APMAS2023
13th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS & EXHIBITION

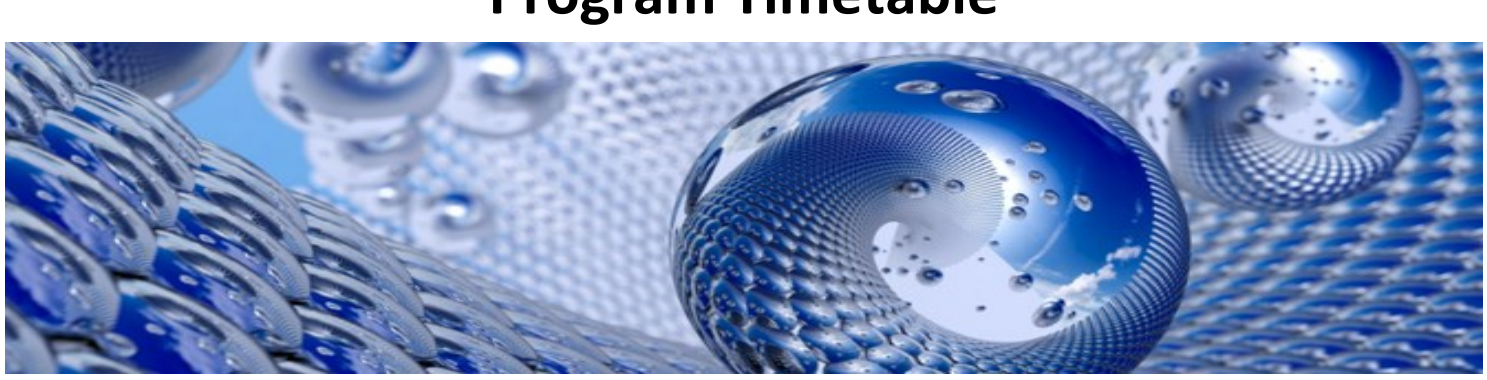
ENEFM2023
9th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND ENERGY RELATED MATERIALS

MEDOPTICS2023
2nd INTERNATIONAL CONFERENCE ON MEDICAL OPTICS

OCTOBER 11-17, 2023

Liberty Hotels Lykia, Oludeniz
MUGLA / TURKEY

Program Timetable



Please visit the website for the latest updates.

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P R O G R A M ***MONDAY, OCTOBER 9, 2023***	
14:00-16:30	***REGISTRATION FOR EARLY ARRIVALS*** ***(14:00 Check-in)***

P R O G R A M ***TUESDAY, OCTOBER 10, 2023***	
9:00-16:30	***REGISTRATION*** ***(14:00 Check-in)***
Everyday Tours	***SOCIAL PROGRAM*** • ***Saklıkent Jeep Safari*** • ***Paragliding in Oludeniz***

P R O G R A M ***WEDNESDAY, OCTOBER 11, 2023***
APMAS-ENEFM-MEDOPTICS
YUNUS EMRE 1

PLENARY SESSION *09:30-10:15*	Chairperson**: A.Yavuz Oral** **Mehmet Alper Sahiner** Seton Hall University, USA "Recent Advances in Hf Based Ferroelectric Films: Al Doped HfO_2-Structural Analysis by DFT-Assisted EXAFS Analysis"
10:15-10:30	***COFFEE BREAK***
PLENARY SESSION *10:30-11:15*	Chairperson**: A.Yavuz Oral** **Mohini M Sain** University of Toronto, Canada "Transformative Carbon Engineering Driving Our NextGen Energy and Smart Device Industry"
11:15-11:30	***COFFEE BREAK***
PLENARY SESSION *11:30-12:15*	Chairperson**: A.Yavuz Oral** **Martin Weitz** University of Bonn, Germany "Bose-Einstein Condensation of Photons and a Non-Hermitian Phase Transition"
12:30-14:00	***LUNCH***
PLENARY SESSION *14:00-14:45*	Chairperson**: A.Yavuz Oral** **Jiyun Zhao** City University of Hong Kong, Hong Kong "Boiling and condensation heat transfer enhancement in nuclear reactors"
14:45-15:00	***COFFEE BREAK***

