

50th

*International Conference of
the Slovak Society of
Chemical Engineering*

May 20 - 24
2024

CONFERENCE
PROGRAM

Tatranské Matliare
Slovakia

#SSSCHE2024

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Program of the 50th International Conference of SSCHE

Tatranské Matliare, May 20 - 24, 2024

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Program

Monday

8:00–20:00 **Arrival of participants**

Tuesday

08:30–12:10 **Hall A, Plenary lectures**

08:30 **Conference opening**

09:00 Towards new models in the reactivity of gas-liquid-solid systems
(*Salmi, T.**)

09:40 Harnessing AI for Chemical Engineering Innovation with the
MathWorks platform (*Rossi, M.**)

10:20 **Coffee break**

10:50 Heat pumps in industrial processes - A key technology of future
energy systems (*Lauermann, M.**)

11:30 Digital transformation of impact ecosystems (*Mizera, R.**)

12:00–14:00 **Lunch**

13:00–14:00 **Posting of posters for Poster session I**

14:00–18:20 Hall A, Lectures: Reaction engineering and catalysis

- 14:00 Functionalized PVDF membranes for pesticide degradation (*Bábanová, L.**, *Vitola, G.*, *Giorno, L.*, *Friess, K.*, *Čejková, J.*)
- 14:20 Gasification of real wastes using Ni/ZSM-5 catalysts: the effect of contaminants for catalyst regeneration (*Csutorás, B.**, *Miskolczi, N.*)
- 14:40 Homogeneous Pd-catalyzed Heck coupling biomass-originated 1,4-pentanediol (*Míka, L.**, *Árvai, C.*)
- 15:00 Impact of soot deposits on the performance of catalytic particulate filters (*Knopp, R.**, *Blažek, M.*, *Kočí, P.*)
- 15:20 Initial developments of CFD-DEM tool for pore-scale soot oxidation in catalytic filters (*Studeník, O.**, *Isoz, M.*, *Kočí, P.*)
- 15:40 Innovation in milli-fluidic technology for the continuous separation of chiral chemicals by free-flow electrophoresis (*Sklenář, A.**, *Sauer, L.*, *Příbyl, M.*)
- 16:00 Coffee break**
- 16:20 Investigation of the reusability of ZSM-5 and -zeolite catalysts in the thermo-catalytic cracking of Fischer-Tropsch wax (*Horváth, D.**, *Miskolczi, N.*)
- 16:40 Mathematical Modelling for Compostable Polymers (*Zubov, A.**, *Staš, J.*, *Kavalová, A.*, *Klee, K.*)
- 17:00 Novel low pressure and temperature production concept of propylene oxide from oxygen, hydrogen and propene in a trickle-bed reactor (*Schmidt, C.**, *Alvear, M.*, *Sandri, F.*, *Mandon, S.*, *Lastusaari, M.*, *Angervo, I.*, *Salmi, T.*)
- 17:20 Photo-catalytic and temperature-assisted air purification from VOC and NO_x using a pilot-scale photo-reactor. The experiences after experimental investigations campaign (*Lasek, J.**, *Wu, P.*, *Glód, K.*, *Supernok, K.*, *Wu, J.*)
- 17:40 Solid foam catalysts: A path from batch to continuous sugar hydrogenation (*Araujo Barahona, G.**, *Goicoechea Torres, A.*, *Ciaramella, M.*, *Cavaliere, M.*, *Eränen, K.*, *Murzin, D.*, *García-Serna, J.*, *Russo, V.*, *Salmi, T.*)

18:00 Upgrading polymers by fractionation recycling method (*Dendisová, D.**, *Klímošek, J.*, *Kosek, J.*, *Jindrová, K.*)

14:00–16:00 Hall B, Lectures: Bioengineering and biotechnology

14:00 Development of enzyme-assisted protocols for the recovery of protein from pumpkin (*Cucurbita pepo* L.) leaves and evaluation of the impact on composition and properties of protein concentrate (*Antov, M.**, *Perovic, M.*, *Bojanic, N.*, *Knezevic Jugovic, Z.*)

14:20 Engineering Insights into Myelin Figures Formation in Chemical Systems (*Nováková, N.**, *Macháček, J.*, *Čejková, J.*)

14:40 Nanobubble dispersions in chosen biomedical applications (*Ulatowski, K.**, *Sobieszuk, P.*)

