

Programme of the 24th International Conference-School
“Advanced Materials and Technologies 2022”

Date: 22-26 August, 2022
Venue: Hotel “Gabija” (<http://www.gabija.lt/en/>)
Vytauto St. 40, LT-00160
Palanga, Lithuania

Poster sessions
August 25, Thursday, 16:00 – 17:50

Poster session A 16:00 – 16:50

METHODS OF SURFACE ANALYSIS

P1	Characterization of the Degradation of Elastomeric Gasket by Accelerated Ageing <u>Chloé Simet</u> , Marie Moreau, Karine Mougine, Florence Baly-Le Gall, Arnaud Ponche, Vincent Roucoules
P3	Estimation of Structural Stability of Tungsten-Boron Thin Films at Elevated Temperatures <u>Līga Avotina</u> , Annija Elizabete Goldmane, Edgars Vanags, Aija Trimdale-Deksne, Lada Bumbure, Marina Romanova, Hermanis Sorokins, Alexei Muhin, Aleksandrs Zaslavskis, Gunta Kizane, Yuri Dekhtyar
P5	Analysis of the Stress-Strain State of Yarn Based on the Theory of Elasticity <u>Sharof Shukhratov</u> , Rimvydas Milašius, Jakhongir Gafurov
P7	Accompanying Processes on CNTs During the Lithium Intercalation/Deintercalation from an Aqueous Solution <u>Yelyzaveta Rublova</u> , Vitalijs Lazarenko, Raimonds Meija, Vanda Voikiva, Edijs Kauranens, Artis Kons, Jana Andzane, Donats Erts

SURFACE ENGINEERING AND NANOSTRUCTURES

P9	Development of GaAsBi/GaAs MQW Technology for Applications in NIR VECSELS <u>Andrea Zelioli</u> , Algirdas Jasinskas, Simona Pūkienė, Silvija Keraitytė, Arnas Naujokaitis, Martynas Skapas, Monika Jokubauskaitė, Evelina Dudutienė, Artūras Suchodolskis, Bronislovas Čechavičius, Renata Butkutė
P11	Ultrashort Pulse Laser Irradiation as a Versatile Tool for Efficient Ablation, Surface Texturing, and Polishing <u>Andrius Žemaitis</u> , Paulius Gečys, Mindaugas Gedvilas
P13	Binding of Yeast Cells to Diamond Nanoparticles Irradiated with UV Radiation <u>Dagnis Abols</u> , Lada Bumbure, Yuri Dekhtyar
P15	Influence of Physical Vapor Deposition Synthesis Conditions on Bi₂Se₃ Nanoribbon Thickness and Surface Topology <u>Didzis Salnājs</u> , Raitis Sondors, Jana Andžāne, Donāts Erts
P17	Innovative Holographic Code to Ensure the Authenticity of Products Pranas Narmontas, Asta Guobienė, Andrius Žutautas, Mindaugas Juodėnas, Vilija Kuprėnienė, <u>Erika Rajackaitė</u> , Rasa Žostautienė, Tomas Tamulevičius, Tomas Klinavičius, Virgilijus Miniūga, Andrius Paulavičius, Šarūnas Packevičius
P19	Preparation of MIP-Based Electrochemical Sensor on MWCNTs@PDMS Nanocomposite Surfaces for TET Detection <u>Iryna Sulym</u> , Merve Yence, Ahmet Cetinkaya, Mehmet E. Çorman, Lokman Uzun, Sibel A. Ozkan

