

Date: 25–29 August 2025

Venue: Hotel “Gabija” Vytauto St. 40,
Palanga, Lithuania
<http://www.gabija.lt/en/>

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POSTER SESSION

AUGUST 28, THURSDAY, 16:00 – 18:00

METHODS OF SURFACE ANALYSIS

- P1 Application of Scanning Electron Microscopy for the Analysis of Biological Samples**
Edvardas Brimas, Inga Grigoravičiute, **Aivaras Kareiva**
- P2 Development of Metal-Dielectric Multilayer Coating for High Sensitive Biological Interactions Sensor**
Alexandr Belosludtsev, Tomas Rakickas, Edita Voitechovic, Ignas Bitinaitis, Viktor Reshetnyak, Anatoly Suprun, Liudmyla Shmeleva
- P3 Nonlinear Optical Properties of the PVC-C60 Composite**
Mykhailo Zabolotnyy, Lyudmyla Aslamova, Dmytro Gryn'ko, Roman Lytvyn, Anton Sezonenko, Vladyslav Martynchuk, Kolesnychenko Anastasiia, Romashkina Maryna, Pysarevskyi Bogdan, Yeva Boboshko, **Maksym Barabash**
- P4 Ultrasensitive Detection of PVC Nanoplastics via PIERS on Ag Nanoflake-TiO₂ Platform**
Olugbenga Ayeni, Josiah Shondo, Tim Tjardts, Sinan Şen, Franz Faupel, Salih Veziroglu, Oral C. Aktas, Tayebah Ameri
- P5 Comparison of Recombinant SARS-CoV2 Spike Protein and Nanoparticles-Based Spike Protein Application for Immunosensing**
Silvija Juciūtė, Vincentas Mačiulis, Asta Lučiūnaitė, Mantvydas Usvaltas, Almira Ramanavičienė, Ieva Plikusienė
- P6 Impact of Washing Temperature on Microplastic Release from Textiles**
Ugne Gliudelyte, Julija Baltusnikaite-Guzaitiene

SURFACE ENGINEERING AND NANOSTRUCTURES

- P7 Synthesis and Characterization of Chitosan Nanoparticles of Ficus Exasperata for Preservation of Beans against Weevils**
Juliana Onyowoicho Ogbodo, Sylvester Obaike Adejo, Benjamin Asen Anhwange
- P8 Diffraction Grating-Based Elastic Medical Patch with Moisture-Sensitive Material for Monitoring Sweat Secretion**
Erika Rajackaitė, Diana Šimonienė, Indrė Danisevičienė, Andrius Žutautas, Agnė Kadusauskienė, Aistė Čemerkaitė, Pranas Narmontas
- P9 Cost-Effective Fabrication of Metal-Doped Carbon Aerogels for Energy Storage Devices**
Rouz Barjoud, Yelyzaveta Rublova, Jana Andzane, Donats Erts
- P10 Engineering of Functional Surface Capping Layers of Topological Nanoscale Materials**
Agnese Spustaka, Gunta Kunakova
- P11 Bi₂Se₃-MWCNT Heterostructures as Catalysts for CO₂ Photothermal Reduction**
Andrei Felsharuk, Ilga Lauma Leimane, Yelyzaveta Rublova, Natalia Amirulloieva, Donats Erts, Jana Andzane
- P12 Modification in Optical Properties of a Single-Layer TADF OLED with Nanoplasmonics**
Aron Dahlberg, Päivi Törmä

