



22nd International Symposium on Analytical and Environmental Problems

Szeged, Hungary

October 10, 2016

**University of Szeged, Department of Inorganic
and Analytical Chemistry**



Final Program

22nd International Symposium on Analytical and Environmental Problems

Supporting Organizations

University of Szeged, Department of Inorganic and Analytical Chemistry
Hungarian Academy of Sciences

General information

The venue of the Symposium: MTA, SZAB székház, Szeged, Somogyi u. 7.

The Symposium features recent findings from leading industrial and academic experts in the field of analytical chemistry and environment related problems.

The symposium is bilingual, both English and Hungarian are accepted.

Symposium Chairman:

István Ilisz, PhD

Honorary Chairman:

Zoltán Galbács, PhD

honorary professor

University of Szeged, Department of Inorganic and Analytical Chemistry

Organizing Committee:

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TIMETABLE

10⁰⁰-10¹⁰: Opening Ceremony

10¹⁰-11³⁰: Oral Presentations: Session I

12⁰⁰-14⁰⁰: Poster session I

14⁰⁰-15³⁰: Oral Presentations: Session II

16⁰⁰-18⁰⁰: Poster session II

18⁰⁰: Closing Remarks

Oral Presentations: Session I.

10¹⁰-10²⁰

SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF DIMERIC AND POLYMERIC COPPER(II) COMPLEXES WITH SCHIFF BASE AS LIGAND

Ildiko Buta^{1*}, Diana Aparaschivei¹, Carmen Crețu¹, Liliana Cseh¹, Ramona Tudose¹, Cătălin Maxim², Marius Andruh², Peter Lönnecke³, Evamarie Hey-Hawkins³, Otilia Costișor¹

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10²⁰-10³⁰

COMPLEX FORMATION BETWEEN Co-METALLOPORPHYRIN AND SILVER COLLOID IN ACIDIC MEDIA

Anca Lascu^{*a}, Ionela Creanga^a, Anca Palade^a, Mihaela Birdeanu^b

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10³⁰-10⁴⁰

PHOTODEGRADATION OF DICLOFENAC SODIUM IN AQUEOUS SOLUTION BY ZnO/SnO₂ POWDER MIXTURE CATALYST

Mladenka Novaković¹, Veselin Bežanović¹, Tamara Ivetić², Goran Štrbac², Ivana Mihajlović¹, Dragana Štrbac¹

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10⁴⁰-10⁵⁰

MONITORING OF CHLORINE BY NEW METHOD BASED ON FOS IN WATER BODIES

Boris Obrovski^{1*}, Jovan Bajić², Ivana Mihajlović¹, Mirjana Vojinović Miloradov¹, Branislav Batinić², Nevena Živančev¹, Miloš Živanov²

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10⁵⁰-11⁰⁰

NOVEL ASYMMETRIC BENZYLIDENECYCLOHEXANONE PHOTOCHROMIC COMPOUND AS FOOD DYE WITH ANTIOXIDANT PROPERTIES

Iulia Păușescu^{1,2}, Ana-Maria Pană^{1*}, Valentin Badea², Cătălin Ianăși¹, Otilia Costișor¹, Liliana Cseh¹

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11⁰⁰-11¹⁰

MOBILITY OF SELECTED PESTICIDES IN GROUNDWATER

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11¹⁰-11²⁰

ÚJ Cu-KOMPLEXEK SCHIFF-BÁZISOKKAL, ÉS FIZIKAI-KÉMIAI VIZSGÁLATUK
ifj. Várhelyi Csaba^{1*}, Nagy Renáta-Ildikó¹, Pokol György², Korecz László³, Goga Firuța¹, Golban Ligia-Mirabela¹, Huszthy Péter²

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Oral Presentations: Session II.

