



Serbian Chemical Society  
Serbian Young Chemists' Club



11<sup>th</sup> Conference  
of the Young Chemists of Serbia  
***Program Highlights***

**Kragujevac**

25<sup>th</sup> OCTOBER 2025



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### **Scientific Committee**

Dr. Života Selaković – University of Belgrade, Faculty of Chemistry

Dr. Dušan Dimić – University of Belgrade, Faculty of Physical Chemistry

Dr. Izudin Redžepović – State University of Novi Pazar

Dr. Marina Čendić – University of Kragujevac, Faculty of Science

Dr. Jelena Simić – University of Belgrade, Institute of Molecular Genetics and Genetic Engineering

Dr. Snežana Papović – University of Novi Sad, Faculty of Sciences

Dr. Jelica Milošević – University of Belgrade, Faculty of Chemistry

Dr. Nevena Mihailović – University of Kragujevac, Faculty of Science

### **Organizing Committee**

Dr. Jelena Tadić – University of Novi Sad, Faculty of Sciences

Dr. Mila Lazović – Innovative Centre of the Faculty of Chemistry Ltd., Belgrade, Serbia

Mihajlo Jakanovski – Innovative Centre of the Faculty of Chemistry Ltd., Belgrade, Serbia

Dr. Tina Andrejević – University of Kragujevac, Faculty of Science

Dr. Slađana Đorđević – University of Kragujevac, Faculty of Science

Filip Stašević – University of Kragujevac, Faculty of Science

### **European Young Chemists' Network**

Mihajlo Jakanovski

## **Sponsorship**

The Organizing Committee is grateful for the donations from:

Analysis d.o.o.



SHIMADZU d.o.o.



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European Young Chemists' Network



## **Acknowledgments**

We acknowledge the University of Kragujevac – Faculty of Science for the use of the space of the faculty during the 11<sup>th</sup> Conference of Young Chemists' of Serbia.

We thank the Board of the Serbian Chemical Society for the support during the organization of the Conference.

We thank the Analysis d.o.o. for continued cooperation and funding the promoting material.

We acknowledge SHIMADZU d.o.o. for financial support.

We acknowledge Reaxys<sup>®</sup> for financial support.

We gratefully acknowledge the financial support for the best oral and poster presentations by the European Young Chemists' Network (EYCN).

## Scientific Program

| Time schedule | Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30 – 9:30   | <i>Registration of the participants</i><br><br>Mounting posters for the Poster Session 1<br><b>(ODD POSTER NUMBERS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9:30 – 9:50   | <i>Conference opening</i><br>Serbian Chemical Society<br>Scientific Committee<br>Serbian Young Chemists' Club presentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 09:50 – 10:00 | <i>Shimadzu presentation</i><br><b>Stefan Jovanović and Nikola Nenadić</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 10:00 – 10:40 | <i>Plenary Lecture</i><br><b>PL OP 01 – Tina Andrejević</b><br>University of Kragujevac – Faculty of Science, Kragujevac, Serbia<br><i>“Metal complexes as potential drugs for combating antimicrobial resistance”</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10:40 – 11:50 | <i>Oral presentations, Session 1</i><br><b>CB OP 01 – Andrija Gigić</b><br>University of Kragujevac – Faculty of Science, Kragujevac, Serbia<br><i>“The effect of plant extracts, L. salicaria and S. pratensis on the interaction between copper(II) complexes and biomolecules”</i><br><b>DCS OP 01 – Dunja Pupavac</b><br>Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia<br><i>“Synthesis and photochemical characterization of bridgehead nitrogen heterocyclic azobenzene photoswitches”</i><br><b>EA OP 01 – Dragana Žmukić</b><br>University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia<br><i>“Extraction of polyhydroxyalkanoates from sludge using non-invasive surfactants”</i> |