- P13 Sand from the Latvian Coast of the Baltic Sea for Filtration of Yeast Cells and Nickel Ions from Water**
Dagnis Beitāns-Špaks, Yuri Dekhtyar, Renāte Kalniņa, **Elizabete Skrebele**, Hermanis Sorokins, Viktorija Šipilova
- P14 Impact of Alcohols on Morphology and Structure of Fibrous Silica Nanospheres (KCC-1)**
Jawed Qaderi, Maryam Radjabian, Martin Held, Anke-Lisa Höhme, Erik Schneider, Joachim Koll, Sandra König, Andreas Meyer, Michael Fröba, Volker Abetz
- P15 Optimization of E-Beam Lithography using Ultrasensitive Resist for Metasurface Fabrication**
Dovilė Petrauskaitė, Mindaugas Juodėnas
- P16 Optimization of Reactive Ion Etching at Cryogenic Temperatures for Metasurface Fabrication**
Erika Jonaitytė, Mindaugas Juodėnas
- P17 Influence of Growth and Annealing on the Optical Properties of Bismuth Quantum Dots in GaAsBi/AIAs Quantum Wells**
Justas Žuvelis, Evelina Dudutienė, Andrea Zelioli, Aivaras Špokas, Renata Butkutė
- P18 Effect of Laser-Textured Surface Patterns on Wettability of AW-6082 Aluminum Alloy**
Laura Čepauskaitė, Regita Bendikienė
- P19 Catalyst-less Synthesis of Planar and Vertical Graphene Using MW-PECVD**
Šarūnas Jankauskas, Rimantas Gudaitis, Asta Guobienė, Šarūnas Meškiniš
- P20 Plasmonic Enhancement of OLED Efficiency with Silver Nanoparticles**
Bohdan Bulavinets, Volodymyr Rokhiv, **Tetiana Bulavinets**, Khrystyna Ivaniuk, Iryna Yaremchuk
- P21 Optimizing Parameters for Selective Laser Etching**
Ugnė Lukaševičiūtė, Tomas Klinavičius, Sigita Tamulevičiūtė, Tomas Tamulevičius
- P22 Biosynthesis of Silver Nanoparticles via *Medusomyces gisevii* Fermentation with *Tilia cordata* Extract: Surface Modifications, Phytochemical Analysis and Enhanced Antimicrobial and Antioxidant Properties**
Urte Raubyte, Mindaugas Liaudanskas, Jonas Viskelis, Aiste Balciunaitiene

ELECTRONIC AND OPTICAL MATERIALS

- P23 Effect of Substituents and Trap Sites on Hole-Transporting Properties of the Derivatives Triazatruxene**
Akaki Kalatozishvili, Jūratė Simokaitienė, Dmytro Volyniuk, Algirdas Lazauskas, Juozas Vidas Grazulevicius
- P24 Tunable Broadband Visible Emission Achieved by Phase Transformation-Driven Self-Reduction of Eu³⁺ to Eu²⁺ in a Calcium Phosphate Matrix**
Sapargali Pazylbek, Simona Bendziute, Jonas Stadulis, Ligita Valeikiene, Viktorija Lisyte, Andris Antuzevics, Guna Doke, Guna Kriekė, Arturas Katelnikovas, **Aleksej Zarkov**

