



PHYSICAL CHEMISTRY 2026

18th International Conference
on Fundamental and Applied Aspects of
Physical Chemistry

Organized by
The Society of Physical Chemists of Serbia

FINAL PROGRAM

Palace Hotel – Belgrade Panorama Hall, VI floor
September 21-25, 2026
Belgrade, Serbia

PHYSICAL CHEMISTRY 2026

18th International Conference on Fundamental and Applied Aspects of Physical Chemistry

Organized by

The Society of Physical Chemists of Serbia

in co-operation with

Institute of Catalysis

Bulgarian Academy of Sciences

Boreskov Institute of Catalysis

Siberian Branch of the Russian Academy of Sciences

Faculty of Sciences - Institute of Chemistry

University of Pécs

and

Members of the University of Belgrade:

Faculty of Physical Chemistry

Institute of Chemistry, Technology and Metallurgy

VINČA Institute of Nuclear Sciences

Faculty of Pharmacy

and

Institute of General and Physical Chemistry, Belgrade

Conference is recognized by EuChemS
[EuChemS Events Calendar - EuChemS](#)

 **EuChemS**
European Chemical Society

SPONSORS



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



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



*Institute of General and Physical
Chemistry*



*University of Belgrade,
Faculty of Physical Chemistry*



*University of Belgrade,
VINČA Institute of Nuclear Sciences*



MEGA SOLUTION

Mega Solution doo



Analysis doo



Alfa Genetics doo

Conference Venue



Palace Hotel

Palace Hotel – Belgrade Panorama Hall, VI floor

Address: Topličin Venac 23, Belgrade 11000

Phone: +381-11-218 55 85 +381-11-263 72 22

Email: office@palacehotel.rs

International Organizing Committee

- Chairman: S. Anić (Serbia)
- Vice-chairman: Z. Petkova Cherkezova-Zheleva (Bulgaria)
O. N. Martyanov (Russia)
G. Lente (Hungary)
S. N. Blagojević (Serbia)
- Members: S. M. Blagojević (Serbia), M. Daković (Serbia), J. Dimitrić-Marković (Serbia), T. Grozdić (Serbia), Lj. Ignjatović (Serbia), A. Ivanović-Šašić (Serbia), Z. Jovanović (Serbia), N. Jović-Jovičić (Serbia), M. Kuzmanović (Serbia), S. Maćešić (Serbia), D. Milenković (Serbia), M. Mojović (Serbia), N. Pejić (Serbia), M. Petković (Serbia), A. Popović Bijelić (Serbia), B. Simonović (Serbia), B. Šljukić (Serbia), G. Tasić (Serbia).

International Scientific Committee

- Chairman: Ž. Čupić (Serbia)
- Vice-chairman: B. Adnađević (Serbia)
V. Bukhtiyarov (Russia)
A. Horvath (Hungary)
S. Minkovska-Dodova (Bulgaria)
- Members: S. Anić (Serbia), A. Antić-Jovanović (Serbia), P. Banković (Serbia), A. Clayton (Australia), M. Fronczak (Poland), E.C. Fuchs (Netherland), S. Furrow (USA), P.L. Gentili (Italy), M. Gizdavić-Nikolaidis (New Zealand), D. Horváth (Hungary), M. Jeremić (Serbia), I. Kiss (USA), A.V. Knyazev (Russia), S. Macura (USA), Z. Marković (Serbia), K. Novaković (UK), S. Oasa (Sweden), M. Orlik (Poland), S.A. Özkan (Türkiye), T. Parac-Vogt (Belgium), D. Peddis (Italy), M.B. Plavšić (Serbia), J. Savović (Serbia), G. Schmitz (Belgium), I. Schreiber (Czechia), L. Schreiberova (Czechia), S. Stopić (Germany), Z. Šaponjić (Serbia), Á. Tóth (Hungary), N. Vasilyeva (Russia), V. Vukojević (Sweden)

Local Executive Committee

- Chairman: S. N. Blagojević
- Vice-chairman: A. Ivanović-Šašić,
B. Marković
- Members: M. Ajduković, S. Bulatović, J. Dostanić, J. Đuričić-Milanković, M. Jelić, S. Jovanović, Z. Jovanović, N. Jović-Jovičić, V. Kostić, S. Maćešić, M. Marković, J. Maksimović, S. Marinović, Ž. Mravik, T. Mudrinić, N. Nedić, M. Pagnacco, M. Ristić, B. Stanković, I. Stefanović, T. Tadić, D. Tomić, J. Parlić, D. Petković, G. Stevanović, H. Šalipur, A. Šajić, M. Vasić, I. Veljković.

Physical Chemistry 2026, September 21-25, Palace Hotel, Belgrade Panorama Hall, VI floor, Belgrade, Serbia

Conference Schedule

	Monday, Sep. 21	Tuesday, Sep. 22	Wednesday, Sep. 23		Thursday, Sep. 24	Friday, Sep. 25
Plenary lectures	Parac-Vogt Tatjana N.	Lente Gábor Sibel Ayşil Özkan		WORKSHOP: FOOD - Vinča	Andrew H.A. Clayton (online)	Kiss István Z. Pier Luigi Gentili (online)
Section lectures	Escala Vodopivec Darío Martín – D Luka Negrojevic – D Milena Čukić – F (online) Ivan Bobrinetskiy – F Srecko Stopic – H	Dušan P. – B Katalin Ősz – C Horváth Attila K.– C Vasilyeva Nadezda – K	Elmar C. Fuchs – E 8.00 – 8.30		Sho Oasa - B Magdaléna Strečková – E Marija Gizdavić- Nikolaidis – H (online) Matej Balaž – H	Tóth Ágota – D Horváth Dezső – D Marek Orlik – D Igor Schreiber – D Andrei Novikov – D
Oral presentations	Andelka Hedrih – D Aleksandar Lončar – S	Jovanović Sonja - H Cetinkaya Ahmet - E	EXCURSION (Sombor city)		Sergey Andreev – H Mravik Željko – H	Klimovsky Vladimir – C
Poster sessions	E, H	C, D, F, G, O, P			K, L, M, N, Q, R, T	A, B, J, S

- | | | |
|---|---|--|
| A. Chemical Thermodynamics | G. Organic Physical Chemistry | M. Complex Compounds |
| B. Spectroscopy Molecular Structure Physical Chemistry of Plasma | H. Material Science | N. General Physical Chemistry |
| C. Kinetics, Catalysis | I. Physical Chemistry of Condensed Phases, Solid State and Fluids | O. Pharmaceutical Physical Chemistry |
| D. Nonlinear Dynamics, Oscillatory Reactions, Chaos | J. Macromolecular Physical Chemistry | P. Food Physical Chemistry |
| E. Electrochemistry | K. Environmental Protection, Forensic Sciences, Geophysical Chemistry, Radiochemistry, Nuclear Chemistry | Q. Physico-Chemical Analysis |
| F. Biophysical Chemistry, EPR Investigations of bio-systems | L. Phase Boundaries, Colloids, Liquid Crystals, Surface-active substances | R. Photochemistry, Radiation Chemistry, Photonics |
| | | S. Free Topic |
| | | T. Education, History |

Registration

The registration desk will be located in front of the Belgrade Panorama Hall (6th floor) and will be open throughout the entire Conference.

