

СРПСКО КРИСТАЛОГРАФСКО ДРУШТВО

SERBIAN CRYSTALLOGRAPHIC SOCIETY

**XXIX КОНФЕРЕНЦИЈА
СРПСКОГ КРИСТАЛОГРАФСКОГ ДРУШТВА**

Програм

**29th CONFERENCE OF THE
SERBIAN CRYSTALLOGRAPHIC SOCIETY**

Program

Рума – Ruma
2024.

Thursday, June 27

9.00–9.45	REGISTRATION
9.45–10.00	OPENING CEREMONY
10.00–10.45	PLENARY LECTURE Chairperson: Mirjana Radanović Franc Perdih ANTIDIABETIC ACTIVITY OF ZINC AND VANADIUM COORDINATION COMPOUNDS
10.45–11.30	ORAL PRESENTATIONS Chairperson: Tamara Todorović
10.45	Mišel Hozjan, Franc Perdih ZINC COORDINATION COMPOUNDS WITH PICOLINIC ACID DERIVATIVES
11.00	Marijana S. Kostić, Milica G. Bogdanović, Vukadin M. Leovac, Mirjana M. Radanović STRUCTURE OF ZINC(II) COMPLEX WITH NOVEL SCHIFF BASE OF 2,6-DIACETYLPIRIDINE
11.15	Milica G. Bogdanović, Bojana Srećo Zelenović, Sladana Stanisavljević, Mirjana Popsavin, Velimir Popsavin, Guido J. Reiss, Marko V. Rodić ANALYSIS OF INTERMOLECULAR INTERACTIONS IN MURICATACIN POLYMORPHS
11.30–11.45	COFFEE BREAK
11.45–12.30	PLENARY LECTURE Chairperson: Dušan Veljković Irina S. Konovalova COMBINATION OF X-RAY DIFFRACTION AND QUANTUM CHEMISTRY METHODS FOR CRYSTAL PACKING ANALYSIS OF HALOGEN SUBSTITUTED ANILINES
12.30–13.15	PLENARY LECTURE Chairperson: Aleksandar Kremenović Volker Kahlenberg IRON ORE SINTER – CRYSTALLOGRAPHY MEETS PYROMETALLURGY
13.15–13.30	SPONSOR PROMOTION – ANALYSIS
13.30–15.00	LUNCH BREAK
15.00–18.45	EXCURSION
20.00	DINNER

Friday, June 28

- 9.00–9.45** **PLENARY LECTURE**
Chairperson: **Jelena Rogan**
Chris S. Hawes
STRUCTURAL STUDIES OF FUSED HETEROCYCLES FOR
FUNCTIONAL COORDINATION NETWORKS
- 9.45–10.45** **ORAL PRESENTATIONS**
Chairperson: **Božidar Čobeljić**
- 9.45 **Nikola D. Radnović, Berta Barta Holló, Marko V. Rodić**
SYNTHESIS AND STRUCTURE OF IONIC CO-CRYSTAL OF Ag(I)
WITH PYRAZOLE-TYPE LIGAND
- 10.00 **Marko Dunatov, Krešimir Molčanov, Zoran Štefanić, Robert Kruk, Lidija Androš Dubraja**
DEHYDRATION-REHYDRATION INDUCED STRUCTURAL
TRANSFORMATIONS IN AMMONIUM VANADYL-TARTARATE
COMPLEX
- 10.15 **Klemen Motaln, Matic Lozinšek**
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF THE
NOVEL SALTS CONTAINING UNIQUE $M^{IV}F_3(XeF_2)_3$ ⁺ (M = Pd, Pt)
CATIONS
- 10.30 **Lidija Radovanović, Dušan Malenov, Jelena Rogan**
LAYERED ZINC–2,2'-BIPYRIMIDINE COMPLEX WITH ANION OF
MELLITIC ACID
- 10.45–11.00** **COFFEE BREAK**
- 11.00–11.45** **PLENARY LECTURE**
Chairperson: **Olivera Klisurić**
Tibor Tóth-Katona
LIQUID CRYSTALS BEYOND DISPLAY TECHNOLOGY –
A PERSONAL VIEW
- 11.45–12.45** **ORAL PRESENTATIONS**
Chairperson: **Goran Bogdanović**
- 11.45 **Marijana Jurić, Ana Lozančić, Sanja Burazer, Sanja Renka, Krešimir Molčanov, Lidija Androš Dubraja**
PROTON CONDUCTIVITY OF HOMO- AND HETEROMETALLIC
COMPOUNDS OF DIFFERENT DIMENSIONALITY CONTAINING
(ALKYL)AMMONIUM CATIONS
- 12.00 **Jasminka Popović, Aleksandra Djurišić, Juraj Ovčar, Ivor Lončarić**
STABILIZATION OF 2D PEROVSKITES VIA MIXED HALIDE ANIONS
- 12.15 **Kristian Radan, Valentina Milašinović, Miha Virant, Matic Lozinšek**
THE XENON–OXYGEN-BONDED CATION $[H_2NC(F)OXeF]^+$
- 12.30 **Guido J. Reiss**
POLYIODIDES TRAPPED IN HYDROGEN BONDED FRAMEWORKS
OF SOME METHYLYXANTHINIUM CATIONS
- 12.45–13.00** **SPONSOR PROMOTION – MC LABOR**

