

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

Date: 24-28 August 2020

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

August 24, Monday

14:00 – 20:00 Arrival and registration

August 25, Tuesday

Chairman Sigitas Tamulevičius

8:30 – 9:00 Registration

9:00 – 9:15 Opening

9:15 – 10:00 Linas Vilčiauskas (Center for Physical Sciences and Technology, Lithuania)
Introduction to the World of Batteries: Aqueous vs. Non-aqueous Electrolytes

10:00 – 10:45 Justina Gaidukevič (Vilnius University, Lithuania)
Graphene-based Materials and Their Applications for Energy Storage and Catalysis

10:45 – 11:00 Coffee Break

11:00 – 11:45 Hyeong-Jin Kim (Gwangju Institute of Science and Technology, Korea)
Effects of Inserting Cobalt/Copper Metal on Electrochemical Properties in Si Anode for Lithium-ion Batteries

11:45 – 12:30 Miho Yamauchi (Kyushu University, Japan)
Inorganic Nanomaterials to Achieve Efficient Electrochemical Hydrogenation for Energy Storage and Materials Conversions

12:30 – 14:00 Break

14:00 – 16:00 Social Event: 3x3 Basketball Tournament (Palanga Sports Center, Sporto str. 3, Palanga, <http://www.sportpalanga.lt/index.php?id=2042&lang=en>)

16:00 – 18:00 Break

18:00 – 21:00 Discussions and Welcome Party

August 26, Wednesday

Chairman Donats Erts

8:30 – 9:00 Registration

9:00 – 9:45 Jana Andžāne (University of Latvia, Latvia)
Unusual Properties of Conventional Materials: Topological Insulators for Thermoelectrics and Metrology

9:45 – 10:30 Gunnar Suchanek (Dresden University of Technology, Germany)
Synthesis of Complex Oxide Thin Films by Means of Reactive Multitarget Sputtering

10:30 – 10:45 Coffee Break

10:45 – 11:30 Liudas Mažeika (Kaunas University of Technology, Lithuania)
Ultrasonic Measurements: Possibilities and Applications

11:30 – 12:15 Iryna Yaremchuk (Lviv Polytechnic National University, Ukraine)
Waveguide, Plasmon Polariton and Plasmon Resonance Effects by Micro- and Nanostructures

12:15 – 12:30 Coffee Break

12:30 – 13:30 Ashok Vaseashta (International Clean Water Institute, USA)
Nanomaterials for Mitigating Nano/Microplastics in Environment

13:30 – 16:00 Break / Meeting of Lithuania-Latvia-Taiwan project “2D nanostructures of noble metal nanoparticles for biosensors application”

16:00 – 22:00 Social Event: Orienteering Competition (“HBH Palanga”, Žibininkų vlg., <http://www.hbh.lt/>)

August 27, Thursday

Chairman Aivaras Kareiva

SPINMULTIFILM Day

- 8:30 – 9:00** **Registration**
- 9:00 – 10:30** **Andres Öpik** (Tallinn University of Technology, Estonia)
Molecular Imprinting – Opportunities and Challenges
- 10:30 – 10:45** **Coffee Break**
- 10:45 – 11:30** **Gunnar Suchaneck** (Dresden University of Technology, Germany)
Electrical Resistance and Magnetoresistance in Strontium Ferromolybdate Ceramics with Strontium Molybdate Dielectric Intergrain Barriers
- 11:30 – 12:15** **Nikolai Sobolev** (University of Aveiro, Portugal)
Magnetic Memory – *Quo Vadis?*
- 12:15 – 14:30** **Break / Meeting of Horizon 2020 project “Physical principles of the creation of novel spintronic materials on the base of multilayered metal-oxide FILMs for magnetic sensors and MRAM” (SPINMULTIFILM)**
- 14:30 – 17:30** **Poster Sessions** *Chairman Tomas Tamulevičius*
14:30 – 15:30 Poster Session A
15:30 – 16:30 Poster Session B
16:30 – 17:30 Poster Session C
- 17:30 – 18:00** **Best Poster Awards and Conference photo**

