

Programme of the 22nd International Conference-School  
“Advanced Materials and Technologies 2020”

**Date:** 24-28 August, 2019

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

**Poster Sessions. August 27, Thursday, 14:30 – 17:30**

**Poster Session A 14:30 – 15:30**

**METHODS OF SURFACE ANALYSIS**

<b>P1</b>	<b>Exchange of Optical Vortices Using Coherent Population Trapping</b> Hamid Reza Hamedi, Emmanuel Paspalakis, Giedrius Žlabys, Gediminas Juzeliunas, Julius Ruseckas
<b>P4</b>	<b>Fly Ashes Physical Properties and Chemical Composition</b> Dovilė Ragauskaitė, Rasa Šlinkšienė
<b>P7</b>	<b>Carbon Detection in Surface of Soils</b> Anta Gailisa, Katrina Laganovska, Krisjanis Smits
<b>P10</b>	<b>Structures of Human Human Growth Antibodies Studied by Scanning Electrochemical Microscopy</b> Aura Kisieliute, Inga Morkvenaite Vilkonciene, Anton Popov, Benediktas Brasiunas, Almira Ramanaviciene, Arunas Ramanavicius

**SURFACE ENGINEERING AND NANOSTRUCTURES**

<b>P13</b>	<b>Fabrication of Gold Nanoparticles on ITO Substrates using Nanosecond Laser and their Potential Applications</b> Evaldas Stankevičius
<b>P16</b>	<b>SECM and EIS Characterisation of Fluorine Doped Tin Oxide Glass Application for Phospholipid Membrane Formation</b> Inga Gabriunaite, Margarita Poderyte, Aušra Valiūnienė
<b>P19</b>	<b>Towards Application of ZnO Nanowires in Optical Biosensor Design</b> Vincetas Maciulis, Ieva Plikusiene, Octavio Graniel, Mikhael Bechelany, Saulius Balevicius, Vilius Vertelis, Zigmas Balevicius, Anton Popov, Arunas Ramanavicius, Almira Ramanaviciene
<b>P22</b>	<b>Synthesis of ZnO Nanowires and Their Use in Alternating Current Driven Oxide Powder Electroluminescent Elements</b> Ēriks Vilunas, Katrīna Laganovska, Ivita Bite, Krišjānis Šmits, Edgars Butanovs
<b>P25</b>	<b>Mechanical, Electrical and Morphological Characterization of CuO Nanowires Grown by a Modified Thermal Oxidation Method</b> Raitis Sondors, Jelena Kosmaca, Gunta Kunakova, Liga Jasulaneca, Matiss Martins Ramma, Raimonds Meija, Edijs Kauranens, Mikk Antsov, Donats Erts
<b>P28</b>	<b>Low Temperature Plant Drying Method Based on the Control of the Relative Humidity</b> Mykyta Kovalenko, Marius Šumanas, Daniela Senkevič, Nikita Edgar Sitiajev, Andrius Dzedzickis, Vytautas Bučinskas, Inga Morkvėnaitė-Vilkončienė
<b>P31</b>	<b>Characterization of Electrical and Thermoelectric Properties of Sn-doped Bi<sub>2</sub>Se<sub>3</sub> Ultrathin Films</b> Andrei Felsharuk, Kiryl Niherysh, Jana Andzane, Donats Erts
<b>P34</b>	<b>New Features of Mesoporous Silicon Structure</b> Nadzeya Khinevich, Sergey Zavatsky, Hanna Bandarenka, Sigitas Tamulevičius, Vitaly Bondarenko
<b>P37</b>	<b>Temperature Behavior of Monolithic Xerogels, Doped with Nanoparticles of Erbium and Ytterbium Oxides</b> Iryna Sulym, Mykola V. Borysenko, Dariusz Sternik, Anna Derylo-Marczewska
<b>P40</b>	<b>Synthesis, Structure and Catalytic Properties of the Ni/C, Cu/C, and Co/C Composites for Water Splitting Reaction</b> Mariia Galaburda, Evgeniya Kovalska, Volodymyr L. Karbivskyy, Olena I. Oranska, Zdenek Sofer, Viktor M. Bogatyrov
<b>P43</b>	<b>Combination of Computer Generated and Dot-matrix Holograms for Anti-counterfeiting Employing Femtosecond Laser Ablation</b> Tomas Klinavičius, Tomas Tamulevičius