15:00 Surface patterning methodology for cell culture (*Nguyen, V.**, *Chadt, K.*, *Adrián, E.*)

15:20 The influence of the reaction mixture components on beta-galactosidase stability and activity during tyrosol transglycosylation (*Košuthová, A.**, *Antošová, M.*, *Bauerová-Hlinková, V.*, *Polakovič, M.*)

15:40 Application of genetic algorithm for multiparametric optimization of double reactor membrane hybrid systems (*Mihal, M.**, *Paleš, E.*, *Červeňanský, I.*, *Annus, J.*)

16:00 Coffee break

16:20–18:40 Hall B, Lectures: Industrial process design and control

16:20 A case study of ways to achieve a zero-carbon cement industry (*Turakulov, Z.**, *Kamolov, A.*, *Variny, M.*)

16:40 Developing Hydrogen Infrastructure in the CEE Region (*Kraviarová, D.**, *Janošovský, J.*, *Variny, M.*)

17:00 Development and Optimization of Pellobot: A Novel Approach to Automated Fluid and Object Handling in Chemical Engineering (*Paulíková, E.**, *Čejková, J.*)

17:20 Development of Crystallization Advanced Process Control Based on Process Analytical Technology (*Bolf, N.**, *Sacher, J.*, *Sejdić, M.*, *Gavran, M.*, *Ujević Andrijić, Ž.*)

- 17:40 Chemical process resilience analysis on the deviation effects of single and multiple input parameter faults (*Myšíak, J.**, *Jelemenský, E.*, *Labovský, J.*)
- 18:00 Hardy is not dead!: Resurrection of a century-old method for pipeline networks modeling (*Furda, P.**, *Červeňanský, I.*, *Kraviarová, D.*, *Variny, M.*)
- 18:20 Modeling and CO₂ emissions reduction in separation process of asymmetric ether production (*Hlavatý, L.**, *Soták, T.*, *Variny, M.*, *Magyarová, Z.*)
- 18:00–20:00 Dinner**

20:00–23:00 Poster session I, Welcome drink

- 1 Chromatographic separation of bioactive polyphenolic compounds from berry fruit extracts (*Antošová, M.**, *Koššuthová, A.*, *Kuzma, S.*, *Polakovič, M.*)
- 2 Comparison of activated carbon produced from avocado seed using NaOH and H₂SO₄ as activating agents (*Siemak, J.**, *Michalkiewicz, B.*)
- 3 Comparison of continuous manufacturing methods for amorphous solid solutions (*Martynek, D.**, *Ridvan, L.*, *Šoňš, M.*)
- 4 Control of Laboratory Distillation Column with Methanol-Water Mixture (*Micherda, M.**, *Ercan Özdemir, K.*, *Paulen, R.*)
- 5 Design of a method for the separation of recombinant Tau protein isoforms (*Kotuličová, S.**, *Molnár, T.*, *Majerová, P.*, *Kováč, A.*, *Polakovič, M.*)
- 6 Efficiency of antibody purification via multimodal chromatography: Resin development and comparative analysis (*Molnár, T.**, *Kotuličová, S.*, *Szenesiová, B.*, *Polakovič, M.*)
- 7 Enhancing the Natural Gas Dehydration through Retrofitting for more Sustainable Operation (*Detko, J.**, *Janošovský, J.*, *Variny, M.*)
- 8 Evaluation of properties of binary mixtures including selected imidazolium-based ionic liquids, water, and ethanol (*Morvay, B.*, *Halúzková, A.*, *Graczová, E.*, *Steltenpohl, P.**)

