



***31st International
Symposium on Analytical and Environmental Problems***

POSTER SCHEDULE



***Szeged, Hungary
October 13-14, 2025
University of Szeged***

Poster Presentations: Monday

Poster presenters are asked to hang up their posters between 8³⁰-10⁰⁰ Monday, and remove them after 16³⁰.

- Mo_1. Mirela Ahmadi:** MOLECULAR NUTRITION MEETS ENVIRONMENTAL SCIENCE: A REVIEW OF NOVEL BIOACTIVE COMPOUNDS AND THEIR ECOTOXICOLOGICAL IMPACT
- Mo_2. Radu Banica:** PRECURSOR-DRIVEN RAPID SOLID-STATE SYNTHESIS OF YBO₃: TOWARD EFFICIENT Pr³⁺-DOPED UPCONVERSION HOSTS
- Mo_3. Alexandra Bargan:** NEW SILICONE-BASED MEMBRANES WITH FUNCTIONALIZED SILSESQUOXANES. CHARACTERIZATION AND PERSPECTIVES FOR ENVIRONMENTAL AND BIOLOGICAL APPLICATIONS
- Mo_4. Maria-Roxana Biricioiu:** UNCOVERING GANGLIOSIDE BIOMARKERS IN HUMAN EPILEPSY BY ION MOBILITY MS/MS
- Mo_5. Alexandra Ioana Bucur:** REINTEGRATION OF SEASHELLS WASTE FOR WATER PURIFICATION
- Mo_6. Alexandra Ioana Bucur:** SEM STUDY OF CALCIUM PHOSPHATES ELECTRODEPOSITED ON Ti SUPPORT FROM ACIDIC ELECTROLYTE SOLUTION
- Mo_7. Bucur Raul Alin:** PRELIMINARY STUDY OF TiO₂@In₂O₃ OBTAINED FROM SOLVOTHERMAL SYNTHESIS AS POTENTIAL RECOMBINATION BARRIER LAYER IN DYE SENSITIZED SOLAR CELLS
- Mo_8. Simon Busuioc:** ELECTROCHEMICAL RESPONSE OF METAL OXIDES IN SODIUM HYDROXIDE
- Mo_9. Doru Buzatu:** ADVANCED HYBRID THIN FILMS BASED ON MONTMORILLONITE FUNCTIONALIZED WITH PEROVSKITE NANOSTRUCTURES
- Mo_10. Mihaela Lăcătuș, Ioan Ladislav Caba:** THE INFLUENCE OF CLIMATIC CONDITIONS ON AMARANTHUS RETROFLEXUS L. AND CHENOPODIUM ALBUM L. PLANTS
- Mo_11. Cristian Casut:** CONDUCTIVITY AND CHARGE TRANSPORT IN SILICONE COMPOSITES CONTAINING PEROVSKITE POWDERS
- Mo_12. Anișoara Duma Copcea:** STUDIES ON REDUCING ENVIRONMENTAL POLLUTION PRODUCED BY AGRICULTURAL TRACTORS
- Mo_13. Anemona-Mariana Cornea:** ELECTROCHEMICAL BEHAVIOR OF COPPER N,N'-BIS[(2-HYDROXYBENZILIDENEAMINO)-PROPYL]-PIPERAZINE AS COORDINATION POLYMER IN SALINE SOLUTION
- Mo_14. Cozma Antoanela:** EVALUATION OF THE NUTRITIONAL PROFILE OF RED ONION (ALLIUM CEPA L.) – PRELIMINARY RESULTS
- Mo_15. Aurelia Visa, Luminita Crisan:** CHEMISTRY WITH IMPACT IN EDUCATION FOR A HEALTHY LIFESTYLE
- Mo_16. Raluca Ica:** GLYCOLIPIDOMIC CHARACTERIZATION OF ASTROCYTOMA AND ADJACENT TISSUE: A MASS SPECTROMETRY APPROACH TO GANGLIOSIDE PROFILING
- Mo_17. Ioana M.C. Ienașcu:** DETERMINATION OF THE SUPRAMOLECULAR ARCHITECTURE OF SOME N-(2-BROMOPHENYL)-2-HYDROXY-BENZAMIDE INCLUSION COMPLEXES
