

Programme of the 20th International Conference-School
“Advanced Materials and Technologies 2018”

Date: 27-31 August, 2018

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

August 27, Monday

14:00 – 20:00 Arrival and registration

August 28, Tuesday

Chairperson Sigitas Tamulevičius

8:30 – 9:00 Registration

9:00 – 9:15 Opening

9:15 – 10:15 **Yuris A. Dzenis** (University of Nebraska-Lincoln, United States of America)
Breaking Advanced Fiber Development Paradigm: Continuous Supernanofibers with Simultaneously Ultrahigh Strength and Toughness

10:15 – 11:00 **Yesong Gu** (Tunghai University, Taiwan)
Conductive Polymer Synthesis and its Applications in Biosensor Fabrication

11:00 – 11:20 Coffee Break

11:20 – 12:20 **Till Leißner** (University of Southern Denmark, Denmark)
Ultrafast Plasmonics

12:20 – 13:05 **Juris Prikulis** (University of Latvia, Latvia)
Nanostructured Metal-Insulator-Metal Optical Coatings and their Applications

13:05 – 13:50 **Astrid S. de Wijn** (Norwegian University of Science and Technology, Norway)
Modelling and Understanding of Atomic-Scale Friction

13:50 – 18:00 Break

18:00 – 21:00 Discussions and Welcome Party

August 29, Wednesday

Chairperson Mihaela Girtan

8:30 – 9:00 Registration

9:00 – 9:45 **Mady Elbahri** (Aalto University, Finland)
Plasmonic Nanocomposites: from Near to Far Field

9:45 – 11:15 **Serguei Chiriaev** (University of Southern Denmark, Denmark)
Helium Ion Microscopy

11:15 – 11:35 Coffee Break

11:35 – 12:20 **Artūras Vailionis** (Stanford Nano Shared Facilities GLAM, United States of America)
X-Ray Computed Tomography – A New Tool For Today’s Materials Research

12:20 – 13:05 **Carsten Blawert** (Helmholtz-Zentrum Geesthacht, Germany)
Plasma Electrolytic Oxidation of Magnesium Alloys

13:05 – 13:50 **Maria Serdechnova** (Helmholtz-Zentrum Geesthacht, Germany)
Active Corrosion Protection of Aluminum Alloy AA2024 using LDH Nanocontainers

13:50 – 16:00 Break (Meeting of Lithuania-Latvia-Taiwan project “2D nanostructures of noble metal nanoparticles for biosensors application”)

16:00 – 22:00 Social Event (including basketball tournament)

August 30, Thursday*Chairperson Andrey Kadashchuk*

- 8:30 – 9:00** **Registration**
- 9:00 – 9:45** **Mihaela Girtan** (University of Angers, France)
Future Solar Energy Devices
- 9:45 – 10:30** **Ramūnas Lygaitis** (Kaunas University of Technology, Lithuania)
Materials for Organic Light-Emitting Diodes: Present Status and New Trends
- 10:30 – 10:50** **Coffee Break**
- 10:50 – 12:20** **Franz Faupel** (Kiel University, Germany)
Functional Nanocomposites - From Fabrication to Function
- 12:20 – 12:50** **Yuri Dekhtyar** (Riga Technical University, Latvia)
Polymer Composite Early Destruction Accompanied with Emission of Electrons
- 12:50 – 13:35** **Nerija Žurauskienė** (Center for Physical Sciences and Technology, Lithuania)
Nanostructured Lanthanum Manganite Thin Films: Preparation, Physics and Application
- 13:35 – 15:30** **Break**
- 15:30 – 17:25** **Poster Session** *Chairperson Tomas Tamulevičius*
15:30 – 16:20 Poster Session I (P1 – P67)
16:35 – 17:25 Poster Session II (P68 – P133)
- 17:30 – 18:00** **Conference photo, Awards and Certificates**

August 31, Friday*Chairperson Yuri Dekhtyar*

- 9:00 – 9:45** **Rimantas Ramanauskas** (Center for Physical Sciences and Technology, Lithuania)
Up-to-date Problems of Passive and Active Corrosion Protection of Metals
- 9:45 – 10:30** **Andrey Kadashchuk** (National Academy of Sciences of Ukraine, Ukraine)
Modern Trends in Nanoelectronics
- 10:30 – 11:15** **Mikk Antsov** (University of Latvia, Latvia)
Mechanical Characterization of Nanostructures
- 11:15 – 11:30** **Closing Remarks**
- 12:30 – 16:00** **Meeting of Interreg Baltic Sea Region programme project “Power Electronics for Green Energy Efficiency”**