- 9 Evaluation of substrate-interaction effect on the antioxidant potential of adrenergic drugs using thin-layer chromatography with image analysis method (*Casoni, D.**, *Silveřan, L.*)
- 10 Evaluation of the antioxidant activity of medicinal plants extracts based on the antiradical efficiency parameters determined by spectrophotometric assays (*Cobzac, S.**, *Casoni, D.*)
- 11 Extraction of bioactive compounds from different types of biomass (*Smatanová, D.*, *Štosel, M.**, *Ház, A.*, *Chrvalová, L.*, *Rudinská, D.*)
- 12 Heavy residues upgrading - simulation and analysis (*Podolský, S.**, *Variny, M.*)
- 13 High-Throughput Combinatorial Fabrication of Multicomponent Solid Dispersions Using a Robotic Spray Drying Platform (*Klimša, V.**, *Ruphuy Chan, G.*, *Jonáš, J.*, *Mašková, L.*, *Kašpar, O.*, *Žvátora, P.*, *Štěpánek, F.*)
- 14 H-meter prototype development (*Moucha, T.**)
- 15 Innovative mixed matrix membranes based on magnetic MOF UiO-66-NH₂ and Pebax1657 with enhanced CO₂/N₂, CO₂/CH₄, and O₂/N₂ separation performance (*Florekova, J.**, *Friess, K.*)
- 16 Investigation of experimental condition effect on product distribution and producer gas composition in the refuse-derived fuel gasification (*Koritár, M.*, *Smetana, M.*, *Haydary, J.*, *Steltenpohl, P.**)
- 17 Magnetic fraction obtained from steel furnace slags as a valuable filler for cement-based building materials (*Foniok, K.**, *Matějka, V.*, *Topinková, M.*, *Vlček, J.*)
- 18 Membrane fouling during ultrafiltration of wastewaters from car washes (*Gryta, M.**, *Woźniak, P.*)
- 19 Modelling and Optimal Operation of a Forward Osmosis Process (*Ruzicka, M.**, *Paulen, R.*, *Helgeland, I.*)
- 20 Optimization of MAX Phase Preparation (*Sladčík, M.*, *Foniok, K.*, *Kawuloková, M.*, *Zlá, S.*, *Smetana, B.*, *Matějková, P.*, *Matejka, V.**)
- 21 Paraffin Based Systems as TES and EM Materials (*Smetana, B.**, *Kawuloková, M.*, *Zlá, S.*, *Matušková, H.*, *Boros, C.*, *Rozložník, M.*)

- 22 Prediction of surface tension using modified van der Waals equation (*Šmídová, A.**, *Zubov, A.*)
- 23 Production of selected natural aromatic compounds from fusel oil (*Timár, P.**)
- 24 Removal of the contaminating metal content of the concentrated brines applied in the chlor-alkali industry through precipitation and sedimentation (*Csorba, B.**, *Farkas, L.*, *Csécsi, M.*, *Hórvölgyi, Z.*, *Keresztes, Z.*, *Madarász, J.*, *Mihalkó, A.*, *Szabó, T.*, *Boros, R.*, *Gresits, I.*)
- 25 RISK OF BACTERIAL CONTAMINATION DURING CAR WASHING (*Woźniak, P.**, *Gryta, M.*)
- 26 Rotating packed beds mass transfer efficiency at varying cavity zone size (*Blatkiewicz, M.**, *Majdzik, M.*, *Piątkowski, M.*, *Jaskulski, M.*, *Hájek, O.*, *Malý, M.*, *Cejpek, O.*)
- 27 Selection of mixed solvent for crude caprolactam extraction (*Vaštyl, J.*, *Lestinsky, P.*, *Maršolek, P.*, *Koumar, J.*, *Maxa, M.*, *Korpas, J.*, *Obalová, L.**)
- 28 Simulation monitoring of furnaces - basis for more efficient operation, increasing of their efficiency with subsequent energy savings (*Lőrinczová, M.*, *Martonová, S.**, *Hornák, M.*, *Kudláčková, G.*, *Vávrová, J.*, *Odražil, P.*)
- 29 Small hydrocarbon mass transfer and sorption equilibria investigated by experimental methods (*Klimošek, J.**, *Krajáková, L.*, *Jindrová, K.*, *Zubov, A.*, *Kosek, J.*)
- 30 Studies of the morphology of hematite synthesized from waste iron sulfate (*Splinter, K.**, *Hlawacek, G.*, *Moeckel, R.*, *Lendzion-Bieluń, Z.*)
- 31 Sustainable wax coating of drug particles with the use of dry-coating (*Koutentaki, G.**, *Onderwater, J.*, *Pekárek, T.*, *Šoóš, M.*)
- 32 Isolation of acid dyes from aqueous solutions using commercially available ionic liquids (*Weidlich, T.**)
- 33 Thermographic observation of the distillation process (*Pipíška, A.**, *Mařík, K.*, *Rejl, F.*, *Haidl, J.*)
- 34 VLE measurement of binary mixtures including selected imidazolium-based ionic liquids, water, and ethanol (*Morvay, B.*, *Halúzková, A.*, *Graczková, E.*, *Steltenpohl, P.**)

