

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**

TENTATIVE PROGRAM MONDAY, OCTOBER 9, 2023	
<i>14:00-16:30</i>	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

TENTATIVE PROGRAM TUESDAY, OCTOBER 10, 2023	
<i>9:00-16:30</i>	REGISTRATION (14:00 Check-in)
<i>Everyday Tours</i>	SOCIAL PROGRAM <ul style="list-style-type: none">• <i>Saklıkent Jeep Safari</i>• <i>Paragliding in Oludeniz</i>

TENTATIVE PROGRAM WEDNESDAY, OCTOBER 11, 2023	
APMAS-ENEFM-MEDOPTICS	
HALL 1	

PLENARY SESSION 09:30-10:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Mehmet Alper Sahiner Seton Hall University, USA</p> <p style="text-align: center;">“Recent Advances in Hf Based Ferroelectric Films: Al Doped HfO₂-Structural Analysis by DFT-Assisted EXAFS Analysis”</p>
10:15- 10:30	COFFEE BREAK
PLENARY SESSION 10:30-11:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Mohini M Sain University of Toronto, Canada</p> <p style="text-align: center;">“Transformative Carbon Engineering Driving Our NextGen Energy and Smart Device Industry”</p>
11:15- 11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Martin Weitz University of Bonn, Germany</p> <p style="text-align: center;">“Bose-Einstein Condensation of Photons and a Non-Hermitian Phase Transition”</p>
12:30- 14:00	LUNCH
PLENARY SESSION 14:00-14:45	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Jiyun Zhao City University of Hong Kong, Hong Kong</p> <p style="text-align: center;">“ Boiling and condensation heat transfer enhancement in nuclear reactors”</p>
14:45- 15:00	COFFEE BREAK

PARALLEL SESSIONS 15:00-16:20	HALL 1	HALL 2
	<p>Chairperson: Rodion Reznik</p> <p>15:00-15:30 Rodion Reznik Saint-Petersburg State University, Russian Federation <i>(Invited speaker)</i> ID2321- Single photon sources based on quantum dots in nanowires and other III-V nanostructures on silicon.</p> <p>15:30-15:50 Michał Zieliński Nicolaus Copernicus University, Poland ID2323- Antibonding ground states in crystal phase quantum dots</p> <p>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</p>	<p>Chairperson: Ersin Kayahan</p> <p>15:00-15:30 Lech Tomasz Baczewski Institute of Physics PAS, Poland <i>(Invited speaker)</i> ID2486- New method of enantioseparation of chiral molecules and its importance in pharmacology and medicine</p> <p>15:30-16:00 Constantin Daniel Comeaga University Politehnica of Bucharest, Romania <i>(Invited speaker)</i> ID16- Mechatronic Systems for Vibration Control in Laser Medical Instruments</p> <p>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.</p>

16:20-16:45	COFFEE BREAK	
PARALLEL SESSIONS 16:45-17:45	HALL 1	HALL 2
	<p>Chairperson: Vijaya Srinivasu Vallabhapurapu</p> <p>16:45-17:15 Vijaya Srinivasu Vallabhapurapu University of South Africa, South Africa <i>(Invited speaker)</i> ID2434- Resistive Switching Memory (ReRAM) through bio-degradable composites</p> <p>17:15-17:45 Konstantin Vorotilov RTU MIREA, Russian Federation <i>(Invited speaker)</i> ID2428- Sol-gel films for advanced electronics applications</p>	<p>Chairperson: Ersin Kayahan</p> <p>16:45-17:15 Kisalaya Chakrabarti Haldia Institute of Technology, India <i>(Invited speaker)</i> ID5- New advancements in the field of optical sensors (WGM and SPR)</p> <p>17:15-17:45 Mermut Ozzy York University, Canada <i>(Invited speaker)</i> ID10- Recent Advances in Silicon Photomultipliers: Enabling New Biophotonics Discoveries and Technologies</p>

TENTATIVE PROGRAM	
THURSDAY, OCTOBER 12, 2023	
APMAS-ENEFM-MEDOPTICS	
HALL 1	
PLENARY SESSION 09:00-09:45	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Thomas Ernst Müller Ruhr-Universität Bochum, Germany</p> <p style="text-align: center;">“Renewable Hydrogen: A Catalyst for Sustainable Energy and Power-to-X Technologies”</p>