- P25 Isophtaloylbisdibenzothiophene-Cored Donor–Acceptor–Donor Compounds as Promising Triplet Emitters for Organic Optoelectronics**
Alena Kimpel, Mariia Stanitska, Oleksandr Bezvikonnyi, Juozas Vidas Gražulevičius
- P26 Synthesis of Nonlinear Optically Active Indandione and Indacene Tetraone Pyridinium Betaines**
Anastasija Rižkova, Kirills Dmitrijevs, Kaspars Traskovskis
- P27 Photoluminescence Properties of Ce-Doped $Tb_xGd_{3-x}Al_5O_{12}$ with Different Terbium Content**
Arnoldas Solovjovas, Saulius Nargelas, Gabija Soltanaitė, Žydrūnas Podlipskas, Yuriy Zorenko, Etienne Auffray, Gintautas Tamulaitis
- P28 Development of New Carbazole-Based Electroactive Materials for OLEDs Using RPA Technology**
Audrius Bucinskas, Oleksandr Bezvikonnyi, Dmytro Volyniuk, Juozas Vidas Gražulevičius
- P29 Developing Efficient Organic Light-Emitting Diodes Using Bis(Benzoyl)Benzene-Based Emitters Exhibiting Thermally Activated Delayed Fluorescence**
Dmytro Volyniuk, Ugnė Seibutytė, Ghasemi Melika, Mariia Stanitska, Juozas Vidas Gražulevičius
- P30 High Triplet Energy Hosts for Blue TADF Organic Light-Emitting Diodes Employing Dibenzofuran and Benzodioxin**
Domantas Berenis, Kristupas Bagdonas, Goda Grybauskaitė, Dovydas Banevičius, Gediminas Kreiza, Eigirdas Skuodis, Edvinas Orentas, Karolis Kazlauskas
- P31 Influence of Spike Geometry on Linear and Nonlinear Optical Properties in Gold Nanourchins**
Domantas Peckus, Fatima Albatoul Kasabji, Maziar Moussavi, Loic Vidal, Hana Boubaker, Asta Tamulevičienė, Arnaud Spangenberg, Tomas Tamulevičius, Joel Henzie, Karine Mougín, Sigitas Tamulevičius
- P32 Novel 3-(Diphenylamino)Carbazole-Based Compounds as Multi-Channel Green TADF Emitters**
Dovydas Blazelevičius, Raminta Beresnevičiūtė, Daiva Tavgenienė, Saulius Grigalevičius, Wanting Ju, Xiangqin Gan, Junqiao Ding
- P33 Influence of Sputtering Atmosphere on Photochromism and Texture of YHO Thin Films**
Emija Letko, Martins Zubkins, Edvards Strods, Viktors Vibornis, Anatolijs Sarakovskis, Juris Purans
- P34 Transient Cathodoluminescence in Nitride V-Defects**
Gabija Soltanaitė, Žydrūnas Podlipskas
- P35 Search for High Triplet Energy Hosts for Stable Blue TADF OLEDs**
Giedrius Puidokas, Domantas Berenis, Gediminas Kreiza, Dovydas Banevičius, Kristupas Bagdonas, Rita Butkutė, Karolis Kazlauskas
- P36 Fabrication and Characterization of Self-Assembled Plasmonic Nano Lasers**
Gvidas Klyvis, Mindaugas Juodėnas, Tomas Tamulevičius, Nadzeya Khinevich, Joel Henzie, Sigitas Tamulevičius
- P37 Exchange of Optical Vortices in an Atomic System with Closed-Loop Tripod Configuration**
Viačeslav Kudriašov, Mazena Mackoīt Sinkevičienė, Nilamoni Daloi, Julius Ruseckas, Tarak N. Dey, Sonja Franke-Arnold, **Hamid Reza Hamedī**
- P38 Donor-Tuned Triplet Dynamics: From Classical TADF to Hot Exciton Emission with Bipolar Transport**
Hamisu Aliyu Mohammed, Viktorija Andrulevičienė, Matas Guzauskas, Dmytro Volyniuk, Woon Kai Lin, Azhar Ariffin, Juozas Vidas Gražulevičius
- P39 Plasmonic Properties of the Silver Nanoparticles in an Organic Matrix**
Oleksandr Ilin, Tetiana Bulavinets, **Iryna Yaremchuk**
- P40 Anisotropic Magnetotransport of CVD-grown WTe_2 Nanoribbons**
Jelena Sušinska, Natalia Amirulloieva, Gunta Kunakova
- P41 Multifunctional Quinoxaline-Based Triplet Emitters Exhibiting Room Temperature Phosphorescence and White Electroluminescence**
Jurate Simokaitienė, Mohamed Abdella, Matas Guzauskas, Asta Dabulienė, Rasa Keruckienė, Juozas Vidas Gražulevičius
- P42 Understanding Loss Mechanisms in Photon Upconversion Films Using Monomeric and Hexameric Triplet Annihilators**
Justas Lekavičius, Paulius Baronas, Maciej Majdecki, Przemysław Gaweł, Kasper M. Poulsen, Karolis Kazlauskas
- P43 Design and Development of Asymmetric Thiazolothiazole-Based AIE(E)gens for Modern Optoelectronic Devices**
Khushdeep Kaur, Asta Dabulienė and Juozas Vidas Gražulevičius
- P44 Ternary Organic Solar Cell Efficiency Enhancing with Novel D-A-D and A'-D-A-D-A' Type Non-Fullerene Acceptors**
Kirills Dmitrijevs, Anastasija Rižkova, Vedašlavs Voroncovs, Kaspars Traskovskis, Raitis Grībovskis
- P45 Waveguide – Surface Lattice Resonances in Periodic Nanoparticle Array – Semiconductor Heterostructures**
Klaudijus Midveris, Gvidas Klyvis, Mindaugas Juodėnas, Joel Henzie, Tomas Klinavičius, Andrius Vasiliauskas, Asta Tamulevičienė, Tomas Tamulevičius
- P46 Threshold Switching and Resistive Switching in SnO_2 - HfO_2 Laminated Ultrathin Films**
Kristjan Kalam, Mark-Erik Aan, Joonas Merisalu, Markus Otsus, Peeter Ritslaid, Kaupo Kukli
- P47 Investigation of 2,1,3-Benzothiadiazole-Based Compounds Exhibiting Far-Red Thermally Activated Delayed Fluorescence**
Lesia Volyniuk, Irena Kulszewicz-Bajer, Melika Ghasemi, Dmytro Volyniuk, Audrius Bucinskas, Juozas Vidas Gražulevičius
- P48 White Organic Light-Emitting Diodes with Multilayer Exciton-Confinement Architecture Employing 2,1,3-Benzothiadiazole–Fluorene-Based Red Emitters**
Lilija Deva, Pavlo Stakhira, Iryna Yaremchuk, Lyudmyla Kanibolotska, Oleksandr Kanibolotskyy, Peter Skabara, Dmytro Volyniuk, Juozas Vidas Gražulevičius
- P49 Linear Donor-Acceptor Systems Featuring BT Unit**
Lyudmyla Kanibolotska, Oleksandr Kanibolotskyy, Joseph Cameron, Peter J. Skabara
- P50 UV Photon Upconversion in MR-TADF Sensitized Films**
Manvydas Dapkevičius, Džiugas Krencius, Justas Lekavičius, Steponas Raišys, Karolis Kazlauskas
- P51 Derivatives of Anthraquinone of A-D-D' Structure Exhibiting Near-Infrared (NIR) Absorption for Solution-Processable Photodetectors**
Mariia Stanitska, Lilija Deva, Boris Minaev, Valentyna Minaeva, Dmytro Volyniuk, Pavlo Stakhira, Juozas Vidas Gražulevičius
- P52 New Pyrido-pyrazines Take the Stage, for Efficient TADF in This OLED Age**
Matas Gužauskas, Domantas Lekavičius, Rasa Keruckienė, Juozas Vidas Gražulevičius
- P53 Tunable Emission and Charge-Transporting Properties of a Carbazole-Triazine Derivative for High-Efficiency Red OLEDs**
Melika Ghasemi, Joseph Cameron, Woon K. Lin, Dmytro Volyniuk, Peter J. Skabara, Juozas Vidas Gražulevičius, Gjergji Sini
- P54 Design and Evaluation of Imidazole–Fluorene-Based Luminophores for Efficient Blue OLED Emission**
Mohamed Abdella, Matas Guzauskas, Jurate Simokaitienė, Juozas Vidas Gražulevičius

