

Programme of the 23rd International Conference-School  
“Advanced Materials and Technologies 2021”

**Date:** 23-27 August, 2021

**Venue:** Hotel “Gabija” (<http://www.gabija.lt/en/>)  
Vytauto Str. 40, LT-00160  
Palanga, Lithuania

**Poster Sessions**  
**August 26, Thursday, 15:00 – 18:30**

**Poster Session A 15:00 – 15:45**

**METHODS OF SURFACE ANALYSIS**

<a href="#">P1</a>	<b>Contact Angle Measurements as a Method of Surface Analysis</b> Edyta Rekiel, Anna Zdziennicka
<a href="#">P2</a>	<b>Analysis of Interaction Kinetics between SARS-CoV-2 Nucleoprotein and Specific Antibody by Combined SE/QCM-D Method</b> Vincentas Maciulis, Ieva Plikusiene, Silvija Juciute, Justina Liesyte, Almira Ramanaviciene, Arunas Ramanavicius
<a href="#">P3</a>	<b>Influence of Silk Wastes Indicators on Silk-raws Roughness</b> Sharof Shukhratov, Rimvydas Milašius, Tulkin Ochilov
<a href="#">P4</a>	<b>Intercalation of Organic Anions to the Mg<sub>3</sub>Al<sub>1</sub> Layered Double Hydroxide Using Ion Exchange Approach</b> Ligita Valeikiene, Kamile Kriukaite, Inga Grigoraviciute-Puroniene, Anton Popov, Aivaras Kareiva

**SURFACE ENGINEERING AND NANOSTRUCTURES**

<a href="#">P13</a>	<b>Determination of ZnO Tetrapods Particle Size and Distribution in Solvents</b> Andrius Vitkauskas, Ieva Stašaitytė, Agnė Šulčiūtė, Simas Račkauskas
<a href="#">P14</a>	<b>Heat-Energy Generation by X-rays Interaction with Si Crystals</b> Arvydas Juozapas Janavičius, Saulius Balakauskas, Mindaugas Viliūnas, Saulius Daugėla
<a href="#">P15</a>	<b>Ultrafast Laser Surface Structuring for Wettability Control of Stainless Steel</b> Andrius Žemaitis, Greta Merkininkaitė, Saulė Steponavičiūtė, Paulius Gečys, Alexandros Mimidis, Antonis Papadopoulos, Emmanuel Stratakis, Mindaugas Gedvilas
<a href="#">P17</a>	<b>Impact of Amino Acids on the Electrocatalytic Properties of MoS<sub>2</sub> Films</b> Paulius Gaigalas, Arūnas Jagminas
<a href="#">P18</a>	<b>Heat Transfer in Ultrafast Laser Interference Ablation</b> Simonas Indrišiūnas, Mindaugas Gedvilas
<a href="#">P19</a>	<b>Optical Elements Generating Bessel-like Beams</b> Kernius Vilkevičius, Evaldas Stankevičius
<a href="#">P20</a>	<b>Gold Microbumps Gratings Exciting Hybrid Lattice Plasmon Polaritons</b> Kernius Vilkevičius, Evaldas Stankevičius
<a href="#">P21</a>	<b>Synthesis of Colloidal Gold and Silver Solutions Using Laser Ablation</b> Vita Petrikaitė, Martynas Skapas, Evaldas Stankevičius
<a href="#">P22</a>	<b>Porous Anodized Aluminium Oxide Thickness Dependence on Anodization Time</b> Aušrinė Jurkevičiūtė, Raimonds Poplauskis, Aleksandrs Dutovs, Juris Prikulis
<a href="#">P24</a>	<b>Controlled Growth of Au Hierarchically Ordered Crystals Architectures for Electrochemical Detection of Traces of Molecules</b> Karine Mougín, Pierre Bauer, Vincent Vignal, Arnaud Buch, Pierre Ponthiaux, Delphine Faye
<a href="#">P25</a>	<b>Distributed Feedback Waveguide Laser under Second-Order Bragg Conditions</b> Iryna Yaremchuk, Halyna Petrovska, Pavlo Stakhira, Volodymyr Fitio
<a href="#">P26</a>	<b>Distributed Feedback Lasers Based on the Mixture of Cholesteric Liquid Crystals and Organic Semiconductors</b> Halyna Petrovska, Pavlo Stakhira, Iryna Yaremchuk, Volodymyr Fitio
<a href="#">P27</a>	<b>Novel Synthesis of Graphene Oxide: Structural and Electrochemical Investigation</b> Justina Gaidukevič, Rasa Pauliukaitė, Rūta Aukštakojtė, Jurgis Barkauskas
<a href="#">P28</a>	<b>Robotized Mechanical Manipulation in Micro-scale</b> Jurga Subačiūtė-Žemaitienė, Vytautas Bučinskas, Andrius Dzedzickis, Inga Morkvėnaitė-Vilkončienė

