

# SupramolChem2021

## IV. SIMPOZIJ SUPRAMOLEKULSKE KEMIJE Supramolecular Chemistry 2021

10. prosinca 2021., predavaonica A1 Kemijskog odsjeka Prirodoslovno-  
matematičkog fakulteta, Horvatovac 102a, Zagreb

### PROGRAM:

8:00 – 9:00	<b>Registracija sudionika</b>
9:00 – 9:30	<b>Otvaranje konferencije</b> <b>Goran Pichler</b> , tajnik Razreda za matematičke, fizičke i kemijske znanosti HAZU <b>David Matthew Smith</b> , ravnatelj Instituta Ruđer Bošković <b>Mirko Planinić</b> , dekan Prirodoslovno-matematičkog fakulteta <b>Mladen Žinić</b> , predsjednik Odbora za kemiju HAZU <b>Leo Frkanec</b> , Institut Ruđer Bošković
9:30 – 10:00	Predsjedavajući sekcije / Chairman: <b>Dražen Vikić Topić</b> <b>Mirta Rubčić</b> (PMF) Polioksomolibdati {Mo132} kao supramolekulski receptori
10:00 – 10:30	<b>Ljiljana Fruk</b> (University of Cambridge) Kontrastni sredstva i nosači lijekova Nanotehnologija i supramolekularna kemija u biomedicini
10:30 – 11:00	<b>Stanka za kavu</b> Predsjedavajući sekcije / Chairman: <b>Vladislav Tomišić</b>
11:00 – 11:30	<b>Predrag Novak</b> (PMF) Interactions of Macrolides as a Platform for Design of New Antibiotics
11:30 – 11:45	<b>Jelena Parlov Vuković</b> (INA d.d.) Asphaltene –structure and chemistry
11:45 – 12:00	<b>Marija Alešković</b> (IRB) Supramolecular Chemistry of Diamondoid Ammonium Salts
12:00 – 12:15	<b>Andrea Usenik</b> (PMF) Hydrophobic Effect and Beyond
12:15 – 12:30	<b>Ines Topalović Piteša</b> , (AlphaChrom) AFM on a chip
12:30 – 13:30	<b>Stanka za ručak</b> Predsjedavajući sekcije / Chairman: <b>Leo Frkanec</b>
13:30 – 14:00	<b>Ognjen Miljanić</b> (University of Houston) Greenhouse Gas Capture in Porous Molecular Crystals
14:00 – 14:30	<b>Ivica Đilović</b> (PMF) "Molekulsko prepoznavanje – strategije samoudruživanja fleksibilnog receptora za anione".
14:30 – 14:45	<b>Tomislav Stolar</b> (IRB) The Emergence of Prebiotic Molecular Recognition Patterns on a Nucleobase Level
14:45 – 15:00	<b>Ivana Brekalo</b> (IRB) Microporosity of a Guanidinium Organodisulfonate Framework
15:00 – 15:15	<b>Nika Gazdek</b> (IRB) Inclusion complexes of ferrocene uracil derivatives with cyclodextrins: solubility and binding ability
15:15 – 15:45	<b>Stanka za kavu</b> Predsjedavajući sekcije / Chairman: <b>Dominik Cinčić</b>
15:45 – 16:00	<b>Filip Topić</b> (McGill University) Understanding halogen-bonded cocrystallization through experimental and computational studies
16:00 – 16:15	<b>Cristina Mottillo</b> (McGill University) From greener synthesis to next-generation materials: Innovations in the production of metal-organic frameworks
16:15 – 16:30	<b>Mihails Arhangelskis</b> (University of Warsaw) Periodic DFT calculation for understanding and predicting halogen bond transformations in solid state
16:30 – 16:45	<b>Edi Topić</b> (PMF) Symmetry Analysis of Layered Hybrid Halometallates(II)

16:45 – 17:00	<b>Vinko Nemeč</b> (PMF) Halogenska veza u kokristalima iminskih metalnih kompleksa
17:00 – 17:15	<b>Mladen Borovina</b> (PMF) Investigating the Impact of Supramolecular Connectivity on Mechanical Properties of Crystals
17:15 – 17:30	<b>Iva Zonjić</b> (IRB) Interactions of benzothiazole ligands with DNA:RNA hybrids and triplex structures
17:30 – 18:00	<b>Ernest Meštrović</b> (Xellia d.o.o.) Non Covalent Interaction in Development of Innovative pharmaceutical product – current status and way forward
18:00 – 18:10	<b>Zatvaranje konferencije</b> <b>Leo Frkanec</b> , Institut Ruđer Bošković <b>Mladen Žinić</b> , predsjednik Odbora za kemiju HAZU
17:00-19:00	<b>Posterska sekcija</b> (Predsjedavajući sekcije / Chairmen: <b>Vladislav Tomišić, Leo Frkanec</b> )

## POSTERI:

1. **Matija Gredičak** (IRB) Supramolecular substrate-catalyst complexes direct stereoselective arylations
2. **Maria Kolypadi Markovic** (UniRi) Catalytic Coupling of CO<sub>2</sub> with Propargyl Alcohol Substrates
3. **Filip Vranješević** (UniRi) Cyclic Carbamates Through Transition Metal-Catalyzed CO<sub>2</sub> Capture - an in Silico Approach
4. **L. Čolakić** (PMF) Mehanička svojstva kristala kadmijevih(II) halogenida s 2,6-dibrompirazinskim ligandima
5. **Ivan Petters** (PMF) CYCLOPENTAPHENYLALANINE AS A FLUORESCENT ANION SENSOR IN SOLUTION
6. **Tea Babić** (PMF) (A) Romantic Relationship Between Hydrophobic Cavities and Aromatic Alcohols
7. **Iva Markuš** (PMF) Diamantane Alcohols and Hydrophobic Cavities: The (not so) Perfect Match in Water and Structured Organic Solvents
8. **Ruža Frkanec** (UniZg) Adamantane in the Supramolecular Drug Delivery Systems
9. **Magdalena Kralj** (IRB) Supramolecular Control of Reactivity in the Solid State