

Programme of the 19th International Conference-School
“Advanced Materials and Technologies 2017”

Date: 27-31 August, 2017

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

August 27, Sunday

14:00 – 20:00 Arrival and registration

August 28, Monday

Chairman Sigítas Tamulevičius

8:30 – 9:00 Registration

9:00 – 9:15 Opening

9:15 – 10:45 **Gediminas Niaura** (Center for Physical Sciences and Technology, Lithuania)
Surface-Enhanced Raman Spectroscopy for Analysis of Structure and Function of Adsorbed Biomolecules

10:45 – 11:05 Coffee Break

11:05 – 11:50 **Saulius Marcinkevičius** (Royal Institute of Technology, Sweden)
Scanning Near-Field Optical Spectroscopy: Principles and Applications in Semiconductor Research

11:50 – 13:20 **Willi Pabst** (University of Chemistry and Technology, Czech Republic)
Effective Elastic and Thermal Properties of Heterogeneous Materials

13:20 – 18:00 Break

18:00 – 21:00 Discussions and Welcome Party

August 29, Tuesday

Chairman Aivaras Kareiva

8:30 – 9:00 Registration

9:00 – 9:45 **Vitaly Bondarenko** (Belarusian State University of Informatics and Radioelectronics, Belarus)
Silicon-on-Insulator Structures: Brief History, State of the Art and Future Development

9:45 – 11:15 **Lenka Zajíčková** (Masaryk University, Czech Republic)
Principles of Plasma Polymerization and its Perspectives in Bioapplications

11:15 – 11:35 Coffee Break

11:35 – 12:20 **Gil Rosenman** (Tel Aviv University, Israel)
Peptide Optical Waveguides: Physics and Applications

12:20 – 13:00 **Julia Fedotova** (Belarusian State University, Belarus)
Nanostructured Multilayered Thin Films Co/Pt and Co/Pd with Perpendicular Magnetic Anisotropy: Correlation of Morphology, Structure and Magnetic Properties

13:00 – 14:00 **William M. Cox** (Corrosion Management Ltd., United Kingdom)
Corrosion Control – Philosophy and Practice

14:00 – 16:00 Break

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

August 30, Wednesday*Chairman Pranciškus Vitta*

- 8:30 – 9:00** Registration
- 9:00 – 10:00** Jacek Fiutowski (University of Southern Denmark, Denmark)
Organic-Plasmonic Systems
- 10:00 – 10:45** Kęstutis Jarašiūnas (Vilnius University, Lithuania)
Light Induced Dynamic Gratings: Applications and Perspectives
- 10:45– 11:05** Coffee Break
- 11:05 – 11:50** Aivaras Kareiva (Vilnius University, Lithuania)
Sol-Gel Design of Bioceramics
- 11:50 – 12:35** Artūras Žalga (Vilnius University, Lithuania)
Synthesis and Properties of Oxide Ion Conductors as Electrolytes for Solid Oxide Fuel Cells
- 12:35 – 15:30** Break
- 15:30 – 18:00** Poster Session *Chairman Tomas Tamulevičius*
- 15:30 – 16:30 Poster Session I (P1 – P55)
- 17:00 – 18:00 Poster Session II (P56 – P110)
- 18:00 – 18:30** Conference photo, Awards and Certificates

August 31, Thursday*Chairman Kęstutis Jarašiūnas*

- 9:00 – 10:30** Mike Leszczynski (Polish Academy of Sciences, Poland)
Main Material Issues in GaN-Based Laser Diode Technology
- 10:30 – 11:15** Pranciškus Vitta (Vilnius University, Lithuania)
Lighting Technologies of the XXI Century, How Market Expectations Are Surpassed
- 11:15 – 11:30** Closing Remarks

Poster Session. August 30, Wednesday, 15:30 – 18:00

Poster Session I (P1 – P55) 15:30 – 16:30
Poster Session II (P56 – P110) 17:00 – 18:00

