



Serbian Chemical Society
Serbian Young Chemists' Club



12th Conference
of the Young Chemists of Serbia
Program Highlights

Novi Sad

24th OCTOBER 2026



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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. Snežana Papović – University of Novi Sad, Faculty of Sciences
Dr. Aleksandra Popović – University of Belgrade, Faculty of Technology and Metallurgy
Dr. Ivana Kuzminac – University of Novi Sad, Faculty of Sciences
Dr. Sanja Đokić – University of Novi Sad, Faculty of Sciences
Dr. Slađana Đorđević – University of Kragujevac, Faculty of Science

Organizing Committee

Dr. Mila Lazović – Innovative Centre of the Faculty of Chemistry Ltd., Belgrade, Serbia
Mihajlo Jakanovski – University of Belgrade, Faculty of Pharmacy, Belgrade, Serbia
Dr. Aleksandra Đunović – Innovative Centre of the Faculty of Chemistry Ltd., Belgrade, Serbia
Nemanja Živanović – University of Novi Sad, Faculty of Sciences
Ljiljana Milovanović – University of Novi Sad, Faculty of Sciences
Milica Stevanović – University of Novi Sad, Faculty of Sciences
Sergej Cvijić – University of Novi Sad, Faculty of Sciences

European Young Chemists' Network

Dr. Jelena Tadić

Sponsorship

The Organizing Committee is grateful for the donations from:

Analysis d.o.o.



Labtim SE d.o.o.



KEFO d.o.o.



Maxlab Nature's Laboratory



Elixir Group



European Young Chemists' Network



HerbElixa d.o.o.



The Ministry of Science, Technological
Development and Innovation of the Republic of Serbia



MDPI Molecules



AKS Express d.o.o.



Acknowledgments

Acknowledgements to the University of Novi Sad – Faculty of Sciences for providing the venue for the 12th Conference of Young Chemists of Serbia.

Thanks to the Board of the Serbian Chemical Society for their support during the organization of the Conference.

Deepest acknowledgements to the European Young Chemists' Network for financially supporting the awards for the best oral and poster presentations.

Thanks to Analysis d.o.o. for their trust and promotional materials.

We extend our sincere gratitude for the generous financial support provided by our sponsors: Labtim SE d.o.o., KEFO d.o.o., Maxlab Nature's Laboratory, Elixir Group, HerbElixa d.o.o., MDPI Molecules, and AKS Express d.o.o.

Special thanks to the Ministry of Science, Technological Development and Innovation of the Republic of Serbia for their essential financial contribution to the realization of this event.

Scientific Program

Time schedule	Program
9:00 – 10:00	<i>Registration of the participants</i> Mounting posters for the Poster Session 1 (ODD POSTER NUMBERS)
10:00 – 10:15	<i>Conference opening</i> Serbian Chemical Society Scientific Committee Serbian Young Chemists' Club presentation
10:15 – 10:25	<i>Sponsor presentation: Elixir presentation</i> Olivera Popov, Teodora Ulić and Ana Marjanović
10:25 – 11:10	<i>Plenary Lecture</i> PP OP 01 – Izudin Redžepović State University of Novi Pazar, Novi Pazar, Serbia <i>"New approaches to measure structural similarity of networks"</i>
11:10 – 11:20	<i>Sponsor presentation: MDPI Molecules</i> Tanja Nikolić and Milica Plazinić
11:20 – 12:10	<i>Poster session 1 and Coffee break</i>
12:10 – 12:20	<i>European Young Chemists' Network (EYCN) presentation</i> Jelena Tadić Mounting posters for the Poster Session 2 (EVEN POSTER NUMBERS)
12:20 – 12:50	<i>Invited Lecture</i> PPP OP 01 – Jelena Tadić University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia <i>"Natural products as sources of bioactive compounds: Insights from natural cleistanolate and its analogues"</i>
12:50 – 13:40	<i>Poster session 2</i>
13:40 – 13:45	GROUP PHOTO
13:45 – 14:30	<i>Lunch</i>
14:30 – 14:55	<i>Popular Scientific Lecture</i> Luka Mihajlović, Analysis d.o.o.

