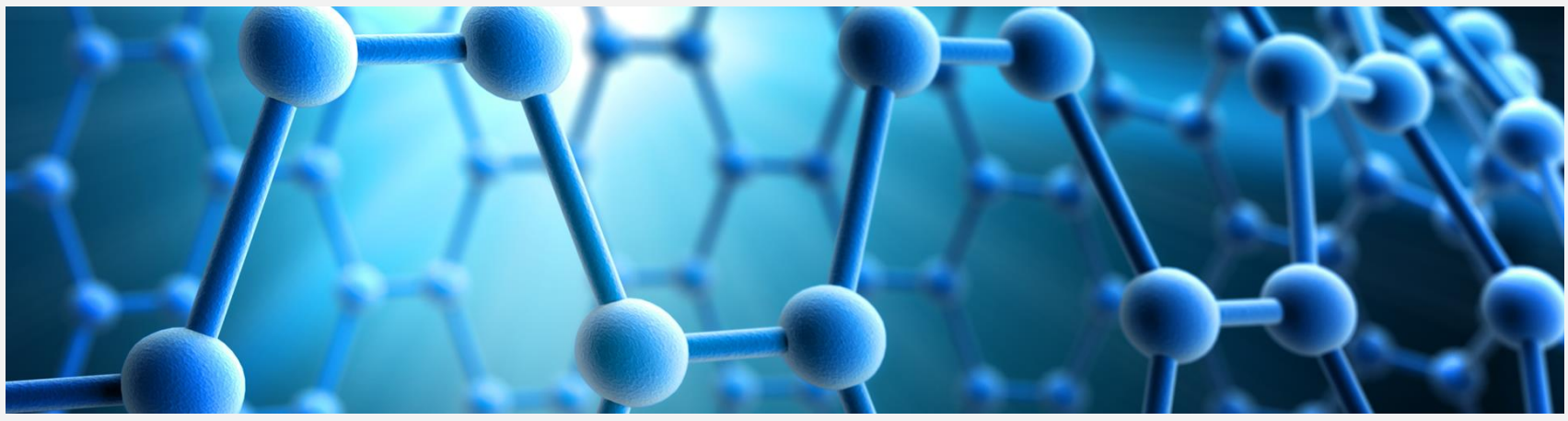
THE PROGRAM TIMETABLE



APMAS2021-ENEFM2021-INTERM2021-BIOMATSEN2021-NANOMACH2021- INTERPHOTONICS2021

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

P R O G R A M ***FRIDAY, OCTOBER 15, 2021***	
14:00-23:30	***REGISTRATION FOR EARLY ARRIVALS*** ***(14:00 Check-in)***

P R O G R A M ***SATURDAY, OCTOBER 16, 2021***	
9:00-23:30	***REGISTRATION*** ***(14:00 Check-in)***
Everyday Tours	***SOCIAL PROGRAM*** • ***Saklıkent Jeep Safari*** • ***Paragliding in Oludeniz***

P R O G R A M ***SUNDAY, OCTOBER 17, 2021***	
YUNUS EMRE 1	
OPENING SESSION *11:00-11:15*	Chairperson: **A.Yavuz ORAL** ***OPENING CEREMONY*** **A.Yavuz ORAL**
PLENARY SESSION *11:15-12:00*	Chairperson: **A.Yavuz ORAL** **M.Alper SAHINER** Seton Hall University, USA **PLENARY SPEAKER** **"Phase Identification in $HfZrO_2$ Ferroelectric Thin Films: DFT and X-ray Absorption Fine-Structure Spectroscopy"**
12:00-14:00	***LUNCH***
PARALLEL SESSIONS *14:00-15:30*	***APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS***
	YUNUS EMRE 1 / ***ARISTO***