August 28, Friday

Chairman Gunnar Suchaneck

- 9:00 – 9:45** **Juras Ulbikas** (Applied Research Institute for Prospective Technologies, Lithuania)
What Does it Mean to Go for Shockley-Queisser Limit on Industrial Level Technology: Case of Si Technology
- 9:45 – 10:30** **Hubert Halbritter** (OSRAM Opto Semiconductors, Germany)
Driven by Light – the World of Tomorrow
- 10:30 – 10:45** **Coffee Break**
- 10:45 – 11:30** **Presentations of the Best Poster Awards Winners**
- 11:30 – 12:00** **Certificates and Closing Remarks**

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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

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

SURFACE ENGINEERING AND NANOSTRUCTURES

P13	Fabrication of Gold Nanoparticles on ITO Substrates using Nanosecond Laser and their Potential Applications Evaldas Stankevičius
P16	SECM and EIS Characterisation of Fluorine Doped Tin Oxide Glass Application for Phospholipid Membrane Formation Inga Gabriunaite, Margarita Poderyte, Aušra Valiūnienė
P19	Towards Application of ZnO Nanowires in Optical Biosensor Design Vincetas Maciulis, Ieva Plikusiene, Octavio Graniel, Mikhael Bechelany, Saulius Balevicius, Vilius Vertelis, Zigmas Balevicius, Anton Popov, Arunas Ramanavicius, Almira Ramanaviciene
P22	Synthesis of ZnO Nanowires and Their Use in Alternating Current Driven Oxide Powder Electroluminescent Elements Ēriks Vilunas, Katrīna Laganovska, Ivita Bite, Krišjānis Šmits, Edgars Butanovs
P25	Mechanical, Electrical and Morphological Characterization of CuO Nanowires Grown by a Modified Thermal Oxidation Method Raitis Sondors, Jelena Kosmaca, Gunta Kunakova, Liga Jasulaneca, Matiss Martins Ramma, Raimonds Meija, Edijs Kauranens, Mikk Antsov, Donats Erts
P28	Low Temperature Plant Drying Method Based on the Control of the Relative Humidity Mykyta Kovalenko, Marius Šumanas, Daniela Senkevič, Nikita Edgar Sitiajev, Andrius Dzedzickis, Vytautas Bučinskas, Inga Morkvenaite-Vilkonciene
P31	Characterization of Electrical and Thermoelectric Properties of Sn-doped Bi₂Se₃ Ultrathin Films Andrei Felsharuk, Kiryl Niherysh, Jana Andzane, Donats Erts
P34	New Features of Mesoporous Silicon Structure Nadzeya Khinevich, Sergey Zavatsky, Hanna Bandarenka, Sigitas Tamulevičius, Vitaly Bondarenko
P37	Temperature Behavior of Monolithic Xerogels, Doped with Nanoparticles of Erbium and Ytterbium Oxides Iryna Sulym, Mykola V. Borysenko, Dariusz Sternik, Anna Derylo-Marczewska
P40	Synthesis, Structure and Catalytic Properties of the Ni/C, Cu/C, and Co/C Composites for Water Splitting Reaction Mariia Galaburda, Evgeniya Kovalska, Volodymyr L. Karbivskyy, Olena I. Oranska, Zdenek Sofer, Viktor M. Bogatyrov
P43	Combination of Computer Generated and Dot-matrix Holograms for Anti-counterfeiting Employing Femtosecond Laser Ablation Tomas Klinavičius, Tomas Tamulevičius

