

## Poster Sessions

### 1<sup>st</sup> Poster Session (20.04)

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| 1. Ptazkowska-Koniarz Magdalena | Adsorption of acidic dyes onto modified carbon xerogels   |
| 2. Bazan Aleksandra             | Material left after supercritical camomile extraction as precursor of adsorbents of liquid phase pollution                |
| 3. Marciniak Michal             | Study of Sunset Yellow FCF adsorption from aqueous solution onto mesoporous carbons functionalized by ammonium persulfate |
| 4. Sroka Jolanta                | Silanization process of fly ash as an effective way to obtain useful filler from a waste material                         |
| 5. Bruckerhoff Janina           | Ultrafiltration membranes with additional adsorber properties for removal of heavy metal ions                             |
| 6. Wonko Renata                 | The influence of climatic and mechanical changes on glued connection between GI- POF and MMF                              |
| 7. Panna Wojciech               | Hot-stage microscopy in determining the suitability of selected clay rocks to manufacture lightweight aggregates          |
| 8. Michalczyk Urszula           | Synthesis of polysaccharide nanoparticles for targeted drug delivery system   |
| 9. Lesniak Magdalena            | The microstructure of the black glass layers on the titanium substrate  |
| 10. Wajda Aleksandra            | Differences in bioactivity of silico-phosphate glasses containing antibacterial ions                                      |
| 11. Gasek Katarzyna             | Effect of addition of fly ash on properties of light ceramic proppants  |
| 12. Alexowsky Clemens           | Preparation of macroporous hydrophobic flat-sheet PVDF membranes via vapor induced phase separation                       |

### 2<sup>nd</sup> Poster Session (20.04)

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| 1. Bazan Aleksandra  | Sorption properties of activated carbons prepared from residue after supercritical extraction of hops                          |
| 2. Krason Joanna     | Sorption properties of polymeric membranes obtained from cellulose acetate   |
| 3. Drzewicz Anna     | Structure, properties and the electrooptical performance of azo-die doped ferro- and antiferroelectric smectic liquid crystals |
| 4. Wojcik Malgorzata | Numerical inversion of Laplace transforms: a useful technique for solve a mathematical model of gas flow                       |
| 5. Pasiut Katarzyna  | The influence of ZrO <sub>2</sub> on the surface parameters  |
| 6. Wawer Tomasz      | Interatomic and intermolecular interactions of graphene oxide and reduced grapheme oxide                                       |

7. Harmata Piotr	Synthesis and mesomorphic properties of 4'-[(4'-pentylbiphenyl-4-yl)ethynyl]biphenyl-4-carbonitrile derivatives – four ring Liquid Crystalline materials with high melting points
8. Jonik Justyna	The physicochemistry methods used in criminalistics
9. Kupai Jozsef	Synthesis of enantiopure cinchona alkaloid derivatives for organic solvent nanofiltration recycling purposes and their application in asymmetric synthesis
10. Pytlarczyk Marta	Synthesis of 4-(alkyl-1-yn-1-yl)-bromobenzenes – useful intermediates for highly birefringent Liquid Crystals
11. Przybysz Agnieszka	<i>In vitro</i> studies of PLA-chlorphenesin hybrid nanospheres
12. Krupska Magdalena	Interdiffusion and ion beam mixing effect in single layer and bi-layer magnetite films on the MgO(001) substrate
13. Kurzych Anna	Interferometric fibre sensor for monitoring the torsional effects in engineering constructions
14. Wojewodzka Anna	Characterization of ZnO-based nanomaterials using Analytical Ultracentrifugation