Poster Session. August 30, Thursday, 15:30 – 17:25

Poster Session I (P1 – P67) 15:30 – 16:20
Poster Session II (P68 – P133) 16:35 – 17:25

METHODS OF SURFACE ANALYSIS

P1	The Investigation of Endomyocardium-Derived Mesenchymal Stem Cells by Scanning Electrochemical Microscopy <u>Jurate Petroniene</u> , Inga Morkvenaite-Vilkonciene, Almira Ramanaviciene, Lina Mikoliunaite, Rokas Miksiunas, Daiva Bironaite, Kestutis Rucinskas, Vilius Janusauskas, Arunas Ramanavicius
P2	Preparation and Analysis of Dichromated Gelatin Films <u>Živilė Stirbytė</u> , Linas Puodžiukynas, Mindaugas Andrulevičius
P3	Comparison of Antibody Immobilization Strategies by Surface Plasmon Resonance <u>Elena Dauksaite</u> , Almira Ramanaviciene, Asta Kausaite-Minkstimiene
P4	Atomic-scale Structure Modelling Under the Influence of Magnetic Fields <u>Rūdolfs Livanovičs</u> , Kaspars Ērglis
P5	Effect of 9,10-Phenanthrenequinone on Physical Properties of <i>Saccharomyces Cerevisiae</i> <u>Antanas Zinovicus</u> , Vilius Aukscionis, Jurate Petroniene, Lina Mikoliunaite, Neringa Petrasauskiene, Inga Morkvenaite-Vilkonciene, Arunas Ramanavicius

SURFACE ENGINEERING AND NANOSTRUCTURES

P6	The Effect of Dimethylformamide on the Conductivity and Production of Polyaniline Nanofibers <u>Sandra Varnaitė-Žuravliova</u> , Natalja Savest, Julija Baltušnikaitė-Guzaitienė, Aušra Abraitienė, Andres Krumme
P7	All-Printed Gas Sensor for Space Manufacturing <u>Kazimieras Badokas</u> , Dong-II Moon, Meyya Meyyappan
P8	Low Frequency Noise Spectroscopy and Resistivity Characteristics of Vitreous Carbon Foams <u>Marina Tretjak</u>
P9	Properties of SiC Films Produced with X-Rays <u>Arvydas Juozapas Janavičius</u> , Romaldas Purlys, Ringaudas Rinkūnas, Mindaugas Viliūnas
P10	Clustering of Water in Nanocomposit system SiO₂/Amber by NMR spectroscopy <u>Tatiana Krupskaya</u> , Natalia Yelahina, Mykola Borysenko, Vladimir Turov, Paulius Jovaisas, Ruta Bieliauskiene
P11	Hydrate Characteristics of Nanocomposite Systems Based on Nanosilicas for Seeds Pretreatment Yule Jankauskiene, Vytautas Zalatorius, Roma Starkute, Ona Bundineene, Tatyana V. Krupskaya, <u>Alina P. Golovan</u> , Volodymyr V. Turov, Paulius Jovaisas, Ruta Bieliauskiene
P12	Functionalization of Fluorine Doped Tin Oxide with Mixed Self – Assembled Monolayer for Phospholipid Bilayer Membrane Formation <u>Inga Gabriunaite</u> , Aušra Valiūniene
P13	Surface Morphology of Single and Multilayered Silicon Nitride Dielectric Nanocoatings Elina Pajuste, Marina Romanova, <u>Liga Avotina</u> , Gennady Enichek, Aleksandrs Zaslavskis, Valentina Kinerte, Jurijs Dehtjars, Gunta Kizane
P14	Analysis of the Silver Nanoparticle Size Distribution in Nanocomposite Thin Films upon Femtosecond Laser Irradiation <u>Gerda Klimaitė</u> , <u>Aušrinė Jurkevičiūtė</u> , Jacek Fiutowski, Horst-Günter Rubahn, Tomas Tamulevičius
P15	Investigation of the Laser Modification of NiCrFeCSiC/WC Coatings <u>Živilė Čepukė</u> , Olegas Černašėjus
P16	Consecutive Synthesis of Bismuth Chalcogenide Thin Films and Their Characterization for Use in Thermoelectric Devices <u>Lelde Švinka</u> , Maija Sjomkāne, Pauls Anšics, Edijs Kauranens, Jana Andžāne, Donāts Erts
P17	Synthesis of Nanocrystalline Gd₂O₃ Powders and Films <u>Marina Romanova</u> , Vera Serga, Raimonds Poplausks, Aija Krumina, Regina Burve, Yuri Dekhtyar
P18	Investigation of Ag Nanoparticle Assemblies in Porous Anodized Alumina <u>Mindaugas Juodėnas</u> , Tomas Tamulevičius, Raimonds Poplausks, Juris Prikulis, Joel Henzie, Donats Erts, Sigitas Tamulevičius
P19	Study of SERS Enhancement Factors for Different Geometry Silver Nanoparticles <u>Mantas Mikalkevičius</u> , Asta Tamulevičienė
P20	Environmental Stability of Bismuth Chalcogenide Thin Films with Different Thickness and Morphology <u>Maija Sjomkāne</u> , Lelde Švinka, Pauls Anšics, Raimonds Meija, Jana Andžāne, Donāts Erts
P21	Tuning of Topological and Thermoelectric Properties of Bi₂Se₃ Nanoribbons and Thin Films by Specific Doping <u>Malvine N. Strakova</u> , Jana Andžāne, Gunta Kunakova, Floriana Lombardi, Donats Erts
P22	Thermo-photoelectrical Properties of CNTs Coated with Bi₂Se₃ Nanostrucutres <u>Krisjanis Buks</u> , Edijs Kauranens, Krisjanis Smits, Juris Bitenieks, Janis Zicans, Donats Erts, Jana Andzane