09:45-10:00	COFFEE BREAK	
PLENARY SESSION 10:00-10:45	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Xavier Moya University of Cambridge, UK</p> <p style="text-align: center;">“Barocaloric materials for sustainable heating and cooling”</p>	
10:45-11:00	COFFEE BREAK	
PARALLEL SESSIONS 11:00-12:30	<p style="text-align: center;">HALL 1</p> <p>Chairperson: Abdollah Bahador</p> <p>11:00-11:30 Abdollah Bahador Univeristi Teknologi Malaysia, Malaysia <i>(Invited speaker)</i> ID2365- Microstructure Control in Fabrication of Novel Ti-Alloys via Powder Metallurgy and Hot Extrusion</p> <p>11:30-12:00 Shoaib Anwer Khalifa University, Abu Dhabi, UAE <i>(Invited speaker)</i> ID2504- Engineering of electrodes with 2D MXene nanosheets for flexible high electrical power triboelectric nanogenerator</p> <p>12:00-12:30 Farzaneh Moghtader SET Medikal San. Tic. A.S., Turkey <i>(Invited speaker)</i> ID2498- Urinary catheters: Strategies to prevent/reduce the catheter-associated urinary tract infections.</p>	<p style="text-align: center;">HALL 2</p> <p>Chairperson: Ersin Kayahan</p> <p>11:00-11:30 Milen Shishkov Massachusetts General Hospital, USA <i>(Invited speaker)</i> ID24- Advancing Optical Coherence Tomography Probes for Multidimensional Intracorporeal Imaging</p> <p>11:30-12:00 Mahmoud Huleihel Ben Gurion University of the Negev, Israel <i>(Invited speaker)</i> ID26- Identification and Antibiotics Susceptibility determination of different bacteria Directly from Patients' Urine Samples by Infrared Spectroscopy</p> <p>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.</p>
12:30-13:15	LUNCH	
13:15-18:00	<p><i>SOCIAL PROGRAM</i></p> <p>13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS <i>(Gathering at Congress registration desk)</i></p>	
19:30-21:30	DINNER WITH APMAS INVITED SPEAKERS	

TENTATIVE PROGRAM
FRIDAY, OCTOBER 13, 2023

APMAS-ENEFM-MEDOPTICS

HALL 1

PLENARY SESSION 09:30-10:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Liqiu Wang The Hong Kong Polytechnic University, Hong Kong “Nano-/subnano-liter Droplets”</p>	
10:15-10:30	COFFEE BREAK	
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Wojciech Mroziak Newcastle University, UK “The Future of Safe Batteries”</p>	
11:15-11:30	COFFEE BREAK	
PARALLEL SESSIONS 11:30-12:50	HALL 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 12:00-12:20 Onea Melania Loredana National Institute of Material Physics, Romania ID2405- A comparison of electric properties nanowire FET fabricated on 2 electrode system vs 4 electrode system. 12:20-12:50 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	HALL 2 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 Atila Incecik University of Strathclyde, UK ID504- Harnessing Energy from Oceans
12:30-14:00	LUNCH	
PLENARY SESSION 14:00-14:45	Chairperson: A.Yavuz Oral <p style="text-align: center;">Wataru Setaka Tokyo Metropolitan University, Japan “Dielectric Relaxation of Crystalline Molecular Gyrotops with a Dipolar Rotor”</p>	
14:45-15:00	COFFEE BREAK	

PARALLEL SESSIONS 15:00-16:30	HALL 1	HALL 2
	Chairperson: Svetoslav Kuzmichev	Chairperson: Ersin Kayahan
	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	15:00-15:30 Meltem Izzetoglu Villanova University, USA (Invited speaker) ID18- Role of Non-Invasive Optical Neuromonitoring in Brain Function and Injury Assessment
	15:30-15:50 Krzysztof Gołacki University of Life Sciences in Lublin, Poland ID2492- Stress relaxation in sugar beet root tissue	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
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	16:00-16:30 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.	
16:10-16:30 Fatmanur Kocaman Kabil Gebze Technical University, Turkey ID2561- Laser-induced Graphene Coated Conductive Sponges		
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)	

TENTATIVE PROGRAM	
SATURDAY, OCTOBER 14, 2023	
	APMAS-ENEFM-MEDOPTICS
	HALL 1
PLENARY SESSION 09:30-10:15	Chairperson: A.Yavuz Oral xxx