	Chairperson: **Vladimir Popok** (14:00-14:30) **Vladimir Popok** Aalborg University, Denmark (Invited Speaker) **ID374-** "Matrices of Gas Aggregated Metal Nanoparticles for Enhancement of SALDI MS" (14:30-14:50) **Olga Hendrickson** Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation **ID387-** Lateral flow immune sensors for phycotoxins: Improved assays and new reactants for sensitive detection (14:50-15:10) **Gokcen Yasayan** Marmara University, Turkey **ID384-** Nanotextured films encapsulating doxorubicin hydrochloride for cancer treatment	Chairperson: **Ivan Kelnar** (14:00-14:30) **Ivan Kelnar** Institute of Macromolecular Chemistry, ASCR, Czech Republic (Invited Speaker) **ID681-** "Nano-modified epoxy: effect of GO modification on formation of nacre-like structures" (14:30-15:00) **M. Natália D. S. Cordeiro** LAQV-REQUIMTE, University of Porto, Portugal (Invited Speaker) **ID682-** "Covalent Functionalization of Graphene by PAMAM Dendrimer and Its Implications on Graphene's Dispersion and Cytotoxicity" (15:00-15:30) **Dina Deyneko** Lomonosov Moscow State University, Russian Federation (Invited Speaker) **ID558-** Green-Emitters Ca8ZnGd1-xTbx(PO4)7 WITH β-Ca3(PO4)2-Type Structure
15:30-15:50	***COFFEE BREAK***	
PARALLEL SESSIONS *15:50-17:20*	***APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS***	
	YUNUS EMRE 1	***ARISTO***
	Chairperson: **Agata Krywko-Cendrowska** (15:50-16:20) **Agata Krywko-Cendrowska** University of Basel, Switzerland (Invited Speaker) **ID400-** "Self-assembly of amphiphilic triblock copolymers into versatile sensing platforms using a microfluidic approach" (16:20-16:40) **Iheb Bouzaiane** European university of Lefke, Northern Cyprus **ID65-** Development and Implementation of a smart SCADA System for hybrid PV-Wind installation (16:40-17:10) **Dana Seyringer** Vorarlberg University of Applied Sciences, Research Centre for Microtechnology, Austria (Invited Speaker) **ID526-** **"**Arrayed waveguide gratings for photonics applications"	Chairperson: **Aykut Yakup** (15:50-16:20) **Aykut Yakup** Bursa Uludag University, Turkey (Invited Speaker) **ID717-** **"**Ceramic Nanofibrous Structures for DNA Damage Detection" (16:20-16:50) **Marek Wiśniewski** Nicolaus Copernicus University in Toruń, Poland (Invited Speaker) **ID684-** **"**Carbon Quantum Dots – known but still mysterious" (16:50-17:20) **Farid Abed** American University of Sharjah, United Arab Emirates (Invited Speaker) **ID1891-** "Thermo-Mechanical Behavior of AISI 4140 and MMFX Steel at Different Temperatures and Strain Rates"