- Mo_18. Mazăre Veaceslav:** THE CHARACTERIZATION AND VALUATION OF THE POTENTIAL OF THE AGRICULTURAL LAND FUND IN THE MUNICIPALITY OF SACALAZ, TIMIȘ COUNTY
- Mo_19. Mihaela Gherban:** CORROSION TEST IN 0.1 M HCl OF THE PSEUDO-BINARY OXIDES UNDOPEDED AND DOPED WITH Er³⁺ IONS
- Mo_20. Casiana Mihuț:** THE IMPACT OF PEDOCLIMATIC CONDITIONS AND TECHNOLOGICAL ADAPTATION ON WINE PRODUCTION IN THE RECAȘ VINEYARD CENTER (2023–2024)
- Mo_21. Vlad Dragoslav Mircov:** CHARACTERIZATION OF THE RAINFALL AND WIND REGIME AT THE TIMISOARA AND SANNICOLAU MARE METEOROLOGICAL STATIONS OVER A FIVE-YEAR PERIOD
- Mo_22. Diana Moigradean:** OXIDATIVE STABILITY OF FORTIFIED SESAME OIL WITH SPICES
- Mo_23. Mina Morariu (Popescu):** ANTICORROSIVE NANOMATERIALS OF THE TYPE ZN₃NB₂O₈ UNDOPEDED AND DOPED WITH TRIVALENT ER³⁺ IONS IN SALINE ENVIRONMENT
- Mo_24. Cristina Mosoarca:** BLUE-TO-UVC UPCONVERSION PHOSPHOR–POLYMER HYBRIDS FOR LIGHT-DRIVEN ANTIMICROBIAL APPLICATIONS
- Mo_25. Simona Gabriela Muntean:** REMOVAL OF DYES FROM TERNARY SYSTEM BY ADSORPTION
- Mo_26. Ileana Nichita:** THE CHARACTERIZATION OF RECYCLED ACRYLONITRILE-DIVINYLBENZENE POLYMER FOR POSSIBLE ANTIMICROBIAL TESTS
- Mo_27. Mircea Nicolaescu:** INTEGRATION OF AEROTITANIA MICROTUBES IN UV PHOTODETECTORS
- Mo_28. Okros Adalbert:** THE COURSE AND EVOLUTION OF AGRICULTURE IN THE BERLIȘTE AREA, CARAȘ SEVERIN COUNTY
- Mo_29. Okros Adalbert:** THE COURSE AND EVOLUTION OF AGRICULTURE IN CUJMIR, MEHEDINTI COUNTY
- Mo_30. Nomuun Oyunbat:** CHARACTERIZATION OF NEW PEPTAIBIOTICS IN MONGOLIAN TRICHODERMA ISOLATES
- Mo_31. Muhammad Iqbal Perdana:** CHARACTERIZATION AND APPLICATION OF STARCH/CHITOSAN-BASED FILM INCORPORATED WITH VANILLIN FOR ACTIVE FOOD PACKAGING
- MO_32. Ádám Pító:** SYNTHESIS AND CHARACTERIAZTION OF PROMOTED Fe₃O₄ CATALYSTS FOR CO₂ REDUCTION
- Mo_33. Mariana-Atena Poiana:** FORMULATION OF FUNCTIONAL ORANGE JELLIES ENRICHED WITH ROSEHIP POWDER
- Mo_34. Sofia Popescu:** CHEMICAL PROPERTIES AND NUTRITIONAL RELEVANCE OF ROMANIAN EDIBLE FOREST FRUITS
- Mo_35. Florina Radu:** IMPACT OF ESSENTIAL OILS FROM ROMANIAN AROMATIC PLANTS ON MICROBIOLOGICAL QUALITY OF SOFT GOAT CHEESE
- Mo_36. Laura Rădulescu:** EXOTIC FRUIT JAM – SENSORY AND PHYSICOCHEMICAL CHARACTERIZATION
- Mo_37. Zoltán Gergő Rojkó:** FROM LABORATORY TO SEMI-PILOT SCALE: FISCHER-TROPSCH SYNTHESIS OVER A NA-Fe₃O₄ CATALYST FOR E-FUEL APPLICATIONS