ELECTRONIC AND OPTICAL MATERIALS

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

	Povilas Račkauskas, Gediminas Juzeliūnas
P52	Optical and Structural Properties of ZnO Ceramics Agnese Spustaka, Donāts Millers, Faina Muktepavela, Krišjānis Šmits, Piotr Rodnyi, Elena Gorokhova
P55	Undoped and Ga-doped ZnO Nanostructure Synthesis Mareks Senko, Ivita Bite, Agnese Spustaka, Donats Millers, Krišjānis Šmits
P58	meta-Substituted Benzophenones as Multifunctional Electroactive Materials for OLEDs Rasa Keruckiene, Jonas Keruckas, Eigirdas Skuodis, Dmytro Volyniuk, Pei-His Lee, Tien-Lung Chiu, Jiun-Haw Lee, Juozas V. Grazulevicius
P61	Spectral Properties of Pseudobinary ZnMgO Systems Rihards Ruska, Guna Krieker, Baiba Berzina, Laima Trinkler
P64	Sol-gel Synthesis of Alkali-doped Glassy Silicon Dioxide Madara Leimane, Ivita Bite, Linards Skuja, Krišjānis Šmits, Virgīnija Vītola
P67	Dosimetric Properties of AlN-Y₂O₃ Ceramics Janis Cipa, Laima Trinkler, Rihards Ruska, Baiba Berzina
P70	Broadband Chirped Mirrors with Porous Top Layer for Reduced Group Delay Dispersion Oscillations Simas Melnikas, Lukas Ramalis, Simonas Kičas, Tomas Tolenis
P73	The Dependence of the Morphology of GdPO₄ on the Synthesis Conditions Darius Budrevičius, Andrius Pakalniškis, Ramūnas Skaudžius
P76	Subwavelength Optical Barriers for Ultracold Atoms Edvinas Gvozdiovas, Povilas Račkauskas, Tomas Andrijauskas, Egidijus Anisimovas, Gediminas Juzeliūnas
P79	Formation and Modelling of Diffraction Periodic Micro-Structures Andrius Žutautas, Tomas Tamulevičius, Sigitas Tamulevičius

CERAMICS

P82	Investigation of Structural Transitions in Y_(3-X)Pr_XAl₅O₁₂ (0 ≤ X ≤ 3) System Andrius Pakalniškis, Kristina Kristinaityte, Arunas Marsalka, Vytautas Balevicius, Ramunas Skaudzius, Aivaras Kareiva
P85	A Newly Proposed Aqueous sol-gel Synthesis for Li_{0.35}La_{0.55}TiO₃ Ceramic Austėja Diktanaitė, Giedrė Gaidamavičienė, Edvardas Kazakevičius, Artūras Žalga
P88	Investigation of Crystallization of Amorphous Calcium Phosphate Substituted with Smaller (Mg²⁺, Zn²⁺) and Larger (Sr²⁺, Ba²⁺) Divalent Ions Lauryna Sinusaite, Aleksej Zarkov
P91	Low-Temperature Synthesis of Calcium Deficient Hydroxyapatite Powder Anastasija Afonina, Linora Ruškytė, Inga Grigoravičiūtė-Puronienė, Aivaras Kareiva

POLYMERS AND COMPOSITES

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

ADVANCED ENGINEERING MATERIALS

P115	Investigation of Thin Perovskite La:BaSnO₃ Films' Properties Using Different Substrates Tomas Murauskas, Mantvydas Levulis, Virgaudas Kubilius, Valentina Plauškaitienė
P118	Influence of 3D Printed Polyamide Heels Design on the Mechanical Behaviour Edita Gelažienė, Daiva Milašienė, Audronė Ragaišienė
P121	Fabrication and Investigation of Bioactivity Nano-Composite Obtained from PVB-co-VA-co-VAc/HA Marzieh Rabiei, Arvydas Palevicius, Giedrius Janušas
P124	An Application of Polypyrrole for the Design of Electrochromic CO₂ Sensor Raimonda Boguzaitė, Vilma Ratautaite, Karolis Treinys, Ernestas Brazys, Almira Ramanaviciene, Arunas Ramanavicius

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

MATERIALS FOR ENERGY APPLICATIONS

P136	Beryllium Oxidation in Air at Elevated Temperatures Depending on the Relative Humidity Rūdolfs Jānis Zabolockis, Elīna Pajuste, Līga Avotiņa, Gunta Kizāne
P139	From fs to μs: Transient Analysis of Nonfullerene Organic Solar Cells Rokas Jasiūnas, Huotian Zhang, Feng Gao, Vidmantas Gulbinas
P142	Evaluation of Biofuel Ash Radioactivity Alvydė Varatinskaitė, Linas Puodžiukynas, Benas Gabrielis Urbonavičius
P145	Bi₂Se₃/CNT Heterostructures Synthesis for Li-ion Batteries Vanda Voikiva, Raimonds Meija, Krisjanis Buks, Jana Andzane, Donats Erts
P148	Innovative Anode Electrodes for Na-ion Batteries Raimonds Meija, Krisjanis Buks, Jana Andzane, Donats Erts
P151	The Evaluation of Gadolinia-doped Ceria Electrolyte for IT-SOFC Deposited by E-beam Evaporation Technique Fariza Kalyk, Brigita Abakevičienė