- P55 Graphene Direct Synthesis on Annealed and Non-Annealed SiO₂ Films VIA PECVD**
Muhammad Adnan Saeed, Šarūnas Meškinis
- P56 Investigation of Derivatives of Benzothiadiazole and Fluorene for Multifunctional Applications in Organic Electronics**
Natalia Kuzyk, Khrystyna Ivaniuk, Pavlo Stakhira, Mohamed Abdella, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Grazulevicius
- P57 Photoluminescent Star-Shaped Systems with Extended π -Conjugated Core**
Oleksandr Kanibolotsky, Minming Yang, Lyudmyla Kanibolotska, Peter J. Skabara
- P58 Influence of Rare Earth Co-Doping on the Optical and Structural Properties of Ce³⁺-Doped YAGG Phosphors**
Olzhas Shalkhar, Robert Tomala, Dagmara Stefanska, Zivile Stankeviciute, Justina Gaidukevic, Aivaras Kareiva
- P59 Using Single-Component Emitters for Down-Converting WLEDs Application**
Serhii Melnykov, Lesia Volyniuk, Pavel Arsenyan, Oleksandr Bezikonny, Dmytro Volyniuk, Juozas Vidas Grazulevicius, Pavlo Stakhira
- P60 Synthesis and Investigation of Phenoxazine-Based Derivatives as Potential Emitters for Organic Light-Emitting Diodes**
Simas Mačionis, Shushana Vardanyan, Jūratė Simokaitienė, Juozas Vidas Gražulevičius
- P61 Electroluminescence Properties of Novel Red Emitters**
Stepan Kutsiy, Lyudmyla Kanibolotska, Alexander L. Kanibolotsky, Mykhailo Shchetinin, Oleh Klymkevych, Peter J Skabara, Pavlo Stakhira
- P62 Carbazoyl- and Dibenzofuranyl-Functionalized p-Phenylenediamines as Efficient Hole-Transporting Materials for Optoelectronics**
Svetlana Sargsyan, Mariia Stanitska, Melika Ghasemi, Rasa Keruckiene, Dmytro Volyniuk, Viktorija Andruleviciene, Juozas Vidas Grazulevicius
- P63 Development of Organic Molecules with Inverted Singlet-Triplet Energy Gap**
Vedaslavs Voroncovs, Kaspars Traskovskis
- P64 Optimization Of Luminescent Properties of Thiazol-2-Ylidene-Based Carbene-Metal-Amide Complexes**
Žanis Sisojevs, Kaspars Traskovskis
- P65 Selectively Reflecting Resonant Optical Coatings for Efficient Hybrid Thermal-Electric Power Generation**
Tomas Klinavičius, Gabija Riaubaitė, Raymond C. Rumpf, Tomas Tamulevičius