- Mo_38. Gyula Kajner, Szabolcs Roszik:** *PERFORMANCE COMPARISON OF TWO SUBSTRATE-BASED APPROACHES FOR LIQUID LIBS ANALYSIS: NANOPOROUS GLASS vs. Si-WAFER*
- Mo_39. Nataliia Rudenko:** *STAINLESS STEEL-BASED ELECTROCATALYSTS FOR SULFITE OXIDATION IN ALKALINE MEDIA*
- Mo_40. Florina Stefania Rus, Cadis Adrian-Ionut:** *OBTAINING AND CHARACTERIZATION OF TiO₂ BY DIP COATING FOR UV-BLOCKING APPLICATIONS*
- Mo_41. Scedei Daniela Nicoleta:** *DETERMINATION OF BIOMETRIC AND CHEMICAL PARAMETERS IN THE FRUITS OF SOME QUINCE VARIETIES*
- Mo_42. Daniela Stoin:** *FABA BEAN FLOUR: AN ALTERNATIVE SOURCE FOR DEVELOPING GLUTEN-FREE PASTA WITH FUNCTIONAL PROPERTIES*
- Mo_43. Stroia Marius:** *IMPACT OF PEDOGENETIC FACTORS ON THE MORPHOLOGICAL AND CHEMICAL PROPERTIES OF REPRESENTATIVE SOILS IN PECICA, WESTERN ROMANIA*
- Mo_44. Boglárka Szász, József Mihalkó:** *ANALYSIS OF THE AMOUNT AND ENVIRONMENTAL IMPACT OF FOOD WASTE IN THE FOOD INDUSTRY*
- Mo_45. Nermin Tahboub:** *AEROBIC FERMENTATION OF SORGHUM BY LACTOBACILLUS ACIDOPHILUS: IMPACT ON BACTERIAL GROWTH, PHENOLIC COMPOSITION, AND ENZYMATIC ACTIVITY*
- Mo_46. Eszter Takács:** *MONITORING OF CARBAMAZEPINE PHARMACEUTICAL ACTIVE INGREDIENT IN RIVER DANUBE AND LAKE BALATON*
- Mo_47. Milica Țară-Lungă-Mihali:** *ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY STUDY OF ZINC METAL PHOSPHONATES IN SALINE SOLUTION*
- Mo_48. Bogdan-Ovidiu Taranu:** *AN OVERVIEW OF SPECIFIC PORPHYRIN DERIVATIVE-INVOLVING STUDIES REPORTED IN A TEN YEAR PERIOD AT THE INTERNATIONAL SYMPOSIUM ON ANALYTICAL AND ENVIRONMENTAL PROBLEMS (ISAEP)*
- Mo_49. Kittí Tari:** *HPLC-MS/MS-BASED METABOLOMIC ANALYSIS OF PSEUDOMONAS ISOLATES*
- Mo_50. Gréta Tari:** *3D-PRINTED DYNAMIC PROMOTER EFFICIENCY TESTING IN A LOW-PRESSURE MIXING CELL*
- Mo_51. Patricia-Cristina Tarkanyi:** *THE INFLUENCE OF WATER CONTENT ON THE MINERAL CONTENT OF URTICA DIOICA PLANT*
- Mo_52. Marina Alexandra Tudoran:** *STATISTICAL ANALYSIS METHODS IN EXPLAINING THE RELATIONSHIP BETWEEN THE BIOCONCENTRATION FACTOR AND MOLECULAR DESCRIPTORS - APPLICATIONS TO SMALL POLYCYCLIC AROMATIC HYDROCARBONS*
- Mo_53. Melinda Vajda:** *TOWARD Pt-FREE INDOOR DYE SENSITIZED SOLAR CELLS: PEDOT/GRAPHENE OXIDE SUSTAINABLE COUNTER ELECTRODES*
- Mo_54. Cristian-George Vaszilcsin:** *USE OF HYDROQUINONE AS CORROSION INHIBITOR FOR CARBON STEEL IN ACETIC ACID / SODIUM ACETATE BUFFER SOLUTION*
- Mo_55. Ariana-Bianca Velciov:** *EVALUATION OF SOME NUTRITIONAL PARAMETERS OF WILD ROSE HIP POWDER*
- Mo_56. Mirela Sarbu:** *UNRAVELLING THE COMPLEXITY OF HUMAN BRAIN GLYCOSAMINOGLYCANS: A STUDY OF CHONDROITIN/ DERMATAN SULFATES BY ION MOBILITY MASS SPECTROMETRY*
- Mo_57. Selena Samardžić Cvijanović:** *AMBIENT MONITORING: A POTENTIAL APPROACH TO ENHANCING EMPLOYEE PERFORMANCE AND PRODUCTIVITY*
- Mo_58. Ivana Jevtić:** *ASSESSMENT OF MIGRATION OF SUBSTANCES FROM BIODEGRADABLE PACKAGING MATERIALS INTO FOOD PRODUCTS USING ADVANCED ANALYTICAL TECHNIQUES: CHALLENGES AND POTENTIAL FOR SUSTAINABLE DEVELOPMENT*
- Mo_59. Mira Pucarević:** *PESTICIDE RESIDUES IN AGRICULTURAL SOILS: EMPHASIZING THE NEED FOR NATIONAL-LEVEL MONITORING*