P21	Refractometric Sensing of Variable Size Noble Metal Nanoparticles on Porous Anodic Aluminum Oxide Uldis Malinovskis, Raimonds Popļausks, Aleksandrs Dutovs, <u>Karlis Berzins</u> , Vladislavs Perkanuks, Donats Erts, Juris Prikulis
P23	Hydrothermal Synthesis and Characterisation of Fe²⁺ Doped Calcium-Deficient Hydroxyapatite <u>Laura Lukavičiūtė</u> , Gabrielė Klydžiūtė, Eva Raudonytė-Svirbutavičienė, Aleksej Žarkov, Aivaras Kareiva
P25	The Evaluation of Structural Anisotropy in Nanostructured Thin Films by Autocorrelation Method <u>Mantas Slipkauskas</u> , Tomas Tolenis, Lina Grinevičiūtė
P27	Simple and Low-Cost Nickel Particles Assembly as Catalyst in Carbon Nanotube Production Using Plasma Enhanced Chemical Vapor Deposition <u>Marjan Monshi</u> , Sigitas Tamulėvičius
P29	Femtosecond Laser Micromachining Parameter Influence of Hole Quality in Porous Stainless Steel Substrates <u>Mohamed A. Baba</u> , Gazy Rodowan, Brigita Abakevičienė, Sigitas Tamulevičius, Sebastian Molin ³ , Tomas Tamulevičius
P31	Quantum-Point-Contact Modelling of the Filaments in Ta₂O₅ Resistive Switching Devices Jaime M. M. Andrade, Carlos M. M. Rosário, Stephan Menzel, Rainer Waser, <u>Nikolai A. Sobolev</u>
P33	Annealing of Austenitic Stainless Steel <u>Paulius Andriūnas</u> , Teresa Moskaliovienė, Arvidas Galdikas
P35	Highly Efficient and Switchable Chirality Transfer between Protein and Achiral Plasmonic Assemblies <u>Ziwei Zhou</u> , Martin Mayer, Anja Maria Steiner, Ningwei Sun, Patrick T. Probst, Vaibhav Gupta, Nicolás Pazos-Peréz, Ramón A. Álvarez-Puebla, Franziska Lissel, Tobias A. F. König, <u>Andreas Fery</u>

ELECTRONIC AND OPTICAL MATERIALS

P37	Thermal Modification and Analysis of changes for Innovative Tungsten Thin Films of Various Thickness <u>Annija Elizabete Goldmane</u> , Liga Avotina, Edgars Vanags, Aleksandrs Zaslavskis, Gunta Kizane, Yuri Dekhtyar
P39	THz Emission Spectra of 2D Plasmons Excited In Grating-Gated AlGaIn/GaN Heterostructures <u>Daniil Pashnev</u> , Roman M. Balagula, Justinas Jorudas, Liudvikas Subačius, Maksym Dub, Maciej Sakowicz, Pavlo Sai, Grzegorz Cywinski, Irmantas Kašalynas
P41	Effect of Different Donor Substituents of Perfluorobiphenyl on the Performance of the Derivatives in OLEDs <u>Dmytro Volyniuk</u> , Iryna Danyliv, Yan Danyliv, Oleksandr Bezikonnyi, Roman Lytvyn, Pavlo Stakhira, Juozas Vidas Grazulevicius
P43	Size Effect on Crystalline Structure and Dynamic Optical Properties of Silver Nanoparticles Nadzeya Khinevich, <u>Domantas Peckus</u> , Asta Tamulevičienė, Tomas Tamulevičius, Sigitas Tamulevičius
P45	Two Dimensional Subwavelength Optical Trap for Ultracold Atoms <u>Edvinas Gvozdiovas</u> , Gediminas Juzeliūnas
P47	Spatial Patterning of Rydberg Atoms Using Electromagnetically Induced Transparency with Optical Vortex Fields <u>Hamid R. Hamedi</u> , Viačeslav Kudriašov, Ning Jia, Jing Qian, and Gediminas Juzeliūnas
P49	Optical Spectroscopy of Upconverting K₂Bi(PO₄)(MoO₄):20%Yb³⁺,Er³⁺ Phosphors <u>Juliija Grigorjevaite</u> , Arturas Katelnikovas
P51	Characteristic Assessment of WSe₂ Thin Films Synthesized from W and WO_x Precursor Materials <u>Kevon Kadiwala</u> , Edgars Butanovs, Andrejs Ogurcovs, Martins Zubkins, Boris Polyakovs