Poster Session B 15:30 – 16:30

METHODS OF SURFACE ANALYSIS

P2	Site-Directed anti-CD5 Antibody Immobilization Manner via Protein G for Enhanced Detection of the CD5 by SPR Immunosensor Elena Dauksaite, Almira Ramanaviciene, Asta Kausaite-Minkstimiene
P5	Characterization of TiO₂ and Al₂O₃ Functional Coatings on Metal Surface Jelena Sušinska, Ilze Manika, Līga Bikše, Krišjānis Šmits, Ēriks Vilunas
P8	Investigation of Sculptured Thin Film Growth by Optical Monitoring Gabija Petrauskaitė, Lina Grinevičiūtė, Lukas Ramalis, Tomas Tolenis

SURFACE ENGINEERING AND NANOSTRUCTURES

P11	Effect of Laser Alloying on Surface Properties of Additively Manufactured Maraging Steel 300 Part Kęstutis Bučelis, Jelena Škamat, Olegas Černašėjus
P14	Electroless Plating of Continuous Platinum Layer Ina Stankevičienė, Aldona Jagminienė, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus
P17	Bioanalytical Device Based on the Metallurgical Aluminum Surface Tomas Sabirovas, Eimantas Zolubas, Aušra Valiūnienė
P20	Analysis of Ultrafast Relaxation Processes of the Silver Nanoparticles in Colloid after Laser Modification Gerda Klimaitė, Domantas Peckus, Mantas Mikalkevičius, Asta Tamulevičienė, Tomas Tamulevičius, Sigita Tamulevičiūtė
P23	Precise Thickness Porous Anodic Aluminium Oxide for Optical Sensors Karlis Lazdovskis, Raimonds Poplauskis, Uldis Malinovskis, Donats Erts, Juris Prikulis
P26	Growth of Aluminium Nanowires on Scratched Surface of Black Aluminium Films during Thermal Annealing Marina Romanova, Stanislav Cichon, Yuri Dekhtyar, Premysl Fitl, Joris More-Chevalier, Michal Novotny, Lenka Volfová
P29	Fabrication and Properties of Carbon Nanotube Scaffolds for Application in Flexible Thermoelectrics Aleksandrs Dutovs, Krisjanis Buks, Jana Andzane, Donats Erts
P32	Fabrication of Suspended Bi₂Se₃ Nanoribbon Structures for Characterization and Device Applications Liga Jasulaneca, Matiss Martins Ramma, Raitis Sondors, Raimonds Meija, Edijs Kauranens, Donats Erts
P35	Optical Sensor Based on Gold Nanoparticle Formation for Reducing Sugar Determination Benediktas Brasiunas, Anton Popov, Arunas Ramanavicius, Almira Ramanaviciene
P38	Surface Renewal of Aluminium Single-crystal Electrodes using Chemical Etching Daniels Jevdokimovs, Raimonds Poplauskis, Uldis Malinovskis, Donats Erts, Juris Prikulis
P41	Substrate Surface Functionalized with Morphology and UV Radiation for <i>S. cerevisiae</i> Cell

Attachment

Yuri Dekhtyar, Gajina Hrustajova, Aleksandrs Rapoport, Linda Rozenfelde, Krista Rozenberga, Lidija Saulite, Hermanis Sorokins, Sabīne Teifurova

