Programme of the 25th International Conference-School

"Advanced Materials and Technologies 2023"

Date: August 21–25, 2023
Venue: Hotel "Gabija" (http://www.gabija.lt/en/)
Vytauto St. 40, LT-00160
Palanga, Lithuania

Poster Session
August 24, Thursday, 16:00 – 18:00

METHODS OF SURFACE ANALYSIS

P1	**Comparison of Different Deposition Methods of Titanium Dioxide on FTO Glass** Aistis Melnikas, Skirma Žalenkienė
P2	**Real-Time Interaction Study of SARS-CoV-2 Spike Proteins Variants of Concern and Specific Antibodies by Surface Sensitive Methods** Silvija Juciutė, Mantvydas Usvatas, Vincentas M. Mačiulis, Ieva Plikusienė

SURFACE ENGINEERING AND NANOSTRUCTURES

P3	**Characterization of the Urotensin-II Peptide by Nanoparticle-Enhanced Raman Spectroscopy** Aliona Klimovich, Tatjana Charkova, Ieva Matulaitiene
P4	**Laser Texturing for Wettability Control of Copper Surface** Andrius Žemaitis, Saulė Steponavičiūtė, Paulius Gečys, Mindaugas Gedvilas
P5	**Shape-Tunable Bimodal GdPO4:Eu3+ Nanoparticles: Characterization, and Evaluation of Their Toxicity to Daphnia Magna** Augustas Morkvėnas, Eglė Ežerskytė, Vaidas Klimkevičius, Živilė Jurgelėnė, Vitalijus Karabanovas
P6	**Hydrochloric Acid Influence on Nanostructured 3D Copper Foam Real Surface Area** Birutė Serapinienė, Laima Gudavičiūtė, Algirdas Selskis, Skirmantė Tutlienė, Asta Grigucevičienė, Rimantas Ramanauskas
P7	**Chemical Treatment of the Surface of Biocompatible Titanium Alloy** Donatas Akūnis, Virginija Gylienė
P8	**Crafting Micro- and Nano-Structured Materials for Radioisotope Production at CERN-ISOLDE** Edgar Miguel Sobral dos Reis, Valentina Berlin, Simon Stegemann, Sujit Bidhar, Eva Kröll, Doru Constantin Lupascu, Sebastian Rothe
P9	**Heat-Induced Morphological Changes in Silver Nanowires Deposited on Patterned Silicon Substrate** Elyad Damerchi, Sergei Vlassov, Sven Oras, Edgars Butanovs, Mikk Antsov, Boris Polyakov, Annamarija Trausa, Pakeeza Afzal, Siim Pikker, Andreas Kyritsakis, Veronika Zadin
P10	**The Development of an Active Element of the Heating Ventilation Air Conditioning System That Destroys Pathogenic Microorganisms** Erika Rajackaitė, Asta Guobienė, Brigita Abakevičienė, Algirdas Lazauskas, Mindaugas Ilickas, Andrius Žutautas, Virgilijus Minialga, Rasa Žostautienė, Nerijus Laurinaitis, Pranas Narmontas
P11	**Synthesis of Core-Shell Au@Ag Nanoparticles** Gytautė Sirgėdaitė, Lina Mikoliūnaitė
P12	**Silver Decorated Magnetic Nanoparticles** Greta Zambzickaite, Lina Mikoliunaite