Abbreviations

PL – Plenary Lecture
SL – Section Lecture
O – Oral Presentation
P – Poster Presentation

Topic

A – Chemical Thermodynamics
B – Spectroscopy, Molecular Structure, Physical Chemistry of Plasma
C – Kinetics, Catalysis
D – Nonlinear Dynamics, Oscillatory Reactions, Chaos
E – Electrochemistry
F – Biophysical Chemistry, EPR investigations of bio-systems
G – Organic Physical Chemistry
H – Material Science
I – Physical Chemistry of Condensed Phases, Solid State and Fluids
J – Macromolecular Physical Chemistry
K – Environmental Protection, Forensic Sciences, Geophysical Chemistry, Radiochemistry, Nuclear Chemistry
L – Phase Boundaries, Colloids, Liquid Crystals, Surface-Active Substances
M – Complex Compounds
N – General Physical Chemistry
O – Pharmaceutical Physical Chemistry
P – Food Physical Chemistry
Q – Physico-Chemical Analysis
R – Photochemistry, Radiation Chemistry, Photonics
Q – Free Topic
T – Education, History

Invited lecturers

- PL-01** **Pier Luigi Gentili**, Department of Chemistry, Biology, and Biotechnology, Università Degli Studi di Perugia, Italy.
- PL-02** **Gábor Lente**, University of Pécs, Faculty of Natural Sciences, Department of Physical Chemistry and Materials Science, Pécs, Hungary.
- PL-03** **Sibel A. Ozkan**, Ankara University, Faculty of Pharmacy, Department of Analytical Chemistry, Türkiye.
- PL-04** **Andrew H. A. Clayton**, Optical Sciences Centre, Department of Physics and Astronomy, School of Science, Computing and Emerging Technologies, Swinburne University of Technology, Australia.
- PL-05** **Tatjana N. Parac-Vogt**, Department of Chemistry, KU Leuven, Belgium.
- PL-06** **István. Z. Kiss**, Department of Chemistry, Saint Louis University, USA.
- B-08-SL** **Sho Oasa**, Department of Clinical Neuroscience, Karolinska Institutet, Sweden.
- B-09-SL** **Dušan P. Malenov**, University of Belgrade, Faculty of Chemistry, Serbia.
- C-01-SL** **Guy Schmitz**, Université Libre de Bruxelles, Ecole Polytechnique, 4MAT Department, Belgium.
- C-02-SL** **Katalin Ősz**, University of Pécs, Faculty of Sciences, Institute of Chemistry, Hungary.
- C-13-SL** **Attila K. Horváth**, Department of General and Inorganic Chemistry, Institute of Chemistry, Faculty of Sciences, University of Pécs, Hungary.
- D-01-SL** **Andrei Novikov**, Gubkin University, Physical and Colloid Chemistry Department, Russia.
- D-04-SL** **Igor Schreiber**, Department of Adaptive Biotechnologies, Global Change Research Institute, Academy of Sciences of the Czech Republic; Department of Chemical Engineering, University of Chemistry and Technology, Czech Republic.
- D-05-SL** **Darío Martín Escala Vodopivec**, NonLinear Physical Chemistry Unit (NLPC), Université libre de Bruxelles (ULB), Belgium.
- D-06-SL** **Dezső Horváth**, Department of Applied and Environmental Chemistry, University of Szeged, Hungary.
- D-07-SL** **Ágota Tóth**, Department of Physical Chemistry and Materials Science, University of Szeged, Hungary.
- D-08-SL** **Marek Orlik**, University of Warsaw, Faculty of Chemistry, Poland.
- D-09-SL** **Luka Negrojević**, Nonlinear Physical Chemistry Unit, Université libre de Bruxelles (ULB), Belgium; Stratingh Institute for Chemistry, University of Groningen, The Netherlands.
- E-09-SL** **Magdalena Streckova**, Institute of Materials Research, Slovak Academy of Sciences, Slovak Republic.
- E-10-SL** **Elmar C. Fuchs**, Wetsus – Centre of Excellence for Sustainable Water Technology, The Netherlands.
- F-03-SL** **Ivan Bobrinetskiy**, Moscow Institute of Physics and Technology, Russia

- F-04-SL*** **Milena Čukić Radeković**, ZHAW Zurich University of Applied Sciences, Switzerland.
- H-27-SL*** **Matej Baláž**, Institute of Geotechnics, Slovak Academy of Sciences, Slovakia.
- H-28-SL*** **Marija Gizdavić-Nikolaidis**, Department of Molecular Medicine and Pathology, Faculty of Medical and Health Sciences, the University of Auckland, New Zealand; University of Belgrade, Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, Serbia.
- H-29-SL*** **Srećko Stopić**, RWTH Aachen University, Faculty of Georesources and Materials Engineering/Institute of Process Metallurgy and Metal Recycling, Germany.
- K-14-SL*** **Nadezda A. Vasilyeva**, Soil Science Institute named after V.V. Dokuchaev, Russian Federation.

Regular lecturers

- C-03-O** **Klimovsky Vladimir**, National University of Oil and Gas «Gubkin University», Russia.
- D-02-O** **Andjelka Hedrih**, Department of Mechanics, Mathematical Institute of Serbian Academy of Sciences and Arts (MI SANU), Serbia.
- E-01-O** **Ahmet Cetinkaya**, University of Health Sciences, Gülhane Faculty of Pharmacy, Department of Analytical Chemistry, Türkiye.
- H-01-O** **Sergey Andreev**, Disinfectology Institute of F.F. Erisman FSCH of Rospotrebnadzor, Chemical department, Russia.
- H-02-O** **Željko Mravik**, Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia, University of Belgrade, Serbia.
- H-03-O** **Sonja Jovanović**, Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia, University of Belgrade, Serbia.
- S-01-O** **Aleksandar Loncar**, Geosciences Rennes, University of Rennes, France.

FINAL PROGRAM

Monday, September 21st

Opening Ceremony

09:00 AM - 10:00 AM

Slobodan Anić

President of the Society of Physical Chemists of Serbia

Željko Čupić

University of Belgrade, Institute of Chemistry, Technology and Metallurgy

Zoran Žujović

Institute of General and Physical Chemistry, Belgrade

Milenko Plavšić,

Engineering Sciences Academy of Serbia, Belgrade, Serbia, Belgrade University, TMF, Belgrade, Serbia.

Chairperson: Željko Čupić

10:00 AM - 10:45 AM **PL-05**

Tatjana N. Parac-Vogt

Artificial enzymes based on metal oxo-clusters: From discrete species to metal-organic frameworks

10:45AM - 11:15 AM

Coffee Break

11:15 AM - 11:45 AM **D-05-SL**

Darío Martín Escala Vodopivec

Dynamics of radial precipitation fronts: From microgravity experiments to numerical modeling

11:45 AM - 12:15 PM **D-09-SL**

Luka Negrojević

Controlling reaction fronts with heterogeneous flow

12:15 PM - 12:30 PM **S-01-O**

Aleksandar Lončar, Eleonora Secchi, Joaquin Jimenez-Martinez, Tanguy Le Borgne, Hervé Tabuteau

Bacterial resilience and dispersal in dynamic oxygen gradients

12:30 PM - 12:45 PM **D-02-O** Michal Wydra, Jelena Maksimović, Ana Ivanović-Šašić, Željko Čupić, Rafal Rusinek, Stevan Maćešić, **Andjelka Hedrih**
Computer vision analysis of spatiotemporal patterns in the Belousov-Zhabotinsky reaction under chemical perturbation

12:45 PM - 2:15 PM *Welcome Cocktail*

2:15 PM - 3:15 PM **POSTER SESSION**

Chairpersons: Jasmina Dimitrić Marković

Electrochemistry (E)
 Material Science (H)

Chairperson: Zorica Mojović

3:15 PM - 3:45 PM **H-29-SL** **Srećko Stopić**, Nenad Nikolić, Dimitrije Andjić, Miroslav Sokić, Bernd Friedrich
Thermal decomposition of titanium ammonium fluoride

3:45 PM - 4:15 PM **F-03-SL** **Ivan Bobrinetskiy**
Electrochemical and field effect transistor aptasensor for real-time carcinoembryonic antigen detection

4:15 PM - 4:45 PM **F-04-SL** **Milena Čukić Radeković**
 (Online)
New advancements in modelling of inhomogeneous physiological structures and associated transport processes of clinical significance