ELECTRONIC AND OPTICAL MATERIALS

P44	On the Synthesis of Bismuth Iron Garnet Aivaras Kareiva, Andrius Pakalniskis, Aldona Beganskiene, Ramunas Skaudzius, Zivile Stankeviciute, Inga Grigoraviciute-Puroniene, Aleksej Zarkov
P47	Investigation of the Properties of D-A-D Architecture Materials Using Theoretical Tools Viktorija Andrulėviciene, Karolis Leitonas, Dmytro Volyniuk, Gjergji Sini, Juozas Vidas Gražulevičius, Vytautas Getautis
P50	Spatially Dependent Spin-Orbit Coupling and an Artificial Magnetic Field for Ultracold Atoms Povilas Račkauskas, Gediminas Juzeliūnas
P53	Electro-optical Response of Infrared Light Emitting Sources Simona Pūkienė, Algirdas Jasinskis, Virginijus Bukauskas, Vladimir Agafonov, Mindaugas Kamarauskas, Algimantas Lukša, Andrius Bičiūnas, Bronislovas Čechavičius, Arūnas Šetkus, Renata Butkutė
P56	Highly Efficient Green Exciplex-based OLEDs Utilizing Bicarbazole Derivatives Malek Mahmoudi, Jonas Keruckas, Dmytro Volyniuk, Jurate Simokaitiene, Juozas V. Gražulevičius
P59	Direct Electrochemical Quantification of Cyanide Ion Concentration Povilas Virbickas, Diana Baryseva, Aušra Valiūnienė
P62	Energy Barriers Restrict Charge Carrier Motion in MAPbI₃ Perovskite Films Rokas Gegevičius, Rokas Jasiūnas, Simonas Driukas, Marius Franckevičius, Vidmantas Gulbinas
P65	Re-evaluation of Chromium Doped Alumina for Dosimetric Applications Ernests Einbergs, Aleksejs Zolotarjovs, Krisjanis Smits, Ivita Bite, Laima Trinkler
P68	White Electroluminescent Solution-processable Devices with New Iridium (III) Organic Complex Jonas Keruckas, Manojkumar Dhanthala Thiyagarajan, Sathiyarayanan Kulathu Iyer, Jurate Simokaitiene, Dmytro Volyniuk, Juozas Vidas Gražulevičius
P71	Modified Structure Lutetium Oxyorthosilicate: Synthesis and Investigation of Luminescence Properties Greta Inkrataitė, Ramūnas Skaudžius
P74	Exploiting Exciplex-Based Emitters in Structure of White Light Emitting Diodes Dmytro Volyniuk, Malek Mahmoudi, Galyna Sych, Matas Guzauskas, Xiaofeng Tan, Stepan Kutsiy, Khrystyna Ivaniuk, Igor Helzhynskyy, Pavlo Stakhira, Juozas V. Gražulevičius
P77	White OLEDs Achieved from Exciplex Emission Management by a Spacer Matas Gužauskas, Galyna Sych, Dmytro Volyniuk, Stepan Kutsiy, Pavlo Stakhira, Juozas Vidas Gražulevičius
P80	Electron-rich Heterocyclic Compounds with Carbazole, Dibenzofuran or Dibenzothiophene Cores as Hole-transporting Materials for Optoelectronic Applications Ranush Durgaryan, Yan Danyliv, Dmytro Volyniuk, Iryna Hladka, Juozas Vidas Gražulevičius

CERAMICS

P83	Sol-gel Synthesis of Lanthanum Substituted YAG Andrius Laurikenas, Arunas Marsalka, Vytautas Balevicius, Aivaras Kareiva
P86	Synthesis and Characterization of BiMnO₃ Containing Solid Solutions Dovydas Karoblis, Aleksej Žarkov, Aivaras Kareiva, Aldona Beganskienė, Lauryna Sinušaitė, Kęstutis Mažeika, Dalis Baltrūnas, Gediminas Niaura
P89	Synthesis and Characterization of Dual Substituted beta Tricalcium Phosphate Aleksej Zarkov, Lauryna Sinusaite, Agne Kizalaite, Diana Griesiute, Anton Popov, Andris Antuzevics, Kestutis Mazeika, Dalis Baltrunas, Aivaras Kareiva
P92	Synthesis of Magnesium Whitlockite by Dissolution-Precipitation Process Agne Kizalaite, Inga Grigoraviciute-Puroniene, Aivaras Kareiva, Aleksej Zarkov

