

17th International Conference – School
ADVANCED MATERIALS AND TECHNOLOGIES

Programme

August 27, Thursday

14:00 – 20:00

Arrival and registration

August 28, Friday

*Chairmen – **Sigitas Tamulevičius, Silvia Schintke***

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| 8.30 - 9.00 | Registration |
| 9.00 - 9.15 | Opening |
| 9.15 - 10.15 | Silvia Schintke (University of Applied Sciences Western Switzerland, Switzerland)
Transparent conducting materials: electrical probing, surface microstructuring and applications |
| 10.15 - 11.00 | Antanas Daugela (Seagate Technology at ES HDD development center in Minneapolis, USA)
DLC Coatings Characterization on HDD Recording Heads |
| 11.00 - 11.30 | Coffee break |
| 11.30 - 12.15 | Antanas Daugela (Seagate Technology at ES HDD development center in Minneapolis, USA)
Advanced Signal Processing Techniques in Head/Media Contact Detection for HDD |
| 12.15- 13.45 | Andrey Milchev (Bulgarian Academy of Sciences, Bulgaria)
How computer simulations in soft condensed matter can help to test theories and to interpret experiments |
| 13.45 - 18.00 | Break |
| 18.00 - 22.00 | Discussions and welcome party |

August 29, Saturday

*Chairmen – **Ryno Lohmus, Donats Erts***

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| 8.30 - 9.00 | Registration |
| 9.00 - 9.45 | Serghej Prischepa (Belarusian State University of Informatics and Radioelectronics, Belarus)
CNT-based magnetic nanocomposites |
| 9.45 - 10.45 | Gil Rosenman (Tel Aviv University, Israel)
Bioorganic Nanodots: Basic Physics and Application |
| 10.45 - 11.30 | Donats Erts (Institute of Chemical Physics, University of Latvia, Latvia)
Nanoelectromechanical systems (NEMS) |
| 11.30 - 11.50 | Coffee break |
| 11.50 – 12.35 | Rynno Lohmus (Institute of Physics University of Tartu, Estonia)
Nanomanipulation Employed for Tribological Characterization of Nanostructures |
| 12.35 - 13.35 | Andrzej Swinarew (Uniwersytet Śląski w Katowicach, Poland)
How to print unprintable: quick guide to modify and use novel polymer blends based on polycarbonate in 3D printing |

- 13.35 - 16.00 **Break**
- 16.00 - 22.00 **Excursion**

August 30, Sunday

*Chairmen – **Serghej Prischepa, Juris Prikulis***

- 8.30 – 9.00 **Registration**
- 9.00 – 9.45 **Hartmut Froeb** (Institut für Angewandte Photophysik, TU Dresden, Germany)
Organic Semiconducting Lasers
- 9.45 – 10.30 **Audrius Sigitas Maruška** (Vytautas Magnus University, Lithuania)
Development and application of separation science: towards miniaturization and integration
- 10.30 – 11.15 **Andrey Kadashchuk** (Institute of Physics of the National Academy of Science of Ukraine, Ukraine; IMEC, Belgium)
Charge-carrier transport in advanced high-mobility semiconductor thin films
- 11.15 – 11.35 **Coffee break**
- 11.35 – 12.35 **Ashok Vaseashta** (Institute for Advanced Sciences Vermont, USA; International Clean Water Institute, Molecular Science Research Center, Orangeburg, SC USA)
Nano Technological Innovations Supporting Water Safety and Security
- 12.35 – 13.20 Discussion on the Project „S58 – Platform of Baltic infrastructure for Research, Technology and Innovation (BIRTI)“
- 13.20 – 16.00 **Break**
- 16.00 – 18.30 **Poster session**
*Chairmen – **Tomas Tamulevičius, Erika Adomavičiūtė***

August 31, Monday

*Chairman – **Sigitas Tamulevičius***

- 8.30 – 9.30 **Juris Prikulis** (Institute of Chemical Physics, University of Latvia, Latvia)
Elastic light scattering by plasmonic nanostructure systems for sensor applications
- 9.30 – 10.30 **Minvydas Kazys Ragulskis** (Research Group for Mathematical and Numerical Analysis of Dynamical Systems, Kaunas University of Technology, Lithuania)
Dynamical Visual Cryptography – Problems and Applications
- 10.30 – 10.45 **Closing remarks**
- 10.45 – 11.30 Discussion on the Lithuania-Belarus Project “Electronic and plasmonic properties of CVD deposited graphene nanostructures”