P23	Formation and Structure of Porous Silicon Fabricated by Electrochemical Anodization of Highly Doped Silicon Aliaksandra Hurbo, Arseni Klimenka, Vitaly Bondarenko
P24	Metal-Assisted Chemical Etching of Silicon Followed by Ag Nanoparticles Deposition for SERS Arseni Klimenka, Mikita Hrautsou, Hanna Bandarenka, Vitaly Bondarenko
P25	Modelling and Experiment of Bosch Process for Plasma Etching of Silicon: Application to Electronic Devices Guillaume Le Dain , Ahmed Rhallabi, Christophe Cardinaud, Aurélie Girard, Fabrice Roqueta, Mohamed Boufnichel
P26	Electrochemical, Single-step Procedure for the Modification of Graphite Electrode with Bioselective Layer of Prussian Blue, Polypyrrole and Glucose Oxidase Asta Inesė Rekertaitė , Aušra Valiūnienė
P27	Localized Surface Plasmon Resonance in the Periodic System of the Rectangular Nanowires Volodymyr Fityo , Iryna Yaremchuk, Oleksandr Vernyhor, Yaroslav Bobitski
P28	Simulation of Optical Properties of SERS-active Substrates Viktar Khaliava , Hanna Bandarenka, Vitaly Bondarenko
P29	NEM Switch Operation Optimization with Mechanical Resonance Raimonds Meija , Janis Blums, Jelena Kosmaca, Liga Jasulaneca, Jana Andzane, Donats Erts
P30	Dielectrophoretic Alignment of Individual Nanowires Towards the Creation of Nanoelectromechanical Switches Matiss M. Ramma, Daniels Jevdokimovs , Jelena Kosmaca, Liga Jasulaneca, Gunta Kunakova, Donats Erts
P31	Study of Pyrrole Adsorption and one Pulse Electropolymerization on Au Surface using ESPR Method Domas Balčiūnas , Deivis Plaušinitis
P32	Examination of Size Distribution and Structure of BiFeO₃ Nanoparticles Depending on used Synthesis Methods Yuriy Gerasymchuk , Anna Wędryńska, Dmitry Karpinsky, Oleg Ignatenko, Robert Tomala, Paweł Głuchowski, Anna Łukowiak, Wiesław Stręk
P33	Evaluation of Polypyrrole Layer as a Matrix for Uric Acid MIP-based Sensor Linās Sinkevičius , Deivis Plaušinitis
P34	Production of Phosphorescent Coatings Using Plasma Electrolytic Oxidation Method Krisjanis Auzins, Krisjanis Smits, Aleksejs Zolotarjovs, Ivita Bite, Katrina Laganovska
P35	Fabrication of Wedge-shaped Porous Alumina Layers for Metal-insulator-metal Optical Resonators Raimonds Poplauskis , Juris Prikulis, Daniels Jevdokimovs, Uldis Malinovskis, Roberts Vucins, Donats Erts
P36	Design, Deposition and Characterization of Aluminum Oxide - Aluminum Nitride based Optical Coatings Prepared by Reactive Magnetron Sputtering Naglis Kyžas , Simonas Kičas, Alexandr Belosludtsev
P37	Investigation of Porous Anisotropic Thin Films for All-Silica Zero Angle Polarizers Lukas Ramalis , Lina Grinevičiūtė, Rytis Buzelis, Mindaugas Andrulevičius, Tomas Tolenis
P38	Broadband Dispersion Compensating Mirrors for High Power Lasers Simas Melnikas , Simonas Kičas, Andrius Melninkaitis
P39	Magnetic Properties of Amino Acids-Mediated Cobalt Ferrite Nanoparticles Agne Mikalauskaite , Marco Affronte, Arūnas Jagminas
P40	The Influence of Hydroxyapatite Particles on Structure of Electrospun Nonwoven Materials Evaldas Bolskis , Erika Adomavičiūtė, Justė Baranauskaitė
P41	Electrochemical Investigation of Hybrid Bilayer Formed on Polished Titanium Surface as Biosensor Platform Tomas Sabirovas , Aušra Valiūnienė
P42	PECVD Process and Chemical Synthesis to Design TiO₂/SiO₂ Thin Films Maria Mitronika , Jacopo Profili, Antoine Gouillet, Luc Stafford, Agnès Granier, Mireille Richard-Plouet