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| <p><b>EA OP 02 – Marija Kuč</b><br/> University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia<br/> <i>“Optimization and validation of the in-house procedure for the determination of bisphenol A in water: the importance of sample preparation”</i></p> <p><b>PCC OP 01 – Katarina Čeranić</b><br/> Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia<br/> <i>“How does coordination and the formation of the cation-<math>\pi</math> interaction affect the aromaticity of the benzene ring?”</i></p> <p><b>PCC OP 02 – Zaharije Bošković</b><br/> University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia<br/> <i>“Alkaline electrolyzer with asymmetric electrolytes and nickel electrodes modified by spontaneous galvanic replacement”</i></p> <p><b>PCC OP 03 – Andrej Dedić</b><br/> University of Belgrade – Faculty of Chemistry, Belgrade, Serbia<br/> <i>“Strong anion-<math>\pi</math> interactions between oxyanions and organic aromatic compounds – a DFT study”</i></p> |                                                                                                                          |
| 11:50 – 12:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Coffee break                                                                                                             |
| <p><i>Invited Lecture</i></p> <p><b>IL OP 01 – Miloš Pešić</b><br/> University of Belgrade – Faculty of Chemistry, Belgrade, Serbia<br/> <i>“Molecularly imprinted polymers as drug delivery systems”</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                          |
| 12:10 – 12:35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                          |
| 12:35 – 12:55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><i>Popular Scientific Lecture</i></p> <p><b>Luka Mihajlović</b> (Analysis d.o.o.)</p>                                 |
| 12:55 – 13:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><i>European Young Chemists’ Network (EYCN)</i></p> <p><b>Mihajlo Jakanovski</b></p>                                   |
| 13:10 – 13:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>*GROUP PHOTO*</b>                                                                                                     |
| 13:15 – 14:05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Poster session 1 ( <b>ODD POSTER NUMBERS</b> )                                                                           |
| <p><i>Lunch</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                          |
| 14:05 – 15:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Removing posters from Poster Session 1</p> <p>Mounting posters for Poster Session 2 (<b>EVEN POSTER NUMBERS</b> )</p> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00 – 16:00 | <i>Teaching Workshop</i><br><b>TW OP 01 – Jasna Adamov</b><br>University of Novi Sad – Faculty of Natural Sciences, Novi Sad, Serbia<br><i>“Augmented reality and virtual reality in visualization of chemistry content”</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 16:00 – 16:25 | <i>Invited Lecture</i><br><b>IL OP 02 – Slađana Stanisavljević</b><br>University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia<br><i>“Synthesis of (–)-Goniofufurone Analogues: New Directions in Biological Activity Studies”</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16:25 – 17:25 | <i>Oral presentations, Session 2</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|               | <b>CB OP 02 – Ivona Ivanović</b><br>University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia<br><i>“Cytotoxic and redox effects of curare on microglial cells”</i><br><b>EA OP 03 – Lea Plavšić</b><br>University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia<br><i>“Influence of current intensity on the efficiency of electrochemical removal of vinyl chloride”</i><br><b>PCC OP 04 – Tijana Mutić</b><br>University of Belgrade – Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia<br><i>“Tailoring carbon paste electrodes with Ho<sub>2</sub>Mo<sub>4</sub>O<sub>15</sub> nanoparticles for sensitive and selective Paracetamol sensing”</i><br><b>PCC OP 05 – Milica Bogdanović</b><br>University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia<br><i>“The crystal structure of new platinum(II) complex with N-benzylphenothiazine”</i><br><b>PFC OP 01 – Lazar Popović</b><br>Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia<br><i>“Application of spherical coordinates for coding ternary solvent mixture in the optimisation of Ganoderma resinaceum extraction”</i> |

|                                                                                                                                                                                                                                                                                                                                |                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCFM OP 01 – Tijana Vlašković</b><br>University of Priština in Kosovska Mitrovica – Faculty of Sciences and Mathematics, Kosovska Mitrovica, Serbia<br><i>“Investigation of the obtaining method of <math>\text{Ca}_{0.9}\text{Er}_{0.1}\text{MnO}_3</math> nanopowders applying the hydrazine nitrate procedure (HNP)”</i> |                                                                                                                                       |
| 17:25 – 18:15                                                                                                                                                                                                                                                                                                                  | Poster session 2 ( <b>EVEN POSTER NUMBERS</b> ) and Coffee break                                                                      |
| Closing ceremony                                                                                                                                                                                                                                                                                                               |                                                                                                                                       |
| 18:15 – 18:30                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>● <b>Best Oral Presentation Award</b></li><li>● <b>Best Poster Presentation Award</b></li></ul> |
| 18:30                                                                                                                                                                                                                                                                                                                          | End of the Conference                                                                                                                 |