**ELECTRONIC AND OPTICAL MATERIALS**

<b>P46</b>	<b>Volt-ampere Characteristics of SiC-pSi Junctions Produced with X-rays</b> Arvydas Juozapas Janavičius, Romualdas Purlys, Mindaugas Viliūnas, Ringaudas Rinkūnas
<b>P49</b>	<b>Optical Lattices via the Coupling of Internal Atomic States</b>

	Povilas Račkauskas, Gediminas Juzeliūnas
P52	<b>Optical and Structural Properties of ZnO Ceramics</b> Agnese Spustaka, Donāts Millers, Faina Muktepavela, Krišjānis Šmits, Piotr Rodnyi, Elena Gorokhova
P55	<b>Undoped and Ga-doped ZnO Nanostructure Synthesis</b> Mareks Senko, Ivita Bite, Agnese Spustaka, Donats Millers, Krišjānis Šmits
P58	<b>meta-Substituted Benzophenones as Multifunctional Electroactive Materials for OLEDs</b> Rasa Keruckiene, Jonas Keruckas, Eigirdas Skuodis, Dmytro Volyniuk, Pei-His Lee, Tien-Lung Chiu, Jiun-Haw Lee, Juozas V. Grazulevicius
P61	<b>Spectral Properties of Pseudobinary ZnMgO Systems</b> Rihards Ruska, Guna Kriekē, Baiba Berzina, Laima Trinkler
P64	<b>Sol-gel Synthesis of Alkali-doped Glassy Silicon Dioxide</b> Madara Leimane, Ivita Bite, Linards Skuja, Krišjānis Šmits, Virgīnija Vītola
P67	<b>Dosimetric Properties of AlN-Y<sub>2</sub>O<sub>3</sub> Ceramics</b> Janis Cipa, Laima Trinkler, Rihards Ruska, Baiba Berzina
P70	<b>Broadband Chirped Mirrors with Porous Top Layer for Reduced Group Delay Dispersion Oscillations</b> Simas Melnikas, Lukas Ramalis, Simonas Kičas, Tomas Tolenis
P73	<b>The Dependence of the Morphology of GdPO<sub>4</sub> on the Synthesis Conditions</b> Darius Budrevičius, Andrius Pakalniškis, Ramūnas Skaudžius
P76	<b>Subwavelength Optical Barriers for Ultracold Atoms</b> Edvinas Gvozdiovas, Povilas Račkauskas, Tomas Andrijauskas, Egidijus Anisimovas, Gediminas Juzeliūnas
P79	<b>Formation and Modelling of Diffraction Periodic Micro-Structures</b> Andrius Žutautas, Tomas Tamulevičius, Sigitas Tamulevičius

### CERAMICS

P82	<b>Investigation of Structural Transitions in Y<sub>(3-x)</sub>Pr<sub>x</sub>Al<sub>5</sub>O<sub>12</sub> (0 ≤ x ≤ 3) System</b> Andrius Pakalniskis, Kristina Kristinaityte, Arunas Marsalka, Vytautas Balevicius, Ramunas Skaudzius, Aivaras Kareiva
P85	<b>A Newly Proposed Aqueous sol-gel Synthesis for Li<sub>0.35</sub>La<sub>0.55</sub>TiO<sub>3</sub> Ceramic</b> Austėja Diktanaitė, Giedrė Gaidamavičienė, Edvardas Kazakevičius, Artūras Žalga
P88	<b>Investigation of Crystallization of Amorphous Calcium Phosphate Substituted with Smaller (Mg<sup>2+</sup>, Zn<sup>2+</sup>) and Larger (Sr<sup>2+</sup>, Ba<sup>2+</sup>) Divalent Ions</b> Lauryna Sinusaite, Aleksej Zarkov
P91	<b>Low-Temperature Synthesis of Calcium Deficient Hydroxyapatite Powder</b> Anastasija Afonina, Linora Ruškytė, Inga Grigoravičiūtė-Puronienė, Aivaras Kareiva