P13	**Effect of Mechanical Elongation on Silver Nanoparticle Plasmonic Lattice Optical Properties** Gvidas Klyvis, Nadzeya Khinevich, Tomas Tamulevičius
P14	**Shape-Dependent Plasmon Resonance of Laser-Fabricated Gold Nanostructures** Kernius Vilkevičius, Evaldas Stankevičius
P15	**Surface Engineering to Observe Stronger Triboelectric Charging on Contact-Separated Recycled Polystyrene Films** Linards Lapčinskis, Līva Ģērmane, Mairis Iesalnieks, Astrīda Bērziņa, Artis Linarts, Andris Šutka
P16	**Preparation of Functional Ga2S3 and Ga2Se3 Shells around Ga2O3 Nanowires via Sulfurization or Selenization** Edgars Butanovs, Luize Dipane, Aleksejs Zolotarjovs, Sergei Vlassov, Boris Polakov
P17	**Screening of Silicon Dioxide Microspheres Synthesis Optimal Parameters** Lukas Šerpytis, Matas Damonskis, Lukas Taujenis, Simas Šakirzanovas
P18	**Technique of Electrostatic Template Formation** Maksym Barabash, Yeva Boboshko, Roman Lytvyn, Anton Sezonenko, Ievgen Byba, Dmytro Gryn'ko, Mykhail Yamshinskij, Nataliia Minitska, Anastasiia Kolesnychenko, Ivan Lukianenko, Maryna Romashkina, Bogdan Pysarevskyi, Mykhailo Petryshyn
P19	**Concentration Effect on Colloid Stability under Different Storage Conditions** Mantas Mikalkevičius, Nadzeya Khinevich, Tomas Tamulevičius, Asta Tamulevičienė
P20	**Laser Drilling of Micro-Holes in Fuel Cell Membranes** Mohamed Ahmed Baba, Gazy Rodowan, Brigita Abakevičienė, Sigitas Tamulevičius, Sebastian Molin, Tomas Tamulevičius
P21	**Strong Light-Matter Coupling between Surface Plasmon Polaritons and Rhodamine 6G Dye** Povilas Jurkšaitis, Zigmas Balevičius
P22	**Titanium Adhesion Layer Influence on Hybrid Plasmonic Mode in Gold Microbumps Arrays Fabricated Using Directs-Laser Writing** Rodrigas Liudvinavičius, Evaldas Stankevičius
P23	**Optimisation of ZnO Nanostructures to Improve Label-Free Electrochemical Immunosensing Performance** Viktorija Liustrovaite, Dovydas Karoblis, Benediktas Brasiunas, Anton Popov, Arunas Ramanavicius, Maria Teresa Giardi, Donats Erts, Almira Ramanaviciene
P24	**Application of Electrochemical Biosensor for Comparative Detection of Monoclonal Antibodies Targeting SARS-CoV-2 Nucleoprotein** Maryia Drobysh, Viktorija Liustrovaite, Yana Karnitskaya, Yahor Kanetski, Benediktas Brasiunas, Almira Ramanaviciene, Aurelija Zvirbliene, Agne Rimkute, Indre Kucinskaite-Kodze, Simonas Ramanavicius, Rimantas Slibinskas, Evaldas Ciplys, Martynas Simanavicius, Arunas Ramanavicius
P25	**Influence of KCl Concentration on the Stability and SERS Signal Strength of Laser-Generated Gold, Silver, and Hybrid Nanoparticles in Aqueous Solution** Vita Petrikaitė, Martynas Talaikis, Lina Mikoliunaitė, Romualdas Trusovas, Sonata Adomavičiūtė-Grabusovė, Valdas Šablinskas, Justinas Čeponkus, Algirdas Selskis, Gediminas Niaura, Evaldas Stankevičius
P26	**Development and Characterization of a Lithium Sensor Based on Gold Nanoparticles** Wejdene Gongi, Marc Keller, Jerome Launay, Karine Mougin

ELECTRONIC AND OPTICAL MATERIALS

P27	**Towards Understanding of the Light Emission Efficiency of GaAsBi Quantum Wells** Aistė Butkutė, Aivaras Špokas, Andrea Zelioli, Bronislovas Čechavičius, Aurimas Čerškus, Evelina Dudutienė, Renata Butkutė
P28	**Optimization of GaAsBi Rectangular QWs for Emission at 1 – 1.2 μm** Aivaras Špokas, Andrea Zelioli, Kipras Mažeika, Augustas Vaitkevičius, Sandra Stanionytė, Bronislovas Čechavičius, Evelina Dudutienė, Renata Butkutė
P29	**Investigation of Large Area PL Emission from InGaAs/GaAs Multi-Quantum Wells for VECSEL Fabrication**