Wednesday

08:20–11:20 Hall A, Lectures: Separation processes

- 08:20 Effect of the environmental phenomena and elapsed time since harvesting on the quality and quantity of extracted lavender oil (*Preiner, S.**, *Rippelné Pethő, D.*, *Miskolczi, N.*)
- 08:40 High temperature sorption of hydrogen sulfide from syngas (*Korpas, J.**, *Lestinsky, P.*, *Maršolek, P.*, *Wdowkova, R.*, *Strakošová, J.*)
- 09:00 Investigation of waste sourced activated bio-chars for CO₂ reduction at high temperature experiments (*László, A.**, *Miskolczi, N.*)
- 09:20 Modelling of activation product removal for nuclear fusion applications (*Svoboda, V.**, *Kordač, M.*, *Gottfriedová, A.*, *Augustínová, A.*, *Vála, L.*)
- 09:40 Investigating Methods to Enhance Crystal Yield in Suspension During Membrane Crystallization (*Komačková, E.**, *Červeňanský, I.*, *Sedlák, L.*, *Markoš, J.*)
- 10:00 Coffee break**
- 10:20 Natural convection in electro dialysis systems. (*Slouka, Z.**, *Láznicka, V.*, *Strnad, J.*)
- 10:40 Perspectives of the industrial application of homogeneous and heterogeneous bipolar membranes (*Slovák, F.*, *Kotala, T.*, *Václavíková, N.**)
- 11:00 Preparation and characterization of multimodal membrane adsorbents (*Rupčíková, V.**, *Kotuličová, S.*, *Kurák, T.*, *Polakovič, M.*)

08:50–13:00 Hala B, Prednášky: Obnoviteľné zdroje energie (SK industry section)

- 08:50 Otvorenie priemyselnej sekcie**
- 09:00 Perspektiva využitia odpadového tepla v regionalnej energetike (*Zamkovský, J.**)
- 09:20 Možnosti výroby elektriny v podnikoch pre vlastnú spotrebu v kocke (*Siskovič, T.**)

- 09:40 Obnovitelne zdroje energie od planu az po realizaciju: Procesy a bariery (*Prityi, M.**)
- 10:00 EIB financovanie v oblasti OZE (*Kaparova, Z.**)
- 10:20 Decarbonization policies on the municipal level: Case Study of Helsinki Energy Challenge (*Mizera, R.**)
- 10:40 Odpadove teplo z priemyslu ako zdroje tepla v systemoch CZT? (*Janiš, S.**)
- 11:00 NAS Batteries - Designed for Stationary Energy Storage (*Staňa, I.**)
- 11:20 Coffee break**
- 11:50 Panelová diskusia (moderátor: Richard Kvasňovský, SPNZ)**
- 12:00–14:00 Lunch**

14:00–16:00 Hall A, Lectures: Separation processes

- 14:00 Multimodal chromatography resins with BMEA ligand for separation of antibody monomers from aggregates. (*Kotuličová, S.*, Molnár, T., Szentesiová, B., Polakovič, M.*)
- 14:20 Purification of flue gas by new non-porous membranes (*Izak, P.**)
- 14:40 Pyrolysis of waste plastics heteroatom removal and challenges (*Lestinsky, P.*, Inayat, A., Grycová, B., Klemencova, K., Wdowkova, R., Snow, J.*)
- 15:00 The effect of microplastics on make-up water treatment (*Cséfalvay, E.*, Al-Madanat, Q.*)
- 15:20 Production of chiral alcohols in small-scale continuous-flow systems with subsequent extraction by deep eutectic solvents (*Šmejkal, P.*, Sauer, L., Přebyl, M.*)
- 15:40 Symbiosis of Core-Shell and Fully Porous Particles: Implementing Both for Better HPLC and UHPLC Results (*Vlasák, J.**)
- 16:00 Coffee break**

14:00–18:00 Hala B, Prednášky: Obnoviteľné zdroje energie (SK industry section)