All scientific contributions are divided into the following categories:

Chemistry and Society (CS)

Chemistry meets Biology (CB)

Developments in Chemical Synthesis (DCS)

Environmental Awareness (EA)

Physical and Computational Chemistry (PCC)

Phytochemistry and Food Chemistry (PFC)

Solution Chemistry and Chemical Equilibrium (SCCE)

Supramolecular Chemistry and Functional Materials (SCFM)

**POSTER NUMBER** is the last part of the contribution code, e.g. XY PP 15.

**VENUE:**

- Lectures and oral presentations will take place at the **large amphitheater (A-II-1)** on the second floor, Faculty of Science, University of Kragujevac (address: Radoja Domanovića 12, Kragujevac).
- The Poster sessions will take place in the Faculty ceremonial hall **on the ground floor**.
- The lunch will take place in the Institute of Physics building.

## **Types of presentations**

At the 11<sup>th</sup> Conference of Young Chemists of Serbia, there will be four types of presentations: plenary lecture, invited lectures, oral presentations and poster presentations.

### **Plenary Lecture**

- Duration time: 35 minutes for presentation
- Questions and answers (Q&A): 5 minutes

### **Invited Lectures**

- Duration time: 20 minutes
- Q&A: 5 minutes

### **Oral presentations**

- Duration time: 10 minutes including 8 minutes for presentation and 2 minutes for discussion
- Every participant has the contribution code (e.g. **CB OP 01**) which is written below

### **Poster presentations**

- Poster size must **not exceed 70 cm (width) × 100 cm (height), format B1**
- Poster should be in portrait orientation
- Every participant has the contribution code (e.g. **CB PP 01**) which is written below

### **Instruction for PowerPoint Presentation**

- Slide Size – 16:9 format
- Save your PowerPoint presentation with the extension “**.pptx**”
- Name of presentation should be as the name of Abstract (e.g. **CB\_Petrović\_Analysis**)

## **Plenary Lecture**

**PL OP 01** – Tina Andrejević

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Metal complexes as potential drugs for combating antimicrobial resistance”

## **Invited Lectures**

**IL OP 01** – Miloš Pešić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Molecularly imprinted polymers as drug delivery systems”

**IL OP 02** – Slađana Stanisavljević

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Synthesis of (–)-Goniofufurone Analogues: New Directions in Biological Activity Studies”

## **Teaching Workshop**

**TW OP 01** – Jasna Adamov

*University of Novi Sad – Faculty of Natural Sciences, Novi Sad, Serbia*

“Augmented reality and virtual reality in visualization of chemistry content”

## Oral presentations

### Chemistry meets Biology (CB)

#### CB OP 01 – Andrija Gigić

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“The effect of plant extracts, *L. salicaria* and *S. pratensis* on the interaction between copper(II) complexes and biomolecules”

#### CB OP 02 – Ivona Ivanović

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Cytotoxic and redox effects of curare on microglial cells”

### Developments in Chemical Synthesis (DCS)

#### DCS OP 01 – Dunja Pupavac

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Synthesis and photochemical characterization of bridgehead nitrogen heterocyclic azobenzene photoswitches”

### Environmental Awareness (EA)

#### EA OP 01 – Dragana Žmukić

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Extraction of polyhydroxyalkanoates from sludge using non-invasive surfactants”

#### EA OP 02 – Marija Kuč

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Optimization and validation of the in-house procedure for the determination of bisphenol A in water: the importance of sample preparation”

#### EA OP 03 – Lea Plavšin

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Influence of current intensity on the efficiency of electrochemical removal of vinyl chloride”

**Physical and Computational Chemistry (PCC)**

**PCC OP 01** – Katarina Čeranić

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“How does coordination and the formation of the cation- $\pi$  interaction affect the aromaticity of the benzene ring?”