P53	Derivatives of Triphenylamine and Dibenzothiophene-2-yl(phenyl)methanone Exhibiting Long-Lived Emission for Detection of Oxygen <u>Lesia Volyniuk</u> , Melika Ghasemi, Malek Mahmoudi, Alexander Panchenko, Dalius Gudeika1, Karolis Leitonas, Jurate Simokaitiene, Asta Dabulienė, Boris F Minaev, Dmytro Volyniuk, Juozas Vidas Gražulevičius
P55	Donor Substitution Effects on the Properties of 6-(Trifluoromethyl)quinoxaline-Based Green Emitters <u>Malek Mahmoudi</u> , Levani Skhirtladze, Dmytro Volyniuk, Jūratė Simokaitienė, Juozas V. Gražulevičius
P57	From Green to Blue: How Annealing Affects Emission Properties Acridone Derivatives with Phenoxazine Substitutes <u>Matas Gužauskas</u> , Irena Kulszewicz-Bajer, Małgorzata Makowska-Janusik, Dmytro Volyniuk, Juozas Vidas Gražulevičius
P59	Synthesis of Copper-Doped Zinc Sulfide Nanomaterials <u>Milena Dile</u> , Katrīna Laganovska, Edgars Vanags
P61	Quantum-Point-Contact Modelling of the Filaments in Ta₂O₅ Resistive Switching Devices Jaime M.M. Andrade, Carlos M.M. Rosário, Stephan Menzel, Rainer Waser, <u>Nikolai A. Sobolev</u>
P63	Triphenylethene-Carbazole-Based Molecules for the Realization of Blue and White Aggregation-Induced Emission OLEDs <u>Raminta Beresnevičiute</u> , Gintare Krucaite, Cheng-Yung Ho, Dovydas Blazevičius, Wei-Han Lin, Jhao-Cheng Lu, Chang-Yu Lin, Saulius Grigalevičius, Chih-Hao Chang
P65	Synthesis and Characterization of Blue Emitting Multicarbazoyl-Substituted Benzonitriles <u>Rita Butkute</u> , Karolis Leitonas, Dmytro Volyniuk, Juozas Vidas Gražulevičius
P67	Investigation of Methoxy-Substituted Carbazole Based Monomers and Polymers for Organic Light Emitting Diodes <u>Ronit Sebastine Bernard</u> , Viktorija Andrulėvičienė, George K. Belousov, Aliaksei A. Vaitusionak, Uliana Tsiko, Dmytro Volyniuk, Sergei V. Kostjuk, Rimantas Henrikas Kublickas, Juozas Vidas Gražulevičius
P69	Azimuthal Modulation of Electromagnetically Induced Grating Using Structured Light Seyyed Hossein Asadpour, <u>Teodora Kirova</u> , Jing Qian, Hamid Reza Hamed, Gediminas Juzeliūnas, Emmanuel Paspalakis
P71	The Application of the SCAN Density Functional to Colour Centres in Diamond <u>Vytautas Žalandauskas</u> , Marek Maciaszek, Lukas Razinkovas, Rokas Silkinis, Audrius Alkauskas
P73	UV Investigation (Optical Properties) of CdS Layers on Polypropylene Film <u>Mindaugas Matijūnas</u> , Rasa Alaburdaitė

CERAMICS

P75	Synthesis and Structural Properties of Zinc Whitlockite (Ca₁₈Zn₂(HPO₄)₂(PO₄)₁₂) <u>Aleksej Zarkov</u> , Agne Kizalaite, Vytautas Klimavicius, Aivaras Kareiva
P77	Development of Surface Analysis Methodology for High Energy Heavy Ion Irradiated Lithium Orthosilicate Based Ceramic Pellets <u>Anna Ansonė</u> , Artūrs Zariņš, Jānis Čipa, Līga Avotiņa, Karlis Shvirksts, Gunta Kizāne, Larisa Baumane
P79	X-ray Induced Defects in Lithium-Containing Ceramics Synthesized via Solid-state Reaction Route <u>Madara Tomele</u> , Mareks Senko, Artūrs Zariņš, Jānis Čipa, Ernests Einbergs, Aleksejs Zolotarjovs, Larisa Baumane, Gunta Kizāne
P81	Wood – Ceramic Composites: Analysis of GdPO₄·H₂O:Eu³⁺ Modified Wood <u>Monika Baublytė</u> , Denis Sokol, Ramūnas Skaudžius
P83	Pyrochlore and Perovskite Transparent Ceramics: Light Scattering and Optical Properties <u>Soňa Hříbalová</u> , Willi Pabst