14:55 – 15:25	<i>Invited Lecture</i> PPP OP 02 – Andrea Usenik Faculty of Science, University of Zagreb, Zagreb, Croatia <i>"Old receptors, new tricks: intrinsic fluorescence of calixarenes and its applications"</i>
15:25 – 15:40	<i>Presentation of guests from SS HKD</i> Josip Mikulić and Vedrana Stantić
15:40 – 16:25	<i>Oral presentations, Session 1+ flash presentation</i>
	DCS OP 01 – Josip Mikulić Faculty of Science, Zagreb, Croatia <i>"Regioselectivity of carbene-intermediate reactions modulated by hydrogen bonding"</i> CB PP 23 – Andrej Nikolić University of Rijeka, Rijeka, Croatia <i>"Porphyrin conjugation as a structural modulator of antimicrobial peptides"</i> PCC PP 15 – Luka Klemen University of Zagreb, Faculty of Science, Zagreb, Croatia <i>"Intrinsic fluorescence of calix[6]arene as a probe for metal cation complexation"</i> CS OP 01 – Katarina Čeranić Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia <i>"CSD4NCI workshop – a cheminformatics workshop on analyzing noncovalent interactions using the CSD Portfolio"</i> CB OP 01 – Milena Petrović University of Kragujevac, Faculty of Science, Kragujevac, Serbia <i>"Targeting HSP90 with pyrazoline-based derivatives: A docking-guided design, synthesis and biological evaluation"</i> EA OP 01 – Dragana Žmukić University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia <i>"Optimization of polyhydroxyalkanoates production from biomass using response surface methodology"</i>
16:25 – 16:40	<i>Coffee break</i>
16:40 – 17:20	<i>Oral presentations, Session 2</i>
	PCC OP 01 – Andrija Vukov University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia <i>"Influence of alkyl chains on the physicochemical and thermophysical characteristics of nicotine-based ionic liquids"</i>

	PFC OP 01 – Anita Smailagić <i>Innovative Centre of the Faculty of Chemistry, Ltd., Belgrade, Serbia</i> "Different approaches for extraction of oil and polyphenols from grape seeds from Serbian wineries" SCCE OP 01 – Milica Stefanović Pirković <i>Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia</i> "Physicochemical changes in badlands under simulated climatic conditions - the interplay between mineralogical composition and texture" SCFM OP 01 – Milena Marković <i>University of Priština, Faculty of Sciences and Mathematics, Kosovska Mitrovica, Serbia</i> "MOF-derived nanoparticles for enhanced sensing of phenolic pollutants"
17:20 – 17:30	Break
17:30 – 17:50	Closing ceremony Awards and acknowledgments
17:50	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 presentation will be taken place at the “Mihajlo Pupin“ amphitheater on the ground floor at the Department of Mathematics and Informatics, Faculty of Science, University of Novi Sad (address: Trg Dositeja Obradovića 4, Novi Sad).
- The Poster sessions will take place in the hallway in front of the “Mihajlo Pupin“ amphitheater.

Types of presentations

At the 12th 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: **70 cm (width) × 100 cm (height) or 80 cm (width) × 100 cm (height)**
- 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

PP OP 01 – Izudin Redžepović

State University of Novi Pazar, Novi Pazar, Serbia

"New approaches to measure structural similarity of networks"

Invited Lectures

PPP OP 01 – Jelena Tadić

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

"Natural products as sources of bioactive compounds: Insights from natural cleistanolate and its analogues"

PPP OP 02 – Andrea Usenik

Faculty of Science, University of Zagreb, Zagreb, Croatia

"Old receptors, new tricks: intrinsic fluorescence of calixarenes and its applications"

Oral presentations

Chemistry and Society (CS)

CS OP 01 – Katarina Čeranić

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

"CSD4NCI workshop – a cheminformatics workshop on analyzing noncovalent interactions using the CSD Portfolio"

Chemistry meets Biology (CB)

CB OP 01 – Milena Petrović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Targeting HSP90 with pyrazoline-based derivatives: A docking-guided design, synthesis and biological evaluation"

Developments in Chemical Synthesis (DCS)

DCS OP 01 – Josip Mikulić

Faculty of Science, Zagreb, Croatia

"Regioselectivity of carbene-intermediate reactions modulated by hydrogen bonding"

Environmental Awareness (EA)

EA OP 01 – Dragana Žmukić

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

"Optimization of polyhydroxyalkanoates production from biomass using response surface methodology"

Physical and Computational Chemistry (PCC)

PCC OP 01 – Andrija Vukov

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

"Influence of alkyl chains on the physicochemical and thermophysical characteristics of nicotine-based ionic liquids"