METHODS OF SURFACE ANALYSIS

P1	M. Zienius, R. Rekuviene, E. Žukauskas, L. Mažeika, R. J. Kažys, L. Šimatonis, J. Aukštikalnis, T. Tamulevičius, S. Tamulevičius. <i>Creation of Spatial Resolution Calibration Block for Acoustic Microscope</i>
P2	I. Balčiūnaitė, A. Katelnikovas, E. Norkus, A. Kareiva, A. Kleišmantas. <i>Analysis of Rare Garnets by Means of Luminescence Spectroscopy</i>
P3	M. Jurak. <i>Wetting Properties of Mixed Lipid Films with Antioxidant</i>
P4	M. Jurak. <i>Miscibility of Lipids and Lauryl Gallate in Ternary Systems</i>
P5	M. Jurak. <i>Topography of Thin Films Containing Biologically Active Substances</i>
P6	M. Jurak, A.E. Wiącek, K. Terpiłowski, M. Worzakowska. <i>Properties of Organized Films of Biological Substances on Polymer Support</i>
P7	A. Jurkevičiūtė, T. Tamulevičius, Š. Meškis, S. Tamulevičius. <i>Resolving of the Optical Model of Copper Nanoparticles Embedded in Diamond Like Carbon Matrix for Spectroscopic Ellipsometry</i>
P8	A. Valavičius, V. Kopustinskas, M. Andrulevičius. <i>Investigation of Nitrided Co-Cr Alloy</i>
P9	K. Zaleckaitė, L. Puodžiukynas, M. Andrulevičius. <i>Analysis of Dot-matrix Hologram</i>

SURFACE ENGINEERING AND NANOSTRUCTURES

P10	V. Bukauskas, V. Nargelienė, Š. Vaškelis, A. Mironas, A. Šetkus. <i>Monolayer CVD Graphene Analysis and Applications</i>
P11	I. Andersons, A. Ramata-Stunda, M. Baitimirova, G. Petersons, U. Malinovskis, I. Muiznieks, J. Andzane, D. Erts. <i>Production, Characterization of Fluorographene – Fluorographite Coatings and Their Applications for Biological Cell Adhesion and Proliferation Stimulation</i>
P12	M. Aydin, Y. Oztekin, U. Thahira Khatoon, G. V. S. Nageswara Rao, K. Mohan Mantravadi, A. Ramanavicius. <i>The Effect of Structural Differences of Copper Nanoparticles for Electrochemical Determination of Dopamine</i>
P13	M.Yu. Barabash. <i>Spectroscopy of Amorphous Carbon on Glass Substrate and on Thin Copper Layer</i>
P14	V.A. Bartak. <i>Influence of Plasma Coatings on Saturation Process of Zr1%Nb Alloy with Deuterium</i>
P15	U.S. Nyemchenko. <i>Adhesion Strength of Multielement Coatings of the System (TiNbCrZrSi)N</i>
P16	D. Baziulyte, R. Rotomskis, S. Sakirzanovas. <i>Surface Modification and Characterization of NaGdF₄:Yb,Er Upconverting Nanoparticles</i>
P17	L. Dedelaite, M. Ersoz, Y. Oztekin, A. Ramanavicius. <i>Electrochemical Modification of Electrode by Poly-nano Aniline Layers as Metal Sensing System</i>
P18	Yu. Dekhtyar, P. Kovalovs, R. Reifeld, A. Resetnikova, M. Romanova, T. Saraidarov, I. Surkova. <i>Application of Lead Sulphide Nanoparticles for Dosimetry of Ionizing Radiation</i>
P19	A. L. Dolgyi, S. V. Redko, L. N. Dolgyi, S. L. Prischepa, O. F. Demidenko, K. I. Yanushkevich. <i>Fabrication and Properties of Porous Silicon-iron Magnetic Nanocomposite</i>
P20	V. M. Fitio, V. V. Romakh, L. V. Bartkiv, Y. V. Bobitski. <i>An Accuracy of Search Propagation Constants of Guided Modes of Gradient Waveguides in a Frequency Domain</i>
P21	J. Gaidukevič, P. Rechnia, A. Miklaszewska, J. Barkauskas, M. Kozłowski. <i>Modified Thermally Reduced Graphite Oxide and its Application in Transesterification Reaction of Rapeseed Oil</i>
P22	M. V. Galaburda, V. M. Bogatyrov, J. Skubiszewska-Zięba, D. Sternik, V. M. Gun'ko. <i>Synthesis and structural features of magneto-sensitive CO/C sorbents.</i>