ELECTRONIC AND OPTICAL MATERIALS

P43	Tb³⁺ to Cr³⁺ Energy Transfer and External Quantum Efficiency in co-doped Yttrium Aluminium Garnet Host Monika Skruodiene , Ramunas Skaudzius
P44	Sol-Gel Synthesis and Characterization of Y_{3-x}Sm_xAl₅O₁₂ Garnets Aivaras Kareiva , Ramunas Skaudzius, Simas Sakirzanovas
P45	On the Synthesis and Characterization of Perovskite Manganites by Sol-Gel Combustion Synthesis Route Aleksiej Zarkov , Dovydas Karoblis, Anton Popov, Aivaras Kareiva
P46	Sol-gel Synthesis of Fluorine-doped Monolithic SiO₂ Veronika Bordjuga , Ivita Bite, Guna Krieke, Krisjanis Smits, Linards Skuja
P47	Photoinductive Properties of Thin Films of Composite based on Amorphous Carbon on Copper Maksym Barabash , Vladislav Martynchuk, Leonid Ryabov, Anastasiya Kolesnichenko, Anton Sezonenko, Roman Litvin
P48	Investigation of Small Organic Molecules by Raman Scattering Spectroscopy and Computational Methods Valentinas Andrusis , Audrius Bučinskas, Asta Dabulienė, Asta Tamulevičienė
P49	Transfer of Orbital Angular Momentum of Light using a Double-Lambda Atomic Scheme Hamid Reza Hamed , Julius Ruseckas, Gediminas Juzeliunas
P50	Formation of Different Period Structures by Laser Interference Lithography Gintarė Antanaitytė , Linas Puodžiukynas, Mindaugas Andrulevičius