**PCC OP 02** – Zaharije Bošković

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Alkaline electrolyzer with asymmetric electrolytes and nickel electrodes modified by spontaneous galvanic replacement”

**PCC OP 03** – Andrej Dedić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Strong anion- $\pi$  interactions between oxyanions and organic aromatic compounds – a DFT study”

**PCC OP 04** – Tijana Mutić

*University of Belgrade – Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

“Tailoring carbon paste electrodes with  $\text{Ho}_2\text{Mo}_4\text{O}_{15}$  nanoparticles for sensitive and selective Paracetamol sensing”

**PCC OP 05** – Milica Bogdanović

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“The crystal structure of new platinum(II) complex with *N*-benzylphenothiazine”

**Phytochemistry and Food Chemistry (PFC)**

**PFC OP 01** – Lazar Popović

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Application of spherical coordinates for coding ternary solvent mixture in the optimisation of *Ganoderma resinaceum* extraction”

**Supramolecular Chemistry and Functional Materials (SCFM)**

**SCFM OP 01** – Tijana Vlašković

*University of Priština in Kosovska Mitrovica – Faculty of Sciences and Mathematics, Kosovska Mitrovica, Serbia*

“Investigation of the obtaining method of  $\text{Ca}_{0.9}\text{Er}_{0.1}\text{MnO}_3$  nanopowders applying the hydrazine nitrate procedure (HNP)”

## Poster presentations

### Chemistry and Society (CS)

#### CS PP 01 – Milica Raković

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Interest in chemistry and/or a good basis for studying: Students in Serbia on choosing a specialized grammar school track”

#### CS PP 02 – Anđela Stevanović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Assessing the chemistry educational outcomes using PhET simulations: Analysis of primary school students' achievements in atomic structure”

#### CS PP 03 – Kristina Spalević

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Perception vs. performance in chemical bonding concept among pre-service chemistry teachers: A case study at the Faculty of Science, University of Kragujevac”

#### CS PP 04 – Adela Zeković

*State University of Novi Pazar – Department of Natural Sciences and Mathematics, Novi Pazar, Serbia*

“Assessment of the effectiveness of using the Chemistry Cool application in 7<sup>th</sup> grade chemistry classes”

**Chemistry meets Biology (CB)**

**CB PP 01** – Milica Rončević

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Biomimetic screening of the persistent pollutant PFOA to predict health outcomes”

**CB PP 02** – Jovana Djokovic

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Ionic liquid-assisted investigation of Rh(III) complexes with biologically relevant ligands”

**CB PP 03** – Sergej Cvijić

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia.*

“Development of bile acid-based compounds as dual NRF2 activators and FXR modulators”

**CB PP 04** – Vladimir Vlatković

*University of Belgrade – Institute of Physics Belgrade, National Institute of the Republic of Serbia, Belgrade, Serbia*

“In vitro characterisation of gastrointestinal absorption of cinnamic acid”

**CB PP 05** – Sofija Stanimirović

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Modeling NA-HILIC retention of CNS drugs: insights into molecular interactions and ADMET relevance”

**CB PP 06** – Stefan Perendija

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Synthesis, characterization, biomolecular interactions and anticancer potential of  $[\text{RuCl}_2(\eta^6\text{-}p\text{-cymene})(\text{bph-}\kappa\text{N})]$  complex”

**CB PP 07 – Tamara Petrović**

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Pd(II) complexes with anthracenyl Schiff bases as promising antimicrobial candidates”

**CB PP 08 – Aleksandra Simić**

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Antimicrobial activity against *Staphylococcus* strains of “super essential oils”, designed by means of Machine Learning algorithms”

**CB PP 09 – Đorđe Pavličević**

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“*In silico* exploration of caryophyllene binding modes to selected antibacterial protein targets in *Escherichia coli*”

**CB PP 10 – Emilija Dinić**

*University of Niš – Faculty of Sciences and Mathematics, Niš, Serbia*

“Anti-urease activity of *ortho*- and *para*-substituted cinnamoyl hydroxamic acids”