### POLYMERS AND COMPOSITES

P94	<b>Manufacturing processes of Polymer Matrix Composites Using Various 3D Printing Technologies</b> Nabeel Maqsood, Marius Rimašauskas
P97	<b>Application of Monte Carlo Modelling for the Assessment of Various Gafchromic Films Feasibility to Record the Dose Distribution in Non-homogeneous Media</b> Aleksandras Ševčik, Diana Adlienė
P100	<b>Influence of Ester Diluents and Chain Extension on Polyurethane Viscosities</b> Dalia Bražinskienė, Sandra Mačiulytė, Paulina Nemaniūtė, Tadas Matijošius, Svajus J. Asadauskas
P103	<b>Characterization of the Degradation of Elastomeric Gasket by Accelerated Ageing</b> Chloé Simet, Marie Moreau, Karine Mougín, Florence Baly-Le Gall, Arnaud Ponche, Vincent Roucoules
P106	<b>Thin Sheet C22E Steel FEA Analysis of Bending Stress after Laser Treatment</b> Oleksandr Kapustynskiy
P109	<b>A study of Osmosis Rate through Several Proton Conducting Polymer Composite Membranes</b> Reinis Kaparkalējs, Einārs Sprūģis, Guntars Vaivars
P112	<b>Tritium Absorption and Permeation Through Sulfonated poly(ether-ether ketone) (SPEEK) Membrane</b> Elina Pajuste, Guntars Vaivars, Līga Avotina, Andris Lescinskis, M. Halitovs, E. Sprugis, R. Kaparkalējs

### ADVANCED ENGINEERING MATERIALS

P115	<b>Investigation of Thin Perovskite La:BaSnO<sub>3</sub> Films' Properties Using Different Substrates</b> Tomas Murauskas, Mantvydas Levulis, Virgaudas Kubilius, Valentina Plaušinitienė
P118	<b>Influence of 3D Printed Polyamide Heels Design on the Mechanical Behaviour</b> Edita Gelažienė, Daiva Milašienė, Audronė Ragaišienė
P121	<b>Fabrication and Investigation of Bioactivity Nano-Composite Obtained from PVB-co-VA-co-VAc/HA</b> Marzieh Rabiei, Arvydas Palevicius, Giedrius Janušas
P124	<b>An Application of Polypyrrole for the Design of Electrochromic CO<sub>2</sub> Sensor</b> Raimonda Boguzaitė, Vilma Ratautaite, Karolis Treinys, Ernestas Brazys, Almira Ramanaviciene, Arunas Ramanavicius

P127	<b>Synthesis and Investigation of Trifluoromethyl-substituted Aromatic Diamines for Optoelectronics</b> Ronit Sebastine Bernard, Viktorija Andruleviciene, Juozas Vidas Grazulevicius
P130	<b>Removal of Ammonium Ions on Spent Fluid Catalytic Cracking Catalyst</b> Agnė Mikelionienė, Danutė Vaičiukynienė, Algirdas Radzevičius, Jūratė Mockienė
P133	<b>Low-Temperature Synthesis of Vertically Aligned Graphene Nanosheets on Glass Substrate</b> Erika Rajackaitė, Rimantas Gudaitis, Domantas Peckus, Tomas Tamulevičius, Šarūnas Meškiniš, Sigitas Tamulevičius

### **MATERIALS FOR ENERGY APPLICATIONS**

P136	<b>Beryllium Oxidation in Air at Elevated Temperatures Depending on the Relative Humidity</b> Rūdolfs Jānis Zablockis, Elīna Pajuste, Līga Avotiņa, Gunta Ķizāne
P139	<b>From fs to μs: Transient Analysis of Nonfullerene Organic Solar Cells</b> Rokas Jasiūnas, Huotian Zhang, Feng Gao, Vidmantas Gulbinas
P142	<b>Evaluation of Biofuel Ash Radioactivity</b> Alvydė Varatinskaitė, Linas Puodžiukynas, Benas Gabrielis Urbonavičius
P145	<b>Bi<sub>2</sub>Se<sub>3</sub>/CNT Heterostructures Synthesis for Li-ion Batteries</b> Vanda Voikiva, Raimonds Meija, Krisjanis Buks, Jana Andzane, Donats Erts
P148	<b>Innovative Anode Electrodes for Na-ion Batteries</b> Raimonds Meija, Krisjanis Buks, Jana Andzane, Donats Erts
P151	<b>The Evaluation of Gadolinia-doped Ceria Electrolyte for IT-SOFC Deposited by E-beam Evaporation Technique</b> Fariza Kalyk, Brigita Abakevičienė