P51	Direct Holographic Polarized Recording for Surface Relief Formation on Azopolymers Films for Holograms as Security Elements <u>Constantine Losmanschii</u> , Alexei Meshalkin, Elena Achimova, Vladimir Abashkin, Alexander Prisacar
P52	Simulation of High Diffraction Efficiency Multilayer-dielectric Reflection Gratings for Femtosecond 1030 nm Wavelength Laser <u>Andrius Žutautas</u> , Lukas Stankevičius, Mindaugas Juodėnas, Dainius Virganičius, Tomas Tamulevičius, Sigitas Tamulevičius
P53	Synthesis of Ag@SrAl₂O₄:Eu; Dy Core-shell Nanostructures <u>Madara Leimane</u> , Ivita Bite, Aleksejs Zolotarjovs, Katrina Laganovska, Krisjanis Smits, Boriss Polakovs, Donats Millers
P54	Modelling of Dislocations in Monolayer Hexagonal Boron Nitride Using Force Fields <u>Vytautas Žalandauskas</u> , Audrius Alkauskas
P55	Terbium Ion Luminescence in Zirconia Single Crystals and Nanocrystals <u>Katrina Laganovska</u> , Ernests Einbergs, Ivita Bite, Aleksejs Zolotarjovs, Krisjanis Smits
P56	Optical Properties of Terbium Ions in Zirconia Nanocrystals <u>Ernests Einbergs</u> , Katrina Laganovska, Ivita Bite, Aleksejs Zolotarjovs, Krisjanis Smits
P57	Thick Epitaxial GaAsBi Layers for Infrared Components <u>Simona Pūkienė</u> , Algirdas Jasinskas, Sandra Stanionytė, Bronislovas Čechavičius, Renata Butkutė, Arūnas Krotkus
P58	Luminescence of ZnO:In Nanoparticles and Ceramics <u>Renata Ahmetshina</u> , Ivita Bite, Krisjanis Smits, Larisa Grigorjeva, Aleksejs Zolotarjovs, Faina Muktepavela
P59	TCAD Simulations of Complementary P- and N-type Silicon Low Gain Avalanche Detectors Functional Characteristics <u>Kornelijus Pūkas</u> , Juozas Vyšniauskas, Eugenijus Gaubas
P60	Modification of Poly-aniline Optical Properties with Ortho-phenilendiamine Monomers <u>Juzef Kucinski</u> , Mindaugas Gicevicius, Lina Mikoliunaite
P61	Optimization of Thermal Evaporation Process for Continuous Silver Films and their Application for Non-polarizing Coating <u>Audrius Valavičius</u> , Povilas Jurkšaitis, Alexandr Belosludtsev
P62	Post-Deposition Annealing of Ion Beam Sputtered Dielectric Mirrors Based on Hafnia-Silica Mixtures <u>Giedrius Abromavičius</u> , Simonas Kičas
P63	Deposition and Analysis of Ultrafast Optical Properties of Diamond-like Carbon Nanocomposites with Aluminum Nanoparticles <u>Domantas Peckus</u> , Andrius Vasiliauskas, Tomas Tamulevičius, Mindaugas Andrulevičius, Šarūnas Meškis, Sigitas Tamulevičius
P64	Ultrafast Plasmon Relaxation Dynamics in Gold Nanowires and its Dependence on the Porosity of Nanowires and Polarization of Pump and Probe Beams <u>Domantas Peckus</u> , Adrien Chauvin, Mindaugas Juodėnas, Tomas Tamulevičius, Abdel-Aziz El Mel, Pierre-Yves Tessier, Sigitas Tamulevičius
P65	Mechanical Properties of Ge_{1-x}Sn_x Nanowires <u>Mikk Antsov</u> , Jelena Kosmaca, Raimonds Meija, Liga Jasulaneca, Justin D. Holmes, Donats Erts
P66	Local Structure and Valence State of IrO Nanocrystalline and Amorphous Thin Film <u>Halil Arslan</u> , Vera Skvortsova, Martins Zubkins, Roberts Kalendarevs, Juris Purans
P67	Terahertz Excitation Spectra of InP Single Crystals <u>Ričardas Norkus</u> , Andrius Arlauskas, Arūnas Krotkus