Phytochemistry and Food Chemistry (PFC)

PFC OP 01 – Anita Smailagić

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

"Different approaches for extraction of oil and polyphenols from grape seeds from Serbian wineries"

Solution Chemistry and Chemical Equilibrium (SCCE)

SCCE OP 01 – Milica Stefanović Pirković

Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

"Physicochemical changes in badlands under simulated climatic conditions - the interplay between mineralogical composition and texture"

Supramolecular Chemistry and Functional Materials (SCFM)

SCFM OP 01 – Milena Marković

University of Priština, Faculty of Sciences and Mathematics, Kosovska Mitrovica, Serbia

"MOF-derived nanoparticles for enhanced sensing of phenolic pollutants"

Poster presentations

Chemistry and Society (CS)

CS PP 01 – Stefan Gavrilović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Developing entrepreneurial competencies in chemistry education: Insights from teachers' practices"

CS PP 02 – Adela Zeković

State University of Novi Pazar, Novi Pazar, Serbia

"Educational apps and AI tools: Combining technologies in inorganic chemistry classes"

CS PP 03 – Valentina Periškić

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

"Systemic analysis questions as a tool for assessing secondary school students' achievement in organic chemistry"

Chemistry meets Biology (CB)

CB PP 01 – Marijana Živković

Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

"Structure–ADMET relationships in glycodeoxycholic acid-derived thiohydantoin candidates: an in silico study"

CB PP 02 – Marija Trifunović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Elucidating subdomain IIA binding preferences of palladium(II) complexes with human serum albumin"

CB PP 03 – Snežana Stojanović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Exploring the DNA recognition and minor groove binding of novel palladium(II) complexes"

CB PP 04 – Ljubodrag Aleksić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"C-phycoyanin-derived peptide-conjugated, chemically crosslinked chitosan/carrageenan hydrogels for myoblast cultivation in reduced serum conditions"

CB PP 05 – Jovana Đoković

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Investigation of the interactions of Cu(II) complexes with DNA and human serum albumin using molecular docking"

CB PP 06 – Gabrijela Virić

Petnica Science Center, Valjevo, Serbia

"Synthesis of oxazolidinone derivatives and determination of their inhibitory effects on acetylcholinesterase"

CB PP 07 – Đorđe Janković

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

"Synthesis of novel androstane hydrazono-hydrazide derivatives and their binding affinity to androgen and estrogen receptors"

CB PP 08 – Jana Velimirović

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Expression and Partial Immunochemical Characterization of a Recombinant BanLec-Based Chimera Containing *Amb a 1* T-Cell Epitopes"

CB PP 09 – Damjana Tomić

Institute of Food Technology, Novi Sad, Serbia

"ACE-inhibitory potential of red and white wine lees from autochthonous Serbian grape cultivars"

CB PP 10 – Dimitrije Kuzmanović

Gymnasium "Bora Stanković", Niš, Serbia

"In Silico Structural Optimization of Boscalid Derivatives Targeting Acetylcholinesterase and Butyrylcholinesterase: Integrated Molecular Docking and ADMET Assessment"

CB PP 11 – Neda Dupljanin

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

"Synthesis and biological evaluation of a novel heterocyclic 16,17-secoandrost-5-ene derivative"

CB PP 12 – Milica Mandić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Investigation of the potential of B-phycoerythrin from the microalga *Porphyridium purpureum* as albumin replacement in cell media for Japanese quail myoblasts cultivation"

CB PP 13 – Emilija Milović

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

"Synthesis of Biginelli compound loaded on chitosan and evaluation of its cytotoxic effect"

CB PP 14 – Vladimir Vlatković

Institute of Physics, University of Belgrade, Belgrade, Serbia

"Lipophilicity assessment of selected phenolic acids using immobilized artificial membrane chromatography"

CB PP 15 – Milica Stevanović

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

"Synthesis and in silico biological investigation of 3 β -acetoxy-19-bromo-17-oxa-17a-homoandrost-5-en-16-one"

CB PP 16 – Bogdan Pantelić

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

"Rational engineering of new glucose oxidase mutants through sequence-based modelling and molecular dynamics simulations"

CB PP 17 – Filip Pantic

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Targeting envelope (E) dimer protein of Yellow Fever Virus"

CB PP 18 – Jovana Dragojević

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"DNA-Binding Properties of Antimicrobial Potent Imine Derived from Tranexamic Acid"

CB PP 19 – Teodora Cvetković

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

"Synthesis and in silico ADME profiling of novel chlorinated furanofuranone analogues"

CB PP 20 – Sergej Cvijic

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

"Deoxycholic acid-based cyanoenoes targeting the NRF2-KEAP1 pathway"

CB PP 21 – Teodora Miletic

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Plant-mediated synthesis and bioactivity of selenium nanoparticles using *Satureja hortensis* L."