### **Poster Session B 15:30 – 16:30**

### **METHODS OF SURFACE ANALYSIS**

P2	<b>Site-Directed anti-CD5 Antibody Immobilization Manner via Protein G for Enhanced Detection of the CD5 by SPR Immunosensor</b> Elena Dauksaite, Almira Ramanaviciene, Asta Kausaite-Minkstimiene
P5	<b>Characterization of TiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> Functional Coatings on Metal Surface</b> Jelena Sušinska, Ilze Manika, Līga Bikše, Krišjānis Šmits, Ēriks Vilunas
P8	<b>Investigation of Sculptured Thin Film Growth by Optical Monitoring</b> Gabija Petrauskaitė, Lina Grinevičiūtė, Lukas Ramalis, Tomas Tolenis

### **SURFACE ENGINEERING AND NANOSTRUCTURES**

P11	<b>Effect of Laser Alloying on Surface Properties of Additively Manufactured Maraging Steel 300 Part</b> Kęstutis Bučelis, Jelena Škamat, Olegas Černašėjus
P14	<b>Electroless Plating of Continuous Platinum Layer</b> Ina Stankevičienė, Aldona Jagminienė, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus
P17	<b>Bioanalytical Device Based on the Metallurgical Aluminum Surface</b> Tomas Sabirovas, Eimantas Zolubas, Aušra Valiūnienė
P20	<b>Analysis of Ultrafast Relaxation Processes of the Silver Nanoparticles in Colloid after Laser Modification</b> Gerda Klimaitė, Domantas Peckus, Mantas Mikalkevičius, Asta Tamulevičienė, Tomas Tamulevičius, Sigitas Tamulevičius
P23	<b>Precise Thickness Porous Anodic Aluminium Oxide for Optical Sensors</b> Karlis Lazdovskis, Raimonds Poplauskis, Uldis Malinovskis, Donats Erts, Juris Prikulis
P26	<b>Growth of Aluminium Nanowires on Scratched Surface of Black Aluminium Films during Thermal Annealing</b> Marina Romanova, Stanislav Cichon, Yuri Dekhtyar, Premysl Fitl, Joris More-Chevalier, Michal Novotny, Lenka Volfová
P29	<b>Fabrication and Properties of Carbon Nanotube Scaffolds for Application in Flexible Thermoelectrics</b> Aleksandrs Dutovs, Krisjanis Buks, Jana Andzane, Donats Erts
P32	<b>Fabrication of Suspended Bi<sub>2</sub>Se<sub>3</sub> Nanoribbon Structures for Characterization and Device Applications</b> Liga Jasulaneca, Matiss Martins Ramma, Raitis Sondors, Raimonds Meija, Edijs Kauranens, Donats Erts
P35	<b>Optical Sensor Based on Gold Nanoparticle Formation for Reducing Sugar Determination</b> Benediktas Brasiunas, Anton Popov, Arunas Ramanavicius, Almira Ramanaviciene
P38	<b>Surface Renewal of Aluminium Single-crystal Electrodes using Chemical Etching</b> Daniels Jevdokimovs, Raimonds Poplauskis, Uldis Malinovskis, Donats Erts, Juris Prikulis
P41	<b>Substrate Surface Functionalized with Morphology and UV Radiation for <i>S. cerevisiae</i> Cell</b>

**Attachment**

Yuri Dekhtyar, Gaļina Hrustaļova, Aleksandrs Rapoportš, Linda Rozenfelde, Krista Rozenberga, Lidija Saulīte, Hermanis Sorokins, Sabīne Teifurova