**ELECTRONIC AND OPTICAL MATERIALS**

<a href="#">P60</a>	<b>On the Formation of Amorphous Phases at High Temperature</b> Aivaras Kareiva, Andrius Pakalniskis, Aldona Beganskiene, Ramunas Skaudzius, Greta Inkrataitė, Zivile
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<a href="#">P61</a>	Stankeviciute, Inga Grigoraviciute-Puroniene, Aleksej Zarkov, Dovydas Karoblis, Andrius Laurikenas <b>Ultra-precise Rydberg Atomic Localization Using Standing Waves and Optical Vortices</b> Teodora Kirova, Ning Jia, Hamid Reza Hamedi, Seyyed Hossein Asadpour, Jing Qian, Gediminas Juzeliūnas
<a href="#">P62</a>	<b>Investigation of Optical Properties of ZnO Nanotetrapods</b> Mindaugas Ilickas, Simas Račkauskas
<a href="#">P63</a>	<b>Investigation of Sm Doped Bismuth Ferrite Across its Phase Boundary from Local and Microscopic Perspectives</b> Andrius Pakalniškis, Ramūnas Skaudžius, Dmitry Karpinsky, Gediminas Niaura, Aivaras Kareiva
<a href="#">P64</a>	<b>Investigation of Diphenylsulfone Derivatives as Hosts for TADF based OLEDs</b> Karolis Leitonas, Oleksandr Bezikonny, Dalius Gudeika, Dmytro Volyniuk, Martins Rutkins, Juozas V. Gražulevičius
<a href="#">P65</a>	<b>Tri/Tetraphenylethenyl Substituted Tetrafluorophenylcarbazoles as Exciplex-forming Hosts for Organic Light Emitting Diodes</b> Jurate Simokaitiene, Galyna Sych, Oleksandr Bezikonny, Uliana Tsiko, Dalius Gudeika, Dmytro Volyniuk, Juozas Vidas Gražulevičius
<a href="#">P66</a>	<b>Characterization of Photoluminescence Garnet Coatings Derived by Sol-Gel Spin/Dip Coating Techniques</b> Greta Inkrataitė, Ramūnas Skaudžius
<a href="#">P67</a>	<b>Off-axis Optical Vortices Using Double-Raman Singlet Light-Matter Scheme</b> Hamid Reza Hamedi, Julius Ruseckas, Emmanuel Paspalakis, Gediminas Juzeliūnas
<a href="#">P68</a>	<b>All-organic Exciplexes Exhibiting Host with Thermally Activated Delayed Fluorescence</b> Matas Guzauskas, Dmytro Volyniuk, Kaspars Traskovskis, Armands Sebris, Irina Novosjolova, Aivars Vembris, Juozas V. Gražulevičius
<a href="#">P69</a>	<b>Effect of Different Additional Electron Accepting Moieties on Electroluminescent Properties of Trifluoromethyl-containing Multicarbazoles</b> Malek Mahmoudi, Dalius Gudeika, Dmytro Volyniuk, Stepan Kutsiy, Jurate Simokaitiene, Juozas V. Gražulevičius
<a href="#">P70</a>	<b>Effect of Different Number of Di-tert-butylcarbazole Donor Moieties of Bipolar Hosts on Their Performance in OLEDs</b> Dmytro Volyniuk, Simas Macionis, Dalius Gudeika, Oleksandr Bezikonny, Viktorija Andruleviciene, Jiun Haw Lee, Bo-An Fan, Chia-Hsun Chen, Bo-Yen Lin, Tien-Lung Chiu, Juozas V. Gražulevičius
<a href="#">P71</a>	<b>Derivatives of Trifluoromethylphenyl and Various Donors as Emitters Exhibiting Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence</b> Rasa Keruckiene, Juozas Vidas Gražulevičius
<a href="#">P72</a>	<b>Synthesis of Controlled Size GdPO<sub>4</sub>·H<sub>2</sub>O Nanorods</b> Darius Budrevičius, Ramūnas Skaudžius
<a href="#">P73</a>	<b>Evidence of a Strong Coupling Regime in a Photonic-Plasmonic Structure Supporting Hybrid Tamm-Surface Plasmon Polaritons</b> Ernesta Bužavaitė-Vertelienė, Vilius Vertelis, Zigmantas Balevičius
<a href="#">P74</a>	<b>Application of Dianthracenylazatrioxa[8]circulene in OLEDs and QLEDs</b> Pavlo Stakhira, Khrystyna Ivaniuk, Iryna Danyliv, Serhii Melnykov, Yan Danyliv, Michael Pittelkow
<a href="#">P75</a>	<b>High Triplet Energy Aryl Sulfones for Exciplex-based White Electroluminescent Devices</b> Jonas Keruckas, Xiaofeng Tan, Dmytro Volyniuk, Khrystyna Ivaniuk, Juozas Vidas Gražulevičius
<a href="#">P76</a>	<b>Determination of Dominant Recombination Processes by Extraction of Injected Charge Carriers</b> Romualdas Jonas Čepas, Lukas Kukulas, Gytis Juška, Kristijonas Genevičius

### CERAMICS

<a href="#">P110</a>	<b>Low-temperature Synthesis and Characterization of Magnesium Whitlockite Powder</b> Anastasija Afonina, Inga Grigoraviciute-Puroniene, Aivaras Kareiva
<a href="#">P111</a>	<b>Thermoluminescence Properties of Yttria Doped AlN Ceramics After Sunlight and X-ray Irradiation</b> Janis Cipa, Laima Trinkler, Dace Nilova, Pavels Rodionovs, Baiba Berzina
<a href="#">P112</a>	<b>Preparation of CaMnO<sub>3</sub>-based Compounds Applying Molten Salt Synthesis</b> Dovydas Karoblis, Aleksej Zarkov, Aldona Beganskiene, Aivaras Kareiva
<a href="#">P113</a>	<b>Influence of Sample Pre-treatment on Radiation-Induced Processes in Advanced Ceramic Breeder Pebbles</b> Madara Tomele, Anna Ansone, Artūrs Zariņš, Jānis Čipa, Larisa Baumane, Gunta Kizāne, Julia M. Leys, Regina Knitter

### POLYMERS AND COMPOSITES

<a href="#">P124</a>	<b>Structural Parameters of Fabric Affecting Performance of Electromagnetic Shielding Textile with Conductive Coating</b> Julija Petkevičiūtė, Vitalija Rubežienė, Audronė Sankauskaitė, Julija Baltušnikaitė-Guzaitienė, Paulius
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	Ragulis, Aušra Abraitienė
<a href="#">P125</a>	<b>Evaluation of Wettability and Water Absorption Properties of Natural Fiber Reinforced Polyester Hybrid Composites for Microfluidic Applications</b> Ayyappa Atmakuri, Arvydas Palevicius, Giedrius Janusas
<a href="#">P127</a>	<b>Curing of BPA-based Epoxy Resins Using Various Amines: Study by DSC</b> Jūratė Jonikaitė-Švėgždienė, Virginija Juknevičiūtė, Ričardas Makuška
<a href="#">P128</a>	<b>Synthesis of Brush Copolymers Carrying Phosphorylcholine Moieties</b> Marijus Jurkūnas, Vaidas Klimkevičius, Ričardas Makuška
<a href="#">P129</a>	<b>Incorporation of Modified organic PCM microcapsules with conductive additives into textiles</b> Virginija Skurkytė-Papievienė, Aušra Abraitienė, Audronė Sankauskaitė
<a href="#">P130</a>	<b>Electrochemical Deposition of Polypyrrole Layers Modified by Phenothiazine Derivatives</b> Raimonda Boguzaitė, Vilma Ratautaite, Lina Mikoliunaite, Almira Ramanaviciene, Arunas Ramanavicius
<a href="#">P131</a>	<b>Permeation System Optimization for Analysis of Polymers and Other Membranes</b> Patricija Kalnina, Elina Pajuste, Liga Avotina, Gunta Kizane
<a href="#">P132</a>	<b>Analysis and Evaluation of Mechanical Properties of 3D Printed Heels</b> Edita Gelažienė, Daiva Milašienė

### ADVANCED ENGINEERING MATERIALS

<a href="#">P151</a>	<b>Influence of Silver Additives Containing Fibers Incorporated in Knitted Fabrics on their Thermoregulation Properties</b> Laimutė Stygienė, Sigitas Krauledas, Aušra Abraitienė, Sandra Varnaitė-Žuravliova, Virginija Skurkytė-Papievienė
<a href="#">P154</a>	<b>Preparation and Characterization of Physicochemical Properties of TiO<sub>2</sub>/Bi Composites</b> Karolina Kucio, Barbara Charmas, Magdalena Zięzio
<a href="#">P155</a>	<b>Photocatalytic Properties of Composite Materials Prepared by Mechanochemical Synthesis</b> Karolina Kucio, Barbara Charmas, Magdalena Zięzio
<a href="#">P156</a>	<b>Black Silicon-based SERS-active Substrates for the Doxorubicin Concentration Determination</b> Lena Golubewa, Aliona Klimovich, Marina Fetisova, Ieva Matulaitienė, Tatsiana Kulahava, Renata Karpicz, Petri Karvinen, Polina Kuzhir
<a href="#">P157</a>	<b>Stable and Uniform Black Silicon-based SERS-active Substrates for the Detection of Analytes with a High Potential for Reusability</b> Aliona Klimovich, Lena Golubewa, Marina Fetisova, Ieva Matulaitienė, Renata Karpicz, Petri Karvinen, Polina Kuzhir
<a href="#">P159</a>	<b>How the Presence of Chitosan Influences the Properties of Polyethylene Terephthalate in Terms of its Biocompatibility</b> Klaudia Szafran, Małgorzata Jurak, Agnieszka Ewa Wiącek, Kacper Przykaza, Agata Ładniak
<a href="#">P160</a>	<b>Hybrid Tamm-surface Plasmon Polaritons Mode Based on Planar Plasmonic Photonic Nanostructures for Highly Sensitive Real Time Biosensing of GsCF and BSA Proteins</b> Justina Anulytė, Ernesta Bužavaitė-Vertelienė, Ieva Plikusienė, Zigmas Balevičius
<a href="#">P161</a>	<b>Formation of Oriented Hydroxyapatite Structures Through the Hydrolysis of Ion-doped Alpha-tricalcium Phosphate</b> Eva Raudonytė-Svirbutavičienė, Aleksej Žarkov, Aivaras Kareiva

