

4:00 p.m., Monday, 8th April

1st POSTER SESSION

1 Bartosz Nowak

Oil mist filtration dynamics of fibrous filters modified with MTMS-based aerogel structure

2 Tanmay Netke

Industrial approach to membrane functionalization in biomedical applications

3 Igor Półgrabski

Regeneration method of fibrous filters modified with MTMS-based aerogel dedicated for oil mist separation

4 Melinda Pazmandi

Investigation of the potential of lactic acid fermentation in bio-remediation of whey

5 Marta Nowak

Determination of biocides in environmental samples using of LC-MS/MS

6 Monika Nowak

Elimination of acetamiprid by *Metarhizium* sp.

7 Anna Hlukaniuk

Hydrodynamical water purification

8 Jolanta Nieroda

Kinetic of drying process of sol solutions based on Tetraethyl orthosilicate and 1,2-Bis(triethoxysilyl)ethane

9 Zuzanna Góral

Impact of modified halloysite on intumescent properties of protective ceramic coatings

10 Paulina Piotrkiewicz

A possibility to obtain an Al₂O₃ – Cu – Ni composites via slip casting method

11 Szymon Rojewski

Chemical modification of roving and textiles for application in prepregs

12 Michał Chodkowski

Wetting of silicon <100> surface by diiodomethane

13 Michał Chodkowski

Development of a force field for the simulation of liquid diiodomethane

14 Paulina Korycka

Verification of regression equations describing the effect of process parameters on the fiber diameter and the beads size

15 Albasher Shareif

Analysis of heat modelling failure around contiguous micro objects

16 Adam Mirek

Factorial design of the electrospun polymeric mat structures as a tool for selection of electrospinning process parameters

17 Anna Kuziel

c-CVD synthesis of helical carbon nanotubes as potential energy storage nanomaterials

18 Patrycja Wąsik

Ionic liquid dispersions of functionalised CNTs – en route to modern energy storage materials

19 Natalia Nowak

Synthesis of imidazole ionic liquids as dispersing media of carbon nanotubes

20 Urszula Szalaj

Water vapour adsorption on HAP nanocrystals

21 Magdalena Szaniawska

Kolliphor surfactants – adsorption properties

22 Magdalena Szaniawska

Sweeteners in food industry

23 Jakub Matusiak

Influence of surfactants on the adsorption of alginic acid on the alumina surface

24 Jakub Matusiak

Determination of β -cyclodextrin/surfactants complexes formation by surface tension measurements

5:00 p.m., Tuesday, 9th April

2nd POSTER SESSION

1 Justyna Kopeć

Development of an electrochemical procedure for the determination of aluminum in tea samples

2 Katarzyna Czarnecka

Application of polymer-graphene fibrous nanocomposites in tissue engineering

3 Katarzyna Pieklarz

Hydrogels enriched with nanostructured carbon materials for use in bone tissue engineering

4 Sylwia Stiler-Wyszyńska

Polymer matrices for controlled dosing of drugs - perspectives

5 Sylwia Stiler-Wyszyńska

Dyeing techniques as markers of the hydrophobicity of the surface of contact lenses

6 Urszula Szałaj

Ultrasonic deposition of nano-hydroxyapatite layers on polymeric surfaces

7 Kinga Pogoda

Effect of vacuum on removal of nitrogen from activated sludge

8 Marta Nowak

The use of LC-MS/MS in the analysis the role of cytochrome P-450 in the PCPs elimination by fungi of the genus Basidiomycetes

9 Monika Nowak

Effect of acetamiprid on fungal biomass of *Metarhizium* sp.