SURFACE ENGINEERING AND NANOSTRUCTURES

P1	Andrius Dzedzickis, Vytautas Bučinskas, Nikolaj Šešok, Igor Iljin, Ernestas Šutinys, Artūras Ulčinas, Inga Morkvėnaitė-Vilkončienė. <i>High-Speed Atomic Force Microscope</i>
P2	Maksym Yu. Barabash, Roman V. Litvin, Vladislav E. Martynchuk. <i>Spectroscopy of Thin Copper Layers on Glass Substrate</i>
P3	Aušrinė Jurkevičiūtė, Linas Šimatonis, Sergej L. Prischepa, Tomas Tamulevičius. <i>Characterization of Femtosecond Laser Ablated Graphene Employing Raman Spectroscopy and Spectroscopic Ellipsometry</i>
P4	Jūratė Petronienė, Aura Kisieliūtė, Inga Morkvėnaitė-Vilkončienė, Arūnas Ramanavičius. <i>Evaluation of Quinone Toxicity for Yeast <i>Saccharomyces cerevisiae</i> by Scanning Electrochemical Microscopy</i>
P5	Virginija Kleivaitė, Rimvydas Milašius. <i>Inequality of Electrospun Nanofibrous Webs and Their Structure Estimation</i>
P6	Salvador Pérez Huertas, Konrad Terpiłowski, Marta Tomczyńska-Mleko, Stanisław Mleko. <i>Physicochemical Properties of Gelatin/Egg White Albumin Mixed Gels</i>
P7	Michał Chodkowski, Paweł Bryk, Konrad Terpiłowski. <i>Determination of Wetting Temperature of Silicon Wafers</i>
P8	Konrad Terpiłowski, Agnieszka Ewa Wiącek, Małgorzata Jurak, Agata Gozdecka. <i>Wettability of Polysaccharide-Metal Oxide Composite</i>
P9	Aldona Jagminienė, Loreta Tamašauskaitė-Tamašiūnaitė, Ina Stankevičienė, Eugenijus Norkus. <i>Accelerating Additives for Electroless Silver Deposition</i>
P10	Arvydas Juozapas Janavičius, Saulius Daugėla, Romaldas Purlys, Ringaudas Rinkūnas. <i>Silicon Carbide's Films Production with X-Rays</i>
P11	Ina Stankevičienė, Aldona Jagminienė, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus. <i>Morpholine Borane as a Reducing Agent for Electroless Cobalt Deposition</i>
P12	Jolita Jablonskienė, Virginija Kepenienė, Jūratė Vaičiūnienė, Audrius Drabavičius, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus. <i>Synthesis of Graphene Based Platinum-Cobalt Nanoparticles for Methanol and Ethanol Electro-Oxidation</i>
P13	Zita Sukackienė, Vitalija Jasulaitienė, Arnas Naujokaitis, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus. <i>Characterization and Investigation of Electroless Deposition of Cobalt-Boron-Tungsten Coatings on Copper Surface</i>
P14	Jūratė Vaičiūnienė, Zita Sukackienė, Tautvydas Tuminauskas, Arnas Naujokaitis, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus. <i>Electroless Deposition of Nickel-Boron Films from Glycine Containing Solutions</i>
P15	Dominika Gilek, Katarzyna E. Hnida, Grzegorz D. Sulka. <i>Characteristic of Semiconducting InSb Nanowires Synthesized via Pulse Electrodeposition</i>
P16	Ieva Beleckaitė, Ramūnas Adomavičius, Arūnas Krotkus, Mindaugas Gedvilas, Mantas Gaidys, Gediminas Račiukaitis. <i>Laser Induced Periodic Surface Structures on the GaAs Surface Investigated by THz Emission Measurements</i>
P17	Domas Balčiūnas, Deivis Plaušinitis. <i>Study of Pyrrole Adsorption and Electropolymerization on Au Surface from Acetonitrile Solutions</i>
P18	Daina Upskuvienė, Virginija Kepenienė, Algirdas Selskis, Loreta Tamašauskaitė-Tamašiūnaitė. <i>Comparison of the Electrocatalytic Activity of GNPs Deposited on the Surface of Carbon using Different Deposition Methods</i>
P19	Lucyna Hołysz, Konrad Terpiłowski, Salvador Pérez Huertas, Marta Tomczyńska-Mleko, Stanisław Mleko. <i>Investigation of the Effect of Low Temperature Plasma and κ-Carrageenan on Wettability of Gelatin Layers</i>
P20	Michał Mielniczek, Konrad Terpiłowski, Lucyna Hołysz, Salvador Pérez Huertas, Michał Chodkowski. <i>Surface Properties of Gelatin Gels Deposited on the Plasma Activated Glass Support</i>
P21	Alexander Petrov, Marta Yarmolich, Nikolay Kalanda, Jan Macutkevic, Juras Banys. <i>Preparation of the Sr₂FeMoO_{6-δ} Nanopowder By The Citrate-Gel Technology And The Ultrasound Dispersion</i>
P22	Simonas Ramanavičius, Arūnas Jagminas. <i>Synthesis of Cobalt Ferrite Nanoparticles by Thermal Decomposition Method</i>
P23	Agnė Lagė, Kristina Ancutienė. <i>Research of Fibrous Materials Thermo-Physiological Comfort Properties</i>
P24	Iryna Yaremchuk, Halyna Petrovska, Volodymyr Fitio, Yaroslav Bobitski. <i>Modeling, Fabrication and Characterization of Au-Coated GaAs Gratings for Sensing Application</i>
P25	Liudmyla Storozhuk, Nataliya Iukhimenko. <i>Multi-Core Particles of Modified with Silanes Magnetic Iron Oxides for Hyperthermia</i>
P26	Andrius Rimkus, Evelina Pozingytė, Ramūnas Nedzinskas, Julius Kavaliauskas, Bronislovas Čechavičius, Gintaras Valušis, Lianhe Li, Edmund H. Linfield. <i>Optical Investigation of InGaAs/GaAs Quantum Rods Grown Using As₂ and As₄ Sources</i>
P27	Joanna Grudzień, Kamil Kamiński, Magdalena Jarosz, Maria Nowakowska, Grzegorz D. Sulka. <i>Bacterial Biofilm Formation on Novel Gold/Polycation Substrates</i>
P28	Aleksandr Lebedev, Jelena Škamat, Olegas Černašėjus, Rimvydas Stonys, Raimonda Lukauskaitė, Nikolaj Višniakov. <i>Composite Ni-based Coatings with Spherical Al₂O₃ Microceramics</i>
P29	Povilas Balčiūnis, Mindaugas Andrulevičius, Linas Puodžiukynas. <i>Structurisation of Periodic Structures Using Laser Interference Lithography</i>
P30	Alexandr Belosludtsev, Kęstutis Juškevičius, Lukas Ceizaris, Romanas Samuilovas, Sandra Stanionytė, Vitalija Jasulaitienė, Rytis Buzelis. <i>Scandium Oxide Films Prepared by Reactive Magnetron Sputtering for Laser Optics Application</i>
P31	Tomas Druga, Tomas Grinys. <i>Patterning of Erbium Oxide on Silicon for Gallium Nitride Epitaxy Technology</i>