CB PP 22 – Marina Lukić

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

"Brominated furanofuranone analogues: synthesis, characterization and in silico pharmacokinetic profiling"

CB PP 23 – Andrej Nikolić

University of Rijeka, Rijeka, Croatia

"Porphyrin conjugation as a structural modulator of antimicrobial peptides"

CB PP 24 – Natalija Nestorov

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

"Design, synthesis, and ADME-Tox analysis of a new dephenylated analogue of (–)-goniofufurone with a 7-O-isobutyl group"

CB PP 25 – Nikola Terzić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Allophycocyanin from cyanobacteria *Limnospira platensis*: Optimization of purification, stability testing and characterization of binding to concanavalin A"

CB PP 26 – Rebeka Rajsli

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

"Design, synthesis optimization, ADME-Tox analysis, and antiproliferative activity of (–)-goniofufurone analogue"

Developments in Chemical Synthesis (DCS)

DCS PP 01 – Galja Varga

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"A refined approach in Zn²⁺ detection: highly selective ESIPT-effect-based ratiometric sensors"

DCS PP 02 – Ana Popović

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

"Derivatization of pyrazole-3,5-dicarboxylic acid"

DCS PP 03 – Ljubica Brenjo

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

"Oxone-mediated oxidation of 5-monosubstituted tetrazoles - identification of complex reaction mixture constituents"

DCS PP 04 – Nevena Stevanović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Synthesis and crystal structure of silver(I) complex with N-(pyrazin-2-yl)benzenesulfonamide"

DCS PP 05 – Mima Jevtović

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

"Structural diversity of a cadmium(II) thiocyanate complex with 2-acetylthiazole semicarbazone"

DCS PP 06 – Marija Pavlović

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

"Synthesis and structural characterization of a mononuclear Ni(II) complex with a 2-acetylthiazole semicarbazone"

DCS PP 07 – Maja Maljković

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Synthesis of manoyl oxide derivatives"

DCS PP 08 – Nađa Stojanović

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"N-Alkyl and N-aryl acridone derivatives – a new class of photosensitizers for [2+2] cycloadditions"

DCS PP 09 – Snežana Selaković

University of Belgrade, Faculty of Pharmacy, Belgrade, Serbia

"Synthesis and characterization of a Cu(II) complex with methyl 3-formyl-4-hydroxybenzoate and 4-methylphenanthroline"

DCS PP 10 – Ana Kostić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Development of a method for the synthesis of ketones using an iron-based catalyst"

DCS PP 11 – Nevena Stevanović

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Synthesis and characterization of octahedral Co(II) complex with condensation product of 2-acetylthiazole and semicarbazide hydrochloride"

DCS PP 12 – Teodora Vitomirov

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"A pentacoordinate Zn(II) thiocyanate complex with 2-acetylthiazole semicarbazone: synthesis and crystal structure"

DCS PP 13 – Mihajlo Zorić

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

"A solvent-free form of the dinuclear zinc(II) complex $[Zn_2(L-2H)_2]$ "

Environmental Awareness (EA)

EA PP 01 – Dušan Trajković

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

"Zeolite-based Geopolymer: Synthesis, Characterization and Ni^{2+} , Cu^{2+} and Cr^{3+} Ion Removal"

EA PP 02 – Dušica Jovanović

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

"Turning herbs into photocatalysts: Synthesis of *Thymus serpyllum* extract-based ZnO"

EA PP 03 – Aleksandar Jovanović

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

"Green synthesis of Fe/TiO₂ photocatalysts for wastewater treatment"

EA PP 04 – Eraković Zorica

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

"Poly(N,N-Diethylacrylamide)/Graphene Oxide Composite for Methyl Violet 2B Removal: Synthesis, Morphological Characterization, and Adsorption Kinetics"

EA PP 05 – Jelena Mitić

Institute of Physics, University of Belgrade, Belgrade, Serbia

"Carcinogenic risk from polycyclic aromatic hydrocarbons in soils of different landfill types"