P23	K. Girel, N. Kovalchuk, I. Komissarov, A. Panarin, S. Terekhov, H. Bandarenka. <i>High Stable SERS-active Surfaces Engineering by Plasmonic Metals Deposition on Porous Silicon and Graphene Protection</i>
P24	D.Jevdokimovs, P. Nazarov, V. Kovalenko, U. Kanders, J. Maniks, V. Mitin, D. Erts. <i>Carbon Nanocomposite Films Synthesis by Sputtering Technology</i>
P25	T. Juknius, M. Ružauskas, T. Tamulevičius, S. Tamulevičius. <i>Smart Nanoplaster – a New Way of Wound Treatment in Daily Life.</i>
P26	R. Kapica, J. Markiewicz, A. Małachowski, J. Sielski, J. Tyczkowski. <i>A Method for Improving the Hydrophobicity of Goose Down by Plasma Technique</i>
P27	H. Klym, O. Shpotyuk. <i>Surface Crystallization Processes in 80GeSe₂–20Ga₂Se₃ Chalcogenide Glass</i>
P28	A. Knoks, J. Kleperis, L. Grinberga. <i>Photoactivity of Anodized TiO₂ Nanostructures</i>
P29	I.Krawczyk-Klys, I.Jaruga, J. Balcerzak, J.M. Martin-Martinez, J.Tyczkowski. <i>Adhesive Properties of Commercial SBS Rubbers: Atmospheric Plasma versus Vacuum Plasma Treatment</i>
P30	G. Kunakova, S. Charpentier, J. Andzane, T. Bauch, F. Lombardi, D. Erts. <i>Magnetotransport Characterisation of the Bismuth Selenide Nanowires</i>
P31	M. Marchwicka, K. Gladyszewski, L. Jozwiak, J. Tyczkowski. <i>Plasma Deposited Thin Films of Cobalt and Ruthenium Oxides for Photoelectrochemical (PEC) Water Splitting</i>
P32	J. Markiewicz, E. Tyczkowska-Sieroń, R. Kapica, J. Tyczkowski. <i>Cold Atmospheric Pressure Plasma Interaction with Living Matter on the Example of Micro-fungi</i>
P33	S. Niauzorau, K. Girel, V. Bondarenko. <i>Formation of Porous Silicon Nanostructures by Metal-Assisted Chemical Etching</i>
P34	S. Oras, T. Taaber, K. Põhako-Esko, K. Saal, U. Mäeorg, R. Lõhmus. <i>Improving Lubricant Properties with Ionic Liquid and Nanoparticle Additives</i>
P35	G. Petersons, E. Mamis, M. Baitimirova, J. Andzane, M. Zubkins, J. Purans, A. Tamulevičienė, D. Erts. <i>Impact of Copper Substrate Pre-treatment on Hall Mobility of Graphene grown by CVD method</i>
P36	E. Raudonytė-Svirbutavičienė, A. Katelnikovas. <i>Photochemical Synthesis of CeO₂-Ag Nanocomposites</i>
P37	W. Redzynia, J. Balcerzak, J. Sielski, H. Kierzkowska-Pawlak, J. Tyczkowski. <i>Promising PEMOCVD Cobalt and Ruthenium Oxide Layers for CO₂ Methanation Process</i>
P38	A. Rimkus, E. Pozingytė, R. Nedzinskas, B. Čechavičius, J. Kavaliauskas. <i>Temperature-dependent Spectroscopic Study of InAs/InGaAs DOTs-in-a-WELL Structures</i>
P39	A. Šiušys, J. Sadowski, S. Kret, T. Wojciechowski, T. Story, M. Sawicki. <i>Magnetic and Structural Properties of MBE Grown Wurtzite (Ga,Mn)As Shells in a Radial Quantum Well Nanowire Heterostructures</i>
P40	E. K. Sobolewska, T. Leissner, J. Adam, H. G. Rubahn, J. Fiutowski. <i>Leakage Radiation Spectroscopy and Photoluminescence Lifetime Studies of Organic/Dielectric/Metal Systems</i>
P41	S. Streckaitė, D. Peckus, R. Augulis, T. Tamulevičius, S. Tamulevičius, V. Gulbinas. <i>Synthesis of Silver Nanoparticles and Their Influence on Fluorescence of Organic Compounds</i>
P42	I. Sulym, D. Sternik, A. Derylo-Marczewska. <i>Adsorption-structural and Morphological Characteristics of Silica-supported Titania–zirconia Nanocomposites</i>
P43	A. Szcześ, M. Czemińska, A. Jarosz-Wilkolazka. <i>Exopolymeric Substances of Bacterial Strain Rhodococcus on Calcium Carbonate Precipitation</i>
P44	T. Taaber, U. Joost, S. Oras, U. Mäeorg, K. Saal, R. Lõhmus. <i>Novel Lubricant Based on Ionic Liquid/Nanoparticle Composite</i>
P45	I.M. Trofymchuk, N.V. Roik, L.A. Belyakova. <i>Activated Synthesis of Cyclodextrin-MCM-41 Silica</i>
P46	Š. Vaškėlis, A. Mironas, V. Bukauskas, A. Šetkus. <i>Occupation of Surface Electronic States Changes in TiO₂ Films after Exposure to Gas</i>
P47	I. Yaremchuk, V. Volos, V. Fitio, Ya. Bobitski. <i>Plasmon Effects in DLC:Ag Nanocomposite Structures</i>