CERAMICS

- P66 Water-Based Tape-Casting Method for Fabrication of High-Quality Na_{0.5}Bi_{0.5}TiO₃ Thick Films**
Arturs Atvars, Marija Duncce, Gusts Agafonovs, Eriks Birks
- P67 Comparison of the Properties of Layered Double Hydroxides Synthesized via Sol-Gel, Hydrothermal, and Co-Precipitation Methods**
Gabrielė Klydziute, Denis Sokol, Aivaras Kareiva
- P68 Approach for Achieving Core-Shell Structures in Lead-Free Ferroelectric Ceramics**
Gusts Agafonovs, Marija Duncce, Arturs Atvars, Eriks Birks
- P69 Microwave-Assisted Synthesis of Iron-Doped Carbonated Hydroxyapatite**
Kamile Dargyte, Gabriele Sarapajevaite, Lidija Turilinaite, Jokubas Lukosiunas, Odeta Baniukaitiene, Tadas Dambrauskas

POLYMER AND COMPOSITES

- P70 Cationic and Radical Polymerization of 9(4vinylphenyl)carbazole and its Derivatives**
Aliaksei A. Vaitusionak, Heorhi K. Belavusau, Irina V. Vasilenko, Dmytro Volyniuk, Sergei V. Kostjuk, Juozas V. Grazulevicius
- P71 Effect of Sterilisation Methods on the Rheological Properties of Hydrogels**
Anete Vircava, Agnese Brangule, Ingus Skadiņš
- P72 Eco-Friendly Polyhydroxyalkanoate Copolymer Reinforced with Shungite**
Domas Grigaliūnas, Malik Daniyal Zaheer, Deividas Umbrasas, Rolanas Daukševičius, Virginija Jankauskaitė
- P73 Production and Characterization of Eco-Friendly Bricks Using Recycled Plastic Waste**
Emmanuel Barki, Celestine Mbakaan
- P74 Development of Eugenol- and Ioeugenol-Modified Calcium Hydroxyapatite Composites for Enhanced Antibacterial Activity**
Justina Karčiauskaite, Maab Elsheikh, Monika Mortimer, Karin Valmsen, Rokas Žalnėravicius, Inga Grigoraviciute, Audrius Padaruskas, Zivile Stankeviciute, Aivaras Karei
- P75 Tailoring Piezoelectric Performance in Polymer Composites via Liquid Crystal-Assisted Interface Designing for Efficient Energy Harvesting Devices**
Kaustav Jit Bora, Aloka Sinha
- P76 EPR Study of Accelerated Electron-Irradiated Latvian Darkhead Sheep Wool Fibers**
Liga Avotina, Magdalena Rzepna, Jaroslaw Sadlo, Arturs Zarins
- P77 On the Incorporating of Propolis into Calcium-Deficient Hydroxyapatite**
Maab Elsheikh, Justina Karčiauskaite, Aadil Hussain, Inga Grigoraviciute, Zivile Stankeviciute, Aivaras Kareiva
- P78 Development of Lightweight and Durable Cement Composites Using Agricultural Waste**
Celestine Mbakaan
- P79 Rheological Characterization of Inulin-Based Hydrogel Loaded with Gallic Acid**
Renāte Teterovska, Agnese Brangule, Anete Vircava
- P80 Development and Evaluation of 3D-printed High-Z Composite Materials for Photon Shielding in Cyclotron Target Areas**
Shirin Arslonova, Diana Adlienė
- P81 Synthesis and Application of Fe₃O₄-Buckwheat Hull Magnetic Nanocomposites for the Biosorption of Toxic Heavy Metal**
Tayyab Tahir, Rūta Druteikienė, Zita Žukauskaitė, Jūratė Vaičiūnienė