Tuesday, September 22nd

Chairperson: Zoran Jovanović

- | | | |
|---------------------|---------------|--|
| 9:00 AM - 9:45 AM | PL-02 | Gábor Lente
<i>A binomial approach to stochastic chemical kinetics</i> |
| 9:45 AM - 10:30 AM | PL-03 | Sibel A. Ozkan
<i>Nanomaterial-embedded MIP sensors and their future: advanced green strategies for sustainable and rapid analysis</i> |
| 10:30 AM - 10:45 AM | E-01-O | Ahmet Cetinkaya, Sibel A. Ozkan
<i>GO@AuNPs-integrated molecularly imprinted electrochemical sensor for rapid and selective antibiotic detection</i> |
| 10:45 AM-11:15 AM | | Coffee Break |

Chairpersons: Nataša Jović Jovičić

- | | | |
|---------------------|----------------|---|
| 11:15 AM - 11:45 AM | C-02-SL | Ildikó Rapp-Kindner, Leonetta Tóth,
Katalin Ósz
<i>Kinetic study of Ce(IV)-catalyzed photochemical water splitting in acidic media</i> |
| 11:45 AM-12:15 PM | C-13-SL | Ármin Bedő, György Csekő, Attila K. Horváth
<i>Experimental realization of the simplest real chemical hypercycle</i> |
| 12:15 PM-12:45 PM | | Coffee Break |

12:45 PM - 2:15 PM **POSTER SESSION AND SPONSOR
PRESENTATION**

Chairpersons: : Jelena Maksimović

Kinetics, Catalysis	(C)
Nonlinear Dynamics, Oscillatory Reactions, Chaos	(D)
Biophysical Chemistry, EPR Investigations of bio-systems	(F)
Organic Physical Chemistry	(G)
Pharmaceutical Physical Chemistry	(O)
Food Physical Chemistry	(P)

2:15 PM - 3:30 PM **Lunch Break**

Chairperson: Snežana Zarić

3:30 PM - 4:00 PM	B-09-SL	Katarina A. Čeranić, Dušan P. Malenov <i>Orbital interactions in cation-π complexes of organometallic sandwich compounds – the importance of intra-fragment polarizations</i>
4:00 PM - 4:30 PM	K-01-SL	Nadezda A. Vasilyeva , Artem A. Vladimirov, Taras A. Vasiliev, and Ekatarina V. Gracheva <i>AI-agentic system for automated statistical processing of agricultural data with a locally deployed LLM and domain-specific statistical ontology</i>
4:30 PM - 4:45 PM	H-03-O	Sonja Jovanović , Marija Milićević, Zoran Jovanović, Danica Bajuk-Bogdanović, Melita Tramšek, Matjaž Spreitzer, Davide Peddis <i>Key aspects of synthesis and applications of cobalt ferrite nanoparticles</i>

Wednesday, September 23rd

Chairperson: Tihana Mudrinić

8:00 AM - 8:30 AM

E-10-SL

Elmar C. Fuchs

*Collective matter-field dynamics in water
under moderate high-voltage electric fields*

Online Satellite Event

9th WORKSHOP

on

FOOD AND DRUG SAFETY AND QUALITY

September 23, 2026, BELGRADE

<https://fooddrugsafetyquality.com/>

Excursion (Sombor city)



The Prefecture Building



“The Battle of Zenta”, painting by Franz Eisenhut



City Museum

Thursday, September 24th

Chairperson: Tatjana Novaković

9:30 AM - 10:15 AM
(Online)

PL-04

Andrew H. A. Clayton

Polarized phase-sensitive fluorescence image correlation spectroscopy: simultaneous characterization of lifetime heterogeneity and rotational dynamics

10:15 AM - 10:45 AM

B-08-SL

Sho Oasa, Aleksandar Krmpot, Stanko Nikolić, Lars Terenius, Vladana Vukojević

Spatial mapping of quantitative molecular information via massively parallel fluorescence correlation spectroscopy

10:45 AM - 11:15 AM

E-09-SL

Magdalena Streckova, Alexandra Guboova, Tihana Mudrinić

Beyond noble metals: Harnessing multimetallic synergy and morphology for efficient water electrolysis

11:15 AM - 11:45 AM

Coffee Break

Chairperson: Predrag Banković

11:45 AM - 12:15 PM
(Online)

H-28-SL

Marija Gizdavić-Nikolaidis, Juliette Callabat, Hugo Cogne, Kateřina Skopalová, Milena Marinović-Cincović, Darren Svirskis, Věra Kašpárková, Simon Swift, Petr Humpolíček
Sustainable enhanced microwave synthesis of polypyrrole and polypyrrole/chitosan composites: Structural characterisation and antibacterial performance

12:15 PM - 12:45 PM

H-27-SL

Matej Baláž

Tuning reactivity with impact: Sustainable mechanochemical synthesis of materials

12:45 PM - 1:00 PM

H-01-O

Sergey Andreev, Ekaterina Anosova, Evita Kostenko, Alisa Terskova, Varvara Morenova, Sergey Zverev, Andrey Kuzovlev
Thermodiffusion and repellent activity of derivatives of alkyl butyl acetyl aminopropionate

1:00 PM - 1:15 PM **H-02-O** **Željko Mravik**, Marko Jelić, Marija Milićević,
Milica Milanković, Darija Petković, Zoltán
Százraz, Predrag Stolić, Sonja Jovanović, Zoran
Jovanović
*Graphene oxide-based humidity sensors
modified by carbon ion beam irradiation*

1:15 PM - 1:45 PM ***Coffee Break***

1:45 PM - 2:45 PM **POSTER SESSION**
Chairpersons: Aleksandra Rakić

Environmental Protection, Forensic Sciences, Geophysical Chemistry, Radiochemistry, Nuclear Chemistry	(K)
Phase Boundaries, Colloids, Liquid Crystals, Surface-active Substances	(L)
Complex Compounds	(M)
General Physical Chemistry	(M)
Physico-Chemical Analysis	(Q)
Photochemistry, Radiation Chemistry, Photonics	(R)
Education, History	(T)

FREE AFTERNOON

Friday, September 25th

Chairperson: Ana Ivanović-Šašić

- | | | |
|--------------------------------|--------------|--|
| 9:00 AM - 9:45 AM | PL-06 | István. Z. Kiss
<i>Network electrochemistry: synchronization and emergent collective dynamics of electrochemical reactions</i> |
| 9:45 AM - 10:30 AM
(Online) | PL-01 | Pier Luigi Gentili
<i>An unconventional pathway to develop artificial intelligence: the chemical AI</i> |

10:30 AM – 11:00 AM **Coffee Break**

Chairperson: Stevan Maćešić

- | | | |
|---------------------|----------------|--|
| 11:00 AM - 11:30 AM | D-06-SL | Stevan Maćešić, Dezső Horváth , Ágota Tóth
<i>Oxidation and reduction fronts in reversible redox autocatalytic networks</i> |
| 11:30 AM - 12:00 PM | D-07-SL | Júlia Katona, Bálint Gárdi, Réka Zahorán, Pawan Kumar, Dezső Horváth, Ágota Tóth
<i>Collective dynamics of soft polysaccharide motors</i> |
| 12:00 PM - 12:30 PM | D-08-SL | Marek Orlik , Mateusz Thomas, Maria Popławska, and Przemysław Oliwa
<i>Recent developments in experimental and numerical studies of the hydrogen peroxide-thiocyanate-based chemical oscillators</i> |

12:30 PM – 1:00 PM **Coffee Break**

1:00 PM - 2:00 PM **POSTER SESSION**

Chairpersons: Bojana Marković

- | | |
|--|------------|
| Chemical Thermodynamics | (A) |
| Spectroscopy Molecular Structure, Physical Chemistry of Plasma | (B) |
| Macromolecular Physical Chemistry | (J) |
| Free Topic | (S) |