Poster Presentations: Tuesday

Poster presenters are asked to hang up their posters between 8³⁰-10⁰⁰ Tuesday, and remove them after 16³⁰.

- Tu_1. Edina Albert: *AWARENESS OF MICROPLASTIC POLLUTION*
- Tu_2. László Berényi: *USING ENERGY SAVING FUNCTIONS: PERSONAL OPINIONS*
- Tu_3. Sándor Beszédes: *MONITORING OF ORGANIC MATTER REMOVAL EFFICIENCY IN WASTEWATER AND SLUDGE TREATMENT PROCESSES BASED ON DIELECTRIC MEASUREMENTS*
- Tu_4. Patrik Szabó: *PLASTICS HIT DIFFERENT: GRAM-NEGATIVE VS. GRAM-POSITIVE RESPONSES*
- Tu_5. Tamás Bodor: *SYNTHESIS AND CHARACTERIZATION OF NITRIC OXIDE DONOR NANOSTRUCTURED DENDRITIC MESOPOROUS TETRASULFIDE-BRIDGED ORGANOSILICA WITH PROSPECTS FOR ENVIRONMENTAL APPLICATION*
- Tu_6. Aleksandra Čavić: *PM10 AND PM2.5 EMISSION AND ANALYSIS FROM RESIDENTAL COMPLEX CONSTRUCTION SITE IN SREMSKA KAMENICA, SERBIA*
- Tu_7. Jovana Čugalj: *EVALUATION OF ENERGY EFFICIENCY MEASURES IN PUBLIC INSTITUTIONS*
- Tu_8. Tatjana Dujković: *ASSESSMENT OF ANTIBIOTIC RESISTANCE IN A GRAPEVINE-DERIVED *Bacillus* sp. ISOLATE*
- Tu_9. Botond Dezső: *ANALYSIS AND POSSIBLE USES OF CANNING PLANT WASTE*
- Tu_10. Nataša Đurišić-Mladenović: *EXPLORATION OF *QuEChERS* EXTRACTION FOR MULTICLASS EMERGING CONTAMINANTS*
- Tu_11. Réka Dobozi: *RESISTANCE STRUCTURE AND SOLUTE REMOVAL PATHWAYS IN UF-DF OF SWEET WHEY*
- Tu_12. Tatjana Dujković: *PLANT GROWTH-PROMOTING POTENTIAL OF *Bacillus* sp. ISOLATED FROM VINEYARD SOIL*
- Tu_13. Laura C. Erdei: *A MULTIDRUG RESISTANCE SELECTIVE ANTICANCER 8-HYDROXYQUINOLINE DERIVATIVE AND ITS *RhCp** COMPLEX*
- Tu_14. Kornél Erdős: *APPLICATION OF UV/SULFITE ADVANCED REDUCTION PROCESS FOR ELIMINATION OF THE PFOA, A „FOREVER CHEMICAL”*
- Tu_15. Zita Farkas Agatić: *COMPLEXATION OF SALICYLIC ACID WITH SELECTED SURFACTANTS*
- Tu_16. Boglárka Gábor: *THE INCORPORATION OF PROPANOLOL HYDROCHLORIDE INTO LIPOSOMES*
- Tu_17. Bojana G. Velečković Gajinović: *QUANTITATIVE INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT: AN OPTIMIZATION PERSPECTIVE*
- Tu_18. Dorina R. Gál: *INTERACTIONS OF *As(III)*, *Sb(III)* AND *Hg(II)* SPECIES WITH HUMAN SERUM ALBUMIN*