	Andrea Zelioli, Arnas Pukinskas, Silvija Keraitytė, Augustas Vaitkevičius, Sandra Stanionytė, Monika Jokubauskaitė, Bronislovas Čechavičius, Aurimas Čerškus, Evelina Dudutienė, Renata Butkutė
P30	**Carbazolyl-, Phenothiazinyl- or Dimethylacridanyl-Based Bipolar Thioxanthone Derivatives for OLEDs** Asta Dabulienė, Jurate Simokaitiene, Simas Macionis, Dalius Gudeika, Dmytro Volyniuk, Malek Mahmoudi, Rita Sadzeviciene, Sigitas Stoncius, Juozas V. Grazulevicius
P31	**Anthracene and Carbazole-Based Derivatives for Triplet-Triplet Annihilation Organic Light-Emitting Diodes** Audrius Bucinskas, Pavel Arsenyan, Tien-Lung Chiu, Oleksandr Bezvikonnyi, Dmytro Volyniuk, Juozas Vidas Grazulevicius
P32	**Polarization Resolved Resonant Terahertz Emission from Metallic Metasurfaces on n-GaAs/GaAs Structures** Barbora Škėlaitė, Vladislovas Čižas, Ignas Grigelionis
P33	**Investigation of Hidden Thermally Activated Delayed Fluorescence of Blue Organic Light-Emitting Diodes** Dmytro Volyniuk, Chia-Hsun Chen, Kun-Rong Lin, Chi-Feng Lin, Audrius Bucinskas, Dalius Gudeika, Oleksandr Bezvikonnyi, Jurate Simokaitiene, Jiun-Haw Lee, Tien-Lung Chiu, Juozas Vidas Grazulevicius
P34	**Spin Squeezing in Open Heisenberg Spin Chains** Tanausú Hernández Yanes, Giedrius Žlabys, Marcin Płodzień, Domantas Burba, Mažena Mackoit Sinkevičienė, Emilia Witkowska, Gediminas Juzeliūnas2
P35	**Crystalline Structure and Size Effect on Dynamic Optical Properties of Silver Nanoparticles** Nadzeya Khinevich, Domantas Peckus, Joel Henzie, Asta Tamulevičienė, Tomas Tamulevičius, Sigitas Tamulevičius
P36	**Novel Bicarbazole-Diphenylsulphone Derivatives as Efficient OLED Hosts and Emitters** Dovydas Blaževičius, Gintarė Kručaitė, Daiva Tavgenienė, Saulius Grigalevičius, Shahnawaz, Iram Siddiqui, Jwo-Huei Jou
P37	**Synthesis and Application of Garnet Structure Samples for the Study of Endogenous Dynamic Nuclear Polarization (DNP)** Greta Inkrataitė, Vytautas Klimavičius, Vidmantas Kalendra, Aivaras Kareiva, Ramūnas Skaudžius
P38	**Light-Induced Torque on Double-V-Type Quantum Emitters** Hamid Reza Hamedi, Julius Ruseckas, Vassilios Yannopapas, Dimitrios Karaoulanis, Emmanuel Paspalakis
P39	**Distributed Feedback Laser Based on an Organic Semiconductor DG-21 and a Liquid Crystal** Pavlo Stakhira, Andriiy Fechan, Iryna Yaremchuk, Tetiana Bulavinets, Volodymyr Fitio, Levani Skhirtladze, Oleksandr Bezvikonnyi, Dmytro Volyniuk, Juozas Vidas Grazulevicius
P40	**Analysis of Electrical and Magnetic Properties of Manganites Using the Ising Model** Jorūnas Dobilas, Voitech Stankevič, Nerija Žurauskienė, Evaldas Tornau, Skirmantas Keršulis
P41	**Derivatives 9,9-Dimethylacridane Containing Different Phenylethylene Units Exhibiting Solid-State Emission Enhancement** Jurate Simokaitiene, Monika Cekaviciute, Dmytro Volyniuk, Juozas Vidas Grazulevicius
P42	**Glowing Guardians of Air Quality: Room-Temperature Phosphorescent Organic Semiconductors for Oxygen Sensing** Karolis Leitonas, Levani Skhirtladze, Audrius Bucinskas, Dmytro Volyniuk, Rasa Keruckiene, Malek Mahmoudi, Kai Lin Woon, Azhar Ariffin, Juozas Vidas Grazulevicius
P43	**THz Detector with Integrated Diffractive Optics** Karolis Redeckas, Ignas Grigelionis, Linas Minkevičius
P44	**Cost Efficient Fabrication and Analysis of Paraffin Lenses for THz Radiation** Kasparas Stanaitis, Matas Bernatonis, Karolis Radeckas, Linas Minkevičius
P45	**Derivatives of Thianthrene as Single-Molecular White Emitters Exhibiting Both Efficient Room Temperature Phosphorescence and Fluorescence** Lesia Volyniuk, Dalius Gudeika, Alexander Panchenko, Boris Minaev, Malek Mahmoudi, Jurate Simokaitiene, Audrius Bucinskas, Dmytro Volyniuk, Juozas Vidas Grazulevicius