P48 M. Zubkins, R. Kalendarev, K. Kundzins, J. Gabrusenoks, K. Vilnis, A. Azens, J. Purans. *Structural, Optical and Electrical Properties of ZnO:Ir Thin Films Deposited by Reactive Magnetron Co-sputtering*

ELECTRONIC AND OPTICAL MATERIALS

P49 M. Gicevicius, A. Bartuskeviciute, I. Morkvenaite-Vilkonciene, R. Viter, A. Ramanavicius, A. Ramanaviciene. *Electrochromic Devices Based on Conducting Polymer - Polyaniline*

P50 J. Aleknavičius, D. Dobrovolskas, G. Tamulaitis. *Spatially Resolved Photoluminescence of GaBiAs Epitaxial Layers and Laser Annealing of GaBiAs Quantum Wells*

P51 J. Andzane, G. Kunakova, A. Kiselovs, J.D. Holmes, D.Erts. *Photoconductive properties of compound semiconductor nanowire arrays*

P52 G. Bagdziunas, G. Grybauskaite, D. Volyniuk, N. Kostiv, A. Lazauskas, S. Tamulevicius, J. V. Gražulevičius. *Dependence of Surface Morphology on the Properties of PHOLEDs*

P53 E. Chubenko, V. Bondarenko. *Solution Growth of Doped and Undoped ZnO Nanostructures*

P54 A. L. Danilyuk, T. I. Makovskaya. *Simulation of the Electrophysical Properties of Graphene in External Electrical Field*

P55 E. Poizingytė, S. Paurazaitė, A. Rimkus, S. Tumėnas, P. Ščajev, R. Nedzinskas. *Temperature-dependent Optical Response in Nonpolar m-ZnO/ZnMgO Quantum Wells*

P56 G. Grybauskaite, G. Bagdziunas, N. Kostiv, D. Volyniuk, J. V. Gražulevičius. *Synthesis of Derivatives based on Phenothiazine and Carbazole Moieties for Optoelectronics*

P57 D. Gudeika, J. V. Gražulevičius. *Twin Compounds of 1,3-Indandione with NLO Properties*

P58 H. R. Hamedi, G. Juzeliunas. *Phase Sensitive Atom Localization for Closed Loop Quantum Systems*

P59 A. Janavičius, R. Purlys, R. Rinkūnas, S. Daugėla. *Superdiffusion of Carbon in Silicon by Vacancies Irradiated with Soft X-rays*