### MATERIALS FOR ENERGY

<a href="#">P182</a>	<b>Sb<sub>2</sub>Se<sub>3</sub> Growth Mechanism on Mica Muscovite Substrates</b> Martynas Bertašius, Rokas Kondrotas
<a href="#">P183</a>	<b>Biocathode for Glucose Biofuel Cell Based on H<sub>2</sub>O<sub>2</sub> Reduction: Synthesis, Optimization and Electrical Properties</b> Algimantas Kaminskas, Asta Kausaite-Minkstiniene
<a href="#">P184</a>	<b>Changes in Tritium Concentration after Sorption Depending on Storage Conditions</b> Elza Lagzdina, Elina Pajuste, Liga Avotina, Gunta Kizane
<a href="#">P185</a>	<b>Oxidation of Neutron-Irradiated &amp; Non-Irradiated Beryllium in Air at Elevated Temperatures with Varying Relative Humidity</b> Rudolfs Janis Zabolockis, Elina Pajuste, Liga Avotina, Mihails Halitovs, Gunta Kizane
<a href="#">P186</a>	<b>Investigating Effects of 3-dimensional Graphite Anodes on the Electrochemical Property of Lithium-ion Batteries</b> Seokho Suh, Daeun Jang, Hocheol Yoon, Jihun Kim, Hyunsu Kim, Juyeon Baek, Hyeong-Jin Kim
<a href="#">P187</a>	<b>Synthesis and Investigation of Na<sub>4</sub>Fe<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>(P<sub>2</sub>O<sub>7</sub>) for Aqueous Na-ion Batteries</b> Gintarė Plečkaitytė, Jurgis Pilipavičius, Milda Petrulevičienė, Nadežda Traškina, Jurga Juodkazytė, Linas Vilčiauskas
<a href="#">P188</a>	<b>The Effect of Diphenyl Diselenide as a Bi-functional Additive for High Voltage LiNi<sub>0.8</sub>Mn<sub>0.1</sub>Co<sub>0.1</sub>O<sub>2</sub>/graphite Battery</b> Hyeonghun Park, Geumyong Park, WooJun Seol, Seokho Suh, Jihun Kim, Ji Young Jo, Hyeong-Jin Kim

<a href="#">P189</a>	<b>Charge Carrier Transport at Close-to-Real Operation Conditions of Organic Solar Cells</b> Rokas Jasiūnas, Vidmantas Jašinskas, Huotian Zhang, Tanvi Upreti, Feng Gao, Martijn Kemerink, Vidmantas Gulbinas
<a href="#">P190</a>	<b>Using of Polypyrrole-modified Graphite Electrode as Biofuel Cell Anode</b> Kasparas Kižys, Joris Juška, Inga Morkvėnaitė-Vilkončienė
<a href="#">P191</a>	<b>Enhanced Stability and Photovoltage for Multi-cation Perovskite Solar Cells via Hindering Photo-inactive Perovskite Phase Formation</b> Sijo Chacko, Marius Franckevicius, Jolanta Doneliene, Matas Rudzikas, Egle Fataraitė-Urboniene, Francisco Fabregat-Santiago, Juras Ulbikas
<a href="#">P192</a>	<b>Development of Enzymatic Biofuel Cells</b> Šarūnas Žukauskas, Deimantė Stankūnaitė, Arūnas Ramanavičius

## Poster Session B 15:55 – 16:40

### METHODS OF SURFACE ANALYSIS

<a href="#">P5</a>	<b>Towards Electrochemical Affinity Sensors for the COVID 19 Diagnosis</b> Maryia Drobysh, Viktorija Liustrovaite, Alma Rucinskiene, Martynas Simanavicius, Aurelija Zvirbliene, Rimantas Slibinskas, Ieva Plikusiene, Evaldas Ciplys, Roman Viter, Chien-Fu Chen, Arunas Ramanavicius
<a href="#">P6</a>	<b>Evaluation of Chlorophyll-a Immobilization within Tethered Bilayer Lipid Membrane</b> Viktorija Liustrovaitė, Aušra Valiūnienė, Gintaras Valinčius, Arūnas Ramanavičius
<a href="#">P7</a>	<b>Preparation of Bare Metallic Nanostructures and Activity Mapping with Scanning Electrochemical Microscopy</b> Magdalena Michalak, Justyna Jedraszko, Joanna Celej, Steven Linfield, Bhavana Gupta, Wojciech Nogala
<a href="#">P8</a>	<b>Thermal Annealing Effect on the Structure of LiF Single Crystals Irradiated with Swift <sup>36</sup>S Ions</b> Jelena Sušinska, Ilze Manika, Jānis Maniks, Līga Bikše

### SURFACE ENGINEERING AND NANOSTRUCTURES

<a href="#">P29</a>	<b>Thermal Reduction of Graphene Oxide Using Carbon Suboxide</b> Rūta Aukštakojytė, Justina Gaidukevič, Jurgis Barkauskas
<a href="#">P30</a>	<b>Wet Chemical Etching of Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons</b> Didzis Salnājs, Raitis Sondors, Edijs Kauranens, Donats Erts, Gunta Kunakova
<a href="#">P32</a>	<b>Manipulation and Characterization of Individual Nanostructures</b> Sergei Vlassov, Boris Polyakov, Sven Oras, Edgars Butanovs, Rūno Lōhmus, Vahur Zadin, Andreas Kyritsakis
<a href="#">P34</a>	<b>Modelling and Optimization of Aloe vera/PVA/ZnO Nanomembranes and Their Applications in Nonwoven Masks</b> Muhammad Usman Munir, Daiva Mikučionienė
<a href="#">P35</a>	<b>Microwave-Assisted Solvothermal Synthesis and Characterization of NaYF<sub>4</sub> Nanoparticles</b> Kasparas Šukaitis, Lukas Šerpytis, Simas Šakirzanovas
<a href="#">P36</a>	<b>Nickel Thin Films as a Catalyst in Graphene Growth by Plasma-enhanced CVD</b> Marjan Monshi, Andrius Vasiliauskas, Erika Rajackaitė, Sigitas Tamulevičius
<a href="#">P39</a>	<b>Microwave Synthesis of Magnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles</b> Greta Zambzickaite, Lina Mikoliunaite
<a href="#">P40</a>	<b>Catalyst-Less and Transfer-Less Synthesis of Graphene on Si(100) Using Direct Microwave Plasma Enhanced Chemical Vapor Deposition and Protective Enclosures</b> Šarūnas Jankauskas, Rimantas Gudaitis, Algirdas Lazauskas, Šarūnas Meškinis
<a href="#">P41</a>	<b>Artificial Phospholipid Membrane Formation on Tin Oxide Surfaces</b> Inga Gabriunaite, Margarita Poderyte, Aušra Valiūnienė
<a href="#">P42</a>	<b>Obtaining of Platinum-cobalt-ceria Supported on Graphene Oxide and Application as Electrocatalysts</b> Adriana Marinoiu
<a href="#">P43</a>	<b>Coprecipitation Synthesis of Adjustable Size Magnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles</b> Gytautė Sirgėdaitė, Lina Mikoliūnaitė
<a href="#">P44</a>	<b>Fabrication of Double Period Diffracting Gratings Employing Moiré Patterns in Holographic Lithography</b> Gvidas Klyvis, Virgilijus Minialga, Tomas Tamulevičius

