

APMAS 2021

**11th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS
SCIENCE CONGRESS & EXHIBITION**

ENEFM 2021

**7th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY & ENERGY
RELATED MATERIALS**

INTERM 2021

8th INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

BIOMATSEN 2021

6th INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

NANOMACH 2021

**2nd INTERNATIONAL CONFERENCE ON NANOMATERIALS,
NANOFABRICATION AND NANOCHARACTERIZATION**

INTERPHOTONICS 2021

3rd INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH

OCTOBER 17-23, 2021

**Liberty Hotels Lykia, Oludeniz
MUGLA / TURKEY**

TENTATIVE POSTER PROGRAM**THURSDAY, OCTOBER 21, 2021****14:30-16:30****FOYER (Poster Session Area)**

Chairperson: A. Yavuz Oral

POSTER SESSION**(APMAS2021-ENEFM2021-INTERM2021-BIOMATSEN2021-NANOMACH2021- INTERPHOTONICS2021)**

ID	Title	Contact Author
APMAS1718	Growth conditions influence on Quantum Cascade Lasers	Karolis Stašys
APMAS1735	Kinematics of the “Ai-Gerim” Robot Arm	Zhumadil Baigunchekov & Natalia Tintaru (Tsyntsaru)
APMAS1740	SMARTELECTRODES: Pre-sulfurization assisted defect treatment in CZTSSe absorbing material	Vidas Pakstas
APMAS1742	SMARTELECTRODES: electrochemistry of bismuth interlayers in (Bi ₂) _m (Bi ₂ Te ₃) _n superlattice	Aliaksei Bakavets
APMAS1743	SMARTELECTRODES: Influence of the composition on the properties of the modified surface layer generated on steel by electrospark alloying	Vladimir Petrenko
APMAS1754	How stenosis can influence the hemodynamics flow in a coronary artery	Liubov Toropova
APMAS1755	Towards nucleation and evolution of ellipsoidal particles in metastable liquids	Dmitri Alexandrov
APMAS1757	Radiation resistance of synthesized under different conditions ZrO ₂ micro- and nanostructured compacts	Alma Dauletbekova
APMAS1759	In-depth Raman spectroscopy study of radiation damages induced by swift heavy ion irradiation in polycrystalline Si ₃ N ₄	Abdirash Akilbekov
APMAS1763	CARBON/COKE FORMATION ON THEVARIOUS SYNTHETIC AND NATURAL CARRIER-BASED NICKEL OXIDE CATALYST SURFACES IN THE DRM REACTION	Manshuk Mambetova
APMAS1765	THE BOUNDARY INTEGRAL EQUATION FOR THE GROWTH OF A 2D DENDRITE IN THE PRESENCE OF CONVECTION	Ekaterina Titova

APMAS1772	INFLUENCE OF THE NATURE OF CARRIERS ON THE ACTIVITY OF THE IRON CATALYST IN THE DECOMPOSITION OF METHANE	Gaukhar Yergaziyeva
APMAS1774	Degradation diagnosis and durability assessment of a SRT composite material submitted to endurance test	Eduard-Marius Lungulescu
APMAS1775	Cu-Au nanoparticle solutions with broad-spectrum antimicrobial properties used as disinfectants for highly contaminated surfaces	Eduard-Marius Lungulescu
APMAS1777	Formation of surface self-assembled organosilicon nanolayers on carbon steel and its effect on electrochemical and corrosion behavior of the metal	Maxim Petrunin
APMAS1782	The mechanical properties of Mediterranean wild silk fibres	Ružica Brunšek
APMAS1784	Improvement of liquid Sulfur filtration process	Meriem ESSAKHRAOUI
APMAS1785	Improvement of phosphoric acid concentration unit by scale reduction	Meryem CHAFAI
APMAS1789	Ship Loading and Capacity Utilization	Nourhan I. Ghoneim
APMAS1791	Development of Biodegradable Nonwoven Agrotexiles from Natural and Renewable Sources	Dragana Kopitar
APMAS1796	Biodegradability of Modacryl/Cotton Plied Yarns	Ivana Schwarz
APMAS1797	Influence of Carbon Yarn Arrangement on Fabric Electrical Conductivity	Ivana Schwarz
APMAS1798	Statistical analysis of the dynamic enhancement of reinforcement steel properties: The Case of the Johnson-Cook model	Egidijus Rytas Vaidogas
APMAS1799	Different Yarn Behaviours During the Abrasion Process	Ana Kalazic
APMAS1800	Investigation of linker rotation dynamics in ZIF-8, ZIF-67 and ZIF-90 metal-organic frameworks using broadband dielectric spectroscopy	Juras Banys
APMAS1801	Water Vapour Transmission of Thermal Protective Woven Fabrics	Snježana Brnada
APMAS1810	New design of orthosis	Nicolae Dan BATALU
APMAS1815	New intuitive regularizing approaches for deconvolution problems	Dmitry Sorokoletov
APMAS1816	Investigation of the Morphology of Red Blood Cells in those who died from Hypothermia by Scanning Electron and Atomic Force Microscopy	Revo Alekseev
APMAS1818	Structural – energy state of adsorption layer of YSZ-nanopowder system at hydration	Svitlana Lyubchyk