PARALLEL SESSIONS *15:00-16:20*	**YUNUS EMRE 1** **Chairperson:** Rodion Reznik 15:00-15:30 **Rodion Reznik** Saint-Petersburg State University, Russian Federation (Invited speaker) **ID2321-** Single photon sources based on quantum dots in nanowires and other III-V nanostructures on silicon. 15:30-15:50 **Michał Zieliński** Nicolaus Copernicus University, Poland **ID2323-** Antibonding ground states in crystal phase quantum dots 15:50-16:10 **Maria Kopsakangas-Savolainen** Finnish Environment Institute and University of Oulu, Finland ID527-Socio-demographic features and electricity consumption time series in main heating mode classification	**ARISTO** **Chairperson:** Ersin Kayahan 15:00-15:30 **Lech Tomasz Baczewski** Institute of Physics PAS, Poland (Invited speaker) **ID2486-** New method of enantioseparation of chiral molecules and its importance in pharmacology and medicine 15:30-16:00 **Constantin Daniel Comeaga** University Politehnica of Bucharest, Romania (Invited speaker) ID16- Mechatronic Systems for Vibration Control in Laser Medical Instruments 16:00-16:20 **Muthumuni Managa** University Of South Africa, South Africa **ID2445-** Photodynamic activity of novel porphyrin conjugated to nanomaterials against of Escherichia coli and Staphylococcus.

16:20-16:45	***COFFEE BREAK***	
PARALLEL SESSIONS *16:45-17:45*	**YUNUS EMRE 1** **Chairperson:** Vijaya Srinivasu Vallabhapurapu 16:45-17:15 **Vijaya Srinivasu Vallabhapurapu** University of South Africa, South Africa (Invited speaker) **ID2434-** Resistive Switching Memory (ReRAM) through bio-degradable composites 17:15-17:45 **Konstantin Vorotilov** RTU MIREA, Russian Federation (Invited speaker) **ID2428-** Sol-gel films for advanced electronics applications	**ARISTO** **Chairperson:** Ersin Kayahan 16:45-17:15 17:15-17:45 **Mermut Ozzy** York University, Canada (Invited speaker) ID10- Recent Advances in Silicon Photomultipliers: Enabling New Biophotonics Discoveries and Technologies 17:45-18:15 **Cancelled** ~~**Andrei Ushkov**~~ ~~Tel Aviv Unviersity, Israel~~ ~~(Invited speaker)~~ ~~**ID31-** Mechanical and kinetical studies of vaterite-based microcapsules with optical tweezers~~

P R O G R A M

THURSDAY, OCTOBER 12, 2023

APMAS-ENEFM-MEDOPTICS

YUNUS EMRE 1

PLENARY SESSION *09:00-09:45*	Chairperson**: A.Yavuz Oral** **Thomas Ernst Müller** Ruhr-Universität Bochum, Germany “Renewable Hydrogen: A Catalyst for Sustainable Energy and Power-to-X Technologies”