PROGRAM

MONDAY, OCTOBER 18, 2021

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

PARALLEL SESSIONS *10:00-12:00*

YUNUS EMRE 1	ARISTO	EFLATUN
Chairperson: **Sefik Suzer** (10:00-10:30) **Sefik Suzer** Bilkent University, Turkey (Invited Speaker) **ID541-** "Localized X-Ray Photoelectron Impedance Spectroscopy for Liquid/Solid Interfaces" (10:30-11:00) **Michal Horak** Brno University of Technology, Czech Republic (Invited Speaker) **ID539-** "Imaging of electric and magnetic near fields of plasmonic antennas by EELS" (11:00-11:30) **Balazs Illes** Budapest University of Technology and Economics, Department of Electronics Technology, Hungary (Invited Speaker) **ID535-** "Microstructural investigation of SnAgCu-TiO2 composite solder alloys" (11:30-12:00) **Marek Kojdecki** Military University of Technology, Poland (Invited Speaker) **ID549- "**Characterization of crystalline microstructure in polycrystalline materials by analyzing powder X-ray diffraction patterns"	Chairperson: **Tayfun Babadagli** (10:00-10:30) **Tayfun Babadagli** University of Alberta, Canada (Invited Speaker) **ID26-** "Next Generation Techniques for Ecofriendly-High Efficiency Recovery of Heavy Oil/Bitumen" (10:30-11:00) **Nicolae Marinescu** Transilvania University of Brasov, Romania (Invited Speaker) **ID298-** "Assessing the Evolution of the Romanian Renewable Energy Market" (11:00-11:20) **Ekaterina Politova** Semenov Institute of Chemical Physics RAS, Russian Federation **ID1805-** Preparation and characterization of dielectric, ferroelectric and piezoelectric properties of lead-free ceramics on the base of sodium-bismuth titanate and sodium-potassium niobate (11:20-11:40) **Igor Perevyazko** Saint Petersburg State University, Russian Federation **ID1865-** Metallo-Supramolecular Assembles based on Terpyridine and Ferrocene units: Formation, Composition and Properties in solution (11:40-12:00) **Mikhail Proyavin** Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation **ID1898-** Recent results of new additive technology CMPS of manufacturing elements of vacuum electronic devices	Chairperson**: Alexander Andrianov** (10:00-10:30) **Alexander Andrianov** Ioffe Physical Technical Institute, Russia (Invited Speaker) **ID504-**Excitonic THz luminescence from semiconductors (10:30-11:00) **Humeyra ORUCU** Ege Üniversitesi, Turkey (Invited Speaker) **ID563-**Luminescent Phosphors as Optical Temperature Sensing Materials (11:00-11:30) **Ivana Panžić** University of Zagreb, Croatia (Invited speaker) **ID513-**Influence of Al doping on morphology and electrical properties of ZnO nanorods (11:30-12:00) **Jozef Chovan** Slovak Centre of Scientific and Technical Information, International Laser Centre, Slovakia (Invited Speaker) **ID548-**Temperature Stability of Fiber Array to Photonics Chip Butt Coupling

12:00-13:15	***LUNCH***
13:15-18:00	***SOCIAL PROGRAM*** ***13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS*** ***(Gathering at Congress registration desk)***

P R O G R A M

TUESDAY, OCTOBER 19, 2021

PLENARY SESSION *10:00-10:45*

Chairperson**: A.Yavuz ORAL**

Darya ALONTSEVA
East Kazakhstan Technical University, Kazakhstan
PLENARY SPEAKER

"Increasing the Efficiency of Microplasma Spraying of Zr Wire Coatings on Small Parts by Selecting the Optimal Spraying Parameters"

10:45-11:00 ***COFFEE BREAK***

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

PARALLEL SESSIONS *11:00-12:20*

YUNUS EMRE 1	**ARISTO**	**EFLATUN**
Chairperson: **Marek Godlewski** (11:00-11:30) **Marek Godlewski** Institute of Physics Polish Academy of Sciences, Poland (Invited Speaker) ID334- "Thin films of oxides grown by ALD – New bio and medical applications" (11:30-11:50) **OANA-ELENA Carp** "Petru Poni" Institute of Macromolecular Chemistry, Romania ID376- Evaluation of antioxidant properties using Electrochemistry combined with in vitro peroxidation and reducing assays (11:50-12:10) **Maciej Trzaskowski** Warsaw University of Technology, Centre for Advanced Materials and Technologies, CEZAMAT, Poland ID368- Portable Surface Plasmon Resonance Detector for COVID-19	Chairperson: **SAULIUS Rudys** (11:00-11:30) **Saulius Rudys** Institute of Applied Electrodynamics and Telecommunications, Vilnius University, Lithuania (Invited Speaker) **ID1803-** "Measurement of magnetic permeability using various methods" (11:30-11:50) **Recep Yılmaz** TUBITAK National Metrology Institute (TUBITAK UME), Turkey **ID1857**- Interlaboratory Pressure Comparison Measurement in Hydraulic Medium up to 400 MPa Range (11:50-12:10) **Can Yesilyurt** Istanbul University, Turkey **ID1870-** **CANCELED** characterization of nano-scale devices based on anisotropic Weyl semimetals	Chairperson: **Gaku Egucki** (11:00-11:30) **Gaku Egucki** Institute of Solid State Physics, TU Wien, Austria (Invited Speaker) ID17- "Giant transport anisotropy in a cubic thermoelectric material" (11:30-11:50) **Vinodkumar Etacheri** IMDEA Materials Institute, Madrid, Spain ID299- High performance Mg and Mg-Li/Na-ion hybrid batteries through defect engineering of metal oxide electrodes (11:50-12:20) **Juma Haydary** Slovak University of Technology in Bratislava, Slovakia (Invited Speaker) ID300- A novel two stage pyrolysis/splitted product gasification (PSPG) system for biomass conversion