CERAMICS

P68	On the Chemical Composition of Red Pigments and Binding Medium <u>Aušra Čiuladienė</u> , Austėja Luckutė, Aivaras Kareiva
P69	Analysis of Latvian Illite/Kaolinite Clays for Application under Action of Ionizing Radiation <u>Davis Conka</u> , Ruta Svinka, Visvaldis Svinka, Liga Avotina, Valentina Kinerte, Gunta Kizane
P70	Effect of the WO₃ and ZrO₂ Additives on the Phase Compositions and Properties of the Porous Mullite Ceramics <u>Ludmila Mahnicka-Goremikina</u> , Ruta Svinka, Visvaldis Svinka
P71	Oxygen Nonstoichiometry and Valent States of Fe Ions in Sr₂FeMoO_{6-δ} <u>Alexander Petrov</u> , Nikolay Kalanda, Marta Yarmolich, Dalis Baltrunas, Kestutis Mazeika
P72	Phase Evolution, Structural and Luminescent Properties of Mn-doped Calcium Hydroxyapatite, alpha- and beta-Tricalcium Phosphates <u>Lauryna Sinusaite</u> , Andris Antuzevics, Inga Grigoraviciute-Puroniene, Anatoli I. Popov, Uldis Rogulis, Arturas Katelnikovas, Aivaras Kareiva, Aleksej Zarkov
P73	Thermally Stimulated and Photoluminescence of Chromium Doped Alumina Powders Synthesized by the Magnetron Sputtering and sol-gel Methods <u>Kārlis Vonda</u> , Elīna Pajuste, Artūrs Zarins, Jānis Cipa, Aleksejs Zolotarjovs, Peter Krug, Johannes Stollenwerk, Alan Osman, Thomas Tenostendarp
P74	Fabrication of Mg-containing β-Tricalcium Phosphate Granules <u>Živilė Stankevičiūtė</u> , Emilija Zakaite, Aivaras Kareiva

P75	Preparation of Transparent MgAl₂O₄ Ceramics via ECAS: Reduction of Discoloration <u>Vojtěch Nečina</u> , Willi Pabst
P76	Preparation and Analysis of Ca_xSr_{1-x}MoO₄ Ceramics with Scheelite-type Structure <u>Giedrė Gaidamavičienė</u> , Artūras Žalga
P77	Synthesis and Properties of the Glass-Ceramic-Whitlockite Composite <u>Laurynas Alinauskas</u> , Zivile Stankeviciute, Aleksej Zarkov, Giedrius Balciunas, Aivaras Kareiva, Edita Garskaite
P78	Gas Sensors Based on the Sr₂FeMoO_{6-δ} Powder <u>Nikolay Kalanda</u> , Marta Yarmolich, Alexander Petrov, David Graf, Ashish Lepcha
P79	Combined Temperature- and Humidity-sensitive Thick Films based on Modified Spinel-type Ceramics <u>Halyna Klym</u> , Ivan Hadzaman, Ivanna Vasylychshyn, Yuriy Kostiv

POLYMERS AND COMPOSITES

P80	Microbiological Characteristics of Polycarbonate Doped with Betulin <u>Klaudia Kubik</u> , Andrzej S. Swinarew, Tomasz Flak, Jadwiga Gabor, Marta Łęźniak, Hubert Okła, Urszula Mazurek, Krzysztof Jasik, Stanisław Boryczka
P81	Investigation of High-quality Glass-ceramic (GC) and Polymerized Methyl Methacrylate (PMMA) Composite for Regenerative Medicine <u>Ričardas Golubevas</u> , Aleksej Zarkov, Živilė Stankeviciute, Laurynas Alinauskas, Edita Garskaite, Aivaras Kareiva
P82	A Novel Glucose Biosensor Based on Polymer-Enzyme Biocomposite and Gold Nanoparticles <u>Laura Glumbokaitė</u> , Asta Kausaite-Minkstimiene
P83	Synthesis of Poly(lactic-co-glicolic)-coated Magnetic Nanoparticles as Efficient Carriers for Nanomedicine <u>Liudmyla Storozhuk</u> , Miroslava Vaclavikova, Inna Melnyk
P84	Dielectric Properties of Nanocomposite Materials based on Plasmon Nanoparticles <u>Iryna Yaremchuk</u> , <u>Tetiana Bulavinets</u> , Volodymyr Fitio, Yaroslav Bobitski
P85	Pressure-induced Variations in Fluorescence Properties of Polyimide Films Displaying Excited-state Intramolecular Proton Transfer <u>Eisuke Fujiwara</u> , Ryoji Orita, Kenta Kanosue, Ryohei Ishige, Marius Franckevičius, Aurimas Vysniauskas, Vidmantas Gulbinas, Shinji Ando
P86	Conductivity Measurements of Sulfonated Poly (Ether Ether Ketone) Membranes Using Impedance Analysis <u>Deniss Fedorenko</u> , Marta Kāne, Guntars Vaivars
P87	Influence of Textural Properties of Filtering Nonwovens Loaded with Activated Carbon on the Sorption of Selected Odorous Compounds <u>Małgorzata Okrasa</u> , Aleksandra Zagawa, Agnieszka Brochocka, Jörn Hitz, Christoph Thelen
P88	Relationship between Structural Parameters and Sorption Properties of Polymer-zeolite Composites Agnieszka Brochocka, Aleksandra Zagawa, <u>Małgorzata Okrasa</u> , Wojciech Franus, Rafał Panek, Jarosław Madej
P89	Analysis of Electrically Conductive Adhesives <u>Nijolė Buškuvienė</u> , Virginija Jankauskaitė
P90	UV/VIS Investigation of Copper Sulfides Layers on Polypropylene Formed Using Various Reducing Agents <u>Kamilė Vonžodaitė</u> , <u>Eglė Balčiūnaitė</u> , Rasa Alaburdaitė, Edita Paluckienė
P91	ROS Generation by New Grafite Oxide/Zr-phthalocyanine based Materials for Biomedical Application <u>Anna Wędryńska</u> , Yuriy Gerasymchuk, Anna Kędziora, Mateusz Speruda, Gabriela Bugla-Płoskońska, Dominika Piątek, Teresa Bachanek, Anna Łukowiak
P92	Study of Tin Selenide Layers Formation on Polyamide Surface <u>Aistė Kunciuūtė</u> , Remigijus Ivanauskas
P93	Characterization of Water in Poly (N-isopropylacrylamide) Hydrogels by DSC <u>Olena Goncharuk</u> , Yuriy Samchenko, Dariusz Sternik, Tetyana Poltoratska
P94	Electrical Properties at Low Temperatures of PEDOT:PSS/CNTs Composites <u>Ivan Karbovnyk</u> , Dmytro Chalyy, Ihor Olenych, Dmytro Lykashevych, Halyna Klym