14⁰⁰-14¹⁰

PREFERENCES ABOUT CORPORATE SUSTAINABILITY ACTIONS BY BUSINESS ECONOMICS STUDENTS

László Berényi

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14¹⁰-14²⁰

APPLICATION RATES OF NEONICOTINOIDS IN SEED COATING AS SOURCES OF ENVIRONMENTAL CONTAMINATION

Mária Mörtl^{*}, Béla Darvas, András Székács

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14²⁰-14³⁰

LIGHT INDUCED SINGLET OXYGEN PRODUCTION AND DETECTION GENERATED BY BACTERIAL REACTION CENTRE-CARBON NANOTUBES COMPOSITES

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14³⁰-14⁴⁰

LIFE CYCLE ASSESSMENT OF DMSO SOLVENT, COMPARING AN OPEN MANUFACTURING SYSTEM WITH A CLOSED ONE

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14⁴⁰-14⁵⁰

A PRELIMINARY STUDY ON THE POSSIBILITIES TO INDICATE THE EFFECTS OF URBAN STRESS ON MAPLE TREES

Dávid Korányi^{1,3}, Balázs Palla¹, Éva Stefanovits-Bányai², Viktor Markó¹

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14⁵⁰-15⁰⁰

TiO₂ COATED MEMBRANE SURFACE CHARACTERISATION WITH CONTACT ANGLE MEASUREMENTS

Ildikó Kovács, Szabolcs Kertész, Gábor Veréb, Cecilia Hodúr, Zsuzsanna László^{*}

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15⁰⁰-15¹⁰

PHOTOCATALYTIC OZONATION OF MONURON OVER SUSPENDED AND IMMIBILIZED TiO₂
**Gergő Simon^{a,*}, Tamás Gyulavári^b, Klára Hernadi^b, Zsolt Pap^{c,d,e}, Gábor Veréb^f, Krisztina Schrantz^a,
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15¹⁰-15²⁰

**IPARI SZENNYVIZEK KEZELÉSE ÓZONKEZELÉS ÉS MEMBRÁNSZEPARÁCIÓ
KOMBINÁLÁSÁVAL**

Zakar Mihály¹, Veréb Gábor¹, Hodúr Cecília¹, Keszthelyi-Szabó Gábor¹, Lakatos Erika², László Zsuzsanna¹

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15²⁰-15³⁰

**OLAJSZENNYEZETT VIZEK (FOTO-)FENTON REAKCIÓVAL TÖRTÉNŐ KEZELÉSE ÉS ANNAK
MEMBRÁNSZŰRÉSRE GYAKOROLT HATÁSA**

Veréb Gábor, Bozóki Renáta, Kovács Ildikó, Kertész Szabolcs, Hodúr Cecília, László Zsuzsanna

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P01

CANCER RISK ASSESSMENT OF ANATOMY LABORATORY WORKERS

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P02

EVALUATION OF COPPER CONTENT IN SOIL AND ZEA MAYS L. GRAINS, IN A ROMANIAN POLLUTED AREA

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P03

THEORETICAL CONSIDERATION REGARDING THE CONTAMINATED SOIL

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P04

NEW CARBOXYSALICYLALDEHYDE SCHIFF BASE LIGAND AND ITS COPPER(II) COMPLEXES

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P05

PHYTOCHEMICAL CHARACTERISTICS AND ANTIOXIDANT CAPACITY OF FRUIT EXTRACTS OF DIFFERENT PRUNUS SPECIES

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P06

ACCUMULATION OF HEAVY METALS IN VICIA FABA BEANS

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P07

HYDROTHERMAL CRYSTALLIZATION OF MICROMETRIC HYDROXYAPATITE FOR BIOMEDICAL APPLICATIONS

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ENERGY HARVESTING FROM BICYCLE VIBRATIONS USING FLEXIBLE LEAD-FREE PIEZOELECTRIC MATERIALS

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MAIN PHYSICAL-CHEMICAL CHARACTERISTICS OF PRESSED HAM COMMERCIALIZED IN TIMIȘ COUNTY

Gabriel Bujancă¹, Teodor Ioan Trașcă¹, Adrian Riviș¹, Alexandru Rinovetz¹, Corina Miscă¹, Corina Costescu¹, Călin Jianu¹, Ioan David¹, Ariana Velciov¹