2:00 PM - 3:30 PM **Lunch Break**

Chairperson: Maja Pagnacco

- | | | |
|-------------------|----------------|---|
| 3:30 PM - 4:00 AM | D-04-SL | Igor Schreiber , Jan Červený
<i>Metabolic oscillations in cyanobacteria – a detailed model</i> |
| 4:00 PM - 4:30 PM | D-01-SL | Andrei Novikov
<i>Formation of the turing patterns in the Gray-Scott reaction-diffusion model initialized with uniform reactants concentrations with random noise</i> |
| 4:30 PM - 4:45 PM | C-03-O | Klimovsky Vladimir , Zasypalov Gleb, Abramov Egor and Alexandr Glotov
<i>Hydrodeoxygenation of eugenol over Ru-catalysts supported on halloysite nanotubes</i> |

Closing session

- | | |
|-------------------|--|
| 4:45 PM - 5:00 PM | Slobodan Anić
President of the Society of Physical Chemists of Serbia |
| | Željko Čupić
University of Belgrade, Institute of Chemistry, Technology and Metallurgy |

POSTERS

(A) CHEMICAL THERMODYNAMICS	
A-01-P	Daniela Ž. Popović, Teodora Adamović, and Jelena Miladinović <i>SOLUBILITY IN THE $\text{Na}_2\text{HPO}_4(\text{aq})$ SYSTEM DETERMINED BY THE ISOPIESTIC METHOD AT 298.15 K</i>
(B) SPECTROSCOPY, MOLECULAR STRUCTURE, PHYSICAL CHEMISTRY OF PLASMA	
B-01-P	Svetlana Mičić, Slavica Blagojević, and Nataša Pejić <i>DIRECT SPECTROPHOTOMETRIC DETERMINATION OF α-TOCOPHERYL ACETATE IN PHARMACEUTICAL SOFTGEL CAPSULE</i>
B-02-P	Slavica Blagojević, Dimitrije Mara, Milica Čalić, Dora Dodig, Nataša Pejić, and Tomislav Tosti <i>SPECTROFLUORIMETRIC DETERMINATION OF CONTENT OF α - TOCOPHERYL ACETATE IN DIETARY SUPPLEMENTS</i>
B-03-P	Aleksandra Šajić, Miroslav Ristić, Dragan Ranković, Milica Marković, and Miroslav Kuzmanović <i>ELECTRON DENSITY DETERMINATION IN LASER ABLATED PLASMA OF GLASS</i>
B-04-P	Milica G. Nikolić and Goran M. Nikolić <i>SPECTROPHOTOMETRIC ASSESSMENT OF MAGNESIUM ION INFLUENCE ON THE PYROGALLOL AUTOXIDATION IN ALKALINE AQUEOUS SOLUTION</i>
B-05-P	Milica Marković, Aleksandra Šajić, Dušan Dimić, Miroslav Ristić, Aleksandar Joksimović, and Miroslav Kuzmanović <i>FORENSIC ANALYSIS OF HEAT-INDUCED STRUCTURAL CHANGES IN PIG BONE USING FTIR AND LIBS SPECTROSCOPY</i>
B-06-P	Stefan Perendija, Dejan Milenković, Dušan Dimić, Goran Kaluđerović, and Jasmina Dimitrić-Marković <i>SPECTROFLUORIMETRIC AND MOLECULAR DOCKING STUDY OF BIOMOLECULAR BINDING OF A RUTHENIUM(II)-ARENE COMPLEX CONTAINING 1-PYRENECARBALDEHYDE HYDRAZONE LIGAND</i>
B-07-P	Aleksandra Rakić, Kende Attila Béres, László Kótai, Jasmina Dimitrić-Marković, and Dušan Dimić <i>THE EFFECT OF COORDINATED CHROMATE ION ON THE HSA BINDING AFFINITY OF [PENTAAMMINECHROMATOCOBALT(III)] COMPLEXES</i>

(C)	KINETICS, CATALYSIS
C-04-P	Maya Shopska , Martin Fabian, Krasimir Tenchev, Iliyana Yordanova, and Simona Delibaltova <i>EFFECT OF COBALT-PALLADIUM CATALYST PRECURSORS MECHANICAL ACTIVATION ON BEHAVIOUR IN CO HYDROGENATION</i>
C-05-P	Sanja Marinović , Tihana Mudrinić, Gordana Stevanović, Ksenija Milošević, Hristina Šalipur, and Tatjana Novaković <i>THE EFFECT OF TEMPERATURE AND COEXISTING IONS ON ORANGE G DEGRADATION USING COBALT DOPED PSEUDOBUEHMITE CATALYST</i>
C-06-P	Hristina Šalipur , Jasmina Dostanić, Anže Prašnikar, Matej Huš, Blaž Likozar, and Davor Lončarević <i>EFFECT OF ALCOHOL STRUCTURE ON PHOTOCATALYTIC HYDROGEN PRODUCTION OVER PLATINUM-DECORATED NITROGEN-DOPED TITANATE CATALYST</i>
C-07-P	Jovan Parlić , Marija Ajduković, Sanja Marinović, Predrag Banković, and Nataša Jović-Jovičić <i>LOW-COBALT-CONTENT Co-Al-CARBON-SMECTITE HYBRID CATALYST FOR HETEROGENEOUS ACTIVATION OF OXONE® IN THE DEGRADATION OF BASIC BLUE 41 IN AQUEOUS SOLUTION</i>
C-08-P	Hristina Šalipur , Ksenija Milošević, Florian Wolf, and Jenny Schneider <i>DESIGN OF Co-Mo/BiVO₄ HETEROSTRUCTURES FOR ENHANCED PHOTOCATALYTIC REMOVAL OF ORGANIC POLLUTANTS</i>
C-09-P	Pablo Rodríguez Miguel, Zorica Mojović, Nataša Jović-Jovičić, Predrag Banković, Alejandro Jiménez, Raquel Trujillano, Miguel Ángel Vicente, and Marija Ajduković <i>OXONE®-ACTIVATED DEGRADATION OF CIPROFLOXACIN USING SYNTHETIC SAPONITES</i>
C-10-P	Sara Marinković, Branislav Stanković , Jasmina Grbović Novaković, Nenad Filipović, Ljubisav Stamenić, Nebojša Manić, and Ana Vujačić Nikezić <i>IMPACT OF MECHANOCHEMICAL ACTIVATION ON DEHYDROXYLATION KINETICS OF SILVER-DOPED PYROPHYLLITE</i>
C-11-P	Lubov D. Zatsepina , Maria I. Rubtsova, and Aleksandr P. Glotov <i>HYDROISOMERIZATION OF n-HEXADECANE OVER BIZEOLITE SAPO-11+SAPO-31 SUPPORTED Pt CATALYST</i>
C-12-P	Vojkan Radonjić , Davor Lončarević, Dimitrinka Nikolova, Margarita Gabrovska, Tsvetomila Parvanova-Mancheva, Marija Ristić, and Jugoslav Krstić <i>KINETIC ANALYSIS OF PARTIAL SUNFLOWER OIL HYDROGENATION OVER MgNi/PERLITE CATALYSTS: EFFECTS OF REDUCTION TEMPERATURE</i>