- Tu_19. Attila Nagy, Gábor Galbács: *TECHNICAL AND ANALYTICAL CHALLENGES INVOLVED IN DRONE-BASED LASER-INDUCED BREAKDOWN SPECTROSCOPY MEASUREMENTS FOR SECURITY APPLICATIONS*
- Tu_20. Zsolt Garzó: *PREPARATION AND STABILITY TESTING OF FLAVOURED WHIPPED CREAM WITH LYOPHILIZED INGREDIENTS*
- Tu_21. Gerda T. Gátszegi: *COPPER(II) COMPLEXES OF THIOSEMICARBAZONES WITH EXCELLENT WATER SOLUBILITY: SOLUTION EQUILIBRIUM STUDIES AND NANOFORMULATION*
- Tu_22. Lenka Grubač, Milana Pribić: *USE OF UNMALTED CEREALS IN WORT PRODUCTION: TECHNOLOGICAL EVALUATION AND QUALITY ASSESSMENT*
- Tu_23. Réka S. Gyimesi: *ARSENIC(III) DETECTION USING A WHOLE-CELL BIOSENSOR*
- Tu_24. Gergő Gyürsós: *OVERVIEW OF THE POTENTIAL ROLE OF LACTIC ACID BACTERIA IN THE REDUCTION OF MYCOTOXINS AND PESTICIDE RESIDUES IN FOOD AND FEED*
- Tu_25. Dániel Hercegfalvi: *HRMS ANALYSIS OF SURFACTIN-TYPE COMPONENTS PRODUCED BY *BACILLUS* STRAINS ISOLATED FROM ENVIRONMENTAL SAMPLES*
- Tu_26. Klaudia Hoffmann: *SEQUENTIAL EXTRACELLULAR ORGANIC MATTER-TREATMENT BOOSTS BIOREMEDIATION EFFICIENCY*
- Tu_27. Zoltán Péter Jákói: *COMPARATIVE KINETIC ANALYSIS OF ANAEROBIC BIOLOGICAL DEGRADATION OF SLUDGE*
- Tu_28. Annabella Juhász-Erdélyi: *BOOSTING ANAEROBIC LIGNOCELLULOSE UTILIZATION VIA SYNTROPHIC INTERACTIONS*
- Tu_29. Mariann Kis: *COLORIMETRIC QUANTIFICATION OF CYANOBACTERIAL BIOFILM UNDER DIFFERENT LIGHT ENVIRONMENT*
- Tu_30. Szandra Klátyik: *APPLICABILITY OF FLUORESCENCE-BASED IMMUNOBIOSENSOR ON HEAT SHOCK PROTEIN DETERMINATION IN GREEN ALGA *CHLORELLA VULGARIS**
- Tu_31. Etelka Kovács: *THE HAPPY MARRIAGE OF METHANOGENIC ARCHAEA AND ANAEROBIC FUNGI*
- Tu_32. Dániel Kovács: *INVESTIGATION OF RECOMBINANT B-GALACTOSIDASE FROM *RHIZOMUCOR PUSILLUS**
- Tu_33. J. Kozić: *CARBON QUANTUM DOTS: GREEN MICROWAVE-ASSISTED SYNTHESIS, PROPERTIES AND APPLICATION IN ROSE BENGAL DYE REMOVAL*
- Tu_34. Zsóka Kratožil: *UNVEILING HOUSEHOLD FOOD WASTE: SURVEY RESULTS FROM THE HOUSEHOLDS FROM VOJVODINA REGION, SERBIA*
- Tu_35. Borbála Machlik: *INVESTIGATION OF POLYMER SPECTRA WITH NANO- AND FEMTOSECOND LASER INDUCED BREAKDOWN SPECTROSCOPY*
- Tu_36. Ivana Maksimović: *SCREENING OF WHEAT CULTIVARS FOR TRAITS RELATED TO WATER USE EFFICIENCY*