09:45-10:00	***COFFEE BREAK***	
PLENARY SESSION *10:00-10:45*	Chairperson**: A.Yavuz Oral** **Xavier Moya** University of Cambridge, UK "Barocaloric materials for sustainable heating and cooling"	
10:45-11:00	***COFFEE BREAK***	
PARALLEL SESSIONS *11:00-12:30*	**YUNUS EMRE 1** **Chairperson:** Abdollah Bahador 11:00-11:30 **Abdollah Bahador** Univeristi Teknologi Malaysia, Malaysia (Invited speaker) **ID2365-** Microstructure Control in Fabrication of Novel Ti-Alloys via Powder Metallurgy and Hot Extrusion 11:30-12:00 **Shoaib Anwer** Khalifa University, Abu Dhabi, UAE (Invited speaker) **ID2504-** Engineering of electrodes with 2D MXene nanosheets for flexible high electrical power triboelectric nanogenerator 12:00-12:30 **Farzaneh Moghtader** SET Medikal San. Tic. A.S., Turkey (Invited speaker) **ID2498-** Urinary catheters: Strategies to prevent/reduce the catheter-associated urinary tract infections.	**ARISTO** **Chairperson:** Ersin Kayahan 11:00-11:30 **Milen Shishkov** Massachusetts General Hospital, USA (Invited speaker) ID24- Advancing Optical Coherence Tomography Probes for Multidimensional Intracorporeal Imaging 11:30-12:00 **Kisalaya Chakrabarti** Haldia Institute of Technology, India (Invited speaker) ID5- New advancements in the field of optical sensors (WGM and SPR) ~~**Mahmoud Huleihel**~~ ~~Ben Gurion University of the Negev, Israel~~ ~~(Invited speaker)~~ ~~**ID26-** Identification and Antibiotics Susceptibility determination of different bacteria Directly from Patients' Urine Samples by Infrared Spectroscopy~~ **Cancelled** 12:00-12:20 **Anca Aldea** National Institute of Materials Physics, Romania **ID2358**-Flexible sensors based on metallized electrospun polymeric fibers for ion detection in biological fluids.
12:30-13:15	***LUNCH***	
13:15-18:00	***SOCIAL PROGRAM*** ***13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS*** ***(Gathering at Congress registration desk)***	
19:30-21:30	***DINNER WITH APMAS INVITED SPEAKERS***	

P R O G R A M

FRIDAY, OCTOBER 13, 2023

APMAS-ENEFM-MEDOPTICS

YUNUS EMRE 1

PLENARY SESSION *09:30-10:15*

Chairperson**: A.Yavuz Oral**

Liqiu Wang
The Hong Kong Polytechnic University, Hong Kong

"Nano-/subnano-liter Droplets"

10:15-10:30 ***COFFEE BREAK***

PLENARY SESSION *10:30-11:15*

Chairperson**: A.Yavuz Oral**

Wojciech Mrozik

Newcastle University, UK

"The Future of Safe Batteries"

11:15 - 11:30 ***COFFEE BREAK***

PARALLEL SESSIONS *11:30-13:10*

YUNUS EMRE 1

Chairperson: Felix Chukhovskii

11:30-12:00
Felix Chukhovskii
Russian Academy of Sciences, Russian Federation
(Invited speaker)
ID2318- Innovation and Tendencies of The State-of-Art Computer X-Ray Diffraction Tomography. Towards To Solution of The Inverse Radon Problem for Crystal Structure Characterization

12:00-12:30
Rustem R. Zairov
Kazan Federal University, Russian Federation
(Invited speaker)
ID2544- Ln(III) chelates nanoparticles as alternatives to organic fluorescent dyes in thermo- and chemosensing

12:30-13:00
Genene Tessema Mola
University of KwaZulu-Natal, South Africa
(Invited speaker)
ID2331- Suppressing energy loss in disordered polymers blend solar absorber of thin film organic solar cell.

ARISTO

Chairperson: Aron Kneer

11:30-12:00
Aron Kneer
TinniT Technologies GmbH, Germany
(Invited speaker)
ID521- Numerical Prediction of Heat and Mass Transfer Processes in a Bioreactor with Coated Membrane-Based Adsorption Bodies

12:00-12:20
Atilla Incecik
University of Strathclyde, UK
ID504- Harnessing Energy from Oceans

12:20-12:50
Beycan Ibrahimoglu & Iskender Engin Ture
Ankara Science University, Turkey
(Invited speaker)
ID498- The Investigation of the Boundries of Liquid Phase

12:50-13:10
Levent Colak
Baskent University, Turkey
ID497-The Impact of Heat Transfer Fluid Type on Thermal Efficiency of PTC When Direct Radiation is Interrupted