P46	**Pyridazine Derivatives with Phenoxazine and 9,9-dimethyl-9,10-dihydroacridine Donor Moieties Exhibiting Thermally Activated Delayed Fluorescence** Levani Skhirtladze, Oleksandr Bezvikonnyi, Rasa Keruckienė, Lukas Dvylys, Malek Mahmoudi, Linas Labanauskas, Azhar Ariffin, Juozas Vidas Grazulevicius
P47	**Multifunctional Phenothiazine-S,S-Dioxide Based Compounds for Non-Doped OLEDs with Colour-Changeable Electroluminescence** Malek Mahmoudi, Faizal Khan, Dmytro Volyniuk, Jūratė Simokaitienė, Rajneesh Misra, Juozas Vidas Gražulevičius
P48	**A Very Simple Host-Free Organic Light-Emitting Diode with Blue Emitting Layer of the Derivative of 1H-1,2,3-triazole Reaching External Quantum Efficiency of 4,6%** Mariia Stanitska, Nazariy Pokhodylo, Roman Lytvyn, Ervinas Urbonas, Dmytro Volyniuk, Khrystyna Ivaniuk, Pavlo Stakhira, Rasa Keruckiene, Mykola Obushak, Juozas Vidas Grazulevičius
P49	**Flexible THz Metasurface Lens as Next Generation Beam Shaping Element** Matas Bernatonis, Rusnė Ivaškevičiūtė-Povilauskienė, Linas Minkevičius
P50	**Exploring the Light that Remains: the Quinoxaline Based Compounds with Room Temperature Phosphorescence for Oxygen Sensing** Matas Gužauskas, Mohamed Hassan Saad Abdella, Levani Skhirtladze, Jurate Simokaitiene, Juozas Vidas Grazulevicius
P51	**Copolymers Exhibiting Through-Space Charge Transfer Thermally Activated Delayed Fluorescence as Emitters for Solution-Processable OLEDs** Melika Ghasemi, Viktorija Andruleviciene, Dmytro Volyniuk, Juozas Vidas Grazulevicius
P52	**Synthesis and Investigation of Bromoquinoxaline Derivatives as Organic RTP Luminophores** Mohamed Hassan Saad Abdella, Levani Skhirtladze, Jurate Simokaitiene, Juozas Vidas Grazulevicius
P53	**Derivatives 1,8-naphthalimide and Tri- or Tetra- phenylethylene as Emitters Exhibiting Bipolar Charge Transport** Oleksandr Bezvikonnyi, Dmytro Volyniuk, Dalius Gudeika, Juozas Vidas Grazulevicius
P54	**X-Ray-Excited Optical Luminescence Mechanisms in AlN:Mn2+ Ceramics** Paula Jankovska, Rihards Ruska, Baiba Berzina
P55	**Efficient Blue Non-Doped Oleds with New Tetraphenylethene-Based Aggregation-Induced Emission Molecules** Raminta Beresnevičiūtė, Daiva Tavgenienė, Gintarė Kručaitė, Beata Achramovic, Saulius Grigalevičius, Jian-Sheng Hong, Kuan-Wei Chen, Yu-Hsuan Chen, Chih-Hao Chang
P56	**Synthesis and Properties of Phenylethenyl-Based Derivatives for OLEDs** Rita Butkute, Monika Cekaviciute, Jūratė Simokaitiene, Dmytro Volyniuk, Khrystyna Ivanyuk, Juozas Vidas Grazulevicius
P57	**Theoretical Modeling of Vibrationally Resolved Optical Lineshapes of a Carbon-Oxygen Pair Complex in Silicon** Rokas Silkinis, Lukas Razinkovas, Audrius Alkauskas
P58	**Synthesis and Study of Polymers and Oligomers Containing Benzotriazole Moiety** Shushanna Vardanyan, Narine Durgaryan, Juozas Vidas Gražulevičius
P59	**Sulfur-Containing Derivatives of p-phenylenediamine as Promising Hole-Transporting Materials for Organic Optoelectronics** Svetlana Sargsyan, Mariia Stanitska, Melika Ghasemi, Rasa Keruckiene, Dmytro Volyniuk, Narine A. Durgaryan, Juozas Vidas Grazulevičius
P60	**Comparison of Silver Nanoparticle Sizes Obtained by Fitting Optical Absorbance Spectra with Different Optical Constants** Tomas Klinavičius, Nadzeya Khinevich, Tomas Tamulevičius
P61	**Methoxy-Substituted Carbazole Polymers as Host Materials for Phosphorescent Organic Light-Emitting Diodes** Viktorija Andruleviciene, Ronit Sebastine Bernard, George K. Belousov, Aliaksei A. Vaitusionak, Dmytro Volyniuk, Sergei V. Kostjuk, Juozas Vidas Grazulevicius
P62	**Ab Initio Investigation of Vibrational Properties of Divacancy Defects in Silicon Carbide** Vytautas Žalandauskas, Lukas Razinkovas, Marianne Etzelmüller Bathen