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P10

DEVELOPMENT AND VALIDATION OF NEW MULTIRESIDUE METHOD FOR THE DETERMINATION OF MULTICLASS PESTICIDE RESIDUE USING LC-MS/MS IN ONIONS

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EQUILIBRIUM OF PHENOL AND CHROMATE ADSORPTION ON IONIC LIQUID FUNCTIONALIZED Zn-Al LAYERED DOUBLE HYDROXIDE

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EVALUATION OF PHYSICO-CHEMICAL CHARACTERISTICS FOR SOME PINEAPPLE AND MANGO FRUIT COMPOTE

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Y_{0.5}Ca_{0.5}BaCo₄O₇ PEROVSKITE ELECTRODES WITH CATALYTIC EFFECT FOR METHANOL AND ETHANOL ELECTROOXIDATION IN ALKALINE MEDIA

Victor Daniel Craia-Joldes, Mircea Laurențiu Dan, Delia Andrada Duca, Nicolae Vaszilcsin

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P14

BEHAVIOR OF BIPYRIDINE DERIVATIVE Cu(I) COMPLEXES IN DONOR SOLVENTS

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P15

A LOW COST LINEAR PARABOLIC CONCENTRATOR SYSTEM– PHOTOREACTOR FOR PHOTOCATALYTIC PROCESSES THAT USES NATURAL SOLAR LIGHT

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PHOTOCATALYTIC EFFICIENCY OF LiInO₂ IN DEGRADATION OF ALPRAZOLAM FROM WASTEWATERS

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ELECTROCHEMICAL OXYGEN INTAKE/RELEASE PROCESS OVER YBaCo₂Fe₂O_{7.5} ELECTRODES IN AQUEOUS SOLUTIONS

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SKELETAL NICKEL BASED 6 LAYERS PLATINUM NANOPARTICLES ELECTRODE WITH CATALYTIC EFFECT FOR ETHANOL ELECTROOXIDATION IN ALKALINE MEDIA

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CHEMISTRY AND PHOTOCHEMISTRY OF NOVEL AROMATIC SPIROKETALS DERIVED FROM 2,6-BIS(5-BROMO-2-HYDROXYBENZYLIDENE) CYCLOHEXANONE

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P20

COMPARATIVE STUDIES FOR 2-PROPANOL ELECTROOXIDATION ON PLATINUM AND NICKEL ELECTRODES IN ALKALINE MEDIA

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STUDIES ON THE POSSIBILITY OF USING EXPIRED CEFTRIAXONE DRUG AS ADDITIVE IN ACID ELECTROPLATING BATHS

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SKELETAL NICKEL ELECTRODE WITH CATALYTIC EFFECT FOR ETHANOL ELECTROOXIDATION IN ALKALINE MEDIA

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COMPARATIVE ANALYSIS OF CHLOROPHYLL AND CAROTENOID PIGMENTS CONTENT OF ARUGULA (*ERUCA SATIVA*) AND LETTUCE (*LACTUCA SATIVA*) LEAVES

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ANODIC OXIDATION OF SULPHITE IONS ON SMOOTH NICKEL BASED 1 LAYER PLATINUM NANOPARTICLES IN ALKALINE SOLUTION

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SKELETAL NICKEL BASED 6 LAYERS PLATINUM NANOPARTICLES ELECTRODE WITH CATALYTIC EFFECT FOR ANODIC OXIDATION OF SULPHITE IN ALKALINE SOLUTION

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IMPROVED QUALITY FACTOR IN (K,Na)NbO₃ BASED UNVIRONMENT FRIENDLY PIEZOCERAMICS

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INFLUENCE OF STRUCTURAL AND TOPOGICAL CONNECTIVITY INDICES ON DIELECTRIC PROPERTIES OF BLENDS BASED ON QUATERNIZED POLYSULFONES: THEORETICAL APPROACH