APMAS1827	Morphological characterization of polydopamine coated surfaces	Diana Bogdan
APMAS1828	Solid-state NMR as a powerful tool in polydopamine characterization	Claudiu Filip
APMAS1833	Solder layer influence on the Thermal Parameters of Insulated Gate Bipolar Transistors (IGBTs)	Agata Skwarek
APMAS1836	Using One Dimensional Convolutional Neural Networks for Classifying the Vibration of Process Pipework	Jamil Renno
APMAS1838	Mechanical Characteristics of Ultra-High Performance Steel FRC Made with Recycled Concrete Aggregates	Wael Alnahhal
APMAS1849	The development of manufacturing technology of refractory products from waste of ferrochrome production	Sergey Fomenko
APMAS1856	Oxidation of CO and benzene over metal nanoparticles loaded on hierarchical ZSM-5 zeolite	Yuri Kalvachev
APMAS1881	Synthesis of narrowband gap binary semiconductor for enhancement of thermoelectric figure of merit	Gotan Jain
APMAS1894	SMARTELECTRODES: Electrospark Alloying One of the Advanced Methods for Physical-chemical Processing of Metals at "TOPAZ"	Inna Linnic
APMAS1901	Azimuthally asymmetric gyrotron cavities for selective excitation of symmetric TE modes	Mikhail Proyavin
APMAS1903	Gyrotron complexes for microwave material processing	Mikhail Proyavin
APMAS1905	Properties of PbO-Bi ₂ O ₃ -Ga ₂ O ₃ glasses modified by addition of Ag ₂ O and Sb ₂ O ₃ to form Ag nanoparticles	Petr Kostka
APMAS1906	PbCl ₂ – Bi ₂ O ₃ – TeO ₂ glasses: preparation and physical properties	Petr Kostka
ENEFM29	3 ω thermal conductivity measurements on type-I clathrate nanowires	Monika Budnowski
ENEFM30	Gold-Nickel Catalysts Supported on Titanium for Borohydride Oxidation Designed by Femtosecond Laser Structuring and Chemical Modification	Eugenijus Norkus
ENEFM31	Conversion of Black Liquor to Highly Active Nitrogen-Doped Carbon for Oxygen Reduction Electrocatalysts	Loreta Tamasauskaite-Tamasiunaite
ENEFM33	Synthesis and characterization of 3D NiCu foams on Ti surface for borohydride oxidation	Aldona Balčiūnaitė

ENEFM38	Manganese Nanoparticles Doped Graphitic Carbon Nitride Electrocatalyst for Oxygen Reduction	Ausrine Zabielaite
ENEFM40	Gold Nanoparticles Modified 3D Copper-Nickel Metallic Foams for the Electrooxidation of Sodium Borohydride	Žana Činčienė
ENEFM47	Implications of Next Generation Memory Materials for Green Data Centers	Hyokyung Bahn
ENEFM63	Band gap Modified Metal oxide Nanomaterials for Visible Light Absorption	Reenamole G Georgekutty
INTERM540	X-Ray apparatus with spatial resolution of ≥ 2 microns and time resolution of 1 ns.	Aleksandr Gribov
INTERM550	The study of pH and aging time influence on waste derived-MCM-41 mesoporous silica material properties by microscopic and spectroscopic analysis	Jarosław Madej
INTERM551	Sorption potential towards CO ₂ and microscopic analysis of Na-X and Na-A zeolites obtained from waste	Rafał Panek
BIOMATSEN358	Hydrogen production using selective serotonin reuptake inhibitors in microbial electrolysis cells	Tunc Catal
BIOMATSEN369	Saccharide interactions with glucose-binding proteins	Maciej Trzaskowski
BIOMATSEN378	For Rapid Determination of Target Bacterium by Using Magnetic Preconcentration of Samples an Adaptable Approach for QCM System	Gülay BAYRAMOĞLU
BIOMATSEN395	Development of a lateral flow biosensor using gold nanoparticle conjugated antibodies for point-of-care detection of uropathogenic Escherichia coli	Cebraıl Karakus
NANOMACH683	Triple perovskite-based triboelectric nanogenerator: a facile method of energy harvesting and self-powered information generator	Igor Djerdj
NANOMACH691	Enhancement of the water-resistance properties of cassava residues by fatty acid addition	Tarinee Nampitch
NANOMACH704	A Multi-Technique Approach to Characterize the Adsorption of Plasma Proteins on Layered Double Hydroxides	Brindusa Dragoi

NANOMACH706	Efficacy of dental materials in terms of apparent mineral density restoration assessed by X-ray microtomography	Evgeniy Sadyrin
NANOMACH707	Mathematical modeling of indentation of FGM coatings	Andrey Vasiliev
NANOMACH708	Simplified analytical solution of the contact problem on indentation of a coated half-space by a conical punch for interpretation of nanoindentation tests	Sergei Aizikovich
NANOMACH709	Synthesis and research of ZnO nanorods for applications in nanoelectronics	Andrei Nikolaev
NANOMACH714	New graphene structures for energy storage in lithium-ion batteries	Karolina Wenelska
INTERPHOTONICS544	Study Of Human Platelets Spectral Homogeneity By SERS Technique	Ilia Samusev
INTERPHOTONICS551	Spectroscopic ellipsometry characterization of glass poling and electric field assisted dissolution processes	Jordi Sancho Parramon