**CB PP 11 – Teodora Miletić**

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Hands-on science: Formulating and assessing the efficacy of a propolis-infused hand sanitizing gel”

**CB PP 12 – Filip Sekereš**

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Characterization and antiradical activity of Vranac grape extracts using EPR and Orbitrap analysis”

**CB PP 13 – Dunja Milanović**

*Petnica Science Center, Valjevo, Serbia*

“Analysis of differential gene expression in Alzheimer's disease”

**CB PP 14 – Milica Stevanović**

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“*In silico* toxicity testing and docking study of 17-pyridin-2-yl estrane derivatives”

**CB PP 15 – Đorđe Janković**

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“Synthesis of new aromatic steroid carbamates, their *in vitro* biological activity and *in silico* analysis”

**CB PP 16 – Jana Timotijević**

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“New Ru-arene complexes with 1,2,4-triazole Schiff base: synthesis, characterization, and cytotoxic evaluation”

**CB PP 17 – Denis Mitov**

*University of Niš – Faculty of Sciences and Mathematics, Niš, Serbia*

“Dengue drug discovery by repurposing approved drugs”

**CB PP 18 – Ana Kandić**

*Innovative Centre of the Faculty of Chemistry Ltd., Belgrade, Serbia*

“Structural characterization and anticancer potential of a rhenium(V)-apigenin complex”

**CB PP 19 – Jovana Dragojevic**

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“DNA and HSA interactions of pyridine-based biogenic amine derivative”

**CB PP 20** – Teodora Cvetić

*University of Belgrade – Faculty of Medicine, Institute of Medical Chemistry, Belgrade, Serbia*

“INFOGEST 2.0 - Evaluation of peanut protein digestibility and IgE reactivity”

**CB PP 21** – Lazar Milović

*University of Kragujevac – Institute for Information Technologies Kragujevac, Kragujevac, Serbia*

“Green synthesis of pyrido-dipyrimidines: anticancer and DNA/HSA binding studies”

**CB PP 22** – Sanja Đokić

*University of Novi Sad – Faculty of Sciences, Novi Sad, Serbia*

“SAR analysis of novel hybrid analogues based on styryl-lactone scaffold with antiproliferative activity”

**CB PP 23** – Ljubodrag Aleksić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Genipin- and potassium-crosslinked chitosan/carrageenan hydrogels as 3D scaffolds for cultivated meat production”

**CB PP 24** – Nevena Stevanović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“DNA/BSA binding study of mononuclear gold(III) complexes containing miconazole and econazole as ligands”

**CB PP 25** – Anel Memić

*University of Montenegro – Faculty of Medicine, Podgorica, Montenegro*

“Recombinant production of the chimeric protein alpha-synuclein-mCerulean3-His6 in *Escherichia coli*, isolation and assessment of its thermal stability at different pH values”

**Developments in Chemical Synthesis (DCS)**

**DCS PP 01** – Bojana Pantović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Iminodiacetate-based gallium(III) complexes: synthesis, spectroscopic characterization and X-ray structural analysis”

**DCS PP 02** – Dimitrije Gligorovski

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Quantifying photon flux enhancement in a concave mirror photoreactor using ferrioxalate actinometry”

**DCS PP 03** – Marija Trifunović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Synthesis, characterization and HSA binding studies of two novel palladium(II) complexes”

**DCS PP 04** – Ivan Borković

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“New approaches to cyclohepta[b]indoles by intramolecular cyclization: gold(I)-catalysis vs Friedel–Crafts acylation”

**DCS PP 05** – Samira Plojović

*State University of Novi Pazar, Department of Sciences and Mathematics, Novi Pazar, Serbia*

“Synthesis and spectral characterization of 5-aminosalicylic acid esters”

**DCS PP 06** – Marija Tanović

*University of Belgrade – Institute for Multidisciplinary Research, Belgrade, Serbia,*

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Synthesis and spectroscopy characterization of two Schiff bases and their Cu(II) and Co(II/III) complexes”

**Environmental Awareness (EA)**

**EA PP 01** – Dušan Trajković

*University of Belgrade – Innovation Center of the Faculty of Technology and Metallurgy, Belgrade, Serbia*