P60 A. Jarmola, K. Erglis, F. Gahbauer, J. Prikulis, D. Erts, R. Ferber. *Imaging Magnetic Field Distributions of Magnetic Particles with Nitrogen-vacancy (NV) Centres in Diamonds*

P61 A. Kalpakovaitė, R. Dargis, A. Clarck, K. Badokas, T. Malinauskas, T. Grinys. *Characterization of Non-polar GaN Grown on Si Substrate with a Rare-earth Oxide Interlayer*

P62 K. Kazlauskas, A. Bieliauskas, M. Bistrickas, G. Kreiza, V. Getautis, A. Šačkus, S. Juršėnas. *Synthesis and Study of Phenylenediacetonitrile Molecules Functionalized with 3-Substituted 1H-Pyrazole Moieties as a Highly Fluorescent Nanoparticles*

P63 I. V. Komissarov, N. G. Kovalchuk, L. S. Lobanovsky, K. I. Yanushkevich, V. A. Labunov, S. L. Prischepa. *Magnetoresistance of Few-layer CVD Graphene*

P64 M. Mackoīt, J. Mickevičius, J. Jurkevičius, G. Tamulaitis, M. Shatalov, J. Yang, R. Gaska. *Nonequilibrium Carrier Dynamics in GaN epilayers in a Wide Range of Excitation Power Densities*

P65 Š. Masys, V. Jonauskas. *On the Identification of Processes that Impact the Electronic Structure of SrRuO₃*

P66 V. Minialga. *Plasma Ball usage for High Frequency Discharge Demonstration in Soldered Gas Tubes*

P67 D. Peckus, R. Laurinavičiūtė, T. Tamulevičius, J. Simokaitienė, S. Tamulevičius, J. V. Gražulevičius, M. Daniels, W. Dehaen. *Dynamic Optical Properties of Electroactive Arylamines with Carbazole Units*

P68 P. Ryncevič, R. Augulis, V. Gulbinas. *Optical Energy Transport and Interactions between the Donor and Acceptor in a Laser DyeDendrimer*

P69 A. Sherstnyov, E. Chubenko, S. Redko, V. Petrovich, V. Bondarenko. *Electrochemical Formation of Zinc Oxide/Porous Silicon Nanocomposite Materials*

P70 E. Skuodis, A. Tomkevicienė, J. V. Gražulevičius. *Synthesis and Properties of Cyanic Substituted Carbazole Derivatives*

- P71** **L. Stankevičius, T. Tamulevičius.** *Simulation of Sidewall Roughness Impact on Diffraction Efficiency of Multi Layered Diffraction Grating*
- P72** **D. Tavgeniene, E. Zaleckas, S. Grigalevicius, Sudhir Kumar, Chih-Chia An, Po-Hsun Fang, Jwo-Huei Jou.** *New Electroactive Oligomers Containing Electronically Isolated Carbazole Rings for Organic Light Emitting Diodes*
- P73** **A. Vashurau.** *Optical Properties of SiO₂ Thin Films Synthesized by Direct Ion Beam Deposition*

CERAMICS

- P74** **A. Beganskiene, J. Barkauskas, A. Ramanavičius, A. Kareiva.** *Synthesis and Characterization of Black Carbon Pigments and Glazes*
- P75** **S. Culunlu, O. Opuchovic, A. U. Morkan, I. A. Morkan, A. Beganskiene, A. Kareiva.** *Synthesis and Characterization of Mixed-Metal Yttrium Aluminium-Iron Garnets*
- P76** **E. Grazenaite, A. Beganskiene, J. Pinkas, A. Kareiva.** *Synthesis, Characterisation and Application of Novel Green Pigments Co_(1-x)M_xCr₂O₄ (M = Cu, Zn, Ni)*
- P77** **E. Gul, E. Garskaite, A. Stanulis, A. U. Morkan, I. A. Morkan, A. Beganskiene, A. Kareiva.** *Sol-Gel Synthesis and Characterization of Strontium Stannate Thin Films*
- P78** **R. Kubiliūtė, R. Kaminskas.** *Theoretical and Practical Estimation of F⁻ ions Binding into Stable Compounds*
- P79** **O. Valtenbergs, A. Zarins, G. Kizane, A. Supe, L. Baumanė, R. Knitter, A. Zolotarjovs.** *Radiolysis of Lithium Orthosilicate Pebbles under Action of Accelerated Electron Flux*

