

List of Posters

(in alphabetical order, presenting authors and their institutions are shown in bold)

Presented at EcoBalt 2023 (October 10-11, 2023)

P-1 Agnese Araja (University of Latvia, Latvia), Maja Remskar, Maris Bertins, Laima Plaveniece, Arturs Viksna

Burning of fountain candles indoor – a moment of joy versus indoor air quality concerns

P-2 Giuseppe Leonardo Auditano (National Institute of Chemical Physics and Biophysics, Estonia), Karolin Kullison, Tuuli Käämbre and Kersti Tepp

The effects of pesticides on the bioenergetics of intestinal cells

P-3 Rūta Aukštakojytė (Vilnius University, Lithuania), Justina Gaidukevič, Jurgis Barkauskas

Structural and morphological investigations of N- and B-modified reduced graphene oxide

P-4 Lauma Busa (University of Latvia, Latvia), Gunita Celma, Linda Legzdina, Arturs Viksna, Indra Locmele

Variation of carbon and nitrogen stable isotope ratios in conventionally and organically fertilized cereals at different growth stages

P-5 Roxana Colque Orellana (Universidad Mayor de San Andres, Bolivia)

Study of pesticides in Bolivian quinoa (*Chenopodium quinoa* Willd) by gas chromatography with mass detector GC-MS

P-6 Eglė Didžiulytė (Kaunas University of Technology, Lithuania), Rasa Šlinkšienė

Analysis and usage perspective of solid digestate

P-7 Vladyslav Dovhalyuk (Uppsala University, Sweden), Amanpreet Kaur, Weifeng Lin, Ioanna Tsiara, Sydney Mwasambu, Daniel Globisch

Exploring gut microbiota metabolism – new chemical biology tools for metabolomics analysis



- P-8 Kristin Dööna (Tallinn University of Technology, Estonia), Piia Jõul, Merike Vaher**
Extraction and determination of total phenolic, flavonoid contents, and volatile compounds in *Epilobium angustifolium* and *Cannabis sativa* varieties
- P-9 Daniela Dzene (University of Latvia, Latvia), Larisa Baumane, Daina Riekstina, Gunta Kizane**
Comparison of the accumulation of free radicals in two moss species growing in Latvia
- P-10 Kristel Ets (Fibenol OÜ, Estonia), Rait Kivi**
Quality control optimization in novel wood fractionation demoplant
- P-11 Rocco Gasco (University of Geneva, Switzerland), Isabelle A. Worms, Vera I. Slaveykova**
Interaction between extracellular polymeric substances from diatom *Cyclotella meneghiniana* and citrate coated silver nanoparticles
- P-12 Anne Leung, Emma Rowan, Dimitrios Kakavas, Konstantinos Panagiotidis, Keith D. Rochfort, Konstantinos Grintzalis (Dublin City University, Republic of Ireland)**
Revisiting nanotoxicology tests – miniaturised approaches of nanotoxicity tests in daphnids
- P-13 Goda Gudinskaitė (Kaunas University of Technology, Lithuania), Rasa Paleckienė**
Frass analysis and usage perspectives
- P-14 Vladimer Tsitsishvili, Nato Mirdzveli, Lusine Harutyunyan (Armenian National Agrarian University, Armenia), Hakob Sargsyan, Alla Manukyan, Lena Tangamyán, Nanuli Dolaberidze, Manana Nijaradze, Nagima Jakipbekova, Gulaim Seisenbaeva**
Characterization of natural zeolites of Armenia, Georgia and Kazakhstan and their thermally modified forms
- P-15 Greta Inkrataitė (Vilnius University, Lithuania), Jan-Niklas Keil, Thomas Jüstel, Ramūnas Skaudžius**
Improving the luminescence properties of lutetium aluminum garnets by doping different amounts of boron
- P-16 Angela Ivask (University of Tartu, Estonia), Merilin Rosenberg, Vambola Kisand**
Towards the development of sustainable antimicrobial surface coatings
- P-17 Martin Jakoobi (LCC Toulouse, France), Guillaume Carnide, Laure Vendier, Christian Bijani, Anne-Françoise Mingotaud, Richard Clergereaux, Myrtil L. Kahn**