“Application of Fly Ash-Based Geopolymers for the Removal of Pesticides from Water”

**EA PP 02** – Ana Lazić

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Photocatalytic degradation of Rhodamine B with laser synthesized indium-titanium(IV) oxide”

**EA PP 03** – Stefan Tomić

*University of East Sarajevo - Faculty of Technology, Zvornik, Republic of Srpska, Bosnia and Herzegovina,*

*Nova Alumina d.o.o., Zvornik, Republic of Srpska, Bosnia and Herzegovina*

“Influence of lithium-ion modification of zeolite 13X on CO<sub>2</sub> adsorption capacity”

**EA PP 04** – Miomir Krsmanović

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Obtaining a coloured stable nickel spinel-based compound by the process of ion-exchange and subsequent thermal treatment”

**EA PP 05** – Teodora Subić

*University of Novi Sad - Faculty of Technology, Novi Sad, Serbia*

“Adsorption kinetics of Cr (VI) ions using exhausted chestnut wood as a biosorbent”

**EA PP 06** – Sara Nikolić

*State University of Novi Pazar, Department of Natural Sciences and Mathematics, Novi Pazar, Serbia*

“The bioaccumulation potential of the plant *Symphytum officinale* L.”

**EA PP 07 – Miloš Ilić**

*University of Belgrade - Faculty of Chemistry, Belgrade, Serbia*

“Influence of pH on element leaching from plastic and glass bottles into water”

**EA PP 08 – Gordana Marković**

*Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia*

“Electronic Band Structure Modifications in Fe/TiO<sub>2</sub>/VO<sub>4</sub> and Fe/TiO<sub>2</sub>/VOOH Systems: A Theoretical Study for Photocatalytic Applications”

**EA PP 09 – Jelena Mitić**

*University of Belgrade - Institute of Physics Belgrade, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Assessment of PAH contamination in soils from closed municipal landfills in Serbia”

**EA PP 10 – Dajana Janjušević**

*University of Belgrade - Faculty of Agriculture, Belgrade, Serbia*

“Sustainable biocomposites: valorization of agro-industrial by-products”

**EA PP 11 – Emilija Stanković**

*Institute of Virology, Vaccines and Sera "Torlak", Belgrade, Republic of Serbia*

“Pollution-related modifications enhance ragweed pollen allergenicity”

**EA PP 12 – Marina Radenković**

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Sunflower waste-derived activated carbon for efficient metal adsorption and its determination using a gold nanoparticle-modified carbon electrode”

**EA PP 13 – Jasmina Mušović**

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Efficient extraction of copper and lead from printed circuit boards using ionic liquid-based aqueous biphasic systems”

**EA PP 14 – Katarina Sokić**

*University of Belgrade - Faculty of Technology and Metallurgy, Belgrade, Serbia*

“Application of nickel- and iron(III)-modified zeolite A for boron adsorption in wastewater treatment”

**Physical and Computational Chemistry (PCC)**

**PCC PP 01** – Ljubinka Vasić

*University of Belgrade – Institute for Multidisciplinary Research, Belgrade, Serbia*

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Platinum- and rhodium-enhanced electrocatalysis of hydrogen electrode reactions on cobalt in alkaline media”

**PCC PP 02** – Aleksandra Đunović

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Influence of halogen interactions on the energetic properties of halogen-substituted polycyclic nitroaromatic molecules”

**PCC PP 03** – Minja Radević

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Computational profiling of newly synthesized poly(ethylene terephthalate) derivatives: pharmacokinetic and quantum-chemical insights”

**PCC PP 04** – Sonja Zrilić

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Strong CH/O hydrogen bonds of phenanthroline transition metal complexes and water”

**PCC PP 05** – Ljubica Bacetić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Electrochemical investigation of Rh(III) Schiff base complex and its interaction with human serum albumin”

**PCC PP 06** – Mila Sojanović

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Hydrogen bonds in hydroquinone dimer. Crystallographic and DFT study”

**PCC PP 07** – Danijela Kretić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Influence of the type of substituent adjacent to the C–NO<sub>2</sub> group on the impact sensitivity of trinitroaromatic molecules”