(D)	NONLINEAR DYNAMICS, OSCILLATORY REACTIONS, CHAOS
D-03-P	Stevan Maćešić , Ana Ivanović-Šašić, Slobodan Anić, and Željko Čupić <i>MODELING OSCILLATORY DYNAMICS OF AN AUTOCATALYTIC REACTION MODEL VIA PARAMETRIC NEURAL NETWORKS</i>
(E)	ELECTROCHEMISTRY
E-02-P	Zorica Mojović and Tatjana Novaković <i>THE EFFECT OF THE CALCINATION PROCEDURE ON THE ELECTROCHEMICAL RESPONSE OF CARBON–ALUMINA ELECTRODES TO PENDIMETHALIN</i>
E-03-P	Mara Aleksić and Aleksandra Ilić <i>SQUARE WAVE VOLTAMMETRIC METHOD FOR INVESTIGATION OF GEFITINIB BEHAVIOR AT DNA-MODIFIED GLASSY CARBON ELECTRODE</i>
E-04-P	Mara Aleksić and Aleksandra Ilić <i>ELECTROCHEMICAL STUDY OF TWO SIRT2 INHIBITORS OXIDATION BEHAVIOR AND INTERACTION WITH DNA</i>
E-05-P	Mara Aleksić , Nataša Vučković, and Vladimir Dobričić <i>DIFFERENTIAL PULSE VOLTAMMETRIC METHOD FOR INVESTIGATION OF THIOUREA DERIVATIVE OF NAPROXEN INTERACTION WITH HUMAN SERUM ALBUMIN IN THE PRESENCE OF DMSO</i>
E-06-P	Mina Seović, Snežana Brković, Ivana Perović, Dragana Jugović, Jadranka Miletić Vukajlović, Petar Laušević, and Stefan Mitrović <i>CATALYST FROM RECYCLED CPUs AND BIOMASS FOR SUPERCAPACITORS</i>
E-07-P	Mikhail Kovtunov , Maksim Zagvozkin, and Sergey Kudryashov <i>DIELECTRIC BARRIER DISCHARGE OXIDATION OF TETRAHYDROFURAN TO GAMMA-BUTYROLACTONE</i>
E-08-P	David Tomić , Meryem Samancı, Catarina Rodrigues, Marta Martins, Kristina Radinović, Jadranka Milikić, Ayse Bayrakçeken, Biljana Šljukić, and Diogo M.F. Santos <i>Ni-Fe DOPED GRAPHENE AEROGELS AS EFFICIENT ELECTROCATALYSTS FOR TWO-ELECTRON OXYGEN REDUCTION REACTION</i>

(F) BIOPHYSICAL CHEMISTRY, EPR INVESTIGATIONS OF BIO-SYSTEMS	
F-01-P	Đura Nakarada, Marina Stamenković, Marko Panić, Luka Dragačević, Emina Milošević, Aleksandar Paunić, Aleksandra Pavićević, Dušan Mladenović, Verica Paunović, Tamara Martinović, Ivana Lukić, Milan Kojić, Vladimir Trajković, and Miloš Mojović <i>SYNTHESIS AND CHARACTERIZATION OF LIPID NANOPARTICLES CONTAINING GFP mRNA</i>
F-02-P	Stefana Dejković, Đura Nakarada, Marko Daković, and Miloš Mojović <i>EPR STUDY OF THE RADICAL-SCAVENGING POTENTIAL OF ROOT, STEM, AND LEAF EXTRACTS OF <i>Arum maculatum</i></i>
(G) ORGANIC PHYSICAL CHEMISTRY	
G-01-P	Alexander Knyazev, Daniil Zhokhov, Anastasia Shipilova, Olga Druzhkova, Svetlana Knyazeva, and Natalia Pimanova <i>PHYSICOCHEMICAL PROPERTIES OF HYDROXYPROPYL METHYLCELLULOSE - A COMPONENT OF BUILDING MIXTURES</i>
(H) MATERIAL SCIENCE	
H-04-P	Maja Krstić, Zorana Rogić Miladinović, Anđelka Stolić, Jelena Filipović Tričković, and Edin Suljovrujić <i>GAMMA RADIATION SYNTHESIS OF THERMOSENSITIVE P(OPGMA/IA) HYDROGELS: EFFECT OF COMONOMER COMPOSITION ON SWELLING AND GENOTOXICITY</i>
H-05-P	Anita Mladenović, Zorana Rogić Miladinović, Jelena Potočnik, Anđelka Stolić, Zorka Stanić, and Edin Suljovrujić <i>THERMORESPONSIVE PNIPAM HYDROGELS SYNTHESIZED BY LOW-DOSE GAMMA RADIATION: EFFECT OF CROSSLINKER ON SWELLING AND MORPHOLOGY</i>
H-06-P	Anita Mladenović, Zorana Rogić Miladinović, Jelena Filipović Tričković, Maja Krstić, Zorka Stanić, and Edin Suljovrujić <i>TUNING PNIPAM HYDROGEL PROPERTIES THROUGH GAMMA IRRADIATION DOSE: GEL FRACTION, SWELLING, AND BIOCOMPATIBILITY</i>
H-07-P	Gordana Stevanović, Jovan Parlić, Marija Ajduković, Zorica Mojović, Natalia Czerwinska, Chiara Giosuè, Maria Letizia Ruello, and Nataša Jović-Jovičić <i>SYNTHESIS AND CHARACTERIZATION OF BIOCHAR-BASED ADSORBENTS FOR THE REMOVAL OF THE AZO DYES FROM WASTEWATER</i>
H-08-P	Varvara Morenova, Sergey Zverev, Evita Kostenko, Ekaterina Anosova, Alisa Terskova, and Sergey Andreev

- NOVEL REPELLENT MATERIALS BASED ON DERIVATIVES OF ALKYL BUTYL ACETYL AMINOPROPIONATE*
- H-09-P** **Ralitsa Mladenova**, Mariela Dimitrova, Irina Stambolova, and Daniela Stoyanova
- PHASE STRUCTURE AND DEFECTS OF BIO-SYNTHESIZED ZrO_2 - CeO_2 SYSTEM*
- H-10-P** **Una Stamenović**, Dijana Mašojević, Vesna Vodnik, Dušan Mladenović, Tanja Barudžija, Mojca Otoničar, Milovan Stoilković, Jelena Spasojević, Ivana Vukoje, and Biljana Šljukić
- ELECTROCATALYTIC PERFORMANCE OF GREEN-SYNTHESIZED SILVER-POLYPYRROLE NANOCOMPOSITES*
- H-11-P** **Danijela Smiljanić**, Katarina Stanković, Đorđe Petrović, Ivan Dimitrijević, Milena Obradović, Bruno de Gennaro, and Ksenija Kumrić
- PREPARATION AND CHARACTERIZATION OF CHITOSAN/SURFACTANT-MODIFIED PHILLIPSITE COMPOSITE FOR CONGO RED REMOVAL*
- H-12-P** **Zorica Eraković**, Snežana Ilić-Stojanović, Danijela Smiljanić, Katarina Stanković, Ksenija Kumrić, and Đorđe Petrović
- EFFECT OF SYNTHESIS METHODS ON UREA-FUNCTIONALIZED CHITOSAN HYDROGELS FOR DYE REMOVAL*
- H-13-P** Katarina Stanković, **Danijela Smiljanić**, Igor Telečki, Đorđe Petrović, Jelena Potočnik, and Ksenija Kumrić
- GLUTARALDEHYDE-CROSSLINKED CHITOSAN/CELLULOSE HYDROGEL BEADS FOR HEAVY METAL REMOVAL: STRUCTURAL CHARACTERIZATION AND BATCH ADSORPTION EVALUATION*
- H-14-P** Milena Pijović Radovanović, **Stefan Mitrović**, Jelena Georgijević, Mina Seović, Petar Laušević, Ivana Perović, and Snežana Brković
- LOW-COST BIOMASS-DERIVED ACTIVATED CARBONS FOR EFFICIENT Pb^{2+} REMOVAL: INFLUENCE OF ACTIVATION STRATEGY*
- H-15-P** Bojana Ilić, **Stefan Mitrović**, and Jadranka Miletić Vukajlović
- SURFACE COATING TECHNOLOGIES AND FUNCTIONAL COATINGS FOR ORTHODONTIC ARCHWIRES: A REVIEW*
- H-16-P** Nikolay Brezhnev, Andrew Kosyakov, Alexey Teslenko, Karina Chunta, Elizabeth Tyurina, and **Alexander Zavrazhnov**
- A NOVEL SYNTHESIS OF METAL SULFIDES (Ga_2S_3 AND FeS_2)*
- H-17-P** **Jelena Spasojević**, Nikolina Radojković, Ivana Vukoje, Milica Milošević, Milica Carević, and Aleksandra Radosavljević
- FROM MONO- TO BILAYER SYSTEMS: PHYSICOCHEMICAL INSIGHTS INTO Au - $PNiPAAm$ AND Au - $PNiPAAm$ /PVA HYDROGEL NANOCOMPOSITES*