- P32 **Krystyna Mika, Leszek Zaraska, Grzegorz D. Sulka.** *Electrochemical Synthesis of ZnO Nanostructures in Alkaline Electrolytes*
- P33 **Elina Pajuste, Gunta Kizane, Sergey Yu. Sokovnin, Vladislav G. I'ives, Ieva Igaune, Karlis Vonda.** *Photoluminescence and Thermally Stimulated Luminescence of Carbon Doped Aluminium Oxide Nanopowders Irradiated with Accelerated Electrons*
- P34 **Modestas Vainoris, Natalia Tsyntsaru, Henrikas Cesiulis.** *Electrochemical Deposition of Cobalt Foams for Water Electrocatalysis*
- P35 **Giedrius Abromavičius, Tomas Juodagalvis, Rytis Buzelis, Simonas Kičas.** *Plasma Treatment of Fused Silica Substrates*
- P36 **Anna Pawlik, Grzegorz D. Sulka.** *Apatite-Forming Ability of Anodic Titanium Oxide Layers*
- P37 **Rokas Žalnėravičius, Arūnas Jagminas.** *L-lysine Coated Fe-Doped Magnetic Nanoparticles are Promising Material for Multidrug Resistant Microorganisms Threat*
- P38 **Nadia Khinevich, Kseniya Girel, Tatyana Khrustaleva, Vladislav Khrustalev, Hanna Bandarenka.** *Study of Protein Molecules by SERS-Spectroscopy*
- P39 **Sergey Zavatski, Hanna Bandarenka, Kseniya Girel, Vitaly Bandarenko.** *Deposition of Gold Nanoparticles on the Porous Silicon and Study of their Structure and Optical Properties for SERS Applications*
- P40 **Ilze Gūtmane, Rihards Vidzickis.** *Woodworking Cutting Hand Tool Systematization and Structuring*
- P41 **Agnė Mikalaukaitė, Arūnas Jagminas, Jūratė Vaičiūnienė.** *Amino Acids-Mediated Synthesis of Superparamagnetic Cobalt Ferrite Nanoparticles*
- P42 **Tomas Klinavičius, Linas Šimatonis, Mindaugas Juodėnas, Aušrinė Jurkevičiūtė, Andrius Pulauskas, Kęstutis Jankauskas, Rytis Maskeliūnas, Armantas Ostreika, Tomas Tamulevičius.** *Human Perception-based Rendering of Dot-matrix Hologram Images*
- P43 **Mindaugas Juodėnas, Tomas Tamulevičius, Joel Henzie, Dainius Virganavičius, Svajūnas Korsakas, Sigitas Tamulevičius.** *Deposition of Ag Nanocubes into Regular Arrays by Tailored Self-Assembly*
- P44 **Erika Rajackaitė, Rimantas Gudaitis, Sigitas Tamulevičius.** *Formation and Characterization of Graphene Films on Copper Substrates*