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Synergistic effects of structural characteristics of quaternized polysulfone/cellulose acetate phthalate blends on surface properties

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PARTIAL LEAST SQUARES MODEL OF MOULTING ACCELERATING COMPOUNDS WITH INSECTICIDE ACTIVITY AGAINST LEPIDOPTERAN SPECIES

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ASPECTS OF THE HOMEOSTASIS CHANGES INDUCED BY THE GALLIUM COMPLEX C(24) IN EXPERIMENTS ON RATS

Zeno Gârban^{1,2}, Ioniță Hortensia³, Gârban Gabriela^{2,4}, Muselin F.^{2,5}, Baltă Cornel⁶, Simiz Eliza⁷, Ujhelyi Robert^{2,8}

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STUDY REGARDING COFFEE BREW METAL CONTENT

Ioan Gogoșă¹, Levente Sipos¹, Adina Negrea², Liana Maria Alda¹, Corina Costescu¹, Maria Rada³, Dana Velimirovici³, George Andrei Draghici³,

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GERMINATION ENERGY AND SEED GERMINATION - VALID PARAMETERS OF HEAVY METAL PRESENCE IN WATER

Sonja Gvozdenac^{1*}, Vojislava Bursić¹, Jelena Tričković², Dušica Jovičić³, Aleksandra Petrović¹, Dejan Prvulović¹, Dušan Marinković¹

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PHOSPHORUS IN A HILL PERMANENT GRASSLAND ECOSYSTEM IN SPRING BY PRINCIPAL COMPONENTS & CLASSIFICATION ANALYSIS

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SIMULTANEOUS FLUORIDE AND ARSENIC REMOVAL FROM GROUNDWATER BY USING ALUMINUM SACRIFICIAL ANODE

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ENHANCED ADSORPTION OF METHYL ORANGE FROM AQUEOUS SOLUTIONS USING A FUNCTIONALIZED

STYRENE-DIVINYLBENZENE COPOLYMER

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THE EFFECT *Origanum vulgare* L. ESSENTIAL OILS ON WEED SEED GERMINATION

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PRELIMINARY IN SILICO INVESTIGATION OF COX 2 SELECTIVE INHIBITORS

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Cd ACCUMULATION IN *Parmelia* spp. SPECIES

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THE USE FLY ASH IN-SITU PHYTOREMEDIATION OF CRUDE OIL POLLUTED SOILS

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ELECTROCHEMICAL DETECTION OF PARAQUAT FROM WATER USING PLATINUM MODIFIED BDD ELECTRODE

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ZORFLEX ADSORPTION OF ATRAZINE IN DRINKING WATER

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THE INFLUENCE OF CADMIUM PRECURSORS UPON PDS/ZN_{1-x}CD_xS PHOTOCATALYSTS EFFICIENCY IN WATER SPLITTING REACTION

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ENHANCED COAGULATION WITH PRE-OXIDATION FOR THE REMOVAL OF ARSENIC FROM GROUNDWATER

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PRELIMINARY INVESTIGATION OF COMMON GSK3, PPAR γ AND DPP IV CHEMICAL SPACE

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RESVERATROL AS CORROSION INHIBITOR FOR METALS IN WINE AND FOOD INDUSTRIES

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EFFECT OF SYNTHESIS METHOD ON THE STRUCTURE AND PROPERTIES OF PEROVSKITE NaNbO_3 TYPE NANOMATERIALS

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IMPACT OF DOPANTS ON THE ELECTRICAL PROPERTIES IN ABO_3 PEROVSKITE TYPE MATERIALS

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OBTAINING OF FeCO_3 MICROPARTICLES

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WO₃-TiO₂/MWCNT NANOKOMPOZITOK ELŐÁLLÍTÁSA ÉS FOTOKATALITIKUS VIZSGÁLATA

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SYNTHESIS AND CHARACTERIZATION OF Pt-CoO JANUS NANOSTRUCTURES

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EXTRACTION OF ANTIOXIDANT AND POLYPHENOL COMPOUNDS FROM TOKAJI ASZÚ MARE

