

# 4<sup>th</sup> International Congress of Chemists and Chemical Engineers of B&H

June 30 - July 2, 2022  
Sarajevo



## PROGRAMME

### JUNE 30, 2022 (Thursday)

20:00 – 22:00 Cocktail Party and Registration – 13<sup>th</sup> Floor, Cocktail Hall

### JULY 01, 2022 (Friday)

8:00-09:30		Registration and Coffee
09:30-10:00		Opening Ceremony
10:00-10:45	CH 1	Plenary Lecture 1: Dr. Suljo Linić
11:00-11:45	CH 1	Plenary Lecture 2: Dr. Ihsan Çalis
11:45-12:00		 Coffee Break
12:00-12:20	CH 1	Dr. Abu-Dalo Muna: Preparation and Characterization of Polymer Membranes Impregnated with Carbon Nanotubes for Olive Mill Wastewater
	CH 2	MSc. Halilović Namir: Analysis of stability of naturally aged single base propellant
12:20-12:40	CH 1	Dr. Al Bawab Abeer: Smart Approaches for Olive Mill Waste Water
	CH 2	MSc. Marinova Karina: Green nanoparticles from plant extracts with antibacterial effect
12:40-13:00	CH 1	Dr. Holec David: Hydrogen adsorption on graphene-based materials
	CH 2	MSc. Džajić - Valjevac Melina: The Impact of Open Pit Mine on Nearby Watercourse Mala Rijeka, Vareš
13:00-13:20	CH 1	Dr. Tarkowski Petr: Hyphenated techniques as tools for plant growth/development monitoring and plant product quality assessment
	CH 2	Dr. Carev Ivana: Halogenated boroxine dipotassium trioxohydroxytetrafluorotriborate $K_2[B_3O_3F_4OH]$ inhibits emerging multidrug-resistant and $\beta$ -lactamase-producing opportunistic pathogens
13:20-13:30		Sponsor Ads (Alphachrom)
13:30-14:30		Poster Presentations 1
14:30-15:30		Lunch
15:30-15:50	CH 1	Dr. Nenad Bolf: Development of Calibration Models using Process Analytical Technology for Advanced Crystallization Process Control
	CH 2	Dr. Medar Amela: Analysis of the use of stem and its elements in the HNK educational system
15:50-16:10	CH 1	Dr. Lozinšek Matic: Alkali-metal fluoridooxidovanadates(V) and their complexes with $XeF_2$ and HF
	CH 2	MSc. Sakic Amin: Ab initio study of alloying impact on the stability of cementite in TRIP-assisted AHSS
16:10-16:30	CH 1	Dr. Virant Miha: Novel metal(II) fluoridooxidomolybdates(VI)
	CH 2	MSc. Gušić Irma: Optimized and validated RP-HPLC method for the quantification of curcumin in formulations containing Curcuma longa L. extracts
16:30-16:50	CH 1	Dr. Syed Ghulam Musharraf: Dereplication of Natural Products Using Mass Spectrometry Integrated Approach
	CH 2	MSc. Krečo Anes: Novel "in-house" chemical treatments of pomegranate peel (Punica granatum) for simultaneous heavy metal removal
16:50-17:50		Poster Presentations 2

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### JULY 02, 2022 (Saturday)

09:00-09:20	CH 1	<b>MSc. Gehringer Dominik:</b> A critical assessment of vdW corrections methods: a case study on graphene
	CH 2	<b>Dr. Odak Ilijana:</b> Evaluation of photostability and thermal stability of selected commercially important essential oils from Bosnia and Herzegovina
09:20-09:40	CH 1	<b>Dr. Baldovini Nicolas:</b> Analytical studies of fragrant raw materials. A quest for their odor active constituents
	CH 2	<b>Dr. Tripković Dušan:</b> The effect of metal-metal and metal-oxide interactions on electrocatalytic activity of Pt thin film catalysts
09:40-10:00	CH 1	<b>Dr. Petrov Petar:</b> Water from mineral springs - composition and application in medicine and cosmetics
	CH 2	<b>MSc. Uran Erik:</b> Compounds from the XeF <sub>2</sub> -TaF <sub>5</sub> system: Novel synthesis and crystal structures
10:00-10:20	CH 1	<b>Dr. Odeh Fadwa:</b> Interaction of Cucurbiturils with Lipid Bilayers
	CH 2	<b>MSc. Nayak Ganesh Kumar:</b> Bulk diffusion of impurities in TiN: an ab initio study
10:30-11:15	CH 1	<b>Plenary Lecture 3: Dr. Abdullah Mohammed Ahmed Asiri</b>
11:15-12:00	CH 1	<b>Plenary Lecture 4: Dr. Janez Kovač</b>
12:00-12:20		 <i>Coffee Break</i>
12:20-12:40	CH 1	<b>Dr. Noureddine Djebli:</b> Neurotherapy of Natural Products in particularly Date Extract ( <i>Phoenix dactylifera</i> L.) of Algeria against Neurodegenerative Disease "Alzheimer's case
	CH 2	<b>Dr. Tayel El-Hasan:</b> Heavy metal pollution characterization and mobility in agricultural soil caused by steel industrial activities in Central Jordan
12:40-13:00	CH 1	<b>Dr. Čavar Zeljković Sanja:</b> Mint Essential Oils: Composition and Bioactivity
	CH 2	<b>Dr. Radan Kristian:</b> Recent advances in the field of xenon(II) compounds with polymeric fluoroanions
13:00-13:20	CH 1	<b>MSc. Džajić - Valjevac Melina:</b> Inventory of Polybrominated Diphenyl Ethers (PBDEs) in Bosnia and Herzegovina
	CH 2	<b>Dr. Smiljanić Milutin:</b> Electrochemical stability and degradation of Pd/C and Rh/C catalysts in acidic media
13:20 - 13:40		<i>Sponsor Ads (Biocentre, Zagreb)</i>
13:40 - 14:00	CH 1	<b>Dr. Uralcan Betul:</b> Charging Kinetics and Mechanisms in Carbon-based Supercapacitors with Concentrated Ionic Solutions
	CH 2	<b>Dr. Farooq Sher:</b> Electrocoagulation coupled with oxidation as an effective approach for industrial wastewater treatment
14:00-15:00		<i>Lunch</i>
14:40-15:40		Poster Presentations 3
15:40 - 16:00		<i>Closing Ceremony</i>
20:00		<i>Gala Dinner</i>

**Poster Presentations 1:** Organic Chemistry, Biochemistry and Biotechnology, Medicinal Chemistry, Natural Products Chemistry

**Poster Presentations 2:** Analytical Chemistry, Environmental Chemistry, Inorganic Chemistry

**Poster Presentations 3:** Chemical Engineering, Food Chemistry, Advanced Materials Chemistry, Radiochemistry, Education in Chemistry, Topics Related to Chemistry