POLYMERS AND COMPOSITES

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

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

ADVANCED ENGINEERING MATERIALS

P116	The Influence of Growth Rate and Substrates' Thermal Expansion Coefficient on Properties of Nanocrystalline La-Sr-Mn-Co-O Films Milita Vagner, Vakarlis Rudokas, Karolis Motiejutis, Valentina Plaušinitienė, Nerija Žurauskienė
P119	Flammability Reduction of Jute Fabric Treated with Borax, Dai- Ammonium Phosphate and Thio-urea Mohaiminul Quayum, Md. Reazuddin Repon
P122	Investigation of Thermal Properties of Conductive Modified PCM Microcapsules and Knitted Material Containing Them Virginija Skurkytė-Papievienė, Aušra Abraitienė, Audronė Sankauskaitė
P125	Research of Methods to Improve Properties of Blended Fibres from Waste of Natural Fibres Sharof Shukhratov, Gulnoz Yusupkhodjaeva, Rimvydas Milašius
P128	Impact of Abrasion Resistance on Mass Loss of Bast Fibres Woven Fabrics Indrė Tautkutė-Stankuvienė, Eglė Kumpikaitė
P131	On the Synthesis and Characterization of Ag₃PO₄ Crystals of Various Morphologies Jolanta Raudonienė, Ramunas Skaudzius, Zivile Stankeviciute, Rimantas Raudonis, Edita Garskaite, Aivaras Kareiva

MATERIALS FOR ENERGY APPLICATIONS

P134	Photophysical Properties of Tin Sulphides Thin Films on the FTO Glass Slides Asta Bronusiene, Karolis Leitonas, Ingrida Ancutiene
P137	Production of Active Chlorine Species via Photoelectrochemical Solar Energy Conversion Using Sol-Gel Prepared Nanostructured WO₃ Photoanode Maliha Parvin, Milda Petrulevičienė, Irena Savickaja, Benjaminas Šebeka, Arnas Naujokaitis, Vidas Pakštas, Jurga Juodkazytė
P140	Corrosion Inhibition of Aluminum Current Collectors in Aqueous Na-ion Batteries Davit Tediashvili, Linas Vilčiauskas
P143	Electrical Impedance and Cyclic Voltammetry Measurements of Innovative Anode Electrode Materials for Li-ion Batteries Vitālijs Lazarenko, Raimonds Meija, Juris Katkevičs, Krišjānis Buks, Jana Andžāne, Arturs Vīksna, Donāts Erts
P146	Phase Change Material Integrated in to Indoor Two-layer Shive Hemp Wallboard Edgars Kirilovs, Silvija Kukle, Hans-Jörg Gusovius, Inga Zotova
P149	Impact of Air Humidity on the Oxidation of Tungsten for Fusion Applications Toms E. Šusts, Elīna Pajuste, Līga Avotiņa, Aija Trimdale, Gunta Kizāne, JET Contributors
P152	Tritium Retention in Beryllium Plasma Facing Materials in JET with ITER-Like Wall Anete Stine Teimane, Elina Pajuste, Līga Avotina, Gunta Kizane, JET contributors

Poster Session C 16:30 – 17:30

METHODS OF SURFACE ANALYSIS

P3	Development of Peat Fibre Based Sustainable Textiles Muhammad Usman Munir, Daiva Mikučionienė
P6	Charge Trapping in Si/SiO₂ Substrate during E-beam Deposition of CaF₂:EuF₃ Nanofilms Marina Romanova, Sergii Chertopalov, Yuri Dekhtyar, Ladislav Fekete, Jan Lancok, Michal Novotny, Aleksandr Vilken
P9	Dependence of Electrical Properties of Bismuth Selenide Nanowires on Temperature and Magnetic Field Edijs Kauranens, Līga Jasulaņeca, Raitis Sondors, Matīss Mārtiņš Ramma, Raimonds Meija, Kiryl Niherysh, Jana Andžāne, Donāts Erts

SURFACE ENGINEERING AND NANOSTRUCTURES

P12	Efficient Laser Milling Technology for Bio-inspired Functional Surface Formation Andrius Žemaitis, Mantas Gaidys, Paulius Gečys, Mindaugas Gedvilas
P15	Substrate - Dependent Magnetotransport of Topological Insulator Nanoribbons Gunta Kunakova, Thilo Bauch, Jana Andzane, Donats Erts, Floriana Lombardi
P18	Influence of WO₃ Coating Morphology on Efficiency of Photoelectrochemical Hypochlorite Generation Milda Petrulevičienė, Maliha Parvin, Irena Savickaja, Evelina Griniuk, Laura Michailova, Benjaminas Šebeka, Arnas Naujokaitis, Jurga Juodkazytė
P21	Analysis of Topographical Parameters of MXene Films Gerda Trifeldaite, Kristina Zukiene, Daiva Zeleniakiene
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