12:30-14:00 ***LUNCH***

YUNUS EMRE 1

PLENARY SESSION *14:00-14:45*	Chairperson**: A.Yavuz Oral** **Wataru Setaka** Tokyo Metropolitan University, Japan **"**Dielectric Relaxation of Crystalline Molecular Gyrotops with a Dipolar Rotor"	
14:45 - 15:00	***COFFEE BREAK***	
PARALLEL SESSIONS 15:00-16:30	**YUNUS EMRE 1** **Chairperson:** Svetoslav Kuzmichev 15:00-15:30 **Svetoslav Kuzmichev** M.V. Lomonosov Moscow State University (MSU), Russian Federation (Invited speaker) **ID2526-** Direct Tunneling Probe of the Superconducting Order Parameter in EuCsFe4As4 15:30-15:50 **Krzysztof Gołacki** University of Life Sciences in Lublin, Poland **ID2492-** Stress relaxation in sugar beet root tissue 15:50-16:10 **Violeta Tsakiris** National Institute for Research and Development in Electrical Engineering ICPE-CA, Romania **ID2465**- Soft Magnetic Alloys Designed for Multilayer Electromagnetic Shielding Materials Manufactured by Magnetron Sputtering Deposition Method 16:10-16:30 **Alina Marinela Ionescu** National Institute of Materials Physics, Romania **ID2357-** The Importance of Long Time Scales Relaxation Measurements for Investigation of Vortex Dynamics in Superconductors	**ARISTO** **Chairperson:** Ersin Kayahan 15:00-15:30 **Meltem Izzetoglu** Villanova University, USA (Invited speaker) **ID18-** Role of Non-Invasive Optical Neuromonitoring in Brain Function and Injury Assessment 15:30-16:00 **George Abu-Aqil** Ben-Gurion University of the Negev, Israel (Invited speaker) **ID25-** Rapid characterization and detection of Extended-Spectrum β-Lactamase-producing bacteria isolated directly from urine by infrared spectroscopy and Random Forest 16:00-16:30 **Manal Suleiman** Ben-Gurion University of the Negev, Israel (Invited speaker) **ID34-** Application of Infrared Spectroscopy in Conjunction with Random Forest for Rapid Assessment of Bacterial Susceptibility to Antibiotics after first culture.
16:30-16:45	***COFFEE BREAK***	
16:45-17:45	**FOYER (Poster Session Area)** Chairperson: A. Yavuz Oral ***POSTER SESSION-I*** **APMAS-ENEFM-MEDOPTICS**	
19:30-21:30	***DINNER WITH ALL PLENARY SPEAKERS*** **(APMAS & ENEFM & MEDOPTICS)**	

P R O G R A M

SATURDAY, OCTOBER 14, 2023

APMAS-ENEFM-MEDOPTICS

YUNUS EMRE 1

PLENARY SESSION *09:30-10:15*

Chairperson**: A.Yavuz Oral**

Omid Mahian

Ningbo University, China

"Enhancement of energy systems performance using nanoparticles"

10:15-10:30 ***COFFEE BREAK***

PLENARY SESSION *10:30-11:15*

Chairperson**: A.Yavuz Oral**

Naceur Belgacem

University of Grenoble Alpes, CNRS, France

"Pristine and Functionalized Cellulose at The Service of Medicine"

11:15-11:30 ***COFFEE BREAK***

PARALLEL SESSIONS *11:30-12:30*

YUNUS EMRE 1

Chairperson: Abdellah Ajji

11:30-12:00
Abdellah Ajji
Polytechnique Montréal, Canada
(Invited speaker)
ID2536- Development of PVDF Piezoelectric Properties Using Fillers and Mechanical Stretching

12:00-12:20
Fatmanur Kocaman Kabil
Gebze Technical University, Turkey
ID2561- Laser-induced Graphene Coated Conductive Sponges

ARISTO

Chairperson: Ahmed Abdala

11:30-12:00
Ahmed Abdala
Texas A&M University at Qatar, Qatar
(Invited speaker)
ID520- Advanced Air-dehumidification Membranes for Energy Efficient Air-Cooling Applications