POLYMERS AND COMPOSITES

P85	Green Synthesis, Characterization and Antimicrobial Activity of Silver Nanoparticles Synthesized by <i>Artemisia Absinthium</i> L. and <i>Thymus Vulgaris</i> L. <u>Aistė Balčiūnaitienė</u> , Pranas Viškelis, Jonas Viškelis
P87	Investigation of Dose Response in Polymer Gel Dosimetry <u>Aurimas Krauleidis</u> , Diana Adlienė
P89	Optical writing in the structure of Negative SU8 Photoresist Using up-Conversion Luminescence of Yb³⁺ and Tm³⁺ Activated Nanoparticles <u>Ernestas Tropiņš</u> , Jūlija Pervenecka, Kaspars Vītols, Viesturs T. Vīksna, Jānis Teterovskis, Jurģis Grūbe, Aivars Vembris, Jeļena Butikova, Guna Kriekē, Māris Sprinģis
P91	Thermal Properties of Sheep Wool Fibers Stored under Different Conditions <u>Janis Nesenbergs</u> , Reinis Drunka, Liga Avotina, Andris Lescinskis, Arturs Zarins, Gunta Kizane
P93	Thermoelectric properties of Flexible Encapsulated Bismuth Selenide and Carbon Nanotube Hybrid Structures <u>Krisjanis Buks</u> , Jana Andzane, Loreta Brauna, Michael Katkov, Donats Erts
P95	Fabrication of Flexible Bi₂Se₃/CNT Heterostructure-Based Thermoelectric Materials <u>Loreta Brauna</u> , Krisjanis Buks, Jana Andzane, Michael Katkov, Donats Erts
P97	A Study on Barrier Performance of Medical Face Masks Available to Lithuanian Public <u>Muhammad Usman Munir</u> , Daiva Mikučionienė
P99	4D Printing Based on Hydrogel <u>Quentin Bauerlin</u> , Xingyu Wu, Benjamin Leuschel, Loïc Vidal, Ludovic Josien, Gautier Schrodj, Damien Favier, Christian Gauthier, Thierry Roland, Karine Mougine, Arnaud Spangenberg
P101	Design of Micro-Actuators Made of Liquid Crystal. <u>Sébastien Dominici</u> , Xingyu Wu, Laurent Ranno, Nora Dempsey, Quentin Bauerlin, Karine Mougine, Arnaud Spangenberg
P103	Antimicrobial Composites for Medical Applications <u>Tomasz Flak</u> , Jadwiga Gabor, Beata Swinarew, Andrzej S. Swinarew

ADVANCED ENGINEERING MATERIALS

P105	Comparison of Optical Properties of Porous Anodized Aluminium Oxide with and without Gold Nanoparticles <u>Aušrinė Jurkevičiūtė</u> , Juris Prikulis
P107	MOVPE Growth and Investigation of Flexible Thin GaN Films <u>Dominykas Auģulis</u> , Kazimieras Badokas, Arūnas Kadys, Benjaminas Šebeka, Ilja Ignatjev, Jūras Mickevičius, Tadas Malinauskas
P109	Development of Nanofiber Sheet with Enhanced Antibacterial Activity for Potential Application in Medical Devices <u>Haleema Khanzada</u> , Egle Kumpikaite
P111	Multilayer Tubular Products from Powder Materials Viktors Mironovs, <u>Jekaterina Kuzmina</u> , Vitalijs Abramovskis
P113	Moisture Management Properties of Biodegradable Knitted Fabrics Containing Hemp and Polylactide Fibers <u>Julija Petkevičiūtė</u> , Laimutė Stygienė, Sigitas Krauledas, Aušra Abraitienė, Sandra Varnaitė-Žuravliova
P115	New Hydraulic Binder Prepared from Metakaolin, Anhydrite and Calcium Hydroxide <u>Klára Pulcová</u> , Martina Šídllová, Rostislav Šulc, Martina Kohoutková, František Škvára
P117	Zinc Oxide Nanowires for Room Temperature UV Sensors prepared by Different Coating Methods <u>Mindaugas Illickas</u> , Brigita Abakevičienė, <u>Rasa Mardosaitė</u> , <u>Simas Račkauskas</u>
P119	Investigation of 3D Weft-Knitted Fabrics for Special Purposes <u>Vaida Buzaitė</u> , Daiva Mikučionienė