ADVANCED ENGINEERING MATERIALS

- P82 Sol-Gel Synthesis and Characterization of Mixed LnMn_{0.45}Fe_{0.45}Co_{0.1}O₃ (Ln = Y, La-Lu) Perovskites**
Aigul Dastankyzy, Dovydas Karoblis, Kestutis Mazeika, Aivaras Kareiva
- P83 Optimizing Pressure in Functional Garments: Adhesive Technologies and Virtual Fitting Approaches**
Ana Černiavskaja, Kristina Ancutienė
- P84 Photostability Investigation of Magnesium and Copper Chlorophyllin-Chitosan Complexes**
Gabrielė Vasiliauskaitė, Irina Buchovec

P85 Study of Performance Degradation in Low Gain Avalanche Detectors Irradiated by 24 GeV/c Relativistic Protons

Kęstutis Žilinskas, Tomas Čeponis, Vytautas Rumbaškas, Laimonas Deveikis, Jevgenij Pavlov, Margarita Biveinytė

P86 Engineering an Eco-Friendly Hybrid Bi-Layer Fabric Having Inherently Flame-Resistant & Antibacterial Characteristics for Children's Protective Clothing

Muhammad Ehtisham Sarwar, Rimvydas Milasius

P87 From Waste to Yarn: Quantifying Efficiency Challenges in Denim Mechanical Recycling

Muhammad Sohaib Anas, Daiva Mikucioniene

P88 Production of Biochar from Cotton Waste

Tadas Dambrauskas, Brigita Savickaite, Egidijus Zvicevicius, Kestutis Ziura, Juozas Padgurskas

P89 Development of Carbon-Black-Reinforced PEEK Composite for Self-Lubricating Journal Bearings

Tomas Kačinskis, Saulius Baskutis

P90 Analyzing Aggregation Behavior and Photophysical Properties of Riboflavin-Magnesium Chlorophyllin Mixtures

Urtė Mitrofanaitė, Irina Buchovec

P91 Approaches to Microencapsulation and Their Applications in the Textile Industry

Zarnab Gul, Daiva Milasienė

MATERIALS FOR ENERGY

P92 Development of Membrane Electrode Assembly Based on One-Dimensional Nanostructures

Adriana Marinoiu

P93 Iron Nanoparticles Supported on Reduced Graphene Oxide as Nonprecious Metal Catalysts for Low Temperature PEM Fuel Cells

Adriana Marinoiu

P94 Bi₂Se₃-MWCNT Heterostructures as Catalysts for CO₂ Photothermal Reduction

Andrei Felsharuk, Ilga Lauma Leimane, Yelyzaveta Rublova, Natalia Amirulloeva, Donats Erts, Jana Andzane

P95 Temperature-Driven Sodium Ion Transport within Hydrogels for Low-Grade Heat Conversion to Electricity