12:00-12:30
Ahmet Emre
University of Michigan, USA
(Invited speaker)
ID541- Engineering Bioinspired Nanocomposites for Next-Generation Batteries

12:30-13:15 ***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)

19:30-21:30 ***DINNER WITH ENEFM & MEDOPTICS INVITED SPEAKERS***

P R O G R A M

SUNDAY, OCTOBER 15, 2023	
APMAS-ENEFM-MEDOPTICS	
YUNUS EMRE 1	
PLENARY SESSION *09:30-10:15*	Chairperson: **A.Yavuz Oral** **Ahmed Samy Yousef Saed** Kaunas University of Technology, Lithuania “Sustainability of wind energy materials”
10:15-10:30	***COFFEE BREAK***
PLENARY SESSION *10:30-11:15*	Chairperson: **A.Yavuz Oral** **Alper Ulku** Aselsan, Turkey “Advancements and Future Prospects in FinFET Technology: Unleashing the Power of Next-Generation Transistors”
11:15-11:30	***COFFEE BREAK***
PLENARY SESSION *11:30-12:15*	Chairperson: **A.Yavuz Oral** **Manish Kumar Tiwari** University College London, UK “Nanoprecision interfaces in energy and healthcare”
12:30-14:00	***LUNCH***

	YUNUS EMRE 1	**ARISTO**
PARALLEL SESSIONS *14:00-15:30*	**Chairperson:** Katarzyna Roszek 14:00-14:30 **Katarzyna Roszek** Nicolaus Copernicus University in Torun, Poland (Invited speaker) **ID2517-** Nanobiocatalytic systems for modern enzyme-based therapies 14:30-15:00 **Dina Deyneko** Lomonosov Moscow State University, Russian Federation (Invited speaker) **ID2444-** Novel bioactive Sr^{2+}-based phosphates with whitlockite structure for bone implants 15:00-15:30 **Tatiana Kuzmicheva** Lebedev Physical Institute RAS, Russian Federation (Invited speaker) **ID2531-** Evolution of Superconducting Gap Structure of Alkali Metal Based Na(Fe,Co)As Pnictides	**Chairperson:** Ersin Kayahan 14:00-14:30 **Alexendar Sigov** MIREA - Russian Technological University, Russian Federation (Invited speaker) **ID2427-** Leakage and relaxation phenomena in ferroelectric thin films 14:30-14:50 **Bahar Şölen Akdemir Yılmaz** Gebze Technical University, Turkey **ID2560-** The Effects of The Preparation Method and Post Treatment on The Electrical Conductivity and Absorption Behavior of The PEDOT:PSS Films 14:50-15:20 **Horace Crogman** California State Dominguez Hills, USA (Invited speaker) **ID21-** Comparative Analysis of Radiation Response in Chemo-Treated BT20, 4T1 Breast Cancer, and Neuroblastoma Cancer Cell Lines through Single and Multiple Cell Ionization Using Infrared Laser Trapping 15:20-15:50 ~~**Uraib Sharaha**~~ ~~Ben Gurion University of the Negev, Israel~~ ~~(Invited speaker)~~ **Cancelled** ~~**ID29-** Monitoring the efficacy of antibiotic therapy in febrile pediatric oncology patients with bacteremia using infrared spectroscopy of leucocytes-based machine learning~~
15:30-16:00	***COFFEE BREAK***	
16:00-17:00	**FOYER (Poster Session Area)** Chairperson: A. Yavuz Oral ***POSTER SESSION-II*** **APMAS-ENEFM-MEDOPTICS**	

P R O G R A M ***MONDAY, OCTOBER 16, 2023***	
APMAS-ENEFM-MEDOPTICS	
YUNUS EMRE 1	
PLENARY SESSION *09:00-09:45*	Chairperson**: A.Yavuz Oral** **Janusz Lewinski** Warsaw University of Technology, Poland “Engineering of perovskites and ZnO quantum dots for game-changing improvements in light harvesting devices”
09:45-10:00	***COFFEE BREAK***