10 Piotr Rożek

Lightweight geopolymer monoliths for methylene blue removal from wastewaters

11 Magdalena Gawęda

The influence of doping ions on the sol-gel synthesis of SiOC preceramic precursors

12 Michał Wrzecionek

Preparation of copolymer of poly(glycerol sebacate) and poly (L-lactide) and using it in the electrospinning method

13 Maciej Bik

Oxidation studies of coatings based on SiAlOC glasses

14 Paweł Goj

Molecular dynamics simulations and spectroscopic studies of sodium-iron phosphate glasses

15 Dawid Koziń

Chemical etching of boron carbide edges with the removal of excess carbon after synthesis

16 Aleksandra Kalbarczyk

The depolarization properties of nematic liquid crystal

17 Marcin Zemła

The ab initio study of hydrogen-vacancy complexes in diamond

18 Anna Kuziel

The impact of purification and characteristics of carbon nanotubes onto their dispersibility in ionic liquids

19 Sylwia Dąbrowska

Microwave reactors for hydro- and solvothermal synthesis. Measurements problems and scale up possibility

20 Daria Czuryzkiewicz

Bis-ammonium herbicidal ionic liquids comprising cinnamate anion

21 Bartłomiej Kramarczyk

Investigation of the ability of PETN detonating cords to initiate
cartridged, chemically sensitized emulsion explosives

22 Ewa Litwinek

Viscoelastic properties of clay-cement binders

23 Gyula Dargó

Development and application possibilities of new, hydrogen bond
donor organocatalysts

24 Tomasz Rzemieniecki

Synthesis and properties of chiral ionic liquids derived from
mandelic acid

25 Marcin Gerlich

New explosives precursors: investigation of the possibility of
obtaining pyrotechnic mixtures and explosives using substances not
covered by European regulations

4:20 p.m., Wednesday, 10th April

3rd POSTER SESSION

1 Nikola Lenar

The influence of sodium-selective membrane composition on analytical parameters of TCNQ- based potentiometric ion sensors

2 Szymon Wójcik

Voltammetric determination of anethole on carbon electrodes

3 Justyna Lipińska

The study of voltammetric determination of Vitamin K2 with the application of carbon and mercury electrodes

4 Radosław Porada

Electrochemical sensor for the characterization and determination of benzodiazepines

5 Anna Górską

Metformin determination on modified GC electrodes using AdSV

6 Agnieszka Hahaj

Transfer of the static MTMS-based aerogel fibrous filter modification method to a flow system

7 Edyta Kruś

Characteristic of antifreeze proteins produced by psychrophilic yeast from *Glaciozyma martini* species

8 Barbara Zagrajczuk

In vitro bioactivity evaluation of the gel-derived glasses doped with cerium, strontium, and zinc

9 Michał Bień

Study on oxygen absorption rate in aqueous solutions of protein in a disposable bioreactor with wave-induced agitation

10 Joanna Gnyła

Dispersing of submicrometric SiC powders and improving its rheological behavior

11 Renata Szal

Structural investigation on gallo-germanate glasses modified with various content of barium oxide

12 Łukasz Rakoczy

Application of the X-ray diffraction in the study of the gamma prime phase dissolution

13 Maciej Ludwig

Corrosion resistance of modified magnesia refractory material in contact with copper slag

14 Donata Kuczyńska-Zemła

Microstructure and mechanical analysis of laser structured titanium grade 2 for biomedical applications

15 Justyna Pleśniak

Ferritic steel modified with Gd₂O₃ nanoparticles and its oxidation resistance and electrical properties

16 Hubert Ronduda

Effect of precipitating agent on the structure, morphology and electrochemical properties of LiCoO₂ cathode material in lithium ion batteries

17 Magdalena Rzeszotarska

Magnesium Hydrides used in Hydrogen Storage Technology

18 Magda Pęska

Problems associated with hydrogen storage

19 Marta Lewusz, Ada Hlebowicz

Simulation of cascade LNG liquefaction process in Aspen Plus

20 Anna Wojciechowska

Characterization of Ligand Shell for Mixed-Ligand Coated Zinc Oxide Quantum Dots

21 Bartłomiej Kramarczyk

Study of the effect of hydrostatic pressure on the stability of the operating properties of seismic emulsion explosives.

22 Wojciech Bień

Polymer composites with ITO and graphene

23 Wojciech Frąckowiak

PDMS – coated Particle Track Membrane for microfluidics – fabrication and application

24 Daria Czuryzkiewicz

Ionic liquids with tryptophanate anion as active ingredients prolonging vase-life of cut flowers