountain, Bulgaria</b>	<i>L. Dospatljev, V. Lozanov, M. Ivanova, P. Papazov, P. Sugareva</i>
<b>S2P47</b>	<b>Reactions of arenesulfonic acids with halonitroethenes</b>	<i>S. Ivanova</i>
<b>S2P48</b>	<b>Synthesis of novel halogen-containing analogues of TO and YO – fluorogenic probes for dsDNA imaging</b>	<i>M. Kandinska, A. Vasilev, V. Videva, S. Yordanova, S. Stoyanov, S. Angelova</i>
<b>S2P49</b>	<b>Synthesis and transformation of substituted imidazoles and pyridines, suitable building blocks for supramolecular assemblies</b>	<i>N. Burdzhiev, B. Borisov, K. Kostadinova, A. Ahmedova</i>
<b>S2P50</b>	<b>Cytotoxic and anti-viral activities of the plant <i>Graptopetalum paraguayense</i> E. Walther</b>	<i>N. Markova, P. Genova-Kalu, I. Dincheva, I. Badjakov, V. Enchev</i>
<b>S2P51</b>	<b>Synthesis and biological evaluation of 5-methoxy substituted benzoylhydrazones</b>	<i>A. Vladimirova, B. Nikolova-Mladenova</i>
<b>S2P52</b>	<b>Effects of new neurotensin analogue on ultrasound vocalizations and novelty stimulus reactions in rodent model with anxiety</b>	<i>A. Popatanasov, T. Pajpanova, M. Lazarova, L. Tancheva</i>
<b>S2P53</b>	<b>Assessment of C<sub>10</sub> – C<sub>13</sub> chloralkanes accumulation in sediments from Maritsa and Arda River Basins (Bulgaria)</b>	<i>V. Genina, G. Gecheva, M. Marinov</i>
<b>S2P54</b>	<b>Application of the open-source tool Ambit-Tautomer in Exploiting tautomerism for signal conveyance in molecular electronics</b>	<i>V. Paskaleva, N. Kochev</i>
<b>S2P55</b>	<b>Ambit-GCM: an open-source software tool for group contribution modelling</b>	<i>O. Pukalov, V. Paskaleva, G. Dimitrov, N. Jeliakova, N. Kochev</i>
<b>S2P56</b>	<b>Ambit-GCM: Application in QSAR/QSPR modelling</b>	<i>V. Paskaleva, O. Pukalov, J. Statieva, D. Slavova, G. Dimitrov, N. Kochev</i>
<b>S2P57</b>	<b>Effect of myoglobin on the fluorescent properties of gadolinium-doped zinc oxide</b>	<i>I. Hayrullina, T. Sheshko, I. Nagovitsyn, G. Chudinova, A. Cherednichenko, E. Sarycheva</i>
<b>S2P58</b>	<b>Electrooxidation and bioelectrooxidation of L- and D-ascorbic acids</b>	<i>K. Kamarska, N. Dimcheva</i>
<b>S2P59</b>	<b>Physicochemical behavior of hydrophobically modified poly(acrylates) at the interface and in aqueous media</b>	<i>H. Petkova, D. Arabadzhieva, A. Iovescu, Khr. Khristov, G. Stinga, Ch.-F. Mihailescu, R. Todorov, L. Aricov, D. F. Anghel, E. Mileva</i>

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<b>S2P60</b>	<b>Effects of substitution Fe by Mn in GdFeO<sub>3</sub> perovskite catalyst for CO hydrogenation</b>	<i>A. Sharaeva, T. Sheshko, T. Kryuchkova, L. Yafarova, I. Zvereva</i>
<b>S2P61</b>	<b>Experimental and modeling study of co-deposition of Ni-Cu alloys at high current densities</b>	<i>D. Goranova, R. Rashkov, H. Popova, V. Tonchev</i>
<b>S2P62</b>	<b>Possibilities of the inquiry-based approach for formation of the key competences in chemistry education</b>	<i>A. Angelacheva</i>
<b>S2P63</b>	<b>Views of Bulgarian teachers in chemistry and physics of the nature of science and scientific inquiry</b>	<i>Zl. Garova</i>
<b>S2P64</b>	<b>Spectroscopic study of nanocomposites based on PANI and carbon nanostructures for pH sensors</b>	<i>A. Grozdanov, M. Avella, P. Paunović, M. Errico, R. Avolio, A. Petrovski, G. Gentile, F. De Falco, A. Dimitrov</i>