MATERIALS FOR ENERGY

P121	Development and Investigation of a Single Enzyme Based Glucose Biofuel Cell <u>Algimantas Kaminskas</u> , Asta Kausaite-Minkstimiene
P123	Functional Cathode Layers in Solid Oxide Fuel Cells Prepared with the Spin-Coating Technique with the Use of a Precursor with the Addition of Methocel <u>Bartłomiej Lemieszek</u> , Sebastian Molin
P125	Energy Harvesting from Environment Using Ferroelectret Material for Powering Electronic Devices <u>Chandana Ravikumar</u> , Vytautas Markevicius
P127	Biofuel Cell Based on Prussian Blue – Modified <i>Saccharomyces Cerevisiae</i> Cells <u>Gabija Kavaliauskaitė</u> , Povilas Virbickas, Aušra Valiūnienė
P129	Evaluation of Biofuel Properties Using Thermogravimetric Analysis and Gamma Spectrometry Methods <u>Joana Špečkauskienė</u> , <u>Linas Puodžiukynas</u> , Benas Gabrielis Urbonavičius, Violeta Kaunelienė
P131	Ionic Liquids for Sodium-Ion Batteries <u>Samanta Homiča</u> , <u>Linda Briede</u> , <u>Einārs Sprūģis</u> , <u>Guntars Vaivars</u>
P133	Amphoteric Aqueous Zn-MnO₂ Battery with Potential up to 2.4 V <u>Ramona Durena</u> , Anzelms Zukuls, Martins Vanags
P135	Graphene/n-Si(100) Diode, Formed Using Transfer-Less Method, Operation in Different Thermal Conditions <u>Šarūnas Jankauskas</u> , Rimantas Gudaitis, Šarūnas Meškinis

Poster session B 17:00 – 17:50

METHODS OF SURFACE ANALYSIS

P2	Ultrasonically Induced Nanofatigue Characterization on Thin Films <u>Jurgis Daugela</u> , Antanas Daugela
P4	Application of Electrochemical Techniques for the Detection of Antibodies Against SARS-CoV-2 Spike Protein <u>Maryia Drobysh</u> , Viktorija Liustrovaite, Alma Rucinskiene, Ausra Baradoke, Almira Ramanaviciene, Ieva Plikusiene, Urte Samukaite-Bubniene, Roman Viter, Chien-Fu Chen, Arunas Ramanavicius
P6	Study on Electrochemical Immunosensor for the Detection of Specific Antibodies <u>Viktorija Liustrovaitė</u> , Maryia Drobysh, Alma Ručinskienė, Aušra Baradokė, Ieva Plikusienė, Urtė Samukaitė-Bubnienė, Roman Viter, Chien-Fu Chen, Arūnas Ramanavičius
P8	Application of electrochemical techniques for the detection of antibodies against SARS-CoV-2 Spike Protein <u>Maryia Drobysh</u> , <u>Viktorija Liustrovaite</u> , Alma Rucinskiene, Ausra Baradoke, Almira Ramanaviciene, Ieva Plikusiene, Urte Samukaite-Bubniene, Roman Viter, Chien-Fu Chen, Arunas Ramanavicius

SURFACE ENGINEERING AND NANOSTRUCTURES

P10	Introduction of Magnetic Impurities into the Bi₂Se₃ Nanowires <u>Andrei Felsharuk</u> , Kiryl Niherysh, Davis Gavars, Edijs Kauranens, Gunta Kunakova, Jana Andzane, Krisjanis Smits, Donats Erts
P12	Modeling of Crystals and RNA with X-RAYS <u>Arvydas Juozapas Janavičius</u>
P14	Production of Copper Oxide Nanowire Networks for Thermoelectric Applications <u>Davis Gavars</u> , Raitis Sondors, Jana Andzane, Donats Erts
P16	Integration of Bi₂Se₃ Nanowires in Nanoelectromechanical Devices <u>Elza Dzene</u> , Liga Jasulaneca, Raitis Sondors, Edijs Kauranens, Jana Andzane, Donats Erts