ELECTRONIC AND OPTICAL MATERIALS

- P45 **Hamid Reza Hamedj, Julius Ruseckas, Gediminas Juzeliūnas.** *Slow Optical Solitons in Combined Lambda and Tripod Atom Light Coupling Schemes*
- P46 **Rytis Šamelis, Mindaugas Andrulevičius, Linas Puodžiukynas.** *Synthesis and Analysis of Acrylamide Based Composite Photopolymer*
- P47 **Birutė Šimkūnaitė-Stanyrienė, Leonas Naruškevičius, Vidas Pakštas, Algirdas Selskis, Loreta Tamašauskaitė-Tamašiūnaitė, Eugenijus Norkus.** *Deposition of Thin ZnS Layers by the SILAR Method*
- P48 **Aura Kisieliūtė, Jūratė Petronienė, Inga Vilkončienė-Morkvėnaitė, Arūnas Ramanavičius.** *Cyclic Voltammetry for Probing Redox Activity of Saccharomyces cerevisiae*
- P49 **Dmytro Volyniuk, Iryna Hladka, Roman Lytvyn, Oleksandr Bezikonny, Algirdas Lazauskas, Juozas V. Gražulevičius.** *Thermally Activated Delayed Fluorescence of Acridan-Substituted Decafluorobiphenyl Derivative*
- P50 **Martynas Skapas, Marek Kolenda, Arūnas Kadys, Roland Tomašiūnas.** *Electron Microscopy of InN-Based Diode Grown by MOCVD*
- P51 **Mantas Račiūnas, Nur Ūnal, Egidijus Anisimovas, André Eckardt.** *Fractionally Charged Excitations in a Restricted-Geometry Lattice*
- P52 **Iryna Hladka, Roman Lytvyn, Oleksandr Bezikonny, Dmytro Volyniuk, Juozas V. Gražulevičius.** *Bipolar Oxadiazole Derivatives with High Triplet Energies*
- P53 **Milda Tamošiūnaitė, Simonas Indrišiūnas, Vincas Tamošiūnas, Linas Minkevičius, Ramūnas Šniaukas, Andrzej Urbanowicz, Gediminas Račiukaitis, Irmantas Kašalynas, Gintaras Valušis.** *Laser-Ablated Antireflective and Phase Shifting Structures for Terahertz Range Optical Systems*
- P54 **Kazimieras Badokas, Tomas Grinys, Tadas Malinauskas.** *Optical and Structural Characterization of Semi-Polar and Non-Polar GaN Grown on Si/Er₂O₃ Substrates*
- P55 **Līga Avotina, Roberts Zarins, Elina Pajuste, Marina Romanova, Juris Bitenieks, Janis Zicans, Aleksandrs Zaslavskis, Jurijs Dehtjars, Gunta Kizane.** *Influence of Ionizing Radiation on the Si₃N₄ Coatings on Si Substrate*
- P56 **Akvilė Zabaliūtė-Karaliūnė, Henrikas Dapkus, Pranciškus Vitta, Andrius Petrulis, Andrius Žukauskas.** *The Design and Characterization of Phosphor-Converted LED Luminary of Preferential Colour Rendition*
- P57 **Giedrius Žlabys, Egidijus Anisimovas.** *Optical Ladder Lattices with Tunable Flux*
- P58 **Mantas Dmukauskas, Marek Kolenda, Arūnas Kadys, Tadas Malinauskas, Martynas Skapas, Jūras Mickevičius, Roland Tomašiūnas.** *Metalorganic Chemical Vapor Deposition Pulsed Growth Technique Influence on In Segregation in InGaN QWs*
- P59 **Nerijus Armakavicius, Jr-Tai Chen, Tino Hofmann, Sean Knight, Philipp Kühne, Mengyao Xie, Enrique Calleja, Ming-Shien Hu, Daniel Nilsson, Urban Forsberg, Erik Janzén, Mathias Schubert, Vanya Darakchieva.** *Studies of Free Charge Carrier Properties in AlGaIn and InGaIn Based Structures by Infrared and Terahertz Optical Hall Effect*
- P60 **Sandra Stanionytė, Vaidas Pačebutas, Bronislovas Čechavičius, Virginijus Bukauskas, Andrejus Geižutis, Arūnas Krotkus.** *GaInAsBi Layers: Growth, Characterization and Applications*
- P61 **Justina Aglinskaitė, Akvilė Zabaliūtė-Karaliūnė, Pranciškus Vitta.** *Frequency Resolved Phosphor Thermometry under High Excitation Density Conditions*
- P62 **Vladislovas Čižas, Pranciškus Vitta.** *Investigation and Optimization of the Solid-state Luminaires for Street Lighting*