**PCC PP 08** – Katarina Anđelković

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Clar goblet isomers: electronic structure, stability, and aromaticity”

**PCC PP 09** – Mihajlo Kulizić

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Amyloid-like ovalbumin fibrils as novel electrode modifiers for electrochemical detection of pharmaceutical compounds”

**PCC PP 10** – Tanja Milojević

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Effect of benzo-annelations on the HOMO-LUMO gap in polycyclic conjugated compounds”

**PCC PP 11** – David Tomić

*University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia*

“Green production of hydrogen peroxide via selective two-electron oxygen reduction at Cu<sub>30</sub>-Fe<sub>70</sub>/GA”

**PCC PP 12** – Dušan Trajković

*University of Belgrade - Faculty of Technology and Metallurgy, Belgrade, Serbia*

*Innovation Centre of the Faculty of Technology and Metallurgy, Belgrade, Serbia*

“Design of a rechargeable hybrid cell utilizing seawater electrolyte”

**PCC PP 13** – Lejla Muminović

*State University of Novi Pazar – Department of Natural Sciences and Mathematics  
Novi Pazar, Serbia*

“Exploring the Euler–Sombor index of benzenoid and phenylene molecular graphs”

**PCC PP 14** – Katarina Pavlović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Double aromaticity in halogenated monocyclic conjugated hydrocarbons”

**PCC PP 15** – Višnja Milošević

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Electronic structure and magnetic properties of a novel carbon allotrope: C<sub>48</sub>”

**PCC PP 16** – Jelena Radovanović

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of  
Serbia, Belgrade, Serbia*

“Influence of pnictogen interactions on the sensitivity of nitroaromatic high-energy molecules”

**PCC PP 17** – Nikola Demijanenko

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Sigma holes and halogen bonding of dihalogenated arenes – influence of regioisomerism and transition metal coordination”

**Phytochemistry and Food Chemistry (PFC)**

**PFC PP 01** – Milan Mladenović

*University of Niš - Faculty of Technology, Leskovac, Serbia*

“Comparative study of maceration, ultrasound, and microwave-assisted extraction of dandelion roots”

**PFC PP 02** – Katarina Nejić

*University of Niš – Faculty of Sciences and Mathematics, Department of Chemistry, Niš, Serbia*

“Rare sacculatane-type diterpenes from *Porella cordaeana*: complete NMR-based structural elucidation”

**PFC PP 03** – Nikola Radisavljević

*University of Niš – Faculty of Sciences and Mathematics, Department of Chemistry, Niš, Serbia*

“Comprehensive NMR characterization of isopinguisone from the liverwort *Porella cordaeana*”

**PFC PP 04** – Filip Nikolić

*University of Belgrade – Institute for Biological Research "Siniša Stanković" – National Institute of the Republic of Serbia, Belgrade, Serbia*

“Structural characterisation of iridoid glycosides in the aerial parts of *Nepeta nuda* L.”

**PFC PP 05** – Đurđa Ivković

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Cosmetic Safety Evaluation of Cultivated Serbian Plant Petals via *Danio rerio* Toxicity Test

**PFC PP 06** – Višnja Negovanović

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Isolation and structural elucidation of abietane-type diterpene from *Euphorbia spinosa*”

**PFC PP 07 – Tijana Maksimović**

*University of Kragujevac - Faculty of Science, Kragujevac, Serbia*

“The comparison of the antioxidant activity of three different teas using the Briggs-Rauscher oscillatory reaction”

**PFC PP 08 – Mladen Rajaković**

*University of Belgrade - Institute for Biological Research "Siniša Stanković", National Institute of the Republic of Serbia, Belgrade, Serbia*

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Developing a method for direct detection of erinacine A in mycelium of *Hericium erinaceus* (Bull.) Persoon”

**PFC PP 09 – Marko Jović**

*University of Belgrade – Faculty of Medicine, Belgrade,*

“Phytochemical profile and biological activities of *Myrtus communis* essential oil: An HPTLC-based approach combined with GC-MS analysis”