P18	New « Chameleon » Inks <u>Feriel Ghellal</u> , Karine Mougain, Guillaume Caffier, Arnaud Spangenberg
P20	Non-damaging optical determination of Nanoporous Alumina Layer Thickness During Anodization Process <u>Aleksandrs Dutovs</u> , Vladislavs Perkanuks, Irina Oliševeca, Raimonds Poplausks, Donats Erts, <u>Juris Prikulis</u>
P22	Application of Photoactivated ZnO Nanoparticles to Microbial Control of Strawberries <u>Kristina Aponienė</u> , Pranciškus Vitta
P24	Precise Drilling of Glass Ampoules by Femtosecond Laser <u>Mantas Mikalkevičius</u> , Mindaugas Juodėnas, Tomas Tamulevičius
P26	Integration of Nanostructured Sensor for the Electrochemical Detection of Biomarkers: Towards Search for Life in Space <u>Marc Keller</u> , Karine Mougain, Jérôme Launay, Delphine Faye, Vincent Vivier, Arnaud Buch, Pierre Bauer, Pierre Ponthiaux
P28	Efficiency and Quality Aspects in Laser-Milling of Aluminum Alloy Using Nanosecond, Picosecond, and Hybrid Nanosecond-Picosecond Pulses Andrius Žemaitis, Paulius Gečys, <u>Mindaugas Gedvilas</u>
P30	Surface Lattice Resonance in Silver Nanoparticle Array for Surface-Enhanced Raman Scattering Spectroscopy <u>Nadzeya Khinevich</u> , Mindaugas Juodėnas, Asta Tamulevičienė, Tomas Tamulevičius, Martynas Talaikis, Gediminas Niaura, Sigitas Tamulevičius
P32	Surface Roughness Impact on Surface Potential in TiO₂ and TiOxNy Thin Films Lada Bumbure, Yuri Dekhtyar, Linda Rozenfelde, Hermanis Sorokins, <u>Patricija Tamane</u> , Sergey Tverdokhlebov
P34	Detection of Cyanide Ions by Gold Nanorods Etching <u>Viktorija Lisyte</u> , Eimantas Bucmys, Anton Popov, Almira Ramanaviciene

ELECTRONIC AND OPTICAL MATERIALS

P36	Different Substitution Effects on the Formation and Properties of Yttrium Aluminium Garnet Greta Inkrataite, Andrius Pakalniskis, Sapargali Pazylbek, Diana Vistorskaja, Ramunas Skaudzius, <u>Aivaras Kareiva</u>
P38	Investigation of Ultraviolet Persistent Luminescence of Pr³⁺ Activated Complex Alkaline Earth Oxides <u>Dace Nilova</u> , Andris Antuzevics, Guna Krieke, Pavels Rodionovs
P40	Synthesis, Structural and Luminescent Properties of Mn-Doped Calcium Pyrophosphate (Ca₂P₂O₇) Polymorphs <u>Diana Griesiute</u> , Andris Antuzevics, Vytautas Klimavicius, Aleksej Zarkov, Arturas Katelnikovas, Aivaras Kareiva
P42	Raman Subwavelength Lattice: Time-Dependent Detuning <u>Domantas Burba</u> , Mantas Račiūnas, Ian B. Spielman, <u>Gediminas Juzeliūnas</u>
P44	New Host Material for Highly Efficient Candlelight OLED with a Very Low Color Temperature <u>Dovydas Blaževičius</u> , Gintarė Kručaitė, Saulius Grigalevicius, Nizy Sara Samuel, Shahnawaz Shahnawaz, Mangey Ram Nagar, Jwo-Huei Jou
P46	Environment Effects on Laser Induced Damage Threshold of Sculptured Thin Film Based All-Silica Mirrors <u>Gustė Dolmantaitė</u> , Lukas Ramalis, Rytis Buzelis, Tomas Tolenis
P48	New Donor-Acceptor Pyrimidine-Based Emitters, Containing Acridine, Carbazole and Phenothiazine Moieties <u>Hryhorii Starykov</u> , Jurate Simokaitiene, Juozas V. Grazulevicius
P50	Characterisation of New TADF Emitters Based on 1,4-Bis(trifluoromethyl)benzene as an Acceptor Moiety <u>Karolis Leitonas</u> , Levani Skhirtladze, Audrius Bucinskas, Dmytro Volyniuk, Malek Mahmoudi, Kai Lin Woon, Azhar Ariffin, Juozas V. Grazulevicius