### ELECTRONIC AND OPTICAL MATERIALS

<a href="#">P77</a>	<b>Synthesis and Investigation of the Properties of Electroactive Heteroaromatic Compounds</b> Ronit Sebastine Bernard, Viktorija Andruleviciene, Oleksandr Bezvikonnyi, Dmytro Volyniuk, Juozas Vidas Grazulevicius
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<a href="#">P78</a>	<b>Red-fluorescing BODIPY-based Polarity Sensor</b> Karolina Maleckaitė, Jelena Dodonova, Rugilė Žilėnaitė, Sigitas Tumkevičius, Aurimas Vyšniauskas
<a href="#">P79</a>	<b>Investigation of Tantalum (V) or Vanadium (V) Doped YAG Phosphors</b> Monika Skruodiene, Anatolijus Sarakovskis
<a href="#">P80</a>	<b>Synthesis and Properties of Star-Shaped 1,8-naphthalimide Based Derivatives</b> Naveen Masimukku, Dalius Gudeika, Asta Dabulienė, Malek Mahmoudi Sharabiani, Dmytro Volyniuk, Juozas V. Grazulevicius
<a href="#">P81</a>	<b>Structural and Electrical Investigation of the “Buffer-Free” AlGaIn/GaN Heterostructures on SiC Substrate</b> Justinas Jorudas, Pawel Prystawko, Maksym Dub, Algirdas Selskis, Martynas Skapas, Pavlo Sai, Maciej Sakowicz, Sergey Rumyantsev, Wojciech Knap, Irmantas Kašalynas
<a href="#">P82</a>	<b>Synthesis and Studies of Properties of Organic Semiconductors Containing Donor and Acceptor Moieties</b> Levani Skhirtladze, Juozas Vidas Grazulevicius, Karolis Leitonas, Azhar Bin Ariffin, Woon Kai Lin, Omar Mukbaniani
<a href="#">P83</a>	<b>Characterisation of Colored Glass Plates with Bragg Lattice Structure Formed from Sol-gel Solutions</b> Matas Rudzikas, Jolanta Donėlienė, Juras Ulbikas, Arūnas Šetkus
<a href="#">P84</a>	<b>Novel Phosphate Glass Matrices as a Potential Host for Luminescent Rare Earth Ions</b> Mantas Norkus, Ramūnas Skaudžius
<a href="#">P85</a>	<b>FTIR Analysis of Oxidized Tungsten and Tungsten Diboride Nanolayers</b> Annija Elizabete Goldmane, Liga Avotina, Marina Romanova, Alexei Muhin, Aleksandrs Zaslavskis, Gunta Kizane, Yuri Dekhtyar
<a href="#">P86</a>	<b>Synthesis and Analysis of YAG Doped with Pentavalent Ions</b> Ruta Juodvalkyte, Monika Skruodiene, Ramunas Skaudzius
<a href="#">P87</a>	<b>Luminescence Properties of Doped and Undoped ZnO Single Crystals, Ceramics and Powders</b> Agnese Spustaka, Donāts Millers, Ivita Bite, Krišjānis Šmits, Jurģis Grūbe, Anatolijus Šarakovskis, Piotr Rodnyi, Elena Gorokhova
<a href="#">P88</a>	<b>Spectroscopic Investigation of BODIPY-based Fluorophores for Sensing Viscosity</b> Rugilė Žilėnaitė, Karolina Maleckaitė, Jelena Dodonova, Sigitas Tumkevičius, Aurimas Vyšniauskas
<a href="#">P89</a>	<b>Synthesis of Novel <math>Y_{1-x}Ln_x(BTC)(DMF)_2(H_2O)</math> and <math>Y_{0.8-x}Yb_{0.2}Ln_x(BTC)(DMF)_2(H_2O)</math> Metal Organic Frameworks and Determination of Their Upconversion Properties</b> Andrius Laurikėnas, Aivaras Kareiva
<a href="#">P90</a>	<b>Measurement of Magnetic Field at Cryogenic Temperatures Using Thin Polycrystalline Manganite-cobaltite Films</b> Jorūnas Dobilas, Vakaris Rudokas, Voitech Stankevič, Nerija Žurauskienė
<a href="#">P91</a>	<b>Synthesis and Studies of Iminostilbene Containing D-A-D Type Emitters</b> Sanjay Madhuran Punniyakoti, Asta Dabulienė, Juozas Vidas Gražulevičius
<a href="#">P92</a>	<b>Mobile Charged Defects Determines Multiphase Performance Dynamics of Perovskite LEDs</b> Rokas Gegevičius, Lukas Jonušis, Weiming Qiu, Vidmantas Gulbinas

### CERAMICS

<a href="#">P114</a>	<b>Synthesis of Neodymium Iron Orthoferrites, Fabrication into Coatings and Nanotubes</b> Justinas Januškevičius, Ieva Čėsnaitė, Živilė Stankevičiūtė, Aldona Beganskienė, Aivaras Kareiva
<a href="#">P115</a>	<b>Influence of Fe<sup>3+</sup> Doping on Thermally Induced Crystallization and Phase Evolution of Amorphous Calcium Phosphate</b> Diana Griesiute, Lauryna Sinusaite, Agne Kizalaite, Aleksej Zarkov
<a href="#">P116</a>	<b>The Influence of Thermal Synthesis Parameters on Mayenite Structure</b> Kristina Ruģinytė, Anatolijus Eisinis
<a href="#">P117</a>	<b>Comparative Study of Zinc Whitlockite Synthesized by Different Methods</b> Agne Kizalaite, Aleksej Zarkov
<a href="#">P118</a>	<b>Photoluminescence of Lithium Orthosilicate Pellets Prepared via Solid-state Synthesis</b> Mareks Senko, Artūrs Zariņš, Līga Avotiņa, Aija Trimdale, Juris Prikulis, Gunta Kizāne

### POLYMERS AND COMPOSITES

<a href="#">P135</a>	<b>Spectrometric and Thermal Analysis of Radiation Modified Natural Keratinous Fibers</b> Liga Avotina, Arturs Zarins, Vladislavs Perkanuks, Larisa Baumannė, Rudolfs Janis Zabolockis, Aleksandrs Peťjukevics, Gunta Kizane
<a href="#">P136</a>	<b>Development of PEDOT:PSS-based Screen Printing Inks for Stretchable Electrochromic Thin Films</b> Juzef Kučinski, Mindaugas Gicevičius, Lina Mikoliūnaitė
<a href="#">P137</a>	<b>Effect of Thermoplastic Meltdown on the Joint Produced by Laser Quasi-simultaneous Transmission Welding</b> Simonas Mindaugas Jankus, Regita Bendikienė
<a href="#">P139</a>	<b>Processing of Polymer Materials with High Energy Stream of Powder Particles</b>