12:20-13:30	***LUNCH***		
	APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS		
PARALLEL SESSIONS *13:30-15:50*	**YUNUS EMRE 1**	**ARISTO**	**EFLATUN**
	Chairperson: **Adina Arvinte** (13:30-14:00) **Adina Arvinte** "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania (Invited Speaker) ID377- "Bimetallic Based Nanostructures for Electrochemical Sensing Applications" (14:00-14:30) **Viacheslav Barsukov** Kyiv National University of Technologies and Design, Ukraine (Invited Speaker) **ID1830- "**Composite Paints for Electromagnetic Shielding" (14:30-15:00) **George R. Ivanov** University of Architecture, Civil Engineering and Geodesy, Bulgaria (Invited Speaker) ID382- "Chemical Nano Biosensors Based on Novel Phenomena in Langmuir and Langmuir-Blodgett Films from A Lipids and Phospholipids" (15:00-15:20) **Mariana Ionita** University Politehnica of Bucharest, Romania ID327- Ectopic ostegenesis of bioinspired composite scaffold with graphene oxide filling and hydroxyapatite gradient density (15:20-15:50) **Jean-Yves Raty** University of Liege, Belgium (Invited Speaker) **ID1832- "**Metavalent Bonding: Characterization and Implications for Applications in Phase Change Materials, Thermoelectric and Photovoltaic compounds"	Chairperson**: Juras Banys** (13:30-14:00) **Juras Banys** Vilnius University, Lithuania (Invited Speaker) **ID1734- "**PECULIARITIES OF DIPOLAR ORDERING IN MIXED CATION HALIDE PEROVSKITES**"** (14:00-14:30) **Lavinia Curecheriu** Alexandru Ioan Cuza University, Romania (Invited Speaker) **"**Role of critical parameters (composition, phase superposition and grain size) on the electrocaloric properties of BaZrxTi1-xO3 ceramics" (14:30-14:50) **Abdulazim Marafi** Kuwait Institute for Scientific Research, Kuwait **ID1821-** The Role of R&D Toward Fossil Fuels to Clean Environmentally Friendly Fuels (14:50-15:10) **Recep Yılmaz** TUBITAK National Metrology Institute (TUBITAK UME), Turkey **ID1858-** The Influence of Liquids on Dynamic Pressure Transducers Performance by Using Dropping Mass Method (15:10-15:30) **Recep Yılmaz** TUBITAK National Metrology Institute (TUBITAK UME), Turkey **ID1859-** Calibration of Pressure Balances (15:30-15:50) **Ulviye Bunyatova** Baskent University, Turkey **ID1841**- Photosynthesized extra small silver nanoparticles: Structural evaluation and antimicrobial potential	Chairperson: **Maarten Vanierschot** (13:30-14:00) **Maarten Vanierschot** KU Leuven, Belgium (Invited Speaker) ID53- **"**COMBINED TRANSIENT HEAT AND MASS TRANSFER MODELING OF SOLAR POWERED FOOD DRYERS" (14:00-14:30) **Venko Beschkov** Bulgarian Academy of Sciences, Bulgaria (Invited Speaker) ID07- **"**Bioelectrochemical Processes for Wastewater Treatment" (14:30-15:00) **Bauer Ernst** TU Wien, Austria (Invited Speaker) ID27- "Improving thermoelectricity of Heusler compounds: stucture – property relations" (15:00-15:30) **Baran Sarac** Austrian Academy of Sciences - Erich Schmid Institute of Materials Science, Austria (Invited Speaker) ID58- **"**Pd- and Ti-based Metallic Glasses: Electrochemical Hydrogen Activity and Corrosion Properties" (15:30-15:50) **Vladislavs Bezrukovs** Engineering Research Institute Ventspils International Radio Astronomy Centre of Ventspils University of Applied Sciences, Latvia ID56- Forecasting wind energy density distribution in the Baltic States based on NEWA atlas
15:50-16:00	***COFFEE BREAK***		
	APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS		
	YUNUS EMRE 1	***ARISTO***	***EFLATUN***