- 14:00 Otvorenie sekcie**
- 14:10 AIT industrial cooperation in cutting energy consumption in drying processes (*Lauermann, M.**)
- 14:30 Možnosti dekarbonizace průmyslových procesů pomocí tepelných čerpadel vyrábějících páru (*Caha, T.**)
- 14:50 Fotovoltaika s bateriovým uložením ako na to, aby sa to skutočne vyplatilo (*Pancotti, A.**)
- 15:10 Aj efektívna výroba stlačeného vzduchu prispieva k dekarbonizácii priemyslu (*Potrok, R.**)
- 15:30 Kogeneračná jednotka na báze zemného plynu ako zdroj tepla a elektrickej energie pre biometánovú stanicu (*ILLITH, R.**)
- 15:50 Dekarbonizácia výroby hnojív v spoločnosti Duslo, a.s. (*Volek, R.**)
- 16:10 Environmentalny fond - Modernizačný fond (*Person, P.**)
- 16:25 Analýza kvalitatívnych parametrov procesného média výrobného procesu pomocou merania rýchlosti zvuku a teploty neinvazívnou ultrazvukovou metódou clamp-on (*Ilko, J.**)
- 16:40 Coffee break**
- 17:10 Panelová diskusia (moderátor: Ján Janošovský, Envien Group)**
- 19:00–3:00 Conference party**

Thursday

08:20–10:00 Hall A, Lectures: Momentum, heat & mass transfer

- 08:20 A novel procedure for determining diffusion coefficients of ions in the hollow fiber ion exchange membranes (*Moravčík, M.**, *Červeňanský, I.*, *Komačková, E.*, *Mihal, M.*)
- 08:40 Development of a Digital Twin for Industrial Paper Impregnation Process (*Čižmár, M.**, *Režucha, M.*, *Variny, M.*, *Lager, D.*, *Leitner, G.*, *Pleschutzniq, E.*, *Mitterbauer, M.*, *Zimmerleiter, R.*, *Brandstetter, M.*, *Barz, T.*)
- 09:00 Drying Kinetics and Process Simulation: From Experiments to Modeling of a Belt Dryer and Heat Recovery Analysis (*Řežucha, M.**, *Lauermann, M.*)
- 09:20 Solubility of Iron and Chromium in Lead-Lithium Eutectic Alloy (*Gottfriedová, A.**, *Kordač, M.*, *Michalcová, A.*, *Kekrt, J.*, *Svoboda, V.*, *Augustínová, A.*)
- 09:40 Complex view on the hydrodynamics of stirred tank reactor (*Žák, A.**, *Moucha, T.*)
- 10:00 Coffee break**

10:20–13:00 Hall A, Lectures: Environmental engineering / Material engineering

- 10:20 Overview of Sulfur and Chlorin-based Contaminants Levels in Producer Gas Derived from Densified Refuse-Derived Fuel (d-RDF) and Their Elimination (*Nazari, M.**, *Haydary, J.*)
- 10:40 LRI ENREGAT EFFECTIVELY EXPANDS THE RANGE OF SERVICES (*Grycová, B.**, *Obalová, L.*)
- 11:00 Removal of VOCs from air in biotrickling filters: process intensification and valorization of trickling liquid and gaseous streams (*Rybarczyk, P.**, *Kucharska, K.*, *Szulczynski, B.*, *Korth, B.*, *Dobslaw, D.*)
- 11:20 An optimization of hardwood lignin precipitation towards new bio-based materials (*Nadányi, R.**, *Majerčíak, M.*, *Štosel, M.*, *Ház, A.*)

- 11:40 Lignin isolation and modification for advanced applications (*Ház, A.**, *Nadányi, R.*, *Štosel, M.*, *Jančíková, V.*)
- 12:00 Objective morphological characterization of porous hyaluronan films (*Keller, F.**, *Chmelař, J.*, *Mrázek, J.*, *Zubov, A.*)
- 12:20 Solar-Assisted Biomass Fast Pyrolysis: Optimization of Solar System Size and Thermodynamic Analysis (*Khudayar, D.**, *Haydary, J.*, *Nazari, M.*)
- 12:40 Reduction of tar, sulfur and chlorine components in gas produced by gasification of refuse-derived fuel (*Koritár, M.**, *Nazari, M.*, *Haydary, J.*)

09:15–12:45 Hala B, Prednášky: Obnoviteľné zdroje energie (SK industry section)

09:15 Otvorenie sekcie

- 09:20 Uspory energie a OZE v priemysle z pohľadu energetickeho auditora (*Máček, R.**)
- 09:40 Cesta Pivovaru Saris k obnoviteľným zdrojom energie (*Tučník, I.**)
- 10:00 Uspora vody a energie pri vyrobe buniciny (*Süttő, T.**)
- 10:20 Skusenosti s trigeneraciou v priemysle (*Urban, B.**)
- 10:40 Vyuzivanie tepla z vycistenej odpadovej vody pomocou tepelných cerpadiel na vykurovanie budov v areáli COV VWSK (*Chávez Fuentes, J.**, *Jurovich, M.*, *Pakos, M.*, *Janček, P.*)
- 11:00 Tvorba a ochrana inovácií v oblasti obnoviteľných zdrojov energie (*Noskovič, J.**)