**ELECTRONIC AND OPTICAL MATERIALS**

<b>P44</b>	<b>On the Synthesis of Bismuth Iron Garnet</b> Aivaras Kareiva, Andrius Pakalniskis, Aldona Beganskiene, Ramunas Skaudzius, Zivile Stankeviciute, Inga Grigoraviciute-Puroniene, Aleksej Zarkov
<b>P47</b>	<b>Investigation of the Properties of D-A-D Architecture Materials Using Theoretical Tools</b> Viktorija Andrulėviciene, Karolis Leitonas, Dmytro Volyniuk, Gjergji Sini, Juozas Vidas Gražulevičius, Vytautas Getautis
<b>P50</b>	<b>Spatially Dependent Spin-Orbit Coupling and an Artificial Magnetic Field for Ultracold Atoms</b> Povilas Račkauskas, Gediminas Juzeliūnas
<b>P53</b>	<b>Electro-optical Response of Infrared Light Emitting Sources</b> Simona Pūkienė, Algirdas Jasinskas, Virginijus Bukauskas, Vladimir Agafonov, Mindaugas Kamarauskas, Algimantas Lukša, Andrius Bičiūnas, Bronislovas Čechavičius, Arūnas Šetkus, Renata Butkutė
<b>P56</b>	<b>Highly Efficient Green Exciplex-based OLEDs Utilizing Bicarbazole Derivatives</b> Malek Mahmoudi, Jonas Keruckas, Dmytro Volyniuk, Jurate Simokaitiene, Juozas V. Gražulevičius
<b>P59</b>	<b>Direct Electrochemical Quantification of Cyanide Ion Concentration</b> Povilas Virbickas, Diana Baryseva, Aušra Valiūnienė
<b>P62</b>	<b>Energy Barriers Restrict Charge Carrier Motion in MAPbI<sub>3</sub> Perovskite Films</b> Rokas Gegevičius, Rokas Jasiūnas, Simonas Driukas, Marius Franckevičius, Vidmantas Gulbinas
<b>P65</b>	<b>Re-evaluation of Chromium Doped Alumina for Dosimetric Applications</b> Ernests Einbergs, Aleksejs Zolotarjovs, Krisjanis Smits, Ivita Bite, Laima Trinkler
<b>P68</b>	<b>White Electroluminescent Solution-processable Devices with New Iridium (III) Organic Complex</b> Jonas Keruckas, Manojkumar Dhanthala Thiyagarajan, Sathiyarayanan Kulathu Iyer, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Gražulevičius
<b>P71</b>	<b>Modified Structure Lutetium Oxyorthosilicate: Synthesis and Investigation of Luminescence Properties</b> Greta Inkrataitė, Ramūnas Skaudžius
<b>P74</b>	<b>Exploiting Exciplex-Based Emitters in Structure of White Light Emitting Diodes</b> Dmytro Volyniuk, Malek Mahmoudi, Galyna Sych, Matas Guzauskas, Xiaofeng Tan, Stepan Kutsiy, Khrystyna Ivaniuk, Igor Helzhynskyy, Pavlo Stakhira, Juozas V. Gražulevičius
<b>P77</b>	<b>White OLEDs Achieved from Exciplex Emission Management by a Spacer</b> Matas Gužauskas, Galyna Sych, Dmytro Volyniuk, Stepan Kutsiy, Pavlo Stakhira, Juozas Vidas Gražulevičius
<b>P80</b>	<b>Electron-rich Heterocyclic Compounds with Carbazole, Dibenzofuran or Dibenzothiophene Cores as Hole-transporting Materials for Optoelectronic Applications</b> Ranush Durgaryan, Yan Danyliv, Dmytro Volyniuk, Iryna Hladka, Juozas Vidas Gražulevičius