EA PP 06 – Marija Rosandić

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

"Assessment of potentially toxic elements mobility in Zagreb urban soils using single-step extractions"

EA PP 07 – Marko Pajić

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

"Photocatalytic degradation of metformin in aqueous suspension using a biogenically synthesized catalyst"

EA PP 08 – Cintia Horváth

Bolyai Secondary Grammar School and Dormitory for Gifted Students – Senta, Senta, Serbia

"Sustainable photocatalysis: plant-based ZnO nanomaterials in the 17 α -ethinylestradiol removal from water"

EA PP 09 – Laura Koszorús

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

"Removal of paracetamol from aqueous environment using iron phosphate-based catalysts: the efficiency of heterogeneous photocatalysis and photo-Fenton systems"

EA PP 10 – Danijela Tekić

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

"Aqueous systems with bio-derived ionic liquid as an alternative to organic solvents for the regeneration of dye-saturated silica gel"

EA PP 11 – Natalija Nedić

Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

"Kinetics of Malachite Green biosorption using a magnetically modified biosorbent in distilled and bottled water"

EA PP 12 – Anastasija Garić

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

"Efficiency of the photocatalytic degradation of metformin using ZnO-based green catalyst and grape pomace extract"

EA PP 13 – Marina Radenković

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

"From Agricultural Waste to Functional Adsorbent: Sunflower Husk for Rhodamine B Removal"

EA PP 14 – Tamara Tadić

Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

"CO₂ adsorption and regeneration performance using an amino-modified polymer"

EA PP 15 – Marija Kovačević

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

"Photocatalytic degradation of methyl orange using Pt-modified TiO₂ photocatalysts"

EA PP 16 – Nikola Srećković

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Green synthesis of silver nanoparticles using aqueous extract of black goji berries (*Lycium ruthenicum* Murr.)"

EA PP 17 – Teodora Taškov

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

"Mechanical Activation of Deposited Ash for Enhanced Reactivity in Cementitious Composites"

EA PP 18 – Marija Šobić

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

"Removal of bezafibrate from water using hydrochar as an adsorbent"

EA PP 19 – Đurđa Ivković

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

"Betaine-based NADESs as designer solvents: tailoring plant bioactivity profiles for cosmetic applications"

EA PP 20 – Nada Lončarević

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

"Exploring Co-Au synergy in CNT- based electrodes for As(III) detection"

EA PP 21 – Marko Krpić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Gold-Modified MnO₂ electrodes for sensitive electrochemical detection of As (III)"

EA PP 22 – Elena Nikolić

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

"Viscose substrates as delivery systems for anthocyanin extracts"

Physical and Computational Chemistry (PCC)

PCC PP 01 – Dina Redžependić

State University of Novi Pazar, Novi Pazar, Serbia

"Structural and toxicological similarity of selected organic pollutants"

PCC PP 02 – Milenko Bunović

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

"An insight into the complex world of s-triazine – a crystallographic and quantum-chemical study"

PCC PP 03 – Valentina Ilić

Petnica Science Center, Valjevo, Serbia

"Detection of chloramphenicol using a glassy carbon electrode modified with Ni/Co-ZIF-67 and silver nanoparticles"

PCC PP 04 – Naima Crnišanić

State University of Novi Pazar, Novi Pazar, Serbia

"In silico evaluation of the antioxidant and potential antibacterial activity of lawsone"

PCC PP 05 – Sonja S. Zrilić

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

"Are CaH/O hydrogen bonds of glycine transition metal complexes and water relevant?"

PCC PP 06 – Anabela Dragičević

Institute of Technical Sciences of SASA, Belgrade, Serbia

"Electrochemical activity of a glassy carbon electrode modified with ZnO particles synthesized using a hydroethanolic extract of *Pinus nigra* needles for doxorubicin detection"

PCC PP 07 – Andrej Dedić

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

"Anion- π interactions of oxyanions with strongly electron-deficient aromatic rings – a DFT study"

PCC PP 08 – Milica Popović

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

"Ghrelin-Cav1.2 interactions explored by informational spectrum analysis and molecular docking"

PCC PP 09 – Katarina Stojanović

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

"Unravelling rhodamine B degradation kinetics on TiO₂/CF: model comparison and mechanistic insights"

PCC PP 10 – Kristina Spasić

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

"Electrochemical detection of fluoxetine in aqueous solution using ZnO/SnO₂-modified screen-printed carbon electrodes"