POLYMERS AND COMPOSITES

- P80** **M. Antsov, T. Taaber, S. Vlassov, L. Dorogin, U. Mäeorg, K. Saal, M. Järvekülg, R. Löhmus.** *Mechanical Characterization of Ionic Liquid based Polymeric Fibers*
- P81** **E. Adomavičiūtė, E. Bolskis, S. Stanys.** *The Influence of Hydroxyapatite Particles on Structure of Electrospun Mats*
- P82** **E. Adomavičiūtė, S. Stanys, V. Briedis.** *The formation and analysis of biocompatible electrospun materials with biologically active compounds*
- P83** **S. Burczyk, B. Kopek, H. Okła, B. Rozwadowska, K. Jasik, A. Swinarew.** *The New View on Protein TNF - α (cytokine) as a Biopolymer Material to Identify Borrelia Burgdorferi Sensu Lato*
- P84** **T. Flak, J. Gabor, H. Okła, B. Rozwadowska, G. Nowicki, K. Jasik, A. S. Swinarew.** *Novel Antibacterial Modification of Polycarbonate for 3D Printing Applications*
- P85** **V. Kavaliūnas, M. Andrulevičius.** *Graphene Oxide as Holographic Data Storage*
- P86** **G. Krucaite, L. Liu, D. Tavgeniene, L. Peculyte, J.V. Grazulevicius, Z. Xie, B. Zhang, S. Grigalevicius.** *New Electroactive Polymers Containing Pendent Aryl Substituted Carbazole Unites as Hole Transporting Materials for Organic Light-emitting Diodes*
- P87** **M. Łęźniak, J. Gabor, Z. Grobelny, D. Stróż, A. S. Swinarew.** *Modified Polycarbonate (PC) Investigation for Industrial Applications: Preliminary Results*
- P88** **A. Lisauskaitė, V. Jankauskaitė.** *Influence of Chemical Modification of Cellulose Microfibers Surface on Polydimethylsiloxane Properties*
- P89** **G. Nowicki, J. Maszybrocka, T. Flak, M. Łęźniak, D. Stróż, Z. Grobelny, A. S. Swinarew.** *Optimization of 3D Printing Parameters for Polycarbonate*
- P90** **M. Pawliszewski, T. Flak, J. Gabor, A.S. Swinarew.** *Use of Synthetic Heterocycle Compounds and Branched Polymers in Modification of Polycarbonate for 3D Printing Applications*
- P91** **J. Potyka, T. Flak, M. Łęźniak, H. Okła, A. S. Swinarew.** *Use of Naturally Occurring Compounds in Modification of Polycarbonate for 3D Printing Applications*

P92	D. Rymuszka, K. Terpiłowski, E. Goncharuk, I. Sulym. <i>Hydrophobic Polymer/Silica Layers Deposited on Activated with Plasma Glass Surface</i>
P93	A. Szcześ, R. Dobrowolski, M. Czemińska, A. Jarosz-Wilkolazka, L. Hołysz. <i>Application of an Extracellular Biopolymer Produced by Bacterial Strain Rhodococcus for Removal of Pb (II), Cd (II) and Ni (II) Ions from Aqueous Solutions</i>
P94	K. Terpiłowski, L. Davydenko, D. Rymuszka, L. Hołysz, O. V. Goncharuk, I. Ya. Sulym. <i>Hydrophobic Sol-Gel Siloxane Films with Modified Silica Particles Deposited on Glass</i>
P95	K. Terpiłowski, M. Wiśniewska, I. Ostolska, K. Szewczuk-Karpisz, A. Nosal-Wiercińska, V. Bogatyrov. <i>Structure of the Polymer Adsorption Layer Formed at the Zn_xO_y/SiO₂ Mixed Oxides Surface in the Presence of Poly(vinyl alcohol)</i>
P96	K. Terpiłowski, M. Wiśniewska, K. Szewczuk-Karpisz, I. Ostolska, A. Nosal-Wiercińska, V. M. Bogatyrov. <i>Adsorption Properties of the Mg_xO_y/SiO₂ - PVA System</i>
P97	M. Tomczyńska-Mleko, K. Terpiłowski, A. E. Wiącek, S. Mleko. <i>Surface Properties on Aerated Egg White Protein Gels</i>
P98	J. Vitosytė, T. Krystofiak, B. Lis, K. Ukvalbergienė. <i>Clear Water-Based Acrylic Wood Coatings Containing Inorganic Nanoparticles Resistance to UV Exposure</i>
P99	A. E. Wiącek. <i>Effect of Temperature on Starch Biopolymer Wettability</i>
P100	A. E. Wiącek, M. Jurak, K. Terpiłowski, M. Worzakowska. <i>Effect of Air Plasma Modification on PEEK Polymer Characteristic</i>
P101	A. E. Wiącek, M. Ciołek. <i>Physicochemical Properties of Polysaccharide Modified Carbon Sorbent</i>
P102	A. E. Wiącek, K. Terpiłowski, M. Jurak. <i>Effect of N₂ Plasma Modification on Polyetheretherketone Wettability</i>
P103	A. Zinovičius, N. Petrašauskienė. <i>Studies of Polyamide Chalcogenation in Sodium Selenosulfate (Na₂SeSO₃) Solutions</i>