	Yulia Usherenko, Viktors Mironovs
<a href="#">P140</a>	<b>Attenuation Properties of Thin Layers Silicone Composites Containing Metal Basis and Comparison with Lead and Lead-free Protection Materials Used in Clinical Practice</b> Laurynas Gilys, Egidijus Griškonis, Diana Adlienė
<a href="#">P141</a>	<b>Effect of Gold Surface Roughness on Growth of Lactic Acid Bacteria</b> Joanna Grudzień, Magdalena Jarosz, Kamil Kamiński, Marcin Kozieł, Karol Wolski, Grzegorz D. Sulka

### ADVANCED ENGINEERING MATERIALS

<a href="#">P162</a>	<b>Study of Puncture-resistant 3D Knitted Fabrics</b> Julija Krauledaitė, Kristina Ancutienė, Sigitas Krauledas, Virginijus Urbelis
<a href="#">P163</a>	<b>Study of Organic Semiconductors Containing Phenyl(pyridin-4)methanone Group and the Different Acceptor Moieties</b> Giorgi Parulava, Dalius Gudeika, Dmytro Volyniuk, Pavlo Stakhira, Juozas Vidas Grazulevicius
<a href="#">P164</a>	<b>Remote Epitaxy of GaN via Few-layer Graphene</b> Kazimieras Badokas, Arūnas Kadys, Dominykas Augulis, Ilja Ignatjev, Giedrius Juška, Jūras Mickevičius, Tadas Malinauskas
<a href="#">P165</a>	<b>Development of Multi-layered Weft-knitted Fabrics for Thermal Insulation</b> Vaida Buzaitė, Daiva Mikučionienė
<a href="#">P166</a>	<b>Influence of Synthesis and Subcritical Drying Conditions on the Porosity of TiO<sub>2</sub> Aerogel</b> Jolanta Donėlienė, Juras Ulbikas, Eglė Fataraitė-Urbonienė
<a href="#">P168</a>	<b>Electrodeposition of Fe<sub>2</sub>O<sub>3</sub> on Anodic TiO<sub>2</sub></b> Monika Sołtys-Mróz, Karolina Syrek, Grzegorz D. Sulka
<a href="#">P169</a>	<b>Mechanical Characteristics of Thigh Prosthesis Materials</b> Tomas Kuncius, Aurelijus Domeika, Donatas Daublys, Linas Puodžiukynas, Saulius Diliūnas
<a href="#">P170</a>	<b>Silica Sol Characterization and Particle Size Dependence to Environmental Factors</b> Lukas Šerpytis, Matas Damonskis, Lukas Taujenis, Simas Šakirzanovas
<a href="#">P171</a>	<b>Theoretical Modelling of Weft-Knitted Structures</b> Edgaras Arbataitis, Daiva Mikučionienė

### MATERIALS FOR ENERGY

<a href="#">P193</a>	<b>Microbial Biofuel Cell Based on Saccharomyces Cerevisiae Modified with Polypyrole</b> Antanas Zinovicus, Timas Merkelis, Inga Morkvenaite-Vilkonciene, Arunas Ramanavicius
<a href="#">P194</a>	<b>Photoelectrochemical Performance of Anodically Formed Nanostructured SnO<sub>x</sub>/FTO Systems</b> Magdalena Gurgul, Patryk Kocwa, Leszek Zaraska
<a href="#">P195</a>	<b>Stabilisation of Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> as Cathode Material for Aqueous Sodium-ion Batteries</b> Milda Petrulevičienė, Jurgis Pilipavičius, Jurga Juodkazytė, Linas Vilčiauskas
<a href="#">P196</a>	<b>Development of Methodology for Preparation and Transportation of Lithium Orthosilicate Based Ceramic Pellets for High Energy Heavy Ion Irradiation Experiments</b> Anna Ansonė, Artūrs Zariņš, Andris Antuzevičs, Līga Avotiņa, Kristaps Saršūns, Gatis Sliters, Gunta Kizāne, Larisa Baumanė
<a href="#">P197</a>	<b>Precisely Controlled Carbon Coating of NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> for Enhanced Electrochemical Performance</b> Nadežda Traškina, Gintarė Plečkaitytė, Jurgis Pilipavičius, Jurga Juodkazytė, Linas Vilčiauskas
<a href="#">P198</a>	<b>Aqueous Electrochemical Properties and Stability of Isovalently and Aliovalently Substituted Na<sub>1-x</sub>Ti<sub>2-x</sub>M<sub>x</sub>(PO<sub>4</sub>)<sub>3</sub> (M = Zr(IV), Hf(IV), Al(III), Mg(II))</b> Skirmantė Tutlienė, Jurgis Pilipavičius, Jurga Juodkazytė, Linas Vilčiauskas
<a href="#">P199</a>	<b>Influence of Hydrothermal Annealing on Photocurrent Response of ZnO Nanowires Obtained by Anodic Oxidation of Metallic Zinc in Bicarbonate Electrolytes</b> Krystyna Mika, Karolina Podsiadło, Leszek Zaraska, Grzegorz D. Sulka
<a href="#">P200</a>	<b>Rotating Ring-disc Electrode Study of Cathode Materials for Aqueous Na-ion Battery</b> Davit Tediashvili, Linas Vilčiauskas
<a href="#">P201</a>	<b>Investigation of Competition Between Photo-Oxidation of Water and Anions on WO<sub>3</sub> Photoanode in Chloride and Sulfate Electrolytes</b> Maliha Parvin, Milda Petrulevičienė, Irena Savickaja, Benjaminas Šebeka, Arnas Naujokaitis, Vidas Pakštas, Renata Karpicz, Jurga Juodkazytė
<a href="#">P202</a>	<b>Fe<sub>2</sub>O<sub>3</sub>-WO<sub>3</sub> Heterojunction Operating Under Visible Light Spectrum</b> Marta Zych, Karolina Syrek, Grzegorz D. Sulka
<a href="#">P203</a>	<b>Synthesis of CdS on FTO/ZnO by Chemical Bath Deposition Method</b> Eglė Ūsovienė, Edita Paluckienė, Neringa Petrašauskienė
<a href="#">P204</a>	<b>Investigation of SILAR Deposition of Cadmium Selenide Thin Films on FTO/ZnO Substrate from Aqueous Solutions</b> Gediminas Jakubauskas, Neringa Petrašauskienė, Edita Paluckienė