**CERAMICS**

<b>P83</b>	<b>Sol-gel Synthesis of Lanthanum Substituted YAG</b> Andrius Laurikenas, Arunas Marsalka, Vytautas Balevicius, Aivaras Kareiva
<b>P86</b>	<b>Synthesis and Characterization of BiMnO<sub>3</sub> Containing Solid Solutions</b> Dovydas Karoblis, Aleksej Žarkov, Aivaras Kareiva, Aldona Beganskienė, Lauryna Sinušaitė, Kęstutis Mažeika, Dalis Baltrūnas, Gediminas Niaura
<b>P89</b>	<b>Synthesis and Characterization of Dual Substituted beta Tricalcium Phosphate</b> Aleksej Zarkov, Lauryna Sinusaite, Agne Kizalaite, Diana Griesiute, Anton Popov, Andris Antuzevics, Kestutis Mazeika, Dalis Baltrunas, Aivaras Kareiva
<b>P92</b>	<b>Synthesis of Magnesium Whitlockite by Dissolution-Precipitation Process</b> Agne Kizalaite, Inga Grigoraviciute-Puroniene, Aivaras Kareiva, Aleksej Zarkov

**POLYMERS AND COMPOSITES**

<b>P95</b>	<b>Development of Flexible Silicone Composites for Radiation Protection</b> Laurynas Gilys, Egidijus Griškoniš, Diana Adlienė
<b>P98</b>	<b>Effect of Process Parameters on the Electrospinning of PEBA</b> Zahid Sarwar, Dainius Martuzevičius
<b>P101</b>	<b>Enhancement of the Compatibility between Natural Rubber and Pineapple Leaf Microfibers for Better Stress Transfer in Their Composite</b> Karine Mougine, Budsaraporn Surajarusarn, Nuttapong Hariwongsanupab, Gautier Schrodj, Samar Garreau, Taweechai Amornsakchai
<b>P104</b>	<b>Thermoelectric Properties and Production of Flexible Polyvinyl Alcohol Based Thermoelectric</b>

	<b>Nanocomposites</b> Krisjanis Buks, Jana Andzane, Juris Bitenieks, Janis Zicans, Donats Erts
<b>P107</b>	<b>Mechanical Properties of Melt Spun Multifilaments Yarns from Modified PLA Polymer</b> Evaldas Bolskis, Erika Adomavičiūtė, Egidijus Griškonis
<b>P110</b>	<b>Gamma Radiation Effects on Mechanical Properties of Natural Fabric Reinforced Polyester Composites</b> K.Z.M. Abdul Motaleb, Rimvydas Milašius
<b>P113</b>	<b>Hot Stamping Quality vs Adhesive Layer Structure and Hot Stamping Regimes</b> Singhal Shubham, Pranas Narmontas, Viktoras Grigaliūnas, Rimantas Gudaitis, Sigitas Tamulevičius, Eglė Fataraitė-Urbonienė

### ADVANCED ENGINEERING MATERIALS

<b>P116</b>	<b>The Influence of Growth Rate and Substrates' Thermal Expansion Coefficient on Properties of Nanocrystalline La-Sr-Mn-Co-O Films</b> Milita Vagner, Vakarīs Rudokas, Karolis Motiejūitis, Valentina Plaušinitienė, Nerija Žurauskienė
<b>P119</b>	<b>Flammability Reduction of Jute Fabric Treated with Borax, Dai- Ammonium Phosphate and Thio-urea</b> Mohaiminul Quayum, Md. Reazuddin Repon
<b>P122</b>	<b>Investigation of Thermal Properties of Conductive Modified PCM Microcapsules and Knitted Material Containing Them</b> Virginija Skurkytė-Papievienė, Aušra Abraitienė, Audronė Sankauskaitė
<b>P125</b>	<b>Research of Methods to Improve Properties of Blended Fibres from Waste of Natural Fibres</b> Sharof Shukhratov, Gulnoz Yusupkhodjaeva, Rimvydas Milašius
<b>P128</b>	<b>Impact of Abrasion Resistance on Mass Loss of Bast Fibres Woven Fabrics</b> Indrė Tautkutė-Stankuvienė, Eglė Kumpikaitė
<b>P131</b>	<b>On the Synthesis and Characterization of Ag<sub>3</sub>PO<sub>4</sub> Crystals of Various Morphologies</b> Jolanta Raudonienė, Ramunas Skaudzius, Zivile Stankeviciute, Rimantas Raudonis, Edita Garskaite, Aivaras Kareiva