- H-18-P** **Zvezdana Sandić**, Tamara Tadić, Aleksandra Nastasović, Katarina Dodik, Sandra Bulatović, Natalija Nedić, and Bojana Marković
CHEMICAL, MORPHOLOGICAL, THERMAL, AND ELECTRICAL PROPERTIES OF A NOVEL GOLD-DECORATED GMA-BASED COMPOSITE
- H-19-P** **Anna Vasileva**, Kaloyan Ivanov, Christina Koutsoukou, Anastasia-Maria Moschovi, Iakovos Yakoumis, Daniela Paneva, and Zara Cherkezova-Zheleva
MECHANOCHEMICAL REDUCTION OF PtO₂ TO NANOCRYSTALLINE Pt USING FORMIC ACID
- H-20-P** Nevena Surudžić, Radivoje Prodanović, Milica Spasojević Savković, **Miloš Prokopijević**, Dragica Spasojević, Mira Stanković, and Olivera Prodanović
PERIODATE-MEDIATED HRP IMMOBILIZATION ON MACROPOROUS COPOLYMERS: SYNTHESIS AND STABILITY ANALYSIS
- H-21-P** **Anna Vasileva**, Kaloyan Ivanov, Sıddıka Mertdinç-Ülküseven, İlayda Süzer-Çiçek, Duygu Ağaoğulları, Daniela Paneva, and Zara Cherkezova-Zheleva
IMPACT OF MECHANOCHEMICAL ACTIVATION ON THE METASTABLE STATES AND PHOTOCATALYTIC PERFORMANCE OF AMORPHOUS HIGH-ENTROPY ALLOY RIBBONS
- H-22-P** Maja Kokunešoski, Jovana Ružić, and **Marija Ječmenica Dučić**
AUTOMATED MATLAB-BASED IMAGE ANALYSIS FOR PORE STRUCTURE CHARACTERIZATION OF CLAY-BASED POROUS CERAMICS
- H-23-P** **Dragica Spasojević**, Olivera Prodanović, Miloš Prokopijević, Nevena Surudžić, Miljan Barić, Jasna Simonović Radosavljević, and Radivoje Prodanović
SYNTHESIS AND CHARACTERIZATION OF A SMART CELLULOSE-BASED HYDROGEL
- H-24-P** **Miloš Kostić**, Milan Momčilović, Slobodan Najdanović, Milica Petrović, Nena Velinov Georgiev, Kristina Filipović, and Aleksandar Bojić
SORPTION OF REACTIVE BLUE 19 BY CARBONATE-INTERCALATED LAYERED DOUBLE HYDROXIDE: INFLUENCE OF pH AND KINETIC STUDIES
- H-25-P** Milan Momčilović, Slobodan Najdanović, **Miloš Kostić**, Miljana Radović Vučić, Nena Velinov Georgiev, Jelena Mitrović, Aleksandar Bojić
ACTIVATED CARBON DERIVED FROM Pinus nigra CONES: SYNTHESIS AND STRUCTURAL CHARACTERIZATION

- H-26-P** Slobodan Najdanović, **Miloš Kostić**, Milan Momčilović, Milica Petrović, Jelena Mitrović, Miljana Radović Vučić, and Aleksandar Bojić
A KINETIC STUDY OF REACTIVE ORANGE 16 REMOVAL BY A BASIC BISMUTH NITRATE SORBENT

(J) MACROMOLECULAR PHYSICAL CHEMISTRY

- J-01-P** **Ivan S. Stefanović**, Miloš Vorkapić, and Jasna V. Džunuzović
THE INFLUENCE OF COLOR ADITIVES ON THE STRUCTURE AND THERMAL PROPERTIES OF POLY(LACTIC ACID)
- J-02-P** **Ivan S. Stefanović**, Jasna V. Džunuzović, and Enis S. Džunuzović
THE SYNTHESIS AND STRUCTURE OF THE WATERBORNE POLYURETHANE-UREAS BASED ON POLYCAPROLACTONE
- J-03-P** Jasna V. Džunuzović, **Slobodan Jovanović**, Enis S. Džunuzović, and **Ivan S. Stefanović**
RHEOLOGICAL PROPERTIES OF HYPERBRANCHED POLYESTERS
- J-04-P** **Milanka M. Plavšić** and Milenko B. Plavšić
ENERGETICS OF POLYMER NANO-PARTICLES UPTAKE BY CELLS: I. The scaling theory approach to transport phenomena at living cell level
- J-05-P** **Milanka Plavšić**
ENERGETICS OF POLYMER NANO-PARTICLES UPTAKE BY CELLS: II. The kinetics of cells uptake of drugs, in some aspects of membrane liquid crystalline states theory
- J-06-P** **Milanka M. Plavšić**
ENERGETICS OF POLYMER NANO-PARTICLES UPTAKE BY CELLS: III. Some thermodynamic aspects of cell uptake mechanisms

(K) ENVIRONMENTAL PROTECTION, FORENSIC SCIENCES, GEOPHYSICAL CHEMISTRY, RADIOCHEMISTRY, NUCLEAR CHEMISTRY

- K-01-P** Tijana Radojičić, Biljana Tubić, Marina Maletić, Katarina Trivunac, Miloš Simić, Milena Milošević, Aleksandra Perić Grujić, and **Marija Vukčević**
ACTIVATED FLAX FIBERS/FLY ASH ADSORBENTS FOR HEAVY METAL REMOVAL FROM WATER
- K-02-P** Marina Maletić, **Marija Vukčević**, Irina Miletić, Danica Janković, Aleksandra Perić Grujić, and Katarina Trivunac
SURFACE-MODIFIED DIATOMACEOUS EARTH AS A LOW-COST ADSORBENT FOR CATIONIC DYE REMOVAL
- K-03-P** **Vladimir Šaraba**, Dajana Lazarević, Jelena Jovanović, Igor Kodranov, Dragan Manojlović, Tatjana Trtić-Petrović, and Goran Janjić
INVESTIGATION OF GEOCHEMICAL SULFATE INTERACTIONS WITH NATURE-BASED SILICATE