**PFC PP 10 – Đurđa Ivković**

*Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia*

“Lacto-fermentation enhances antioxidant and digestive enzyme inhibitory activity of *Cotinus coggygria* leaf extracts”

**PFC PP 11 – Nevena Kićović**

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Turning Waste into Value: NADES-Based Extraction of Bioactives from Red Onion, Ginger, and Apple Peels”

**PFC PP 12 – Jelena Radević**

*University of Novi Sad - Faculty of Agriculture, Serbia*

“Beyond the fruit: polyphenols and biological activity in branches and leaves of selected *Prunus* and *Pyrus* species”

**Solution Chemistry and Chemical Equilibrium (SCCE)**

**SCCE PP 01** – Mladen Đurđević

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

*University of Belgrade - Institute of Chemistry, Technology, and Metallurgy, Belgrade, Serbia*

“Determination of  $pK_a$  values and water solubility of amino-modified  $\beta$ -CDs”

**Supramolecular Chemistry and Functional Materials (SCFM)**

**SCFM PP 01** – Jelena Georgijević

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Fabrication and surface functionalization of TiO<sub>2</sub>/TiN thin films toward visible-light photocatalysis”

**SCFM PP 02** – Anita Mladenovic

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Effect of ethanol on the thermoresponsive behavior of P(NiPAM) hydrogels”

**SCFM PP 03** – Slađana Laketić

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Microscale surface topography evolution of a new-generation titanium alloy subjected to laser treatment”

**SCFM PP 04** – Aleksandar Mijajlović

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“A novel La<sub>2</sub>O<sub>3</sub>/rGO aptasensor for rapid and sensitive electrochemical spore biosensing”

**SCFM PP 05** – Isidora Cvijetić

*Innovation Center of the Faculty of Technology and Metallurgy, Belgrade, Serbia*

“Alginate-coated jute non-woven sorbent for removal of cationic dyes from aqueous solutions”

**SCFM PP 06** – Katarina Postolović

*University of Kragujevac – Faculty of Science, Kragujevac, Serbia*

“Carrageenan-anthocyanins/chitosan films supported by artificial neural network model for food freshness monitoring”

**SCFM PP 07 – Tamara Tadić**

*University of Belgrade – Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

“Magnetic properties of the hybrid polymer containing incorporated magnetite nanoparticles”

**SCFM PP 08 – Barbara Ramadani**

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Enhancing environmental stability of perovskite absorbers through polyionic liquid engineering”

**SCFM PP 09 – Andrijana Pantelić**

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Investigation of  $\text{MgGd}_2\text{Zr}_2\text{O}_8$  doped with  $\text{Eu}^{3+}$  ions as an innovative luminescent material”

**SCFM PP 10 – Jovana Aćimović**

*University of Belgrade – Institute of Physics Belgrade, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Design and synthesis of P(MAA-co-PEGMA) hydrogels as functional sorbents for fluoxetine as a pollutant”

**SCFM PP 11 – Natalija Nedić**

*University of Belgrade – Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

“Antibacterial activity of silver-immobilized polymer composite”

**SCFM PP 12 – Anđelka Stolić**

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Structure–property relationships in P(OEGDA/OPGMA) copolymeric hydrogels: A study on composition, crosslinking, and thermal sensitivity”

**SCFM PP 13** – Nevena Bozinovic

*University of Belgrade – Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Belgrade, Serbia*

“Femtosecond laser-induced micro- and nanostructuring of silicon surfaces for biomedical applications”

**SCFM PP 14** – Aleksa Dakić

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Amino-modified  $\beta$ -cyclodextrin as a solubilizer for folic acid”

**SCFM PP 15** – Aleksandar Pavićević Nedeljković

*University of Belgrade – Faculty of Chemistry, Belgrade, Serbia*

“Enhanced photostability of naproxen through complexation with amino-modified beta-cyclodextrin

**SCFM PP 16** – Natalija Milojković

*University of Belgrade - Faculty of Technology and Metallurgy, Belgrade, Serbia*

“Polyaniline/TiO<sub>2</sub> heterostructure: the efficient photocatalyst for diazepam degradation under simulated solar light”