PLENARY SESSION *10:00-10:45*	Chairperson: **A.Yavuz Oral** **Chaohua Cui** Soochow University, China "Photovoltaic Material Design and Morphology Optimization for High-Performance Organic Solar Cells"	
10:45-11:00	***COFFEE BREAK***	
PARALLEL SESSIONS *11:00-12:10*	**YUNUS EMRE 1** **Chairperson:** Marek Wisniewski 11:00-11:30 **Marek Wisniewski** Nicolaus Copernicus University in Toruń, Poland (Invited speaker) **ID2516-** Unknown properties of Carbon Quantum Dots ~~11:30-11:50~~ ~~**Aristofan Alexandru Teișanu**~~ ~~National Institute for Research and Development in Electrical Engineering ICPE-CA, Romania~~ ~~**ID2466-** Evaluation of Multilayer Material Electromagnetic Shielding Efficiency by Two Different Measurements Methods~~ **Cancelled** 11:30-11:50 **Vala Can Askan** Gebze Technical University, Turkey **ID2557-** Effect of the Laser-Induced Graphene on Microstructural and Chemical Properties of Polyvinylidene Fluoride Thick Films	**ARISTO** **Chairperson:** Paweł Pasierb 11:00-11:20 **Paweł Pasierb** AGH University of Science and Technology, Poland **ID505-** Different approaches and strategies towards protonic conductors with improved electrical conductivity and chemical stability 11:20-11:40 **Łukasz Łańcucki** AGH University of Science and Technology, Poland **ID506-** Influence of synthesis route on physicochemical and electrochemical properties of MnO2 based electrode materials used in supercapacitors 11:40-12:00 **Zineb Bouhssine** International University of Rabat, Morocco **ID471-** Thermal Behavior of a Green Building with Recycled PET-Sand Bricks in Casablanca, Morocco
12:30-13:15	***LUNCH***	
13:15-18:00	***SOCIAL PROGRAM*** *13:15-18:00* ***GHOST TOWN & BLUE LAGOON*** ***(Gathering at Congress registration desk)***	

P R O G R A M

TUESDAY, OCTOBER 17, 2023

APMAS-ENEFM-MEDOPTICS

	YUNUS EMRE 1
PARALLEL SESSIONS *10:30-11:30*	*Chairperson:* **Vala Can Askan** 10:30-11:00 **Sergey Alexandrov** University of Galway, Ireland (Invited speaker) **ID28-** Label Free Detection of The Structure Below the Resolution Limit of The Imaging System 11:00-11:30
12:00	***Hotel Check Out***

PROGRAM LEGEND DESCRIPTIONS	
ID-	**APMAS 2023 oral presentations**
ID-	**ENEFM 2023 oral presentations**
ID-	**MEDOPTICS 2023 oral presentations**