- Tu_37. Edit Mali-Gáspár:** *INVESTIGATION OF SOME PHYSICAL AND PHYSICOCHEMICAL CHARACTERISTICS OF CORNELIAN CHERRY (CORNUS MAS L.) GENOTYPES*
- Tu_38. Beáta Kőrösi Sóti, Maja Manojlović:** *CHARACTERISATION, COMPOSTING AND USE OF SPENT MUSHROOMS SUBSTRATE AS ORGANIC FERTILIZER*
- Tu_39. Masoud Shirzadi Ahoudashti:** *ENABLING THE REVERSE WATER GAS SHIFT REACTION AT HIGH PRESSURE AND LOW TEMPERATURE TOWARDS EFFICIENT CO₂ CONVERSION*
- Tu_40. Corina-Iuliana Megyesi:** *DEVELOPMENT AND EVALUATION OF PEAR JAM ENRICHED WITH POPPY SEEDS AS A FUNCTIONAL FOOD PRODUCT*
- Tu_41. Damir Pinter, Nataša Milošević:** *IN SILICO EVALUATION OF THE ECOTOXICOLOGICAL POTENTIAL AGAINST DAPHNIA MAGNA OF SUCCINIMIDE DERIVATIVES FROM FOUR HOMOLOGOUS SERIES*
- Tu_42. Damir Pinter, Nataša Milošević:** *ECOTOXICITY OF DIHYDROPYRIDINES, CALCIUM CHANNELS BLOCKERS: IN SILICO SURVEY*
- Tu_43. Mirjana Antonijević-Nikolić:** *A NEW Zn(II) COMPOUND WITH A MACROCYCLIC LIGAND tpmc. SYNTHESIS AND CHARACTERIZATION*
- Tu_44. Sándor J. Papp:** *SECOND-LIFE ASSESSMENT OF AUTOMOTIVE BATTERIES AT THE UNIVERSITY OF SZEGED*
- Tu_45. Milana Pribić:** *EFFECT OF UNMALTED TRITICALE AND MASHING REGIME ON WORT AMINO ACID PROFILES*
- Tu_46. Marina Putnik-Delić:** *EFFECTS OF CADMIUM ON THE MINERAL CONTENT OF SWISS CHARD AND STRATEGIES FOR REDUCING ITS HARMFUL IMPACT*
- Tu_47. Radoš Raonić:** *DIFFUSE REFLECTANCE SPECTROSCOPY OF (Y,Me)NbO₄:Er,Yb PHOSPHORS (Me = In, Al)*
- Tu_48. Miloš Simić:** *UTILIZATION OF SILICON-MODIFIED CORN WASTE BIOCHAR FOR CADMIUM AND LEAD REMOVAL FROM AQUEOUS SOLUTIONS*
- Tu_49. Marjana Simonič:** *DETERMINATION OF PHENOLIC COMPOUNDS IN INDUSTRIAL WASTE*
- Tu_50. Aleksandra Stanojković-Sebić:** *EFFECT OF ASCOPHYLLUM NODOSUM EXTRACT ON THE GROWTH PARAMETERS AND YIELD OF WILD ROCKET (DIPLLOTAXIS TENUIFOLIA)*
- Tu_51. Jelena Živančev:** *INNOVATIVE BIOFERTILIZATION STRATEGIES FOR MITIGATING EMERGING CONTAMINANTS IN SUSTAINABLE AGRICULTURE*
- Tu_52. Katarina Zsarkó:** *ADDITION OF ENCAPSULATED LACTOBACILLUS HILGARDII IN PEA PROTEIN FOR OBTAINING KOMBUCHA BEVERAGE WITH PROBIOTIC PROPERTIES*
- Tu_53. Tamás Kovács:** *VALUE-ADDED UTILIZATION OF OAT PROCESSING RESIDUES VIA RHIZOMUCOR MIEHEI-BASED ENZYMATIC TREATMENT*