PCC PP 11 – Aleksandra Đunović

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

"Quantum chemical assessment of the N,N-dihaloamino groups as potential explosives"

PCC PP 12 – Aleksandar Pavićević Nedeljković

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Development of a carbon paste-based sensor modified with a CeO₂/MWCNT nanocomposite for sensitive detection of diuron in water and food samples"

PCC PP 13 – Milan Stanković

University of Belgrade, Faculty of Pharmacy, Belgrade, Serbia

"Electrochemical Determination of Vanillin Using an Eu_xMo_yO_z/MWCNT-Modified Glassy Carbon Electrode"

PCC PP 14 – Danijela Kretić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Effect of small changes in basis-set parameters on the description of hydrogen bonding in the water dimer"

PCC PP 15 – Luka Klemen

University of Zagreb, Faculty of Science, Zagreb, Croatia

"Intrinsic fluorescence of calix[6]arene as a probe for metal cation complexation"

PCC PP 16 – Katarina Čeranić

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

"The formation of cation- π interactions and pnictogen bonds between XH₄⁺ cations (X = N, P, As) and benzene sandwich compounds"

PCC PP 17 – David Tomić

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

"Effect of Pd-Fe ratio on the electrochemical and capacitive performance of carbon aerogel electrodes in acidic media"

PCC PP 18 – Katarina Postolović

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Simultaneous determination of dopamine, serotonin, and tryptophan using a modified glassy carbon electrode"

PCC PP 19 – Ranko Matejić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Hydrogen bonds of imidazole transition metal complexes with water molecule"

PCC PP 20 – Marija Simić

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

"Electrochemical oxidation of Rhodamine B: kinetic analysis and impact of reactive oxygen species"

Phytochemistry and Food Chemistry (PFC)

PFC PP 01 – Milica Mirjanić

University of Belgrade, Faculty of Agriculture, Belgrade, Serbia

"Comparative analysis of bioactive compound content and antioxidant potential in selected berry fruits"

PFC PP 02 – Lora Tubić

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"*Porphyridium purpureum*-based hydrogels as delivery systems for vitamin D₃ and coenzyme Q10: digestibility and antioxidant potential"

PFC PP 03 – Uroš Popov Tapavički

University of Belgrade, Faculty of Pharmacy, Belgrade, Serbia

"Development and validation of an ion chromatography method for the determination of oxalic acid content in honey"

PFC PP 04 – Anka Jevremović

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

"Extraction and determination of nitrates in vegetables by ion chromatography"

PFC PP 05 – Milica Vidić

University of Novi Sad - Faculty of Medicine, Department of Pharmacy, Novi Sad, Serbia

"Chemical characterisation of *Satureja montana* L. (Lamiaceae) extracts obtained employing microwave-assisted extraction and choline chloride-based natural deep eutectic solvents"

PFC PP 06 – Mijat Brenjo

University of Novi Sad, Faculty of Medicine, Department of Pharmacy, Novi Sad, Serbia

"Valorization of invasive *Ailanthus altissima* (Mill.) Swingle biomass using natural deep eutectic solvents"

PFC PP 07 – Aleksandar Ivanov

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Phycocyanins as a substitute for serum in adipocyte differentiation media in cellular agriculture"

PFC PP 08 – Marko Vukomanović

University of Belgrade, Faculty of Agriculture, Belgrade, Serbia

"Influence of different distillation methods on the chemical composition of plum distillate"

PFC PP 09 – Martina Ninić

Jankovic Pharmacy, Novi Sad, Serbia

"Relationship between extraction yield and antioxidant potential of Lamiaceae herbal teas"

PFC PP 10 – Dušan Vasić

University of Belgrade, Faculty of Agriculture, Belgrade, Serbia

"Elemental profiles of Saffron Flower Petals and the Petal Preserve"

PFC PP 11 – Jovana Simeunović

Institute of Food Technology, Novi Sad, Serbia

"Chemical characterization and food-grade extraction of *Coprinus comatus* powder as a potential functional food ingredient"

PFC PP 12 – Helena Todorović

University of Belgrade, Faculty of Agriculture, Belgrade, Serbia

"Evaluation of different lactic acid bacterial strains for bean fermentation"

PFC PP 13 – Milica Šalgo

Institute of Food Technology, Novi Sad, Serbia

"Fatty acid composition of grapevine leaves (*Vitis vinifera* L.) from 'Grašac' and 'Probus' cultivars"