- P63 **Domantas Peckus, Tomas Matulaitis, Tomas Tamulevičius, Jūratė Simokaitienė, Viktorija Mimaitė, Dmytro Volyniuk, Marius Franckevičius, Vidmantas Gulbinas, Sigitas Tamulevičius, Juozas V. Gražulevičius.** *Ultrafast Relaxation Dynamics in New Bipolar Dendritic Molecules Comprising of Various Cores and Triphenylamine-Based Arms*
- P64 **Margarita Baitimirova, Guido Petersons, Roman Viter, Jana Andzane, Mikhael Bechelany, Donats Erts.** *Optical Properties of ZnO/Bi₂Se₃ Heterostructures*

CERAMICS

- P65 **Saulius Daugėla, Vilma Venckutė, Antonija Dindune, Dagnija Valdniece, Aija Krumina, Martynas Lelis, Vitalija Jasulaitienė, Andrius Maneikis, Tomas Šalkus, Algimantas Kežionis, Antanas F. Orliukas.** *Preparation, Structure, Surface and Impedance Spectroscopy of Na₂Zn_{0.5}Mn_{0.5}P₂O₇ Ceramics*
- P66 **Giedrė Gaidamavičienė, Artūras Žalga.** *Sol-gel Synthesis, Crystal Structure and Surface Morphology of CaMoO₄, SrMoO₄ and Ca_{0.5}Sr_{0.5}MoO₄ Ceramics*
- P67 **Aleksey V. Pashchenko, Nikita A. Liedienov, Vasiliy K. Prokopenko, Vasyl P. Kladko, Aleksandr I. Gudimenko, Dmitriy D. Tatarchuk, Yuriy V. Didenko, Aleksey T. Kozakov, Igor V. Fesykh, Sergiy A. Nedil'ko.** *Influence of Annealing Temperature on Defectiveness and Functional Properties of the Bi_{1-x}La_xFeO_{3-δ} Multiferroics*
- P68 **Nikolay Kalanda, Marta Yarmolich, Alexander Petrov, Dong-Hyun Kim, Seong-Cho Yu, Suhk Kun Oh.** *Obtaining and Investigations of Magnetoresistive Characteristics of Sr₂FeMoO_{6-δ} Nanoceramics with Dielectric Sheaths*
- P69 **Halyna Klym.** *Technologically Modified MgO-Al₂O₃ Nanoceramics Characterized by XRD and XPS Methods*
- P70 **Laurynas Alinauskas, Živilė Stankevičiūtė, Inga Grigoravičiūtė, Aleksej Zarkov, Aivaras Kareiva, Edita Garškaitė, Vygandas Rutkūnas.** *Preparation and Characterization of the Glass Ceramic-Whitlockite Composite for Bone Tissue Engineering*
- P71 **Virgilijus Minialga, Robertas Samavičius.** *Measurement of Magnetized Superconductor Magnetic Field*