### MATERIALS FOR ENERGY APPLICATIONS

<b>P134</b>	<b>Photophysical Properties of Tin Sulphides Thin Films on the FTO Glass Slides</b> Asta Bronusienė, Karolis Leitonas, Ingrida Ancutiene
<b>P137</b>	<b>Production of Active Chlorine Species via Photoelectrochemical Solar Energy Conversion Using Sol-Gel Prepared Nanostructured WO<sub>3</sub> Photoanode</b> Maliha Parvin, Milda Petrulevičienė, Irena Savickaja, Benjaminas Šebeka, Arnas Naujokaitis, Vidas Pakštas, Jurga Juodkazytė
<b>P140</b>	<b>Corrosion Inhibition of Aluminum Current Collectors in Aqueous Na-ion Batteries</b> Davit Tediashvili, Linas Vilčiauskas
<b>P143</b>	<b>Electrical Impedance and Cyclic Voltammetry Measurements of Innovative Anode Electrode Materials for Li-ion Batteries</b> Vitālijs Lazarenko, Raimonds Meija, Juris Katkevičs, Krišjānis Buks, Jana Andžāne, Arturs Vīksna, Donāts Erts
<b>P146</b>	<b>Phase Change Material Integrated in to Indoor Two-layer Shive Hemp Wallboard</b> Edgars Kirilovs, Silvija Kukle, Hans-Jörg Gusovius, Inga Zotova
<b>P149</b>	<b>Impact of Air Humidity on the Oxidation of Tungsten for Fusion Applications</b> Toms E. Šusts, Elīna Pajuste, Līga Avotiņa, Aija Trimdale, Gunta Kizāne, JET Contributors
<b>P152</b>	<b>Tritium Retention in Beryllium Plasma Facing Materials in JET with ITER-Like Wall</b> Anete Stine Teimane, Elina Pajuste, Līga Avotina, Gunta Kizane, JET contributors

### Poster Session C 16:30 – 17:30

### METHODS OF SURFACE ANALYSIS

<b>P3</b>	<b>Development of Peat Fibre Based Sustainable Textiles</b> Muhammad Usman Munir, Daiva Mikučionienė
<b>P6</b>	<b>Charge Trapping in Si/SiO<sub>2</sub> Substrate during E-beam Deposition of CaF<sub>2</sub>:EuF<sub>3</sub> Nanofilms</b> Marina Romanova, Sergii Chertopalov, Yuri Dekhtyar, Ladislav Fekete, Jan Lancok, Michal Novotny, Aleksandr Vilken
<b>P9</b>	<b>Dependence of Electrical Properties of Bismuth Selenide Nanowires on Temperature and Magnetic Field</b> Edijs Kauranens, Līga Jasulaņeca, Raitis Sondors, Matīss Mārtiņš Ramma, Raimonds Meija, Kiryl Niherysh, Jana Andžāne, Donāts Erts

## SURFACE ENGINEERING AND NANOSTRUCTURES

P12	<b>Efficient Laser Milling Technology for Bio-inspired Functional Surface Formation</b> Andrius Žemaitis, Mantas Gaidys, Paulius Gečys, Mindaugas Gedvilas
P15	<b>Substrate - Dependent Magnetotransport of Topological Insulator Nanoribbons</b> Gunta Kunakova, Thilo Bauch, Jana Andzane, Donats Erts, Floriana Lombardi
P18	<b>Influence of WO<sub>3</sub> Coating Morphology on Efficiency of Photoelectrochemical Hypochlorite Generation</b> Milda Petrulevičienė, Maliha Parvin, Irena Savickaja, Evelina Griniuk, Laura Michailova, Benjaminas Šebeka, Arnas Naujokaitis, Jurga Juodkazytė
P21	<b>Analysis of Topographical Parameters of MXene Films</b> Gerda Trifeldaite, Kristina Zukiene, Daiva Zeleniakiene
P24	<b>Deposition of Multilayer Optical Coatings on Corrugated Surfaces</b> Julianija Nikitina, Tomas Tolelis, Lina Grinevičiūtė
P27	<b>Effect of Bias Voltage and Doping on Diamond-like Carbon Films</b> Vilius Dovydaitis, Liutauras Marcinauskas, Paola Ayala
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