ADVANCED ENGINEERING MATERIALS

P104	M. F. Benlamnour, M. Gousmine, N. Bensaïd, A. Boutaghane. <i>Microstructure and Mechanical Behavior of TIG Bimetallic Joints</i>
P105	L. Čepukonė, D. Mikučionienė. <i>Comparative Analysis of Natural and Man-Made Fibres Nature on Selected Structural Parameters of Knits</i>
P106	A. Lazauskas. <i>Graphitic Carbon Nitride (g-C₃N₄) as a Future Material for Advanced Technology Applications: Structural, Chemical and Adsorption Properties</i>
P107	O. Danilenko, M. Ozolinsh, V. Karitans. <i>Light Scattering "Smart Glass" in Vision Science</i>
P108	J. Drutowska, K. Mysior, K. Jasik, A. Swinarew. <i>Spectral and Chromatographic Methods in the Analysis of Biopolymers Secreted in Tick-borne Infections</i>
P109	A. Guia, M. Gaweł, K. Jasik, A. Swinarew. <i>Reconstruction of the Vertebrae and Intervertebral Discs using 3D Printing as the First Step to Personalized Implants</i>
P110	Ž. Juchnevičienė, M. Jucienė. <i>The Research of Evaluation of Embroidery Electro – Active Textile Materials</i>
P111	N. G. Kovalchuk, E. A. Kolesov, M. S. Tivanov, V. A. Labunov, S. L. Prischepa, I. Komissarov. <i>Nucleation Density of Graphene Grown by Atmospheric Pressure CVD on Copper Foil from Decane</i>
P112	G. Laureckienė, R. Milašius. <i>Short-Cut Method of Textile Long-Lasting Relaxation Prediction</i>
P113	A. Laurikėnas, J. Barkauskas, J. Reklaitis, G. Niaura, D. Baltrunas, A. Kareiva. <i>Formation Peculiarities of Iron (III) Acetate</i>
P114	R. Lebedeva. <i>Sorption and Degradation Processes of Hydro Technical Concrete with Mineral Additives</i>
P115	A. Magomedov, T. Malinauskas, V. Getautis. <i>Change Transfer Process in the Oxidized Carbazole Based Branched Hole Transporting Material</i>

- P116** **D. Mizeras, A. V.Valiulis, A. Šešok, J. Griškevičius, M. Malinauskas** *Research of Mechanical Properties for 3D Printed Polylactic Acid Objects*
- P117** **A. Petravičius, D. Petrusis, S. Petrulytė** *Applications of Additives for Production of Tape Yarns*
- P118** **M. Reszke, M. Środulska, A. Swinarew, J. Paluch, K. Jasik, H. Okła, J. Gabor, M. Łęźniak** *New polymeric material used in construction of larynx implant preparation based on three-dimensional prototyping techniques*
- P119** **A. Służalek, A. Fujarski, G. Nowicki, A. Swinarew** *The Pressure Chamber Made with 3D Printing Method from Project to Realization*
- P120** **D. Sokol, A. Kareiva** *Synthesis of Mg/Al and Mg/Al/Bi Layered Double Hydroxides via Sol-Gel and co-Precipitation Methods, Decomposition and Reconstruction*
- P121** **I. Timoshkov, V. Kurmashev, A. Sakava, V. Timoshkov** *Nanocomposite Materials for Advanced Microelectronic Applications*
- P122** **D. Vankevičiūtė, S. Metrikytė, S. Petrulytė, D. Petrusis** *Characterization of Fragrance Microcapsules for Terry Textile*
- P123** **S. Varnaitė-Žuravlio, N. Savest, J. Baltušnikaitė, A. Abraitienė, A. Krumme** *The Investigation of Chitosan/Polyethylene Oxide Nanofibers Produced by Electrospinning*