13.00–14.45	LUNCH BREAK
14.45–15.30	PLENARY LECTURE Chairperson: Marko Rodić Matic Lozinšek RECENT DEVELOPMENTS IN STRUCTURAL AND SYNTHETIC CHEMISTRY OF XENON
15.30–16.15	ORAL PRESENTATIONS Chairperson: Aleksandra Dapčević
15.30	Ivo B. Rietveld, Gabin Gbabode, Kangli Li, Béatrice Nicolai COMPRESSION AND THERMAL EXPANSION OF ORGANIC MOLECULES BY SYNCHROTRON POWDER DIFFRACTION
15.45	Maja Marinović, Dušan Škorić, Sofija Bekić, Michael Kugler, Jiří Brynda, Jana Škerlová, Pavlína Řezáčová, Anđelka Čelić, Edward Petri COMPARISON OF ALDO-KETO REDUCTASE 1C3 (AKR1C3) STRUCTURES IN APOPROTEIN FORM AND BOUND TO BILE-ACID FUSED TETRAZOLE INHIBITOR
16.00	Miha Virant, Erik Uran, Kristian Radan, Mirela Dragomir, Matic Lozinšek SOLID-STATE STUDY OF NOVEL XE–N-BONDED COMPOUNDS
16.15–18.15	POSTER SESSION WITH COFFEE BREAK
18.15–18.30	CLOSING CEREMONY AND AWARDS
18.30–19.00	ANNUAL ASSEMBLY OF THE SCS
20.00	CONFERENCE DINNER