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ADSORPTION OF ASYMMETRIC POLAR COMPOUNDS ON OIL SHALE AND ITS SPECIAL FORM

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THE EFFECT OF DIFFERENT DRYING AND EXTRACTION CONDITIONS ON THE ANTIOXIDANT CONTENT OF ELDERBERRY POMACE

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UTILIZATION OF HYDROGEN PEROXIDE FOR THE PRODUCTION OF VISIBLE LIGHT EXCITABLE ANATASE PHASE TITANIUM DIOXIDES

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INDICATORS FOR ESTIMATING CORROSION OF CONCRETE AND CONSTRUCTION MATERIALS

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ANALYSIS OF SPELEOTHEM AND ZIRCON SAMPLES BY LA-ICP-MS

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INVESTIGATION OF Pt/SiO₂ NANOPARTICLES BY SOLUTION AND SINGLE PARTICLE MODE ICP-MS

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ADVANTAGES AND DRAWBACKS OF USING MULTIVARIATE STATISTICAL PROCESS CONTROL IN FOOD INDUSTRY

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SELENITE TREATMENT INDUCES NITRO-OXIDATIVE STRESS AND DECREASES VIABILITY IN INDIAN MUSTARD

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HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC STUDY ON THE ENANTIOSEPARATION OF FLUORINE CONTAINING CYCLIC AMINO ACID DERIVATIVES

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TRANSFORMATION OF THIACLOPRID, A NEW INSECTICIDE, BY GAMMA RADIOLYSIS IN AQUEOUS SOLUTIONS

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FABRICATION OF SIZE-CONTROLLED COPPER NANOPARTICLES WITH DIFFERENT METHODS

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ROOM TEMPERATURE ETHANOL SENSOR WITH SUB-PPM DETECTION LIMIT: IMPROVING THE OPTICAL RESPONSE BY USING MESOPOROUS SILICA FOAM

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FLAME ATOMIC ABSORPTION SPECTROSCOPY IN MINERAL ANALYSIS OF BARLEY FROM BANAT AREA

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EFFECT OF VARIOUS RADICAL TRANSFERS AND SCAVENGERS ON THE TRANSFORMATION OF PHENOL OVER UV IRRADIATED TiO₂

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SYNTHESIS AND CHARACTERIZATION OF TITANIUM DIOXIDE BASED TERNARY NANOCOMPOSITES FOR PHOTOCATALYTIC HYDROGEN PRODUCTION

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CHARACTERIZATION OF Mg(Ta_{1-x}Nb_x)₂O₆ OBTAINED BY THE SOLID-STATE METHOD

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THE MORPHO-STRUCTURAL CHARACTERISTICS OF TiO₂ FILMS FOR SENSORS APPLICATIONS

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Cu²⁺ IMPACT ON NITROGEN METABOLISM ENZYMES IN YOUNG PLANTS OF WHEAT AND MAIZE

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EFFECTS OF GLYPHOSATE SUBLETHAL AMOUNTS ON PHOTOSYNTHETIC PIGMENTS OF PIGWEED (*AMARANTHUS RETROFLEXUS* L.)

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COMPOSITE MATERIALS BASED ON ACTIVATED CARBON AND CARBON NANOFIBER FOR HUMIC ACID REMOVAL

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Determination of mice habitats using biodiversity indices

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ASSESSMENT OF PROTEIN-GLYCAN INTERACTION BY CHIP-BASED MASS SPECTROMETRY

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DEVELOPMENT OF THE ADVANCED MASS SPECTROMETRY FOR MAPPING AND STRUCTURAL ANALYSIS OF HUMAN BRAIN GANGLIOSIDE

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CHARACTERIZATION BY SOFT IONIZATION MASS SPECTROMETRY METHODS OF MONO- AND OLIGOSACCHARIDES FUNCTIONALIZED AT THE ANOMERIC CENTER

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POSSIBILITIES IN AIR AND SOUND POLLUTION REDUCTION IN NOVI SAD

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