11:20 Coffee break

11:50 Panelová diskusia (moderátor: Tibor Margetíny, SLOV-NAFT)

12:00–14:00 Lunch

13:00–14:00 Posting of posters for Poster session II

13:30–18:30 Bus trip to Levoča and Spiš castle; free program

13:55–18:00 Hala B, Prednášky: Technologická voda (SK industry section)

13:55 Otvorenie sekcie

14:00 Nove trendy biocidnej ochrany vod v priemyselnych podmienkach. (Lukáč, J. *)

14:20 Zníženie energetickej náročnosti dodávky priemyselnej vody pre potreby USSK plynulou reguláciou z hlavných zdrojov (Bugis, M. *, Kozák, M.)

14:40 Manazment vodneho hospodarstva Slovnaft, a.s. (Ivančinová, J. *)

15:00 Recirkulacia priemyselnych vod vo vyrobe a spracovaní skla (Ďurigová, M. *, Žiško, M., Kvasnica, T.)

15:20 AGS - nový spôsob cistenia odpadových vod v štýle znižovania uhlíkovej stopy. (Kratochvíl, K. *)

15:40 Možnosti intenzifikácie opätovného využitia tepelných prúdov v spoločnosti SLOVNAFT, a.s. (Hanus, K., Gašparovič, L.)

16:00 Úprava procesných vod pre elektrarne pomocou membránových procesov (Fehér, J. *)

16:20 Coffee break

16:50 Panelová diskusia (moderátor: Natália Václavíková, MemBrain)

18:00–20:00 Dinner

20:00–23:00 Poster session II

- 1 About the Faculty of Chemical Engineering at the University of Chemistry and Technology Prague (*Čejková, J.**)
- 2 Actual industrial wastewater treatment using textile waste (*Gloc, M.*, Paździor, K., Żyłła, R.*)
- 3 Advancing Sustainability: Utilizing Bacterial Polyhydroxyalkanoate for Food Packaging (*Stublić, K.**)
- 4 Analysis of innovative design solutions to reduce fresh water consumption in swimming pools (*Mika-Shalyha, A.*, Wyczarska-Kokot, J., Lempart-Rapacewicz, A.*)
- 5 An overview of the latest advancements in the field of rainwater and stormwater treatment (*Rapacewicz, R.*, Kudlek, E., Brukało, K.*)
- 6 Artificial neural network as a surrogate model in PLA bioplastic production (*Klee, K.*, Zubov, A.*)
- 7 Determination of biogas potential in food waste (*Seruga, P.*, Wilk, M., Mikulski, P.*)
- 8 Evaluation of mercury concentration and mobility in soils around a former chlor-alkali plant using diffusive gradients in thin films (DGT) technique (*Angyus, S., Frentiu, T., Frentiu, M.*, Covaci, E., Senila, M.*)
- 9 Extraction of bioactive compounds from *Prunus spinosa* L. (*Wilk, M.*, Seruga, P.*)
- 10 Hydroxynitrile lyase immobilization based on silica carriers (*Łochowicz, A.*, Hanefeld, U., Szymańska, K.*)
- 11 Influence of oxygen transfer rate on enzymatic redox cascade composed of alcohol dehydrogenase, enoate reductase and a Baeyer-Villiger monooxygenase (*Illeová, V.*, Oswaldová, N., Cabada, P., Polakovič, M.*)
- 12 Influence of using char from HTC on dark fermentation (*Domńska, M.*, Paździor, K., Ślęzak, R., Ledakowicz, S.*)
- 13 Investigation of the impact of the application of functional additives on the performance level of different types of lubricating greases (*Nagy, G.*, Nagy, R., Gerbovits, D., Jakab, M.*)