MATERIALS FOR ENERGY

- P124** **P. P. Cielecki, E. Skovsen, A. J. Goszczak, M. Madsen, J. Fiutowski, H.-G. Rubahn** *Ultrafast Optical Methods for Characterization of Photoexcited Species in Organic Solar Cells*
- P125** **L. Avotiņa, D. Čonka, A. Vītiņš, M. Halitovs, G. Kizāne, J. Likonen, A. Widdowson, JET contributors** *Thermally-induced Tritium Release from the Inner Divertor Carbon Tiles of the JET Tokamak*
- P126** **V. Bertašius, V. Gulbinas** *Photoelectric Characterization of P3HT Polymer / PbS Nanocrystal Composites*
- P127** **L. Jozwiak, M. Marchwicka, P. Kazimierski, J. Tyczkowski** *Plasma Deposited Thin Iron Oxide Films as Electrocatalyst for Hydrogen Fuel Cells*
- P128** **P. Lesnicenoks, J. Zemitis, L. Grinberga, G. Chikvaidze, J. Kleperis, M. Urbonavičius, S. Tučkute, D. Milčius** *Elaboration of Graphitic Nanosheet Structures for Hydrogen Binding*
- P129** **K. Mažeika, S. Kanapeckaitė, A. Survila** *Electrochemical Generation of Hydrogen Involving Proton Donors*
- P130** **J. Sakaliūnienė, B. Abakevičienė** *Magnesium Aluminate Spinel Thin Films Deposited by Electron Beam Evaporation Technique*
- P131** **J. Sakaliūnienė, B. Abakevičienė, V. Grigaliūnas, T. Šalkus, S. Tamulevičius** *Geometrical Effects of Pt Electrode on Ionic Conductivity of Thin Films Deposited using Electron Beam Evaporation Technique*
- P132** **A. Survila** *Stability of Semiconducting Cuprous Oxide Layers formed in Electrochemical Systems*
- P133** **D. Šimkūnaitė, L. Tamašauskaitė-Tamašiūnaitė, A. Balčiūnaitė, A. Zabelaitė, A. Selskis** *Investigation of Borohydride Oxidation at Platinum-Nickel/Titania Nanotube Arrays Modified with Bi Species*
- P134** **L. Tamašauskaitė-Tamašiūnaitė, G. Grincienė, B. Šimkūnaitė-Stanyrienė, G. Niaura, V. Pakštas, L. Naruškevičius, A. Selskis, E. Norkus** *Characterization and Properties of CZTS Crystals Prepared by Microwave Synthesis*

OTHERS

- P135** D. Peckus, T. Tamulevičius, Š. Meškinis, A. Tamulevičienė, A. Vasiliauskas, O. Ulčinas, V. Gulbinas, S. Tamulevičius. *Plasmons Relaxation Dynamics in Diamond-Like Carbon Thin Films Doped with Cu Nanoparticles*
- P136** S. Zadavičiūtė, K. Baltakys, A. Bankauskaitė. *The effect of mechanochemical treatment conditions on hydrotalcite particle size distribution*
- P137** D. Mańko, A. Zdzienicka, B. Jańczuk. *The wettability and the adhesion of rhamnolipid to the polytetrafluoroethylene surface*
- P138** D. Mańko, A. Zdzienicka, B. Jańczuk, D. Rymuszka. *The adsorption of rhamnolipid at the PTFE-water surface*
- P139** O. Goncharuk, , E.Skwarek, W.Janusz, E.M. Pakhlov, V.I. Zarko, V.M. Gun'ko. *Hydrophilic-Hydrophobic Properties of Hydroxyapatite/Fumed Oxides Composites*