PARALLEL SESSIONS *16:00-17:40*	Chairperson: **Zdenko Vizintin** (16:00-16:30) **Zdenko Vizintin** Fotona, Slovenia (Invited Speaker) **ID531-**Unique Features of Non-Ablative ERYAG Laser in Medical Therapies (16:30-16:50) **Krzysztof Sielicki** West Pomeranian University of Technology in Szczecin, Poland **ID699-** Single-atom catalyst based on Al-MOF for Oxygen Evolution Reaction (16:50-17:10) **Klaudia Maślana** West Pomeranian University of Technology, Poland **ID700-** Development of high active material based on nickel nanoparticles on cellulose platform for electrochemical applications (17:10-17:30) **Zdenko Vizintin** Fotona, Slovenia **ID532-** Increased Popularity of Picosecond Lasers in Aesthetic Medicine	Chairperson: **Leontin Padurariu** (16:00-16:30) **Leontin Padurariu** Alexandru Ioan Cuza University of Iasi, Romania (Invited Speaker) **ID1883-** "Exploiting local field inhomogeneity for tunning functional properties in ferroelectric based composites" (16:30-16:50) **Khaled Youssef** Qatar University, Qatar **ID1749-** The effect of graphene structural integrity on the thermoelectric behavior of bismuth telluride (16:50-17:10) **Yury Philippov** Joint Institute for Nuclear Research, Russian Federation **ID1834-** Diagnostic tools for multiphase flows in cryogenics, LNG- and oil industry (17:10-17:40) **Miklos Gratzl** Case Western Reserve University, USA (Invited Speaker) **ID536-** "Drug Delivery into Single Cancer Cells and 3D Multicellular Constructs: Dynamic Microscopy and Spectral Analysis"	Chairperson: **Elena Alekseeva** (16:00-16:30) **Elena Alekseeva** Saint Petersburg University, Russian Federation (Invited Speaker) **ID28-** "Energy storage properties of NiSalen type polymer and its composites at low-temperature" (16:30-16:50) **Oytun Erdemir** ADM Elektrik Dağıtım A.Ş, Turkey **ID49-** Differentiating Technical and Non-Technical Losses in Electricity Distribution Systems (16:50-17:10) **Ance Plavniece** Latvian State Institute of Wood Chemistry, Latvia **ID67-** Biomass based Carbon Materials for Fuel Cells

PROGRAM

WEDNESDAY, OCTOBER 20, 2021

PLENARY SESSION *09:00-09:45*

Chairperson**: A.Yavuz Oral**

Thomas WEBSTER
Northeastern University, USA
CANCELED

"The Past, Present, and Future of Nanomedicine: Battling COVID-19, Making Implantable Sensors, 4D Printing and More!"