POLYMERS AND COMPOSITES

- P72 **Tetiana V. Krupska, Katerina O. Filatova, Volodymyr V. Turov.** *A Hydration of Chitosan under the Impact of Organic Solvents*
- P73 **Ginta Laureckienė, Rimvydas Milašius.** *Comparative Analysis of Yarns Long-Lasting Stress Relaxation*
- P74 **Brigita Legaudienė, Rimvydas Milašius.** *Comparative Analysis of Weave Estimation*
- P75 **Klaudia Kubik, Andrzej S. Swinarew, Tomasz Flak, Jadwiga Gabor, Marta Łęźniak, Hubert Okła, Beata Rozwadowska, Jarosław Paluch, Anna Kwaśniewska.** *Three Dimensional Scaffolds in Reconstruction of the Larynx*
- P76 **Alisa Palavenienė, Miglė Lebedevaitė.** *Cuttlebone-derived Fillers for Dexamethasone-loaded Alginate Capsules*
- P77 **Linas Sinkevičius, Deivis Plaušinitis.** *A MIP Based Sensor for the Determination of Uric Acid*
- P78 **Einārs Sprūģis, Guntars Vaivars, Remo Merijs Meri.** *A Study of Mechanical Properties of Polymer Composite Membranes with Various Ionic Liquids at Elevated Temperatures*
- P79 **Florentina Sederavičiūtė, Jurgita Domskienė, Judita Simonaitytė.** *Bonded Seam Strength of Bacterial Cellulose Biofilm*
- P80 **Nijolė Buškuvienė, Virginija Jankauskaitė.** *Active and Intelligent Materials for Food Packaging Applications*
- P81 **Gerda Mikalauskaitė, Virginija Daukantienė.** *Investigation and Evaluation of Textile Bonds Extensibility*
- P82 **Olga Kazakova, Iryna Laguta, Oksana Stavinskaya.** *Trimethylsilylated Silica-Gelatin Composite Materials for Prolonged Drug Release*
- P83 **Virginija Skurkytė-Papievienė, Paulė Bekampienė, Audronė Sankauskaitė, Aušra Abraitienė.** *The Effect of Textile Fiber Origin on Interaction Mechanism with Microencapsulated Phase Change Material and its Thermoregulative Ability*
- P84 **Tetiana Cherevchenko, Roman Ivannikov, Lyudmila Buyun, Oksana Stavinskaya, Iryna Laguta, Oksana Dzyuba, Viktor Anishchenko.** *Composites with Antioxidant Properties based on Highly Dispersed Silica and Orchidaceae Juss. Plants Extracts*
- P85 **Bülent Zeybek, Elif Aksun.** *Electrodeposition of poly(N-methylpyrrole) on Stainless Steel in the Presence of Sodium Dodecylsulfate and its Corrosion Performance*
- P86 **Marta Kāne, Deniss Fedorenko, Guntars Vaivars, Einārs Sprūģis.** *Impedance Analysis of Ion Conducting Polymer Membranes*
- P87 **Artūras Petravičius, Donatas Petrulis, Salvinija Petruilytė.** *Natural Weathering Studies of Polypropylene Based Composite Tape Yarns*
- P88 **Aušra Gadeikytė, Rimantas Barauskas.** *Modelling and Simulation of Heat and Moisture Transport in 3D Fabric Layer*
- P89 **Inga Zotova, Edgars Kirilovs.** *Material Properties of Wood Based Boards by Producing Bent Parts*