- GEOMATERIALS IN SURFACE WATERS: LEACHING VERSUS SORPTION*
- K-04-P** **Branka Lončarević**, Aleksandra Žerađanin, Marija Lješević, Kristina Joksimović, Itana Nuša Bubanja, Kristina Kasalica, and Vladimir P. Beškoski
*MONITORING THE EFFECTS OF PFAS CHEMICALS ON PHOTOSYNTHESIS AND CELLULAR RESPIRATION OF WHEAT (*Triticum aestivum* L.) USING THE COLUMBUS MICRO-OXYMAX RESPIROMETER*
- K-05-P** **Sandra Bulatović**, Natalija Nedić, Bojana Marković, Tamara Tadić, Aleksandra Nastasović, and Zvezdana Sandić
A COMPARATIVE BIOSORPTION OF TOLUIDINE BLUE WITH AMBROSIA-BASED BIOSORBENTS
- K-06-P** **Tamara Tadić**, Ljiljana Suručić, Zvezdana Sandić, Sandra Bulatović, Natalija Nedić, Aleksandra Nastasović, and Bojana Marković
NON-LINEAR REGRESSION ANALYSIS OF SELENIUM SORPTION ONTO AMINO-MODIFIED GMA-BASED NANOCOMPOSITE: KINETIC AND EQUILIBRIUM STUDY
- K-07-P** Ivana Smičiklas, **Aleksandar Čupić**, Boško Gajić, Mihajlo Jović, Milan Đorđević, Mrđan Đokić, Miloš Manić, and Snežana Dragović
DEPTH DISTRIBUTION OF SOIL PROPERTIES IN SILTY LOAM SOIL IN RELATION TO LONG-TERM WATER EROSION ASSESSED BY ¹³⁷Cs
- K-08-P** Miljan Vilimonović, **Jelena Vesković**, Milica Lučić, Andrijana Okolišan, Marija Vesković, and Antonije Onjia
EVALUATION OF HEALTH RISKS ASSOCIATED WITH HEAVY METALS IN SURFACE WATER OF THE OBRENOVAC AREA
- K-09-P** **Marija Vesković**, Andrijana Okolišan, Milica Lučić, Jelena Vesković, Miljan Vilimonović, and Antonije Onjia
MULTIVARIATE ANALYSIS OF RIVER SEDIMENT IN THE VICINITY OF NOVI PAZAR, SERBIA
- K-10-P** **Milan Tanić** and Mladen Nikolić
DIURNAL AND SEASONAL DYNAMICS OF AMBIENT GAMMA DOSE RATE AND ITS RELATIONSHIP WITH METEOROLOGICAL PARAMETERS AND PARTICULATE MATTER IN KRUŠEVAC, SERBIA
- K-11-P** **Milan Tanić**, Denis Dinić, Antonije Onjia, and Stevan Stupar
RADIOLOGICAL HAZARD IN SOILS AFFECTED BY NORM RESIDUES FROM THE PHOSPHATE INDUSTRY: PRAHOVO, SERBIA
- K-12-P** Lucian Alexandru Constantin and Mirela Alina Constantin
A LAB SCALE STUDY ON ORGANIC LOADING REMOVAL FROM REAL MUNICIPAL WASTEWATER USING AN SOLAR PHOTOCATALYTIC MEMBRANE REACTOR

K-13-P	Mirela Alina Constantin , Adriana Cuciureanu, Georgiana Cernica, and Lucian Alexandru Constantin <i>STUDY ON MUNICIPAL MIXED SOLID WASTE TRANSFORMATION TO REFUSE DERIVED FUEL AS AN ALTERNATIVE FOR ENERGY PRODUCTION</i>
(L)	PHASE BOUNDARIES, COLLOIDS, LIQUID CRYSTALS, SURFACE-ACTIVE SUBSTANCES
L-01-P	Slavica Blagojević, Nataša Pejić, Tamara Attard, Everaldo Attard, and Stevan Blagojević <i>ENHANCEMENT OF ALKALINE DEGREASING PERFORMANCE BY ADDITION OF LAURYLAMINE OXIDE AND NONIONIC SURFACTANT</i>
(M)	COMPLEX COMPOUNDS
M-01-P	Branka Dražić , Mirjana Antonijević Nikolić, Vojislav Stanić, and Slađana Tanasković <i>PREPARATION OF NEW MIXED LIGAND Lu(III) COMPLEX</i>
M-02-P	Saša Terek and Milan Milovanović <i>DFT AND MOLECULAR DOCKING STUDY OF THE INTERACTION OF Mo, Ru, AND Os PHENANTHROLINE COMPLEXES WITH DNA</i>
M-03-P	Sonja S. Zrilić, Jelena P. Blagojević-Filipović, and Snežana D. Zarić <i>CH/O HYDROGEN BONDS OF 1,10-PHENANTHROLINE AND ITS TRANSITION METAL COMPLEXES: QTAIM ANALYSIS</i>
M-04-P	Sonja S. Zrilić, Mila B. Stojanović, Milan R. Milovanović, and Snežana D. Zarić <i>QTAIM ANALYSIS OF INTERACTIONS IN HYDROQUINONE DIMER</i>
M-05-P	Sonja S. Zrilić and Snežana D. Zarić <i>THE STRENGTH OF EXPERIMENTAL CH/O HYDROGEN BONDS OF COORDINATED 1,10-PHENANTHROLINE WITH WATER</i>
(N)	GENERAL PHYSICAL CHEMISTRY
N-01-P	Katarina Stojanović , Danka Aćimović, Marija Simić, Branislava Savić Rosić, Marija Kovačević, Tanja Brdarić, and Marija Ječmenica Dučić <i>ELECTROCHEMICAL DEGRADATION OF IBUPROFEN USING SnO₂-MWCNT@SS ANODE: KINETICS OF A DECAYING RATE CONSTANT</i>
N-02-P	Katarina Stojanović , Marija Simić, Marija Kovačević, Danka Aćimović, Branislava Savić Rosić, Miljana Mirković, and Tanja Brdarić <i>WASTE TO FUNCTION: ELECTROCHEMICAL PERFORMANCE OF THERMALLY CONVERTED PHARMACEUTICAL RESIDUES</i>

- N-03-P** **Katarina Stojanović**, Marija Simić, Branislava Savić Rosić, Marija Kovačević, Tanja Brdarić, Marija Ječmenica Dučić, and Danka Aćimović
DETERMINATION OF NAPROXEN IN WASTEWATER BY GC-MS USING TRIMETHYLSILYL DERIVATIVES
- N-04-P** Mira Stanković, Dragana Bartolić, **Miloš Prokopijević**, Nevena Surudžić, Olivera Prodanović, and Branko Šikoparija
*INFLUENCE OF STORAGE CONDITIONS ON THE FLUORESCENCE RESPONSE OF WALNUT (*Juglans regia* L.) POLLEN*
- N-05-P** **Filip Veljković**, Marija Milićević, Sonja Jovanović, Zoran Jovanović, and Suzana Veličković
LASER DESORPTION/IONIZATION MASS SPECTROMETRY FOR THE ANALYSIS OF OLEIC ACID-FUNCTIONALIZED CoFe₂O₄ NANOPARTICLES

(O) PHARMACEUTICAL PHYSICAL CHEMISTRY

- O-01-P** Aleksandra Ilić, Marija Popović Nikolić, and **Katarina Nikolić**
ELECTRONIC PROPERTIES AND REACTIVITY OF GEFITINIB, AKG2 AND SirReal2: A DFT APPROACH
- O-02-P** Marija Popović Nikolić, Nenad Filipović, and **Katarina Nikolić**
DFT INSIGHT INTO THE ELECTRONIC PROPERTIES OF THIOSEMICARBAZONE-BASED COMPOUNDS
- O-03-P** Alen Čebzan, Marija Popović Nikolić, Slavica Oljačić, and **Branislav Stanković**
IN SILICO MODELLING OF HDAC3 AND HDAC6 INHIBITORS
- O-04-P** **Branislav Stanković**, Alen Čebzan, and Katarina Nikolić
MACHINE LEARNING-BASED MODELING OF SELECTIVE CLASS IIA HDAC INHIBITORS
- O-05-P** **Jelena Martinovic**, Tamara Radukic, and Marina Zaric Kontic
NEUROADAPTIVE CHANGES IN THE RAT PREFRONTAL CORTEX FOLLOWING ZALEPLON WITHDRAWAL: BEHAVIORAL AND MOLECULAR EVIDENCE
- O-06-P** Tamara Radukic, Jelena Martinovic, Milica Zeljkovic Jovanovic, Danica Popovic, Milorad Dragic, and **Marina Zaric Kontic**
NEUROSYNAPTIC REMODELLING IN THE AMYGDALA DURING BENZODIAZEPINE WITHDRAWAL: EVIDENCE FROM AN ALPRAZOLAM DISCONTINUATION MODEL IN FEMALE WISTAR RATS
- O-07-P** **Tamara Radukic**, Jelena Martinovic, Milica Zeljkovic Jovanovic, Milorad Dragic, Danica Popovic, and Marina Zaric Kontic
REGION-SPECIFIC DENDRITIC SPINE REMODELING IN THE PREFRONTAL CORTEX DURING ALPRAZOLAM WITHDRAWAL