09:45-10:00 ***COFFEE BREAK***

PARALLEL SESSIONS *10:00-12:00*

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

YUNUS EMRE 1	**ARISTO**	**EFLATUN**
Chairperson: **George Kalosakas** (10:00-10:30) **George Kalosakas** University of Patras, Greece (Invited Speaker) **ID1871-** "Modeling phonons and mechanical properties of 2-dimensional materials" (10:30-11:00) **Seniz R. Kushan Akın** Çankaya University, Turkey (Invited Speaker) ID388- "Antibacterial Properties of Si_3N_4 Based Ceramics" (11:00-11:20) **Sanat Tolendiuly** Institute of Combustion Problems, Kazakhstan **ID1853-** Study of Physico-Chemical Properties of Refractory Materials Synthesized from Metallurgical Waste (11:20-11:40) **Sergey Gudoshnikov** National University of Science and Technology «MISiS», Russian Federation **ID1809-** Scanning magnetometer based on a magnetoimpedance sensor for nondestuctive evaluation of materials containing magnetic nanoparticles (11:40-12:00) **Ramunas Levinas** Vilnius University, Lithuania **ID1744-** SMARTELECTRODES: Scaling up from 2D to 3D Electrodes and Unifying Methods of their Catalytic Activity Characterization Using EIS	Chairperson: **A.Yavuz Oral** (10:00-10:30) **Melinda David** Transilvania University of Brasov, Romania (Invited Speaker) ID391- "Electrochemical biotransducers for label-free analysis of biomolecules: from proof of concept to medical applications" (10:30-11:00) **Philippe Mesini** Institute Charles Sadron, France (Invited Speaker) ID552- "Study of the polymorphism of an organogel: nanotube to crystallites transition" (11:00-11:30) **Jose Mustre** Cinvestav, Mexico (Invited Speaker) ID471- "X-ray absorption near edge spectroscopy used to determine local atomic structure of ions in solution. The case of as in water" (11:30-11:50) **Alexander Georgievich Savelyev** FSRC «Crystallography and Photonics» RAS, Russian Federation ID381- Cell-friendly hydrogel fiber fabrication for biomedical applications	Chairperson**: Ersin Kayahan** (10:00-10:30) **Sergey Klimonsky** Lomonosov Moscow State University, Russian Federation (Invited Speaker) ID559-SERS substrates from inverse opal photonic crystal films (10:30-11:00) **Vesna Janicki** Ruder Boskovic Institute, Croatia (Invited Speaker) ID550-Optical characterization of spin coated Ag/polymer nanocomposite film on soda-lime glass substrate (11:00-11:30) **Victor Koledov** Kotel'nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation (Invited Speaker) ID553-Mechanical Nano-Manipulation for the Novel Single Photon Sources with Hybrid Nanoantennas (11:30-12:00) **Svetlana Von Gratowski** *Kotel'nikov* Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation (Invited Speaker) ID561-Creating CNT based devices for nanophotonics, nanoplasmonics, metasurfaces, THZ generation using nano-manipulation

12:00-13:15 ***LUNCH***

13:15-18:00 ***SOCIAL PROGRAM***

13:15-18:00 ***GHOST TOWN & BLUE LAGOON***

(Gathering at Congress registration desk)

PROGRAM

THURSDAY, OCTOBER 21, 2021

PARALLEL SESSIONS 10:00-13:00

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

YUNUS EMRE 1

Chairperson: **Vilko Mandic**

(10:00-10:30)
Vilko Mandic
University of Zagreb, Croatia
(Invited Speaker)
ID680- "Assessment of thin-films for thermochromic application using an in-operando approach"

(10:30-11:00)
Nerija Zurauskiene
Center for Physical Sciences and Technology, Lithuania
(Invited Speaker)
ID697- "Magnetoresistive properties of advanced nanostructures based on graphene and lanthanum perovskite films for high magnetic field sensors applications"

(11:00-11:30)
Rafael Omar Torres Mendieta
Technical University of Liberec, Czech Republic
(Invited Speaker)
ID687- "Laser-mediated fabrication of nanoparticles for the decoration of nanofibrous membranes and their usage in the oil/water separation sector"

(11:30-12:00)
Brindusa Dragoi
Regional Institute of Oncology Iasi, Romania
(Invited Speaker)
ID705- "2D Nanostructured Layered Double Hydroxides for MRI and Anticancer Drug Delivery"

(12:00-12:20)
Alexandr Sirotkin
Constantine the Philosopher University in Nitra, Slovakia
ID690- Toxic effect of metal nanoparticles on ovarian cells can be prevented by their chemical modification and plant molecules

(12:20-12:40)
Sabrine Khammassi
ENSTA, France
ID703- Compressive mechanical performance of an epoxy adhesive doped with CNT, GNP and CB nanofillers

(12:40-13:00)
Saleem Akhtar
National University of Sciences and Technology, Pakistan
ID1781- Optimization of ball-milling parameters for the processing of samarium-cobalt magnetic compound using Taguchi approach

ARISTO

Chairperson: **Malgorzata Kac**

(10:00-10:30)
Malgorzata Kac
Institute of Nucelar Physics PAN, Poland
(Invited Speaker)
ID547- "Mössbauer Spectroscopy in studies of thin films and multilayers"