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P63	**Comparison of Surface Analysis Methods for Li4SiO4 Based Ceramic Materials before and after Sequential Irradiation with High-Energy Self-Ions and Hydrogen Ions** Anna Ansone, Arturs Zarins, Liga Avotina, Mareks Senko, Karlis Shvirksts, Edgars Vanags, Gunta Kizane
P64	**$0.9Na_{0.5}Bi_{0.5}TiO_3–0.1Sr_{0.7}Bi_{0.2}TiO_3$ Thick Film Fabrication** Arturs Atvars, Marija Dunce
P65	**Phosphate Ions Adsorption by Adsorbent Based on Calcium Silicate Hydrates** Evelina Svedaite, Kestutis Baltakys, Tadas Dambrauskas
P66	**$0.94Na_{0.5}Bi_{0.5-x}TiO_3$-$0.06BaTiO_3$ Bulk Ceramics Fabrication** Gusts Agafonovs, Arturs Atvars, Marija Dunce
P67	**Potassium Sodium Niobate (KNN) Powder Synthesis for Lead-Free Piezoelectric Ceramics** Lucie Kotrbová, Soňa Hříbalová, Carlo Baldisserri, Claudio Capiani, Elisa Mercadelli

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P68	**Are Fiber Reinforced Polymers and Composite Bars Promising Future of Concrete Structures?** Abel A. Belay, Marta Kosior-Kazberuk, Julita Krassowska
P69	**The Potential of Normoxic Polymer Gel for Small Field Dosimetry under Respiratory Motion in Radiotherapy** Aurimas Krauleidis, Diana Adlienė, Dainius Burdulis
P70	**Geometrical Modelling and Theoretical Calculation of Weft-Knitted Structures** Edgaras Arbataitis, Daiva Mikučionienė
P71	**A Study of the Influence of Polymers' Nature on the Mechanical Properties of Custom-Made Heels for Orthopedic Shoes** Edita Gelažienė, Daiva Milašienė
P72	**Molecularly Imprinted Polypyrrole-Based Sensor for the Detection of the SARS-CoV-2 Spike Glycoprotein** Ernestas Brazys, Vilma Ratautaitė, Raimonda Bogužaitė, Arūnas Ramanavičius
P73	**Visible Light-Driven Degradation of Tetracycline by Sustainable Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and CuS Composite** Gabriele Sarapajevaite, Kestutis Baltakys, Micaela Degli Esposti, Paola Fabbri, Davide Morselli
P74	**Estimation of Sorption Properties of Electron-Irradiated Latvian Darkhead Sheep Wool Fibers** Nadina Tina Vanaga, Liga Avotina, Magdalena Rzepna, Aleksandrs Petjukevics, Anna Ilma Kule, Arturs Zarins, Gunta Kizane
P75	**Prolong Term Study of Silver Nanoparticles Enriched Flexible Thin Film Dosimeters for Radiation Detection** Linas Kudrevicius, Diana Adliene, Judita Puiso
P76	**Photochemical Synthesis of AgNP-PVB Nanocomposite Coatings and Investigation of Their Optical Properties** Mindaugas Ilickas, Asta Guobienė, Brigita Abakevičienė
P77	**Relationship between Viscosity, Stability and Evaporation in Natural Eutectic Solvents** Paulina Nemaniutė, Svajus J. Asadauskas, Dalia Bražinskienė

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P78	**Development of Keratin Micro-Nanofibers Containing Phytosynthesized Silver Nanoparticles Using *Echinacea purpurea* L. Extracts** Akvilė Andziukevičiūtė-Jankūnienė, Erika Adomavičiūtė, Aistė Balčiūnaitienė, Jonas Viškelis, Virgilijus Valeika, Virginija Jankauskaitė