Synthesis of molybdenum oxide and sulfide nanoparticles at room temperature using organometallic approach

P-18 Tomas Jambor (Slovak University of Agriculture in Nitra, Slovakia), Lucia Zuscikova, Hana Greifova, Nikola Knizatova, Anton Kovacik, Norbert Lukac

Neonicotinoids: agrochemicals with toxic impact on reproductive functions in males

P-19 Kristina Jančaitienė (Kaunas University of Technology, Lithuania), Ramunė Sidaraitė

Liquid complex fertilizers with bio additives

P-20 Tatsiana Jarg (Tallinn University of Technology, Estonia), Ketren-Marlein Lootus, Sandra Kaabel and Riina Aav

Selective capture of small environmental pollutants by cyclohexanohemicucurbit[n]urils

P-21 Arin Kantarciyan (University of Geneva, Switzerland), Inés Segovia Campos, Vera I. Slaveykova

Interactions of diatom *Cyclotella meneghiniana* and citrate coated silver nanoparticles

P-22 Tetiana Kyrpel (University of Tartu, Estonia), Vita Saska, Ievgen Mazurenko

Hydrogenase-based electrode for hydrogen sensing in a fermentation bioreactor

P-23 Jüri Laanoja (National Institute of Chemical Physics and Biophysics, Estonia), Mariliis Sihtmäe, Maarja Otsus, Anne Kahru, Kaja Kasemets

Synthesis and antibacterial efficiency of chitosan-copper oxide nanocomposites

P-24 Kriss Davids Labsvards (University of Latvia, Latvia), Anastasija Borisova, Kristina Kokina, Maris Bertins, Arturs Viksna, Vita Rudovica

Multi-element profile characterization in monofloral honey

P-25 Mari-Liis Leinus (Tallinn University of Technology, Estonia), Piia Jõul, Martin Ruzicka, Jelena Gorbatšova, Merike Vaher, Ruth Shimmo, Jekaterina Mazina-Šinkar

Future perspective of *in-situ* soil analysis

P-26 Viktorija Liustrovaite (Vilnius University, Lithuania), Dovydas Karoblis, Benediktas Brasiunas, Anton Popov, Arunas Ramanavicius, Maria Teresa Giardi, Donats Erts, Almira Ramanaviciene

Optimising ZnO nanostructures for label-free electrochemical immunosensor used for antibody detection against prostate-specific antigen

- P-27 Cuizhu Ma (University of Geneva, Switzerland), Vera I. Slaveykova**
“Hook & loop” interactions between fibrous microplastics and zooplankton
- P-28 Mahendra K. Mohan (Tallinn University of Technology, Estonia), Harleen Kaur, Ella Duvanova, Merilin Rosenberg, Marcos Dahlem, Angela Ivask, Jean-Manuel Raimundo, Tiit Lukk, Yevgen Karpichev**
Synthesis and Antibacterial Properties of Lignin-based Quaternary Ammonium and Phosphonium Salts
- P-29 Dmitri Nikitin (Tallinn University of Technology, Estonia), Juri Bolobajev, Marina Krichevskaya, Lukas Pilar, Monika Vitvarova, Sergei Preis, Niina Dulova**
Application of fly ash of lignite combustion in air and water purification
- P-30 Andrius Pakalniškis (Vilnius University, Lithuania), Gediminas Niaura, Dmitry Karpinsky, Guillaume Rogez, Pierre Rabu, Shih-Wen Chen, Thomas Chung-Kuang Yang, Ramūnas Skaudžius, Aivaras Kareiva**
Crystal and magnetic structure transitions in doped Lu and Fe based perovskite oxides
- P-31 Jevgenija Ponomarenko, Matiss Pals (Latvian State Institute of Wood Chemistry, Latvia), Oskars Bikovens, Alexandr Arshanitsa**
Influence of black alder bark extractives as integral building blocks on the susceptibility to biodegradation of resilient polyether polyurethanes
- P-32 Anastasija Petrova (National Institute of Chemical Physics and Biophysics, Estonia), Aljona Lukjanova, Irina Blinova, Heiki Vija, Margit Heinlaan**
Hazard evaluation of novel plasticizer, Di(2-propylheptyl) phthalate, to aquatic ecosystems
- P-33 Odeta Pocienė (Kaunas University of Technology, Lithuania), Rasa Šlinkšienė**
Buckwheat husks, ash and biomass for sustainable plant fertilization and soil improvement
- P-34 Merilin Raudna-Kristoffersen (Vågan Municipality, Norway & University of Tartu, Estonia), Margit Heinlaan, Angela Ivask, Randel Kreitsberg**
Norwegian national plan for cleaning contaminated seabeds - Cooperation possibilities between the public sector and the academia
- P-35 Angelo Robiños (Åbo Akademi University, Finland), Hao Zhang, Zekra Mousavi, Jan-Henrik Smått, Tor Laurén, Leena Hupa, Chunlin Xu, Johan Bobacka**
Effect of MgO templating on the synthesis and properties of dissolved lignin-based hard carbon for Na-ion battery applications