- 14 Kinetic Study of the Anthraquinone Dyes Degradation by Immobilized Peroxidase on Magnetite/Alginate Beads (*Jonovič, M., Jugovič, B., Bugarski, B., Dorđević, V., Knežević-Jugovič, Z.**)
- 15 Mathematical modelling of poly(lactide) depolymerization (*Kavalová, A.**, *Zubov, A.*)
- 16 Membrane-based microfluidic systems for preserving enzyme activity in reactions involving organic phase (*Vobecká, L.**, *Slouka, Z.*, *Příbyl, M.*)
- 17 Membrane Crystallization of Lithium (*Sedlák, L.**, *Červeňanský, I.*, *Komačková, E.*, *Fehér, J.*, *Markoš, J.*)
- 18 Methane fermentation of the microalgalbacterial granular sludge pretreated by ultrasounds (*Dębowski, M.**, *Zieliński, M.*, *Kazimierowicz, J.*)
- 19 Navigating the Landscape: Current Challenges and Emerging Trends in Utilizing Bacterial Polyhydroxyalkanoate from Renewable Feedstocks for Food Packaging (*Stublić, K.**)
- 20 Novel small-sized device for microsample introduction by electrothermal vaporization in microplasma sources for simultaneous determination by optical emission spectrometry (*Sergiu, C.*, *Covaci, E.**, *Frentiu, T.*, *Dorin, P.*)
- 21 Oil Marbles: A Promising Approach for Enhancing CBD Delivery (*Králová, E.**, *Brejchová, A.*, *Zavřel, F.*, *Štěpánek, F.*)
- 22 Optimization Of Membrane Hybrid Systems for Phenylacetaldehyde Production: A Genetic Algorithm Approach (*Paleš, E.**, *Mihaľ, M.*)
- 23 Ozonation of industrial wastewater to increase its potential for reuse (*Žgajnar Gotvajn, A.**, *Derco, J.*, *Čehovin, M.*)
- 24 Polymer additives removal for sustainable recycling of plastics (*Řiháková, L.**, *Klímošek, J.*, *Jindrová, K.*, *Kosek, J.*)
- 25 Possibilities of nitrogen removal from pyrolysis oil during pyrolysis experiments. (*Klemencova, K.**, *Grycová, B.*, *Wdovková, R.*, *Leštinský, P.*)
- 26 Preparation of ammonia synthesis catalysts based on nitrides of selected transition metals. (*Czerwonko, W.**, *Moszyński, D.*)

- 27 Production of Bioactive Peptides from RuBisCO Protein Fractions of Pumpkin Leaves through In Vitro Enzymatic Hydrolysis and In Silico Method (*Knežević-Jugović, Z.**, *Knezevic Jugovic, Z.*, *Jovanović, J.*, *Šimović, R.*, *Korićanac, M.*, *Jugović, B.*, *Antov, M.*)
- 28 Production of co-processed poorly soluble drug:excipient mixtures immobilized by spray drying (*Sochor, J.**, *Klimša, V.*, *Zavřel, F.*, *Štěpánek, F.*)
- 29 Smart solutions in the pyrolysis process of processing automotive waste (*Klačko, A.**, *Zvada, B.*, *Holubčík, M.*, *Nosek, R.*)
- 30 Speciation of toxic metals in soil as total and labile fraction using diffusive gradients in thin films (DGT) passive sampling and determination by capacitively coupled plasma optical emission spectrometry (*Covaci, E.**, *Angyus, S.*, *Senila, M.*, *Frentiu, M.*, *Frentiu, T.*)
- 31 Synthesis and Analysis of Core-Shell Polymer Micro particles for Microbial Encapsulation (*Staňová, S.**, *Čejková, J.*)
- 32 The efficiency of biogas production in the microwave-assisted anaerobic treatment of poultry waste (*Zieliński, M.**, *Dębowski, M.*, *Rusanowska, P.*)
- 33 The influence of bacterial cellulose on properties of alginate-based bioink (*Wojciechowska, A.**, *Sutkowski, M.*, *Butruk-Raszeja, B.*, *Ciach, T.*)
- 34 The Role of Glucan Particles in Drug Formulation: a Carrier for Enhancing Solubility of Natural Substances (*Brejchová, A.**, *Králová, E.*, *Mutylo, E.*, *Opravič, A.*, *Štěpánek, F.*)
- 35 Triboelectric sorting of plastic waste: the role of materials used in a charger unit (*Drápela, M.*, *Vaszi, M.*, *Sklenářová, J.**, *Perner, J.*, *Kosek, J.*)
- 22:40–23:00 Hall A, Poster awards; Closing of conference**

50th International Conference of SSCHE
May 20 - 24, 2024, Tatranské Matliare, Slovakia

Friday

8:00–13:00 **Departure of participants**

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