Anete Anmane, Ilga L. Leimane, Raimonds Poplauskis, Donats Erts, Irina Oliseveca

P96 Design and Synthesis of Nanoporous Anodic Aluminum Oxide Membranes for Energy Harvesting Applications

Armanda E. Kairisa, Ilga L. Leimane, Irina Oliseveca, Jana Andzane, Raimonds Poplauskis, Donats Erts

P97 Influence of Sample Handling Conditions on Radiation-Induced Effects in Advanced Ceramic Breeder Ceramics

Arturs Zarins, Liga Avotina, Andris Antuzevics, Maria Gonzalez, Julia M. Leys, Regina Knitter

P98 Development of a Microbial Biofuel Cell Using Biocompatible Nanocomposites

Beatričė Kulikauskaitė, Antanas Zinovičius, Birutė Sapijanskaitė-Banevič, Tomas Mockaitis, Arūnas Ramanvičius

P99 Photocatalytic Properties of Nanostructured Copper Oxide and Zinc Oxide Heterostructures for CO₂ Reduction

Davis Gavars, Roberts Rinkis, Margarita Volkova, Artis Kons, Liga Avotina, Anatolijs Sarakovskis, Jana Andzane

P100 Triboelectric Devices with Enhanced Power Output

Dmitrijs Romaskevics, Andrei Felsharuk, Jana Andzane, Andris Sutka, Donats Erts, Raimonds Meija

P101 Influence of Expanded Graphite on the Thermal Properties of Phase Change Material

Jolanta Donėlienė, Saulius Pakalka, **Eglė Fataraitė-Urbonienė**

P102 Study of Novel Electron Acceptor Materials for Ternary Organic Solar Cells

Elizabete Praulina, Raitis Grzibovskis, Kirills Dmitrijevs, Kaspars Traskovskis

P103 Unique Nickel Catalysts for Borohydride Hydrolysis

Gitana Valeckytė, Zita Sukackienė, Jūratė Vaičiūnienė, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus

P104 Testing Performance of Advanced Heterostructures Photo-Assisted Aqueous Zn-ion Batteries

Gustavs Henrijs Zvaigzne, Rouz Barjoud, Andrei Felsharuk, Raimonds Meija, Donats Erts, Jana Andzane

P105 Thermoelectric Properties and Applications of Aqueous Sodium Sulfate Electrolyte Infiltrated in Nanochannels for Energy Harvesting

Ilga Lauma Leimane, Irina Oliseveca, Jana Andzane, Raimonds Meija, Raimonds Poplauskis, Donats Erts

P106 Influence of Organic Dye Structures on Charge Transport in Perovskite Solar Cells

Milda Žitinevičiūtė, Matas Steponaitis

P107 Engineering MoS₂-based Hybrid Catalysts for Superior Electrochemical Water Splitting Performance

Muhammad Naeem Hafiz, Adeel Tariq, Loreta Tamašauskaitė-Tamašiūnaitė, Ramūnas Levinas

P108 Thermoelectric Properties of Biopolymer-Based Hydrogels for Low-Grade Heat Conversion into Electricity

Nader Ashraf Ali, Ilga L. Leimane, Donats Erts, Irina Oliseveca

P109 Nanostructured Binder-Free Metal Anodes for Sustainable Aqueous Batteries

Veronika Moiseja, Rouz Barjoud, Andrei Felsharuk, Raimonds Meija, Donats Erts, Jana Andzane

P110 Investigation of Bi₂Se₃-SWCNT Heterostructures for Applications in Zn-Ion Batteries

Viktorija Galaktionova, Andrei Felsharuk, Rouz Barjoud, Jana Andzane, Raimonds Meija, Donats Erts

P111 Photovoltaic Properties of CuO/Cu₂O/ZnO Heterostructures

Roberts Rinkis, Davis Gavars, Margarita Volkova, Raimonds Meija, Anatolijs Sarakovskis, Donats Erts, Jana Andzane

P112 Neuromorphic Computing and Sensing by ZnO Nanowire Networks

Mindaugas Ilickas, Martynas Tichonovas, **Simas Račkauskas**