P52	Exciton Migration and Recombination in Rubidium-Cesium Alloyed, Quasi-two-dimensional Perovskite <u>Lamiaa Abdelrazik</u> , Vidmanta Jasinskas, Vidmantas Gulbinas, Aurimas Vysniauskas
P54	Synthesis and Studies of Properties of Organic Semiconductors Containing Donor and Acceptor Moieties <u>Levani Skhirtladze</u> , Juozas Vidas Grazulevicius, Malek Mahmoudi, Azhar Bin Ariffin
P56	Derivatives of Benzoyl-1H-1,2,3-triazole and Carbazole as Hosts in Solution Processed White OLEDs <u>Mariia Stanitska</u> , Malek Mahmoudi, Nazariy Pokhodylo, Roman Lytvyn, Dmytro Volyniuk, Ausra Tomkeviciene, Rasa Keruckiene, Mykola Obushak, Juozas V. Grazulevicius
P58	Simulation of Squeezing Models via Laser Coupling in an Atomic Fermi-Hubbard Model <u>Mažena Mackoit-Sinkevičienė</u> , Giedrius Žlabys, Tanausú Hernández Yanes, Marcin Plodzień, Emilia Witkowska, Gediminas Juzeliūnas
P60	Synthetic Approaches to New Heterocyclic Unit Containing Conjugated Monomers and Polymers <u>Narine Durgaran</u> , Nagharsh Miraqyan
P62	Tetraphenyl Ornamented Derivative of Diphenylsulfone and Carbazole as TADF Host for OLEDs <u>Oleksandr Bezvikonnyi</u> , Dalius Gudeika, Naveen Masimukku, Dmytro Volyniuk, Chia-Hsun Chen, Wen-Cheng Ding, Jiun-Haw Lee, Tien-Lung Chiu, Juozas V. Grazulevicius
P64	Luminescence Mechanisms of AlN Materials <u>Rihards Ruska</u>
P66	Theoretical Modeling of Luminescence Lineshape in Silicon Due to a Carbon-Carbon Pair Complex <u>Rokas Silkinis</u> , Lukas Razinkovas, Audrius Alkauskas
P68	Optimization of Quantum Structures for Applications in Near-Infrared Sources <u>Silvija Keraitytė</u> , Andrea Zelioli, Arnas Pukinskas, Evelina Dudutienė, Bronislavas Čechavičius, Renata Butkutė
P70	Control of Fluorescence and Phosphorescence of Imidazo[4,5]phenazine Based Compounds <u>Viktorija Andruleviciene</u> , Karolis Leitonas, Ronit Sebastine Bernard, Dmytro Volyniuk, Juozas Vidas Grazulevicius
P72	Biased GaAs/AlGaAs Superlattice as Dissipative Parametric Amplifier in Microwaves <u>Vladislovas Čižas</u> , Liudvikas Subačius, Natalia V. Alexeeva, Dalius Seliuta, Kirill N. Alekseev, Gintaras Valušis
P74	Optimization of subwavelength diffraction grating parameters for antireflection in the optical range <u>Tomas Klinavičius</u> , Tomas Tamulevičius

CERAMICS

P76	Influence of Calcination Temperature on Morphology of Synthetic Cuspidine <u>Andrius Gineika</u> , Kęstutis Baltakys
P78	LaFeO₃ Thin Films on Silicon: Phase Purity Studies <u>Justinas Januškevičius</u> , Živilė Stankevičiūtė, Rimantas Raudonis, Aivaras Kareiva
P80	Photoluminescence Measurements of Biphasic Lithium Orthosilicate-Metatitanate Pellets <u>Mareks Senko</u> , Artūrs Zariņš, Aija Trimdale-Deksne, Aleksandrs Dutovs, Juris Prikulis, Gunta Kizāne
P82	Elastic Properties of Ceramics Determined by the Ultrasonic Method and Prediction of the Porosity Dependence of Sound Velocities <u>Petra Šimonová</u> , Willi Pabst

POLYMERS AND COMPOSITES

P84	Composite Derived from Hydroxyapatite and Iron Oxide – a Multifunctional Material <u>Adrianna Biedrzycka</u> , Ewa Skwarek
P86	Metal-Infused ABS for the Additive Manufacturing of Complex Phantom Devices and Shielding Equipment <u>Antonio Jreije</u> , Diana Adlienė
P88	Theoretical Modeling of Complex Fancy and Combined Weft-Knitted Structures <u>Edgaras Arbataitis</u> , Daiva Mikučionienė
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P92	Improvement of Hydrophobicity and Mechanical Properties of Newly Developed Banana Fiber Nonwoven Reinforced Polymer Composites <u>K. Z. M. Abdul Motaleb</u> , Rimvydas Milašius
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