(10:30-11:00)
Guenther Rupprechter
TU Wien, Austria
(Invited Speaker)
ID533- "In situ Photoemission Microscopy of Catalytic Surface Reactions"

(11:00-11:30)
Svetlana Rempel
Ural Branch of the Russian Academy of Science, Russian Federation
(Invited Speaker)
ID529-Research&Development of inorganic nanoparticles for biomedical applications on the example of metal sulfides and metal oxides

(11:30-12:00)
Dmitry Wainstein
Surface Phenomena Researches Group, Russian Federation
(Invited Speaker)
ID548- "Features of microstructure and composition of 18th century Dutch tiles revealed by SEM, XRF, XPS, and TOF-SIMS"

(12:00-12:20)
Aleksandr Shishlov
JSC "SRC RF TRINITI", Russian Federation
ID532- X-Ray microscope with high spatial resolution (of ≥ 2 microns) and time resolution of 1 ns

(12:20-12:40)
Elina Ushanova
Peter the Great Polytechnic University, Russian Federation
ID553- EBSD analysis application to study evolution of deformation structures in materials science

(12:40-13:00)
Asiful Seikh
King Saud University, Saudi Arabia
ID1880- Electrochemical behavior of high Molybdenum Maraging Steel in neutral, acidic and alkaline media

13:00-14:30 — ***LUNCH***

14:30-16:30

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION

(APMAS2021-ENEFM2021-INTERM2021-BIOMATSEN2021-NANOMACH2021- INTERPHOTONICS2021)

PROGRAM

FRIDAY, OCTOBER 22, 2021

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

PARALLEL SESSIONS *10:00-12:00*

	YUNUS EMRE 1	ARISTO
	Chairperson: **Henrikas Cesiulis** (10:00-10:30) **Natalia Tintaru (Tsyntsaru)** Institute of Applied Physics/Vilnius University, Moldova (Invited Speaker) **ID1738-** "SMARTELECTRODES: electrodeposited foams/nanostructured with large specific area suitable for catalytic, sensing and magnetic applications" (10:30-11:00) **Henrikas Cesiulis** JSC Elektronikos Perdirbimo Technologijos / Vilnius University, Vilnius, Lithuania (Invited Speaker) **ID1739-** "SMARTELECTRODES: new way of recovering metals from electronic waste by electrowinning" (11:00-11:30) **Cristina Elena Ciomaga** Institute of Interdisciplinary Research, Al. I. Cuza University of Iasi, Romania (Invited Speaker) **ID1886-** "Effect of porosity on dielectric, ferroelectric and piezoelectric properties in BaTiO3- based materials" (11:30-11:50) **Cem Karakaya** Mesan Kilit A.Ş., Turkey **ID1884-** Process Improvement Using Biodegradable Material Within the Scope of Sustainability	Chairperson: **Albina Valeeva** (10:00-10:30) **Albina Valeeva** Institute of Solid-State Chemistry of the Ural Branch of the Russian Academy of Sciences, Russian Federation (Invited Speaker) **ID530-** "In situ disordering of nonstoichiometric monoxides of IV-V groups by means of transmission electron microscope" (10:30-11:00) **Alexandra Ushakova** Gazpromneft-Technological Partnership, Russian Federation (Invited Speaker) **ID18-** "Enhanced Oil Recovery Methods for Shale Oil extraction from Bazhenov Formation" (11:00-11:30) **Badica Petre** National Institute of Materials Physics, Romania (Invited Speaker) **ID37-** "Bio-assessment of MgB2" (11:30-12:00) **Kirill Larin** University of Houston, USA (Invited Speaker) **ID475-** Emerging Methods of Optical Elastography for Ocular Biomechanics
12:00-13:15	***LUNCH***	
13:15-18:00	***SOCIAL PROGRAM*** ***13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND*** ***(Gathering at Congress registration desk)***	

P R O G R A M

SATURDAY, OCTOBER 23, 2021

PARALLEL SESSIONS *10:00-11:50*

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

YUNUS EMRE 1

Chairperson: **Janis Spigulis**

(10:00-10:30)
Janis SPIGULIS
University of Latvia, Latvia
(Invited Speaker)
ID549- **"**Advanced Multispectral and Multimodal Imaging for Skin Diagnostics"