Poster Presentations

- P01** Tina Andrejević, Marta Počkaj, Nevena Stevanović, Darko Ašanin, Iztok Turel, Miloš Djuran, Biljana Glišić
SYNTHESIS AND CRYSTAL STRUCTURE OF GOLD(III) COMPLEX WITH AZACONAZOLE
- P02** Tina P. Andrejević, Bojana V. Pantović, Jakob Kljun, Darko P. Ašanin, Iztok Turel, Miloš I. Djuran, Biljana Đ. Glišić
CRYSTAL STRUCTURE OF GOLD(III) COMPLEX WITH 4,5-DIAZAFLUOREN-9-ONE
- P03** Jovana Araškov, Aleksandar Višnjevac, Tamara Todorović, Nenad Filipović
MOLECULAR AND CRYSTAL STRUCTURES OF Zn(II) COMPLEXES WITH HYDRAZONYL-THIAZOLE LIGAND
- P04** Milica G. Bogdanović, Vidak N. Raičević, Maik Wyshusek, Ema V. Begović, Vanja S. Nikolić, Ivana D. Pešterić, Szandra Z. Seres, Marko V. Rodić
SYNTHESIS AND CRYSTAL STRUCTURE OF QUINUCLIDINONE DERIVATES
- P05** Ljubica Brenjo, Olivera Klisurić, Aleksandar Oklješa
CRYSTALLOGRAPHIC AND COMPUTATIONAL STUDIES OF A NEW HYDRAZONO TETRAZOLE COMPOUND
- P06** Ivana S. Veljković, Danijela S. Kretić, Dušan Ž. Veljković
INFLUENCE OF THE SUBSTITUENTS ON THE SENSITIVITY OF HIGH-ENERGY NITROAROMATIC MOLECULES
- P07** Jelena I. Radovanović, Dušan Ž. Veljković
PNICTOGEN INTERACTIONS IN CRYSTAL STRUCTURES OF NITROAROMATIC EXPLOSIVES
- P08** Martina Vrankić, Takeshi Nakagawa, Yang Ding, Jasminka Popović, Anna Moliterni, Damir Pajić
WHERE CRYSTALLOGRAPHY MEETS MATERIALS SCIENCE
- P09** Predrag Dabić, Aleksandar Kremenović, Ljiljana Karanović
SYNTHESIS OF $K_{1-x}Al_{1-x}Si_4O_{12}$ CUBIC SINGLE CRYSTAL
- P10** Sanja Đokić, Marko V. Rodić, Mirjana Popsavin, Velimir Popsavin, Jovana Francuz
MOLECULAR AND CRYSTAL STRUCTURES OF (+)-ASPERILACTONE C AND 7-*epi*-(+)-ASPERILACTONE C
- P11** Sanja Đokić, Marko V. Rodić, Mirjana Popsavin, Velimir Popsavin, Jovana Francuz
MOLECULAR AND CRYSTAL STRUCTURES OF (+)- AND (-)-ASPERILACTONES B
- P12** Maja B. Đukić, Jelena M. Ptronijević, Marija S. Jeremić, Slađana B. Novaković
SYNTHESIS AND CRYSTAL STRUCTURE OF [Ru-*p*-cymene-L] COMPLEX
- P13** Goran V. Janjić, Ljiljana T. Surčić, Aleksandra A. Rakić, Nemanja P. Trišović
THEORETICAL STRATEGY FOR THE PRODUCTION OF THE CARBAMAZEPINE POLYMORPH V
- P14** Nataša Jović Orsini, Mirjana M. Milić, Dušan K. Božanić
OPTICAL, MAGNETIC AND STRUCTURAL PROPERTIES OF ZINC FERRITE COUPLED TITANIA NANOCOMPOSITE