PFC PP 14 – Nikolina Miočinović

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"High-affinity binding of concanavalin A to C-phycocyanin"

PFC PP 15 – Tomislav Kačarević

Scientific Veterinary Institute "Novi Sad", Novi Sad, Serbia

"Organochlorine pollutants: persistence, bioaccumulation and food safety concerns"

PFC PP 16 – Isidora Knežević

Tamiš Research and Development Institute, Pančevo, Serbia

"Chemical and Physical Characterization of Grain Quality in Five Wheat Genotypes"

PFC PP 17 – Nevena Kićović

University of Belgrade, Faculty of Chemistry, Belgrade, Serbia

"Antioxidant and skin-related enzyme inhibitory potential of blueberry waste extracts obtained using natural deep eutectic solvents"

PFC PP 18 – Mila Lazović

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

"Valorization of grape pomace using green NADES extraction for natural antimicrobial formulations"

PFC PP 19 – Milica Jankov

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

"Antibacterial activity of lettuce (*Lactuca sativa* L.) extracted with polar and non-polar NADES"

Solution Chemistry and Chemical Equilibrium (SCCE)

SCCE PP 01 – David Nedeljković

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

"Aqueous solubility, and hydration properties of methyllicerine from density, viscosity, and acoustic measurements, supported by DFT and MD simulations"

SCCE PP 02 – Tina Andrejević

University of Kragujevac, Faculty of Science, Kragujevac, Serbia

"Catalytic performance of a copper(II) complex in the oxidation of o-aminophenol"

Supramolecular Chemistry and Functional Materials (SCFM)

SCFM PP 01 – Jelena Georgijević

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

"Beyond the band gap: exploring the role of oxidation states and defects in the electronic properties of vanadium oxides"

SCFM PP 02 – Anita Mladenović

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

"Comparative analysis of MBAA-crosslinked PNiPAM hydrogels at different irradiation doses"

SCFM PP 03 – Danijela Smiljanić

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

"Batch removal of Cr(VI) using chitosan/cellulose fiber composite beads: effect of adsorbent dose, pH and citric acid functionalization"

SCFM PP 04 – Katarina Stanković

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

"Assessing the adsorption performance of chitosan-based hydrogels for heavy metals removal: from batch experiments to continuous fixed-bed column"

SCFM PP 05 – Milena Obradović

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

"Immobilization of surfactant-modified phillipsite in chitosan hydrogel beads: does it improve Congo red removal?"

SCFM PP 06 – Anđelka Stolić

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

"Radiation-induced synthesis and characterization of temperature-responsive P(NIPAM/HEA) copolymeric hydrogels"

SCFM PP 07 – Sladjana Laketić

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

"Titanium-based implant materials surface response to laser treatment under different atmospheres"

SCFM PP 08 – Vanja Ćirić

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

"Gamma irradiation-induced chemical and structural modification of polystyrene-based nanomaterials"

SCFM PP 09 – Jovana Aćimović

Institute of Physics, University of Belgrade, Belgrade, Serbia

"Targeted elimination of sertraline as a pharmaceutical pollutant by functional poly(methacrylic acid) based hydrogels"

SCFM PP 10 – Ana Marković

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

"CQDs derived from natural precursor as novel pro-oxidant agents in polyurethane composite"

SCFM PP 11 – Andrijana Pantelić

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

"Structural and optical characterization of MgGd₂Zr₂O₈ nanoparticles doped with Eu³⁺ and Yb³⁺/Tm³⁺"

SCFM PP 12 – Nataša Tot

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

"From microwaves to γ -rays: ms-BiVO₄ for methylene blue removal"

SCFM PP 13 – Barbara Ramadani

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

"Influence of fluoride-containing additives on the structural, morphological, and stability properties of FAPbI₃ perovskite thin films"

SCFM PP 14 – Natalija Milojković

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

"Sustainably obtained carbon-modified ZnO: an efficient photocatalyst for psychiatric drug removal"

SCFM PP 15 – Milica Čalić

Institute of General and Physical Chemistry, University of Belgrade, Belgrade, Serbia

"One-step synthesized silica nanoparticles functionalized with mushroom extract exhibited extraordinary antimicrobial activity"

SCFM PP 16 – Žoka Kratožil

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

"Removal of emerging contaminants from water using ultrafiltration and nanofiltration in a hybrid membrane system"