- O-08-P** Nada Ćujić Nikolić, **Dajana Lazarević**, Jelena Jovanović, Katarina Šavikin, Goran Vladislavljević, and Tatjana Trtić Petrović
PHYSICOCHEMICAL CHARACTERIZATION OF SPRAY-DRIED POWDERS ENCAPSULATING PARTHENOLIDE WITH CYCLODEXTRINS

(P) FOOD PHYSICAL CHEMISTRY

- P-01-P** Marija Petrović, Danka Kiperović, Marina Jovanović, and Tatjana Šolević Knudsen
VOLATILE AND SEMI-VOLATILE COMPOUNDS AND ANTIMICROBIAL PROPERTIES OF CORIANDER SEEDS ESSENTIAL OIL
- P-02-P** Dušan Trajković, Ljiljana Tolić Stojadinović, **Marija Vukčević**, and Dragana Živojinović
PHYSICO-CHEMICAL PROPERTIES AND PESTICIDE RESIDUES IN DIFFERENT HONEY VARIETIES FROM THE REPUBLIC OF SERBIA
- P-03-P** Aleksandra Žerađanin, **Branka Lončarević**, Nikoleta Lugonja, Kristina Kasalica, Kristina Joksimović, Natalija Petronijević, and Vladimir P. Beškoski
CHARACTERIZATION OF BACTERIAL STRAIN ISOLATED FROM THE TRADITIONAL JAPANESE DISH NATTŌ
- P-04-P** Tatjana Šoštarić, **Snežana Zlatanović**, Zorica Lopičić, Anja Antanasković, Vladimir Adamović, Mihal Đuriš, and Stanislava Gorjanović
THERMAL CHARACTERIZATION OF GRANULATED APPLE POMACE FLOUR BY DSC
- P-05-P** Aleksandar Popović, Marko Mladenović, Danica Bajuk Bogdanović, Aleksandra Savić, and Čedomir Radenović
FTIR-ATR SPECTROSCOPIC DIFFERENTIATION OF MORPHOLOGICAL KERNEL FRACTIONS OF MAIZE HYBRID ZP 707

(Q) PHYSICO-CHEMICAL ANALYSIS

- Q-01-P** **Simona Delibaltova**, Miloš Ognjanović, Bratislav Antić, and Hristo Kolev
A MODIFIED XPS ATTENUATION MODEL FOR NON-UNIFORM DOPANT INCORPORATION IN GD-DOPED Γ - Fe_2O_3 NANOCLUSTERS
- Q-02-P** Nikolay Brezhnev, Andrew Kosyakov, and **Alexander Zavrzhnov**
REFINEMENT OF THE T - x DIAGRAM OF THE $In - Se$ SYSTEM

(R)	PHOTOCHEMISTRY, RADIATION CHEMISTRY, PHOTONICS
R-01-P	Branka Murić , Svetlana Savić-Šević, Filip Krajinić, Tanja Pajić, Danica Pavlović, Dejan Pantelić, and Branislav Jelenković <i>APPLICATION OF DIGITAL HOLOGRAPHIC MICROSCOPY IN REAL-TIME POLLEN TUBE GROWTH MONITORING</i>
R-02-P	Olga Jakšić , Katarina Radulović, Marko Bošković, Marko Obradov, Olivera Živković, Katarina Cvetanović, and Dana Vasiljević-Radović <i>ADSORPTION AND REDUCTION OF METHYLENE BLUE IN A PLASMONIC ENHANCED PHOTOCATALYTIC MICROREACTOR</i>
(S)	FREE TOPIC
S-02-P	Marija Petrović , Jelena Marinković, Miklós Takó, Tea Ganić, Nina Tomić, and Marina Jovanović <i>PORTUGIESE WINE POMACE: SCREENING OF BIOACTIVE COMPOUNDS AND ANTIMICROBIAL POTENTIAL AGAINST ORAL ISOLATES</i>
S-03-P	Vladana Petković , Zoran Stojanović, Tijana Zečević, Dunja Drakulić, Ana Todorović, and Ivana Guševac Stojanović <i>EVALUATION OF CYTOTOXIC EFFECTS OF MICROPLASTIC PARTICLES IN HUMAN LUNG FIBROBLAST - IN VITRO STUDY</i>
S-04-P	Nataša Mitrović , Srdjan Kesić, Gordana Stojadinović, Branka Petković, and Ivana Grković <i>PRENATAL EXPOSURE TO EXTREMELY LOW-FREQUENCY ELECTROMAGNETIC FIELDS ALTERS ECTONUCLEOTIDASE ACTIVITY IN THE DEVELOPING RAT HIPPOCAMPUS</i>
S-05-P	Kristina Bojović , Ivana Grković, and Nataša Mitrović <i>PRENATAL VALPROIC ACID EXPOSURE SELECTIVELY REDUCES HIPPOCAMPAL ADP HYDROLYSIS WITH LIMITED MODULATION BY MATERNAL FLAXSEED OIL SUPPLEMENTATION</i>
S-06-P	Ivana Grković , Nataša Mitrović, Ester Francija Žerajić, Milorad Dragić, and Miroslav Adžić <i>GLuN2A SUBUNIT MODULATES CD39/CD73 ACTIVITY IN LIPOPOLYSACCHARIDE -INDUCED NEUROINFLAMMATION IN MICE</i>
S-07-P	Kosana Popović , Mirjana Antonijević Nikolić, Jelena Đuričić Milanković, Branka Dražić, and Slađana Tanasković <i>CONTENTS OF SOME MINERALS IN DANDELION ROOTS OF WESTERN SERBIA</i>

- S-08-P** **Ivana Perić**, Andrijana Stanisavljević Ilić, Neda Đorđević, Katarina Bobić, Snežana Pejić, Nataša Popović, and Nevena Todorović Vukotić
NLP-BASED CROSS-MATRIX ANALYSIS OF METABOLOMICS DATA IN DEPRESSION
- S-09-P** Katarina Bobić, Nevena Todorović Vukotić, Andrijana Stanisavljević Ilić, Ivana Perić, Neda Đorđević, Vesna Stojiljković, and **Jadranka Miletić Vukajlović**
MATRIX-DEPENDENT DIFFERENCES IN MALDI-MS LIPID DETECTION IN BIOLOGICAL SAMPLES USING DHB AND 9-AA
- S-10-P** **Katarina Bobić**, Nevena Todorović Vukotić, Andrijana Stanisavljević Ilić, Ivana Perić, Neda Đorđević, Ljubica Gavrilović, and Jadranka Miletić Vukajlović
LIGAND-DEPENDENT BIOLOGICAL RESPONSES TO SURFACE-MODIFIED TiO₂ NANOPARTICLES
- S-11-P** **Tijana Zečević**, Zoran Stojanović, Nenad Filipović, Dunja Drakulić, Ana Todorović, Vladana Petković, and Ivana Guševac Stojanović
EXTRACTION AND CHARACTERIZATION OF IRREGULAR POLYSTYRENE MICROPLASTIC PARTICLES FOR BIOLOGICAL RESEARCH
- S-12-P** **Ivana Guševac Stojanović**, Dunja Drakulić, Ana Todorović, Tijana Zečević, Filip Veljković, Vladana Petković, and Zoran Stojanović
DOSE-DEPENDENT EARLY RENAL DYSFUNCTION FOLLOWING ACUTE MICROPLASTIC EXPOSURE IN MALE RATS
- S-13-P** **Milan Tanić**
AI-ASSISTED METHODOLOGY FOR STRUCTURAL SHIELDING DESIGN AND EVALUATION OF MEDICAL DIAGNOSTIC X-RAY FACILITIES
- S-14-P** **Ana Amić** and Denisa Mastil'ák Cagardová
QUERCETIN AND ROOPEROL AS DIRECT RADICAL SCAVENGERS - A DFT STUDY

(T) EDUCATION, HISTORY

- T-15-P** **Snezana Kalamković**, Martin Kalamković, and Jovana Kalamković
ANDRE GEIM