Poster Session C 16:50 – 17:35

**METHODS OF SURFACE ANALYSIS**

<a href="#">P9</a>	<b>Facile Preparation of Iodine-doped Graphene and its Application as Low Cost Catalyst for Hydrogen Fuel Cells</b> Adriana Marinoiu, <a href="#">Mircea Raceanu</a>
<a href="#">P10</a>	<b>Probing Light-induced Surface Charge Kinetics Using Kelvin Probe Force Microscopy in a Non-imaging Mode</b> Yuri Dekhtyar, Hiran Chanaka Gunawardana Maladenige, <a href="#">Hermanis Sorokins</a>
<a href="#">P11</a>	<b>Preliminary Study of Electrophysical Properties of Blood in Dependence on Rh-factor</b> Maria Kovaleva, <a href="#">Aliaksandr Burko</a> , Nadzeya Khinevich, Vladimir Petrovich, Olga Polulyakh, Hanna Bandarenka

**SURFACE ENGINEERING AND NANOSTRUCTURES**

<a href="#">P46</a>	<b>Synthesis and Structural Characterization of Magnetically-doped Bi<sub>2</sub>Se<sub>3</sub> Nanostructures</b> <a href="#">Andrei Felsharuk</a> , Kiryl Niherysh, Jana Andzane, Krisjanis Smits, Donats Erts
<a href="#">P47</a>	<b>Effect of Au Catalyst Morphology on the Growth of Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons</b> <a href="#">Raitis Sondors</a> , Gunta Kunakova, Elza Dzene, Liga Jasulaneca, Jana Andzane, Edijs Kauranens, Donats Erts
<a href="#">P48</a>	<b>Hall Effect Measurements in TI Nanoribbons</b> <a href="#">Kiryl Niherysh</a> , Xavier Palermo, Gunta Kunakova, Jana Andzane, Thilo Bauch, Donats Erts, Floriana Lombardi
<a href="#">P49</a>	<b>Preparation of Bi<sub>2</sub>Se<sub>3</sub>/CNT High Porosity Material</b> Vanda Voikiva, Raimonds Meija, Donats Erts
<a href="#">P50</a>	<b>Glass Processing with Different Laser Techniques</b> Juozas Dudutis, Miglė Mackevičiūtė, Laimis Zubauskas, Edgaras Markauskas, <a href="#">Paulius Gečys</a>
<a href="#">P51</a>	<b>Photoluminescence of Variable-Length Zinc Oxide Nanorods Embedded in Porous Anodic Aluminum Oxide Matrix</b> Uldis Malinovskis, Aleksandrs Dutovs, Raimonds Poplausks, Mikhael Bechelany, Donats Erts, <a href="#">Juris Prikulis</a>
<a href="#">P52</a>	<b>Switching with Bi<sub>2</sub>Se<sub>3</sub> Nanoribbons at Cryogenic Temperatures</b> <a href="#">Liga Jasulaneca</a> , Edijs Kauranens, Raitis Sondors, Elza Dzene, Jana Andzane, Donats Erts
<a href="#">P53</a>	<b>Fabrication of Templates for Nanoparticle Deposition Based on Mesoporous Silicon with Open Pores</b> <a href="#">Nadzeya Khinevich</a> , Mindaugas Juodėnas, Asta Tamulevičienė, Hanna Bandarenka, Sigita Tamulevičius
<a href="#">P54</a>	<b>Integration of Nanostructured Sensor for the Electrochemical Detection of Biomarkers: Towards Search for Life in Space</b> <a href="#">Marc Keller</a> , Karine Mougín, Jérôme Launay, Delphine Faye, Vincent Vivier, Arnaud Buch, Pierre Bauer, Pierre Ponthiaux
<a href="#">P55</a>	<b>Ultrafast Plasmon Relaxation Dynamics of Various Shapes Gold Nanoparticles</b> <a href="#">Domantas Peckus</a> , Karine Mougín, Arnaud Spangenberg, Quentin Bauerlin, Marc Keller, Tomas Tamulevičius, Sigita Tamulevičius
<a href="#">P56</a>	<b>Copper Interconnections with High Adhesion to Silicon for MEMS Technology</b> <a href="#">Aliaksandr Burko</a> , Alexey Dolgiy, Nadzeya Khinevich, Hanna Bandarenka
<a href="#">P57</a>	<b>Ultrafast Modulation of the Surface Lattice Resonance via Optomechanical Modes</b> <a href="#">Mindaugas Juodėnas</a> , Domantas Peckus, Tomas Tamulevičius, Joel Henzie, Sigita Tamulevičius
<a href="#">P58</a>	<b>Optical Properties of Coatings Based on Plasmonic and Up-conversion Nanoparticles for Solar Cells</b> <a href="#">Aliaksandr Burko</a> , Daniil Markevich, Nadzeya Khinevich, Hanna Bandarenka
<a href="#">P59</a>	<b>Sensing of Vascular Endothelial Growth Factor Using Zinc Oxide - Porous Anodic Aluminum Oxide Hybrid Film</b> Uldis Malinovskis, Aleksandrs Dutovs, Raimonds Poplausks, Juris Prikulis, Mikhael Bechelany, Donats Erts

**ELECTRONIC AND OPTICAL MATERIALS**

<a href="#">P93</a>	<b>Modification of Polyamide 6 Films Surface by the Layers of Cadmium Sulfide – Cadmium Telluride</b> <a href="#">Miglė Liudžiūtė</a> , Skirma Žalenkienė
<a href="#">P94</a>	<b>Manganite Film Application for Microsecond Duration High Magnetic Field Measurement</b> <a href="#">Modestas Čeikauskas</a> , Justas Dilys, Milita Vagner, Voitech Stankevič, Valentina Plaušnaitienė, Nerija Žurauskienė
<a href="#">P95</a>	<b>Formation of Cobalt Sulfide Films on Polyamide Surface by Sorption-diffusion Method</b> <a href="#">Klaudija Vaičiukynaitė</a> , Skirma Žalenkienė
<a href="#">P96</a>	<b>Luminescence of AlN:Eu</b> <a href="#">Rihards Ruska</a> , Baiba Bērziņa, Laima Trinklere
<a href="#">P97</a>	<b>Carbazole-Based Hole-Selective Monolayers for Solar Cells</b> <a href="#">Artiom Magomedov</a> , Ernestas Kasparavičius, Amran Al-Ashouri, Eike Köhnen, Yuanbao Lin, Yuliar Firdaus,