ADVANCED ENGINEERING MATERIALS

P95	The Analysis of the Peculiarities of the Functionality and Applicability of the Electrically Conductive Embroidery Systems <u>Žaneta Juchnevičienė</u> , Milda Jucienė
P96	The Evaluation of the Uncertainty of the Research Method on the Geometrical Parameters of the Embroidery Elements <u>Žaneta Juchnevičienė</u> , Asta Meškuotienė, Milda Jucienė, Vaida Dobilaitė, Virginija Sacevičienė
P97	Influence of Weave on Fabric Tear Strength <u>Brigita Legaudienė</u> , Rimvydas Milašius
P98	Investigation on the Antimicrobial Activity of Textile Fabrics Treated by Natural Antimicrobial Substances <u>Jolita Kriščiūnaitė</u>

P99	Electrospun Nanofibrous Webs and their Porosity Estimation <u>Virginija Kleivaitė, Rimvydas Milašius</u>
P100	Energy Absorption Properties of EVA Laminates for Customized Orthotic Insole <u>Gerda Trifeldaitė, Kristina Zukiene, Ilona Kazlauskienė</u>
P101	Influence of Waste Fibers Nature on the Quality of Silver Selenide Layer <u>Olga Belukhina, Daiva Milašienė, Remigijus Ivanauskas</u>
P102	Improvement of the Thermal Properties of Bio-based PCM <u>Virginija Skurkytė-Papievienė, Aušra Abraitienė, Audronė Sankauskaitė, Vitalija Rubežienė</u>
P103	Elastic Properties of Knitted Fabrics under Cyclic Tensile Loads <u>Agne Lage, Kristina Ancutiene</u>
P104	Investigation of Compression Products for Scars Treatment <u>Laima Muralienė, Daiva Mikučionienė, Akvilė Andziukevičiūtė-Jankūnienė, Virginija Jankauskaitė</u>
P105	Relation between Yarns and Fabrics Breaking Forces <u>Indrė Tautkutė-Stankuvienė, Eglė Kumpikaitė, Dovilė Redeckienė</u>
P106	Influence of the Knitting Structure on the Moisture Management Properties of Non-flammable Double Layered Fabrics <u>Laimutė Stygienė, Aušra Abraitienė, Sigitas Krauledas, Sandra Varnaitė-Žuravliova, Julija Baltušnikaitė-Guzaitienė, Kristina Dubinskaitė</u>
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