### 3<sup>rd</sup> Poster Session (21.04)

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1. Magda Lukasz	Ceramic nanopowders-modified glassy carbon electrode for cyclic voltammetry detection of hydroquinone
2. Piek Magdalena	Potassium-selective electrodes modified with superhydrophobic polymer/carbon black nanocomposite
3. Wegiel Krystian	Determination of Zn(II) trace in water samples by anodic stripping voltammetry at a bismuth bulk electrode
4. Smajdor Joanna	Voltammetric determination of estradiol on carbon black modified glassy carbon electrode
5. Sroka Joanna	Analysis of predictive methods to calculate heat transfer coefficient during flow boiling of NH <sub>3</sub>
6. Kruk Aleksandra	The influence of molecular weight of polymer on a degradation rate of polylactide membranes for tissue engineering
7. Kopczynski Kacper	Electrochemical properties of bisulfate ionic liquids
8. Jedrzejewska Maria	Rational-by-design strategy of ZnO nanocrystals and their antibacterial activity
9. Sordon Wanda	The study of voltammetric determination of phenolic acids with the application of different electrodes
10. Pura-Pawlikowska Paulina	Effective polymer connection between polymer and silica optical fibers
11. Krakowska Agata	AAS analysis of <i>Agaricus bisporus</i> biomass to artificial gastric juice after optimization their culture <i>in vitro</i>

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| 12. Krakowska Agata | Analysis of kinetics elements changes in <i>Agaricus bisporus</i> optimized medium for <i>in vitro</i> culture |
| 13. Musial Joanna   | The impact of materials forming the cladding on propagation in biconical optical fiber taper                   |
| 14. Krakowska Agata | The fruiting bodies of edible mushrooms as a source of selected macro- and microelements                       |

#### 4<sup>th</sup> Poster Session (22.04)

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| 1. Debek Paulina           | The impact of the synthesis methods on physicochemical properties of SBA-15 materials containing nitrogen or sulfur atoms |
| 2. Jarmolinska Sylwia      | Synthetic approach to mesoporous silicas of MCM-41 type modified with amino or thiol moieties                             |
| 3. Dabrowska Marta         | Stability testing of cosmetic formulations containing vegetable oil   |
| 4. Jonik Justyna           | The characteristic of grapheme  |
| 5. Peziak - Kowalska Daria | The removal of sulfonamides from aqueous systems by electrochemical oxidation process combined with biological methods    |
| 6. Krupska Magdalena       | Hydrogen storage in Ti, V and their oxides- based thin films  |
| 7. Poniatowska Aleksandra  | Lecithin coatings on stainless steel 316L obtained with the use of electrodeposition process                              |
| 8. Butterich Carina        | Removal of drugs from wastewater by adsorption on porous solids   |
| 9. Gaweda Magdalena        | Bioactive properties of the silicon oxycarbide amorphous coatings on the titanium substrates                              |
| 10. Zielinska Aleksandra   | Marula oil as a successor of argan oil  |
| 11. Przybysz Natalia       | Alkanes-filled Photonic Crystal Fibers as sensor transducers  |

#### 5<sup>th</sup> Poster Session (22.04)

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| 1. Manko Diana          | The role of the rhamnolipid in the water treatment   |
| 2. Rymuszka Diana       | Hydrophobic polymer/silica films deposited on the glass surface  |
| 3. Szaniawska Magdalena | Fluorescence quenching of pyrene in surfactant solutions   |
| 4. Debek Paulina        | Catalytic activity of SBA-15 materials modified with organic groups containing sulfur or nitrogen atoms in relation to the synthesis methods |
| 5. Jarmolinska Sylwia   | Influence of synthesis methods on catalytic properties of MCM-41mesoporous materials modified with basic or acidic functionalities           |
| 6. Dabrowska Marta      | The influence of <i>Limnanthes alba</i> seed oil on functional parameters and its effectiveness in cosmetic formulations                     |

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| 7. Glowka Aleksandra     | The stability studies of macroemulsions containing phenylalanine derivative   |
| 8. Kapuscinska Alicja    | The use of jasmonates in pharmaceutical and cosmetic industry   |
| 9. Kurt Elif             | 3,5-Dinitrosalicylic Acid (DNS) sensor for in-situ measurement of sugar derived from starch biomass using $\alpha$ -amylase-immobilized on stainless-steel membrane |
| 10. Wroblewski Krzysztof | Methyl formate hydrolysis performed in fixed-bed chromatographic reactor. Simulation and experimental results   |
| 11. Zielinska Aleksandra | Sacha inchi oil for the production of vitamin E loaded nanostructured lipid carriers in cosmetic formulations   |
| 12. Rumin Martyna        | Simple and high sensitive voltammetric sensor for quetiapine fumarate determination   |
| 13. Przybysz Natalia     | Thermal properties of Photonic Crystal Fiber transducers with ferromagnetic nanoparticles   |