TENTATIVE POSTER PROGRAM

FRIDAY, OCTOBER 13, 2023

16:45-17:45

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION-I

APMAS-ENEFM-MEDOPTICS

ID	TITLE	CONTACT AUTHOR
2404	Patterned interdigitated electrodes covered with ZnO nanowire arrays: preparation, characterization and optoelectronic applications	Melania Onea
2405	A comparison of electric properties nanowire FET fabricated on 2 electrode system vs 4 electrode system.	Melania Onea
2326	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTALIMIDE AS PROMISING ANTICANCER AGENTS	Konstantin Konstantinov
2364	Wire treatment for reduction of metal contamination in hot wire CVD	Akira IZUMI
2324	SYNTHESIS OF HETEROCYCLIC EXTENDED 1,8-NAPHTALIMIDES	Monika Mutovska
2401	ANTITUMOR EFFECTS INDUCED BY MAGNETIC HYPERTHERMIA USING FUNCTIONALISED MAGNETIC NANOCLUSTERS LINKED WITH DOXORUBICIN	Ioana Baldea
2351	A new water-soluble poly(propylene imine) dendrimer modified with 4-sulfo-1,8-naphthalimide units	Ivo Grabchev
2349	Enhancing the antibacterial activity of PAMAM dendrimer modified with 1,8-Naphthalimides and its copper complex via light illumination	Desislava Staneva
2397	Substituents' effect on the ultrasound assisted homodimerization of coumarins – methodology and properties	Nevena Petkova-Yankova
2398	Fine tuning of the optical properties of phosphorous containing coumarin systems by altering the substituents	Rositca Nikolova
2339	Self-associated 1,8-naphthalimide as a selective fluorescent chemosensor for detection of high pH in aqueous solutions and their Hg2+ contamination	Stanimir Stoyanov
2352	SUPRAMOLECULAR AND COVALENT ORGANIC FRAMEWORKS BASED ON 9,9'-SPIROBIFLUORENE BUILDING BLOCKS	Ioana-Georgeta Grosu
2334	Forest fire spread with non-universal critical behavior	Baara Yamina
2335	CRITICAL BEHAVIOR OF AN EXTREME FIRE "FIRE JUNCTION"	Khadidja Khelloufi

2447	Effects of doping on structural and electrical properties of Bi(Pb)-2212 superconducting ceramics	Faiza Bouaïcha
2394	Organosilicon self-assembled surface nanolayers on zinc. Formation and effect on the electrochemical and corrosion behavior of the metal	Maxim Petrunin
2442	Quarter Turn Compression Lock Design with Opening Indicator for Railway Applications	Mustafa Can
2559	Enhancing Organic Thermoelectric Materials: The Role of Sorbitol and Graphene in PEDOT:PSS Thick Films	Fatmanur Kocaman Kabil
2400	INFLUENCE OF 3D PRINTING PARAMETERS ON COC BIOCOMPATIBLE MATERIAL THZ OPTICAL PROPERTIES	Mateusz Kałuża
2525	Tin-doped Titanium dioxide film for hydrogen production from wastewater	Ahmad Ahmad
2522	Measurement of radon concentrations inside drinking water purification stations, Irbid city, Jordan	Hasan Al-khateeb
2528	CONCENTRATION OF RADON AND PHYSICOCHEMICAL PARAMETERS IN HOT SPRINGS WATER, JORDAN	Mohammed Alqadi
2527	The Antibacterial Activity of Fe3O4 Nanoparticles and Magnetite /Silver Core-Shell Nanoparticles Against Drug Resistant Bacteria	Fedda Alzoubi
2519	Ultraviolet Transmittance of Daily and Monthly Disposable Contact Lenses with UV Filters and Compliances with American National Standard Institute (ANSI) Classification	mohammad Anwar Alebrahim
2344	Processing and selected properties of polymer - sands composites	Tomasz Garbacz
2473	Europium doped carbon dots for selective and sensitive detection of tetracycline	Timur Sh. Atabaev
2461	Effect of microplasma spraying parameters on surface roughness, adhesive strength and biocompatibility of titanium coatings on titanium implants	Darya Alontseva
2533	The Use of Electron Microscopy for the Characterization of Biocompatible Materials and Robotic Microplasma-Sprayed Coatings	Alexander Krasavin
2462	In-vitro testing of microplasma sprayed Ti, Zr, Ta coatings on Ti alloy substrates: effect of coating material on implant biocompatibility	Yuliya Safarova (Yantsen)
2476	Iodine-doped carbon dots for potential use as contrast agent in computed tomography	Timur Sh. Atabaev
2475	Fabrication of two-layered porous TiO2 thin films with improved photoelectrochemical activity	Timur Sh. Atabaev
2474	Mesoporous silica particles for removal of toxic and heavy metal cations from water samples	Timur Sh. Atabaev
2367	Formation and relaxation of the second optical harmonic in glasses under the electron beam irradiation	Valentina Zhurikhina
2564	Development of Additive Technology for Robotic Microplasma Spraying of Biocompatible Coatings	Albina Kadyroldina
2386	Micro-Bulges Formation on Laser Modified Copper Surface	Viacheslav Zheleznov
447	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTHALENE AND PERYLENE MONOIMIDES	Yulian Zagranyarski