	Bor Li, Thomas Anthopoulos, Tadas Malinauskas, Steve Albrecht, Vytautas Getautis
<a href="#">P99</a>	<b>THz Excitation Spectroscopy of the Layered Semiconductor Crystals</b> Ričardas Norkus, Ignas Nevinskas, Arūnas Krotkus
<a href="#">P100</a>	<b>Neural Network Enabled Prediction of Power Reflection of Polarized Light from Material Surface</b> Tomas Klinavičius, Tomas Tamulevičius
<a href="#">P101</a>	<b>Sol-gel Synthesis of Transparent Nanoporous Monolithic Silicon Dioxide Glass</b> Madara Leimane, Ivita Bite, Linards Skuja, Krišjānis Šmits, Virginija Vītola
<a href="#">P102</a>	<b>Growth and Investigation of Bi-containing A3-B5 Compounds</b> Arnas Pukinskas, Nerijus Jurkūnas, Algirdas Jasinskas, Simona Pūkienė, Andrius Bičiūnas, Bronislovas Čechavičius, Virginijus Bukauskas, Renata Butkutė
<a href="#">P103</a>	<b>Synthesis of Manganese-doped Zinc Sulfide Nanomaterials</b> Milena Dile, Katrīna Laganovska, Ivita Bite, Līga Bikše
<a href="#">P104</a>	<b>Study of Defects in Hafnia via Luminescent Properties</b> Katrīna Laganovska, Ivita Bite, Krišjānis Šmits
<a href="#">P105</a>	<b>Dependence of Electrical Properties of Bismuth Selenide Nanoribbons on External Electrical Field and Bending at 5 K</b> Edijs Kauranens, Liga Jasulaneca, Raitis Sondors, Elza Dzene, Jana Andzane, Donats Erts
<a href="#">P106</a>	<b>Investigation of Radiation Induced Defect Stability in GAGG:Ce for Particle Collider Detector Applications</b> Toms E. Šusts, Elīna Pajuste, Artūrs Zariņš, Jānis Čīpa, Vladimir Pankratov, Anatoli I. Popov
<a href="#">P107</a>	<b>The Influence of Different Chemical Synthesis Methods on Physical Properties of HfO<sub>2</sub> Nanoparticles</b> Ivita Bite, Katrina Laganovska, Krisjans Smits, Virginija Vītola
<a href="#">P108</a>	<b>Chromium-doped Alumina as a Potential Dosimetric Material</b> Ernestis Einbergs, Aleksejs Zolotarjovs, Krisjanis Smits, Ivita Bite, Laima Trinkler
<a href="#">P109</a>	<b>Theoretical and Experimental Investigation of Mobilities of Tetraoxa[8]circulene</b> Stepan Kutsiy, Iryna Danyliv, Pavlo Stakhira, Nataliya Karaush-Karmazin, Glib Baryshnikov, Boris Minaev

### CERAMICS

<a href="#">P119</a>	<b>Impact of the Initial pH Value on the Calcium Phosphate Ceramics Derived from Eggshells</b> Marta Kalbarczyk, Aleksandra Szcześ
<a href="#">P120</a>	<b>Thermal and Elastic Properties of Open Kelvin-cell Metamaterials – Computer Modeling of Systematic Processing Defects in Ceramic Foams</b> Soňa Hříbalová, Tereza Uhlířová, Willi Pabst
<a href="#">P121</a>	<b>A New Method for the Formation of Bioceramic Nano-calcium Hydroxyapatite Coatings</b> Rasa Karalkevičienė, Aleksej Zarkov, Greta Briedyte, Tomas Murauskas, Mantas Norkus, Aivaras Kareiva
<a href="#">P122</a>	<b>Role of Mechanical Activation on Sintering of NBT Ceramics</b> Arturs Atvars, Marija Duncce
<a href="#">P123</a>	<b>Hydrothermal and Microwave Assisted Hydrothermal Synthesis of Sodium Bismuth Titanate</b> Otto Freimanis, Sanija Dutkeviča, Marija Duncce

### POLYMERS AND COMPOSITES

<a href="#">P142</a>	<b>Viscosity Variation During Addition of Ester and Ether Macrodiols to Isocyanates</b> Paulina Nemaniūtė, Marijus Jurkūnas, Dalia Bražinskienė, Svajus J. Asadauskas
<a href="#">P143</a>	<b>Simulation of Single Lap Adhesive Joints Behaviour by Finite Element Method</b> Stasė Petraitienė, Eglė Fataraitė-Urbonienė, Juras Ulbikas, Jolanta Donelienė
<a href="#">P144</a>	<b>Tendencies of Solid Phase Formation in Deep Eutectic Solvents of Betaine and Xylitol</b> Audrė Kalinauskaitė, Dalia Bražinskienė, Svajus Asadauskas
<a href="#">P145</a>	<b>Cost Optimization of Polycarbonate Matrix for Antibacterial Composites</b> Tomasz Flak, Adrian Barylski, Jadwiga Gabor, Andrzej Swinarew
<a href="#">P146</a>	<b>Toward the Development of Sensors and Actuators by 4D Printing</b> Quentin Bauerlin, Xingyu Wu, Benjamin Leuschel, Feriel Ghellal, Damien Favier, Christian Gauthier, Thierry Roland, Karine Mougín, Arnaud Spangenberg
<a href="#">P147</a>	<b>4D Micro-printing: Photocomposites for the Realization of Micro-actuators</b> Sébastien Dominici, Xingyu Wu, Laurent Ranno, Nora Dempsey, Quentin Bauerlin, Karine Mougín, Arnaud Spangenberg
<a href="#">P149</a>	<b>Synthesis and Characterization of Encapsulated Bi<sub>2</sub>Se<sub>3</sub>/CNT and Sb<sub>2</sub>Te<sub>3</sub>/CNT Hybrid Structures</b> Krisjanis Buks, Jana Andzane, Vanda Voikiva, Michael Katkov, Donats Erts
<a href="#">P150</a>	<b>Synthesis and Flexibility Tests of CNT-Metal Chalcogenide Thermoelectrical Thin Films</b> Lasma Bugovecka, Krisjanis Buks, Paulius Dolmantas, Kiryl A. Niherysh, Jana Andzane, Donats Erts

### ADVANCED ENGINEERING MATERIALS

<a href="#">P172</a>	<b>Sol-Gel Fabrication and Characterization of Different Garnet Structure Compounds</b>
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	Jolanta Raudonienė, Vytautas Balevicius, Arunas Marsalka, Rimantas Raudonis, Aleksej Zarkov, Aivaras Kareiva
<a href="#">P174</a>	<b>Waste Fluid Catalytic Cracking in the Systems of Binding Materials</b> Danutė Vaičiukynienė, Vilimantas Vaičiukynas, Aras Kantautas, Rėda Bistrickaitė, Jūratė Mockienė, Dalia Nizevičienė
<a href="#">P175</a>	<b>The Cyclic Stress Strain Behaviour of Electro-conductive Compression Fabrics on Heat Generation</b> Md Reazuddin Repon, Daiva Mikučionienė
<a href="#">P176</a>	<b>GaN Polarity Inversion using ALD-Al<sub>2</sub>O<sub>3</sub> Interlayer</b> Marek Kolenda, Arūnas Kadys, Tadas Malinauskas, Edvinas Radiunas, Riina Ritasalo, Tomas Grinys, Martynas Skapas, Roland Tomašiūnas
<a href="#">P177</a>	<b>Investigation of Long-Term Stability of Resistivity and Magnetoresistance of Nanostructured La-Sr-Mn-Co-O Films</b> Mykola Koliada, Vakarīs Rudokas, Milita Vagner, Karolis Motiejūitis, Voitech Stankevič, Valentina Plaušinitienė, Nerija Žurauskienė
<a href="#">P178</a>	<b>Laser Technology for Epitaxial GeSn Layers: Redistribution of Sn Atoms by Nd:YAG Laser Radiation</b> Pavels Onufrijevs, Patrik Ščajev, Algirdas Mekys, Tadas Malinauskas, Liudvikas Subačius, Arturs Medvids, Sarunas Varnagirīs, Kuo-Chih Lee, Hung Hsiang Cheng
<a href="#">P179</a>	<b>Comparison of Simulated p-type Si<sub>1-x</sub>Ge<sub>x</sub> and Si LGAD with Traps</b> Kornelijus Pūkas, Tomas Čeponis, Eugenijus Gaubas
<a href="#">P180</a>	<b>Laser-induced Oxidation of Titanium Foils: Control of TiO<sub>2</sub> Phases</b> Liga Grase, Pavels Onufrijevs, Arturs Medvids, Imants Adijans, Lubomir Lazov
<a href="#">P181</a>	<b>The Comparative Study of Different Hardened Cement Paste Systems with Zeolitic Waste Containing Ammonium Ions</b> Agnė Mikelionienė, Danutė Vaičiukynienė, Algirdas Radzevičius, Aras Kantautas