(10:30-10:50)
Alexei Meshalkin
Institute of Applied Physics, Moldova
ID1736- SMARTELECTRODES: In situ study of chalcogenide thin films growth during vacuum thermal evaporation

(10:50-11:20)
Anton Bourdine
JSC, Russian Federation
(Invited Speaker)
ID524- **"**New 100-um-core silica laser-optimized multimode optical fibers for Gigabit data transmission over on-board and industrial networks"

(11:20-11:50)
Altay Savalan
University of Health Science, Turkey
(Invited Speaker)
ID715- "Biodistribution, Pharmacokinetics and Toxicology Study of Highly Biocompatible and Biodegradable Ag2S Near-Infrared Quantum Dots in Mice"

12:00 ***Hotel Check Out***

PROGRAM LEGEND DESCRIPTIONS	
ID-	**APMAS2021 oral presentations**
ID-	**ENEFM2021 oral presentations**
ID-	**INTERM2021 oral presentations**
ID-	**BIOMATSEN2021 oral presentations**
ID-	**NANOMACH2021 oral presentations**
ID-	**INTERPHOTONICS2021 oral presentations**

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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
APMAS1732	Naphthalene based fluorophores in organic electronics	Yulian Zagranyarski
APMAS1733	New efficient method for weak-nucleophile derivatization of functional dyes	Monika Mutovska
APMAS1735	Kinematics of the “Ai-Gerim” Robot Arm	Zhumadil Baigunchekov
APMAS1740	SMARTELECTRODES: Pre-sulfurization assisted defect treatment in CZTSSe absorbing material	Vidas Pakstas
APMAS1742	SMARTELECTRODES: electrochemistry of bismuth interlayers in $(Bi_2)_m(Bi_2Te_3)_n$ superlattice	Aliaksei Bakavets & Natalia Tintaru (Tsyntsaru)
APMAS1743	SMARTELECTRODES: Influence of the composition on the properties of the modified surface layer generated on steel by electrospark alloying	Vladimir Petrenko
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APMAS1754	How stenosis can influence the hemodynamics flow in a coronary artery	Liubov Toropova
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APMAS1757	Radiation resistance of synthesized under different conditions ZrO2 micro- and nanostructured compacts	Alma Dauletbekova
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APMAS1760	IMPREGNATION OF BENZYL-L-CYSTEINE INTO SILICA GEL FOR THE REMOVAL OF CADMIUM(II) ION FROM WATER	Ahmed Hijazi
APMAS1761	Synthesis, Spectral Characterization, Thermal, Computational and Antibacterial Studies of Lanthanide Complexes with 2-Fluorobenzoic acid-(5-R-2-hydroxy-benzylidene)hydrazide {R = Chloro or Bromo)	Ziyad Taha
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
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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
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APMAS1789	Ship Loading and Capacity Utilization	Nourhan I. Ghoneim
APMAS1791	Development of Biodegradable Nonwoven Agrotextiles from Natural and Renewable Sources	Dragana Kopitar
APMAS1796	Biodegradabilty of Modacryl/Cotton Plied Yarns	Ivana Schwarz
APMAS1797	Influence of Carbon Yarn Arrangement on Fabric Electrical Conductivity	Tea Badrov
APMAS1798	Statistical analysis of the dynamic enhancement of reinforcement steel properties: The Case of the Johnson-Cook model	Egidijus Rytas Vaidogas
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APMAS1818	Structural – energy state of adsorption layer of YSZ-nanopowder system at hydratation	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
APMAS1854	Experimental Investigation of the machining process of AISI 304 during dry metal cutting process using modern nano-coated cutting tools.	Viktors Gutakovskis
APMAS1856	Oxidation of CO and benzene over metal nanoparticles loaded on hierarchical ZSM-5 zeolite	Yuri Kalvachev
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APMAS1906	$PbCl_2$ – Bi_2O_3 – TeO_2 glasses: preparation and physical properties	Petr Kostka
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ENEFM33	Synthesis and characterization of 3D NiCu foams on Ti surface for borohydride oxidation	Aldona Balčiūnaitė
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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
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