- P15** Danijela Luković Golić, Nataša Jović Orsini, Aleksandar Radojković, Nenad Nikolić, Milutin Ivanović
XRD AND XPS ANALYSIS OF BISMUTH FERRITE CERAMICS DOPED WITH LANTHANUM AND EUROPIUM
- P16** Sanja B. Kokanov, Aleksandar Višnjevac, Tamara Todorović, Nenad Filipović
SYNTHESIS AND CHARACTERIZATION OF COMPLEXES Cd(II) WITH HYDRAZONYL-1,3-CHALCOGENAZOLES
- P17** Danijela S. Kretić, Vesna B. Medaković, Dušan Ž. Veljković
COMPARING ELECTROSTATIC POTENTIAL VARIATIONS IN CRITICAL POINTS FOR DIFFERENT CRYSTAL STRUCTURES OF HIGH-ENERGY MATERIALS
- P18** Jelena Ladarević, Lidija Radovanović, Aleksandra Mašulović, Nemanja Trišović, Željko Vitnik, Jelena Rogan, Dušan Mijin
ANALYSIS OF THE CRYSTAL PACKING OF AZO PYRIDONE DYE BEARING CHLORINE ATOM
- P19** Anita Lazić, Nada Grozdanić Stanislavljević, Lidija Radovanović, Jelena Rogan, Goran Janjić, Ivana Đorđević, Nemanja Trišović
STRUCTURAL ANALYSIS OF TWISTED AMIDES BASED ON THE SPIROHYDANTOIN SCAFFOLD WITH THE ANTICANCER ACTIVITY
- P20** Biljana Maksimović, Branislava Vučetić, Andrijana Žekić, Milica Milojević
STUDY OF THE INFLUENCE OF THE GROWTH HISTORY ON THE GROWTH PARAMETERS OF POTASSIUM DIHYDROGEN PHOSPHATE (KDP) CRYSTALS
- P21** Aleksandra Mašulović, Kristina Gak Simić, Ivana Đorđević, Lidija Radovanović, Franck Camerel, Olivier Jeannin, Nemanja Trišović
CRYSTAL STRUCTURE OF A TRINUCLEAR ZINC(II)-ACETATO COMPLEX WITH AN AZOPYRIDINE-BASED LIGAND
- P22** Mirjana M. Milić, Nataša Jović Orsini
HEAT-INDUCED FORMATION OF ϵ -Fe₂O₃ PHASE FROM SILICA COATED AKAGANEITE NANOPARTICLES
- P23** Andrej Milivojac, Aleksandar Višnjevac, Tamara Todorović, Nenad Filipović
Cu(II) COMPLEXES WITH DIPYRIDYL AND BENZOYL-PYRIDINE HYDRAZONYL-THIAZOLES
- P24** Natalija Milojković, Bojana Simović, Aleksandra Dapčević
TRANSITION METAL ION DOPED NANOANATASE FOR PHOTOCATALYTIC AND ADSORPTION APPLICATION
- P25** Jovana Bugarinović, Slađana Novaković, Goran Bogdanović, Dragana Stevanović, Marko Pešić, Anka Todosijević, Ivan Damljanović
NEW TETRAHYDROPYRAZOLOPYRAZOLONE DERIVATIVES
- P26** Marija M. Petković Benazzouz, Mirjana Ž. Sarvan, Ivana Djordjevic, Katarina M. Miletić, Goran V. Janjić
EXPLORING THE INFLUENCE OF GEOMETRIC PARAMETERS ON FLUORINE-OXYGEN (F...O) INTERACTIONS
- P27** Vidak Raičević, Milica G. Bogdanović, Niko Radulović, Marko V. Rodić
CRYSTALLOGRAPHY PROVIDES NEW INSIGHTS INTO THE CONDENSATION OF 17 α -METHYLTESTOSTERONE AND FERROCENECARBOXALDEHYDE
- P28** Predrag Ristić, Marko Rodić, Nenad Filipović, Tamara Todorović
DINUCLEAR Cu(II) COMPLEX WITH THE CONDENSATION DERIVATIVE OF 2-ACETYLPIRIDINE AND MALONIC ACID DIHYDRAZIDE

- P29** Milica Savić, Božidar Čobeljić, Matija Zlatar, Maja Gruden, Andrej Pevec
CRYSTAL STRUCTURES OF THREE NEW Zn(II) HYDRAZONE COMPLEXES
- P30** Marija M. Petković Benazzouz, Mirjana Ž. Sarvan, Katarina M. Miletić, Goran V. Janjić, Aleksandra A. Rakic
EXPLORING F...F INTERACTIONS IN CRYSTAL STRUCTURES: INSIGHTS INTO GEOMETRIC ARRANGEMENTS
- P31** Snežana Selaković, Marko V. Rodić, Maja Šumar Ristović
SYNTHESIS AND CHARACTERIZATION OF Cu(II) COMPLEXES WITH SALICYLALDEHYDE DERIVATE AND α -DIIMINES
- P32** Pavle Tančić, Aleksandar Kremenović
THE INFLUENCE OF THE BASE LINE ON THE RESULTS OF THE RIETVELD ANALYSIS OF PHOSPHORUS-TUNGSTEN BRONZE
- P33** Željko Jaćimović, Sergiu Shova, David Kočović, Miljan Bigović, Zoran D. Tomić
TRINUCLEAR DICHLORO-BRIDGED COBALT COMPLEX WITH 5-(4-BROMOPHENYL)-3-METHYL-1H-PYRAZOLE
- P34** Kristina Gak Simić, Aleksandra Mašulović, Ivana Đorđević, Lidija Radovanović, Franck Camerel, Olivier Jeannin, Nemanja Trišović
ZINC(II) COMPLEX WITH AN AZOPYRIMIDINE-BASED LIGAND: A CRYSTALLOGRAPHIC AND QUANTUM-CHEMICAL STUDY
- P35** Marija Šuljagić, Ljubica Anđelković, Aleksandar Kremenović, Vladimir Pavlović
STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF Bi₂O₃ PREPARED BY MODIFIED REVERSED COPRECIPITATION ROUTE