### MATERIALS FOR ENERGY

<a href="#">P205</a>	<b>One-step Synthesis of Nitrogen-doped Graphene Oxide as Electrocatalyst for Fuel Cells</b> Adriana Marinoiu
<a href="#">P206</a>	<b>Aqueous Degradation Protection of NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> by ALD</b> Laurynas Staišiūnas, Jurgis Pilipavičius, Linas Vilčiauskas
<a href="#">P207</a>	<b>Synthesis and Properties of Bismuth and Antimony Chalcogenide Based Nanolaminates on Graphene Substrates</b> Jana Andzane, Andrei Felsharuk, Anatolijs Sarakovskis, Kiryl Niherysh, Donats Erts
<a href="#">P208</a>	<b>Monolayers with Different Linkers for Perovskite Solar Cells</b> Aida Drevilkaukaitė, Amran Al-Ashouri, Steve Albrecht, Vytautas Getautis, Artiom Magomedov
<a href="#">P209</a>	<b>Intensity Modulated Photocurrent Spectroscopy as a Tool for WO<sub>3</sub> Photoanode Characterization</b> Ramunas Levinas, NataliaTsyntsarū, Henrikas Cesiulis
<a href="#">P210</a>	<b>Polyetheretherketone Composites with Ionic Liquids for All Solid Sodium-ion Batteries</b> Samanta Homiča, Einārs Sprūģis, Guntars Vaivars
<a href="#">P211</a>	<b>Electrochemical Properties of Single-walled Carbon Nanotubes (SWCNT) Using LiNO<sub>3</sub> Aqueous Electrolyte</b> Vitālijs Lazarenko, Yelyzaveta Rublova, Raimonds Meija, Jana Andžāne, Vanda Voikiva, Arturs Vīksna, Alexander Okotrub, Donāts Erts
<a href="#">P212</a>	<b>Features of the Formation of Natural SEI Layers from Aqueous Electrolytes on the Surface of SWCNT and Bi<sub>2</sub>Se<sub>3</sub> Anodes and Their Impacts on the Electrochemical Properties</b> Yelyzaveta Rublova, Vitalijs Lazarenko, Vanda Voikiva, Raimonds Meija, Jana Andzane, Donats Erts
<a href="#">P213</a>	<b>Sulfonated Polyetheretherketone and Graphene Composite Membranes: Preparation and Characterization</b> Reinis Kaparkalējs, Linda Briede, Elīna Pajuste, Einārs Sprūģis, Guntars Vaivars
<a href="#">P214</a>	<b>2-methyl-1,4-naphthoquinone Mediated Microbial Fuel Cell</b> Juste Rozene, Antanas Zinovicius, Katarzyna Blazevic, Uldis Žaimis, Inga Morkvenaite-Vilkonciene
<a href="#">P215</a>	<b>Bi<sub>2</sub>Se<sub>3</sub> Thin Films for Aqueous Na-ion Batteries</b> Raimonds Meija, Anna Skrastina, Vitalijs Lazarenko, Yelyzaveta Rublova, Vanda Voikiva, Jana Andzane, Donats Erts

### Online Poster Session 17:45 – 18:30

<a href="#">P12</a>	<b>Various Factors of Weave Estimation and their Correlation with Some Properties</b> Most. Setara Begum, Rimvydas Milašius
<a href="#">P16</a>	<b>In-situ XPS Analysis of Thermally Induced Changes in the Molecular Structure of Plasma Deposited CoOx-based Nanocatalysts</b> Jacek Balcerzak, Ryszard Kapica, Hanna Kierzkowska-Pawlak, Jacek Tyczkowski
<a href="#">P23</a>	<b>Corrosion Behavior of Electrodeposited Ceria Oxide Coatings on Zinc Surface</b>

	Aliona Kirdeikienė, Laima Gudavičiūtė, Algirdas Selskis, Jurgis Pilipavičius, Gediminas Niaura, Rimantas Ramanauskas
<a href="#">P31</a>	<b>Composition and Fluorescence Properties of Electrochemically Synthesized Nanoporous Anodic Alumina/Carbon Composites</b> Katsiaryna Chernyakova, Renata Karpicz, Arunas Jagminas
<a href="#">P33</a>	<b>Simulation of TiO<sub>2</sub> and TiO<sub>2</sub>/Au Nanoparticles Interaction with Gram-negative Bacteria Envelope Membrane Using Molecular Dynamics and Monte-Carlo Methods</b> Sridhar Hariharaputran, Arul Murugan Natarajan, Zilvinas Rinkevicius, Patrick Norman
<a href="#">P37</a>	<b>Plasma Deposited Alumina-based Washcoat for Catalytic Structured Packings</b> Aleksandra Kędzierska-Sar, Kozłowski Konrad, Maciej Fronczak, Magdalena Leśniak, Hanna Kierzkowska-Pawlak, Jacek Tyczkowski
<a href="#">P38</a>	<b>Analysis of the Oxygen Plasma Treatment Influence on the Properties of Diamond-Like Carbon Nanocomposite Films with Copper</b> Julija Jokšaitė, Asta Tamulevičienė, Erika Rajackaitė, Šarūnas Meškinis, Tomas Tamulevičius, Sigitas Tamulevičius
<a href="#">P45</a>	<b>Impact of Graphene Transferred onto Au Nanoparticles Deposited on Porous Alumina Template</b> Aleksandrs Dutovs, Raimonds Poplauskis, Andrei Felsharuk, Donats Erts, Juris Prikulis
<a href="#">P98</a>	<b>Novel Sintering Additive for Densification of Transparent YAG Ceramics</b> Vojtěch Nečina, Jan Hostaša, Willi Pabst
<a href="#">P126</a>	<b>Surface Modification and Physico-mechanical Properties of Newly Developed Banana Fiber Nonwoven Material</b> K.Z.M. Abdul Motaleb, Rimvydas Milašius
<a href="#">P133</a>	<b>Poly(amidoamines) Containing Disulfide Bonds as Efficient Reagent for DNA Transfection</b> Alma Bočkuvienė, Laura Matikaitė, Eigilė Eidėnaitė, Lolita Žalčiauskienė
<a href="#">P134</a>	<b>Improvement of Anti-abrasion Properties of Anti-corrosive Epoxy Coating for Industrial Applications</b> Liepa Pastarnokienė, Tatjana Kochanė, Ričardas Makuška
<a href="#">P138</a>	<b>Investigation of N,N'-Methylenebisacrylamide Influence on Sensitivity of Polymer Gel Dosimeters with Reduced Toxicity</b> Mantvydas Merkis, Ignas Pikas, Diana Adlienė
<a href="#">P148</a>	<b>The Influence of Orange Essential Oil on the Structure of Electrospun Polyvinylpyrrolidone Mat</b> Mohaiminul Quayum, Erika Adomavičiūtė
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