513	Thermoelectric Properties of Bi2Sr2Co2Oy Ceramics Doped with Na2B4O7 and Pb(BO2)2	Giorgi Mumladze
528	Thermoelectric Performance Enhancement of Sol-Gel Processed Bi2Sr2Co2Oy Cobaltite by BiBO3 Doping	Iamze Kvartskhava
490	Simulation Analysis on Power Consumption Reduction of Cooling System Using Waste Cooling Heat source from Liquified air	Chang-Hyo Son
489	Performance Analysis of Ultra-Low Temperature Refrigeration System for BOG Re-liquefaction	Chan-Ho Choi
491	CFD Analysis on Heat Exchanger with Inner Fins for Thermal Management of Electricity Bus	Sung-Hoon Seol
535	The Non-Isothermal Nanofluid Flow in A Lid-Driven Square Cavity with An Obstacle: An Irreversibility Analysis	Eugenia Rossi di Schio
35	Early-stage detection of herpetic infections using FTIR spectroscopy.	Eiman Abu Galiyun

TENTATIVE POSTER PROGRAM

SUNDAY, OCTOBER 15, 2023

16:00-17:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION-II

APMAS-ENEFM-MEDOPTICS

ID	TITLE	CONTACT AUTHOR
2350	HYBRID METAL@PAF MATERIALS AS SMART CATALYSTS FOR CROSS-COUPLING AND “CLICK” REACTIONS	Ion Grosu
2320	Changing of semiconductor and metalic thin film layer’s features via nanostructuring	Aliaksandr Smirnov
2383	Evolution of the dendritic envelope and primary stem structure in free dendritic growth	Liubov Toropova
2470	Modified Colloid Lithography for Amphiphilic Surface Creation	Elena Miliutina
2471	Covalent Grafting of MXene Flakes for Humidity Sensing	Vasilii Burtsev
2314	Application of track-etched membranes in membrane distillation of low-level liquid radioactive wastes and salt solutions	Ilya Korolkov
2385	Swelling kinetics of Sodium alginate-g-acrylic acid hydrogels obtained by electron beam irradiation	Elena Manaila
2384	Impact of initiator concentration and irradiation dose on structure, network parameters and swelling properties of Sodium alginate-g-acrylic acid hydrogels obtained by electron beam irradiation	Gabriela CRACIUN
2495	Impact of Low-Vacuum Level on Starch Modification via Cold Plasma	Mirela Brașoveanu
2410	Antimicrobial and antioxidant effects of liposome-encapsulated functional compounds from some forest berry leaf extracts on mayonnaise	Corina Predescu
2409	Biodegradability and ecotoxicity assessment of new agricultural hydrogels based on acrylic acid, carboxymethyl cellulose and sodium alginate	Amalia Carmen MITELUȚ
2369	SOLID-STATE INTERACTIONS BETWEEN KETOCONAZOLE-ADIPIC ACID CO-CRYSTAL AND EXCIPIENTS İN FORMULATİON DEVELOPMENT	Flavia Adina Martin
2520	Computational Simulation of Bearing Ring Forming Process with Numerical Analysis and Findings	Pavel Doležal
2425	Study of concentration series of Li+ codoped Yb:ZnWO4 laser crystals	Denis Lis
2393	SOME ENVIRONMENTAL ASPECTS OF LASER TECHNOLOGY	Vladimir Yamshchikov

2538	Development of a composite photocatalyst SrTiO3@Al/Graphene oxide for efficient hydrogen production by water decomposition	Chingis Daulbayev
2433	Resistive Switching Property of Aloe Vera: A Possible bio-ReRAM for Green Computing	Sreedevi Vallabhapurapu
2378	CRYSTALLINE SALT OF AMOURPHOUS DRUG	Maria Olimpia Miclaus
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