ADVANCED ENGINEERING MATERIALS

- P90 **Laima Muralienė, Daiva Mikučionienė.** *Differentiation of Rigid Elements Used for Knitted Orthopaedic Supports*
- P91 **Lina Čepukonė, Daiva Mikučionienė.** *Functionality and Sustainability of Peat Fibre-Based Textile*
- P92 **Žaneta Juchnevičienė, Milda Jucienė, Vaida Dobilaitė, Virginija Sacevičienė.** *Analysis and Evaluation of Closed-Loop-Shaped Embroidered Element*
- P93 **Evelina Pozingytė, Renata Butkutė, Bronislovas Čechavičius, Martynas Skapas, Algirdas Selskis, Gediminas Niaura, Vytautas Karpus, Arūnas Krotkus.** *Bismuth Quantum Dots Formation in Annealed GaAsBi/AlAs Quantum Wells*
- P94 **Artūrs Kīsis, Edgars Kirilovs.** *New Innovative Joint System for Small Frame Structural Connections*
- P95 **Lina Grinevičiūtė, Laurynas Petronis, Rytis Buzelis, Ramutis Drazdys, Andrius Melninkaitis, Tomas Tolenis.**

- P96 **Nikolai Kovalchuk, Kirill Nigirish, Mikhail Mikhailik, Ivan Komissarov, Serghej Prischepa.** *Analysis of Raman Spectra of CVD Graphene Transferred on Silicon Dioxide Surface by Different Methods*
- P97 **Indrė Tautkutė-Stankuvienė, Eglė Kumpikaitė, Dovilė Redeckienė.** *Pilling Resistance of Woven Fabrics with Linen/Silk Yarns*

MATERIALS FOR ENERGY

- P98 **Giedrė Grincienė, Vidas Pakštas, Raimondas Giraitis, Arnas Naujokaitis, Jurga Juodkazytė, Marius Franckevičius.** *Characterization of Cu_2ZnSnS_4 (CZTS) Thin Films Prepared by Spray Pyrolysis and Spin Coating Techniques from Dimethylformamide Solution*
- P99 **Vidas Pakštas, Giedrė Grincienė, Raimondas Giraitis, Marius Franckevičius, Arnas Naujokaitis, Remigijus Juškėnas.** *XRD in situ Study of High Temperature Treatment of CZTS Prepared by Microwave Irradiation and Spray Pyrolysis*
- P100 **Aušrinė Zabelaitė, Loreta Tamašauskaitė-Tamašiūnaitė, Irena Stalnionienė, Svetlana Lichušina, Dijana Šimkūnaitė, Eugenijus Norkus.** *Investigation of Borohydride and Hydrazine Oxidation on Fiberlike Cobalt Coating decorated with Platinum Nanoparticles*
- P101 **Reza Meshkini Far, Alla Dyachenko, Oleksandr Bieda, Elena Ischenko.** *Ni-Fe Systems Supported onto Aluminum Oxide in the Reaction of CO_2 Methanation*
- P102 **Mykola Zhudenko, Oleksandr Bieda, Alla Dyachenko, Snizhana Gaidai, Olena Ishchenko.** *Methanation of CO_2 on Bulk and Supported Fe-Co Catalysts*
- P103 **Adriana Marinoiu, Elena Carcadea, Mircea Raceanu, Mihai Varlam, Catalin Jianu.** *High Performance Electrocatalysts for Oxygen Reduction Reaction of Fuel Cells based on Iodine Doped Graphene*
- P104 **Guntars Vaivars, Kristīne Krūkle-Bērziņa, Madara Markus.** *Sulfonated Polyether Ether Ketone (SPEEK) Membranes for Fuel Cells: Theoretical and Experimental IR Spectra*
- P105 **Dijana Šimkūnaitė, Loreta Tamašauskaitė-Tamašiūnaitė, Aldona Balčiūnaitė, Aušrinė Zabelaitė, Sigitas Jankauskas, Algirdas Selskis.** *A Platinum-Coated Titania nanotube Arrays for the Oxidation of Borohydride Ions*
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