P79	**Analysis of Chemical Structure Changes during Thermal Treatment for Fluorescent Anthrone-Derived Molecules** Liga Avotina, Annija Elizabete Goldmane, Arturs Zarins, Elena Kirilova
P80	**Theoretical Modelling of 3D Knitted Structures** Brigita Petkuvienė, Daiva Mikučionienė
P81	**Graphene Transfer with Laminator for GaN Membranes Lift-off** Dominykas Augulis, Kazimieras Badokas, Arūnas Kadys, Ilja Ignatjev, Tadas Malinauskas
P82	**Deposition of ZnGa2O4 Thin Films Prepared by Reactive Magnetron Co-sputtering from Liquid/Solid Ga/Zn Targets** Edvards Strods, Martins Zubkins, Viktors Vibornijs, Anatolijs Sarakovskis, Reinis Ignatans, Andris Azens, Juris Purans
P83	**Photophysical Properties Investigation of Copper Chlorophyllin and Magnesium Chlorophyllin Chitosan Complexes** Gabrielė Vasiliauskaitė, Irina Buchovec
P84	**Analysis of the Structure of an Insect Breeding by-Product** Goda Gudinskaitė, Rasa Paleckienė, Rasa Šlinkšienė
P85	**Thermal Stability of TiO2 Aerogels Prepared by Sol-Gel Synthesis at Different Drying Conditions** Jolanta Donėlienė, Eglė Fataraitė-Urbonienė, Saulius Pakalka, Juras Ulbikas
P86	**Determination of the Degree of Sulfonation for Synthesized Sulfonated Poly(Ether-Ether Ketone) Membranes** Laura Dace Pakalniete, Elizabete Maškova, Patrīcija Kalniņa, Anete Stīne Teimane, Elina Pajuste
P87	**High Throughput and Low Surface Roughness Laser Layer-by-Layer Milling Using ns and ps Pulses: a Comparative Study** Andrius Žemaitis, Paulius Gečys, Mindaugas Gedvilas
P88	**Experimental Textile Integration for Optimal Industrial Airflow Performance** Rasa Gofman, Audronė Ragaišienė, Rimvydas Milašius
P89	**Characterization of Femtosecond Laser Ablated Copper Nanoparticles** Shahd Elkhider, Tomas Klinavičius, Mohamed A. Baba, Rasa Mardosaitė, Asta Tamulevičienė, Dainius Zienius, Raimundas Lelešius, Algirdas Šalomskas, Tomas Tamulevičius

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P90	**Preparation of Nitrogen-Doped Reduced Graphene Oxide by Using a Green-Chemistry Method** Adriana Marinoiu
P91	**Graphene-Based Electrodes for Membrane Electrode Assembly Development** Adriana Marinoiu
P92	**Evaluation Quality of a Light-Weight / Plastic-Based PV Modules** Algirdas Baležentis, Piotr Dubravskij, Eglė Fataraitė-Urbonienė, Juras Ulbikas, Jolanta Donėlienė, Matas Rudzikas
P93	**Smart PV Module with Integrated MLPE and Sensing Elements for Improved PV Plant O&M** Algirdas Baležentis, Algirdas Jonas Galdikas, Piotr Dubravskij, Juras Ulbikas, Matas Rudzikas, Skirmantė Baležentienė
P94	**JET ITER-Like-Wall Composite Material Surface Morphology and Tritium Accumulation Analysis** Annija E. Goldmane, Anete S. Teimane, Elina Pajuste, Liga Avotina
P95	**Application of CuS/GF Materials for Sodium-Ion Batteries** Eglė Ūsovienė, Egidijus Griškonis
P96	**Microbial Fuel Cells Built Using Additive Manufacturing Technology** Ernestas Svirbutavičius, Šarūnas Žukauskas, Arūnas Ramanavičius
P97	***Saccharomyces cerevisiae* Cell Modification with Nickel and Iron Hexacyanoferrates for the Application in Bio-Fuel Cell Construction** Gabija Kavaliauskaitė, Aušra Valiūnienė
P98	**Determination of Polymer Electrolyte Water Electrolysis Hydrogen Generation Faraday Efficiency** Matiss Sondars, Rudolfs Janis Zabolockis, Elina Pajuste

P99	**Derivative of Phenoxazine and Quinoxaline as Green TADF Emitter for OLEDs** Liliia Deva, Stepan Kutsiy, Iryna Yaremchuk, Tetiana Bulavinets, Pavlo Stakhira, Levani Skhirtladze, Oleksandr Bezvikonnyi, Dmytro Volyniuk, JuozasVidas Grazulevicius
P100	**Formation of Thin Film Oxide Composites for Photoelectrode Protection** Skirmantė Tutlienė, Eimutis Juzeliūnas
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P102	**Investigating Biofuel and Wood Composite Ash for Fertilizer Applicability: a Study of Heavy Metal Content and Radioactivity in Lithuania** Violeta Kaunelienė, Dainius Martuzevičius, Linas Puodžiukynas, Benas Gabrielis Urbonavičius, Kęstutis Buinevičius