- P-36 Kristaps Saršūns (University of Latvia, Latvia), Agris Bērziņš and Toms Rekis**
Solid solution formation in xanthone – thioxanthone binary system: experimental investigation
- P-37 Mariliis Sihtmäe (National Institute of Chemical Physics and Biophysics, Estonia), Jüri Laanoja, Irina Blinova, Anne Kahru, Kaja Kasemets**
Toxicity of silver-chitosan nanocomposites to aquatic species
- P-38 Kristjan Siilak (Tallinn University of Technology, Estonia), Lukaš Ustrnul, Riina Aav**
Silver assisted binding of anions by biotin[6]uril
- P-39 Marika Truu, Teele Ligi, Hiie Nõlvak, Angela Peeb, Kertu Tiirik, Arun Devarajan, Margit Kõiv-Vainik, Kuno Kasak, Kaja Kasemets, Jaak Truu (University of Tartu, Estonia)**
Silver nanoparticles may promote antibiotic resistance gene persistence in wastewater treatment systems
- P-40 Anett Välimets (National Institute of Chemical Physics and Biophysics, Estonia), Kairi Koort, Monika Mortimer**
Biocompatibility of metal-phenolic network-coated nanoparticles
- P-41 Kārlis Vonda (University of Latvia, Latvia), Olga Muter, Dita Gudrā, Dāvids Fridmanis, Ineta Kalniņa, Vadims Bartkevics, Aija Dēliņa, Andrejs Grīnbergs**
Characteristics of landfill leachates as a microbial resource for plastic degradation: A study of solid waste dumping site of Getlini, Latvia
- P-42 Yue Wang (South China University of Technology, China), Xiufang Liang, Fei He, Huayuan Tang, Xiang Yin, Nicholas Andrikopoulos, Yuhuan Li, Monika Mortimer, Guotao Peng, Pu Chun Ke**
Mitigation of metal oxide nanotoxicity with functional fibrils
- P-43 Yijiao Yao (University of Reading, United Kingdom), Uta Schnabel, Jörg Ehlbeck, Kimon-Andreas Karatzas**
Optimization and upscaling of non-thermal atmospheric plasma for food processing
- P-44 Aleksej Zarkov (Vilnius University, Lithuania), Diana Griesiute, Arita Dubnika, Dominika Zakutna, Vaclav Tyrpekl**
Low-temperature synthesis and characterization of iron whitlockite ($\text{Ca}_{18}\text{Fe}_2(\text{HPO}_4)_2(\text{PO}_4)_{12}$)
- P-45 Anna Zobel (University of Tartu, Estonia)**
Pilot study of grassland soil soluble organic matter with high resolution mass spectrometry