10:15-10:30	COFFEE BREAK	
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Naceur Belgacem University of Grenoble Alpes, CNRS, France "Pristine and Functionalized Cellulose at The Service of Medicine"</p>	
11:15-11:30	COFFEE BREAK	
PARALLEL SESSIONS 11:30-12:30	<p style="text-align: center;">HALL 1</p> Chairperson: Abdellah Ajji 11:30-12:00 Abdellah Ajji Polytechnique Montréal, Canada <i>(Invited speaker)</i> ID2536- Development of PVDF Piezoelectric Properties Using Fillers and Mechanical Stretching 12:00-12:20 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	<p style="text-align: center;">HALL 2</p> Chairperson: Ahmed Abdala 11:30-12:00 Ahmed Abdala Texas A&M University at Qatar, Qatar <i>(Invited speaker)</i> ID520- Advanced Air-dehumidification Membranes for Energy Efficient Air-Cooling Applications 12:00-12:30 Ahmet Emre University of Michigan, USA ID541- Engineering Bioinspired Nanocomposites for Next-Generation Batteries
12:30-13:15	LUNCH	
13:15-18:00	<i>SOCIAL PROGRAM</i> 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND <i>(Gathering at Congress registration desk)</i>	
19:30-21:30	DINNER WITH <i>ENEFM</i> & <i>MEDOPTICS</i> INVITED SPEAKERS	

TENTATIVE PROGRAM	
SUNDAY, OCTOBER 15, 2023	
APMAS-ENEFM-MEDOPTICS	
HALL 1	
PLENARY SESSION 09:30-10:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">xxx</p>
10:15-10:30	COFFEE BREAK
PLENARY SESSION	Chairperson: A.Yavuz Oral <p style="text-align: center;">Alper Ulku Aselsan, Turkey</p>

	“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 <div style="text-align: center;"> Manish Kumar Tiwari University College London, UK “Nanoprecision interfaces in energy and healthcare” </div>	
12:30-14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:30	<div style="text-align: center;">HALL 1</div> Chairperson: Katarzyna Roszek 14:00-14:30 Katarzyna Roszek Nicolaus Copernicus University in Torun, Poland <i>(Invited speaker)</i> ID2517- Nanobiocatalytic systems for modern enzyme-based therapies 14:30-15:00 Dina Deyneko Lomonosov Moscow State University, Russian Federation <i>(Invited speaker)</i> 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 <i>(Invited speaker)</i> ID2531- Evolution of Superconducting Gap Structure of Alkali Metal Based Na(Fe,Co)As Pnictides	<div style="text-align: center;">HALL 2</div> Chairperson: Alexendar Sigov 14:00-14:30 Alexendar Sigov MIREA - Russian Technological University, Russian Federation <i>(Invited speaker)</i> 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
15:30-16:00	COFFEE BREAK	
16:00-17:00	FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION-II APMAS-ENEFM-MEDOPTICS	

TENTATIVE PROGRAM
MONDAY, OCTOBER 16, 2023

APMAS-ENEFM-MEDOPTICS

PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral <div style="text-align: center;">Janusz Lewinski Warsaw University of Technology, Poland</div> <p style="text-align: center;">“Engineering of perovskites and ZnO quantum dots for game-changing improvements in light harvesting devices”</p>	
09:45-10:00	COFFEE BREAK	
PLENARY SESSION 10:00-10:45	Chairperson: A.Yavuz Oral <div style="text-align: center;">Chaohua Cui Soochow University, China</div> <p style="text-align: center;">“Photovoltaic Material Design and Morphology Optimization for High-Performance Organic Solar Cells”</p>	
10:45-11:00	COFFEE BREAK	
PARALLEL SESSIONS 11:00-12:30	<div style="text-align: center;">HALL 1</div> Chairperson: Marek Wisniewski 11:00-11:30 Marek Wisniewski Nicolaus Copernicus University in Toruń, Poland <i>(Invited speaker)</i> ID2516- Unknown properties of Carbon Quantum Dots 11:30-11:50 Aristofan Alexandru Teişanu 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 11:50-12:10 Paweł Pasierb AGH University of Science and Technology, Poland ID505- Different approaches and strategies towards protonic conductors with improved electrical conductivity and chemical stability 12:10-12:30 Łukasz Łańcucki AGH University of Science and Technology, Poland ID506- Influence of synthesis route on physicochemical and electrochemical properties of MnO ₂ based electrode materials used in supercapacitors	<div style="text-align: center;">HALL 2</div> Chairperson:
12:30-13:15	LUNCH	
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 GHOST TOWN & BLUE LAGOON <i>(Gathering at Congress registration desk)</i>	

TENTATIVE PROGRAM
TUESDAY, OCTOBER 17, 2023

APMAS-ENEFM-MEDOPTICS	
HALL 1	
PARALLEL SESSIONS 10:30-11:30	<p><i>Chairperson: Genene Tessema Mola</i></p> <p>10:30-11:00 Genene Tessema Mola University of KwaZulu-Natal, South Africa <i>(Invited speaker)</i> ID2331- Suppressing energy loss in disordered polymers blend solar absorber of thin film organic solar cell.</p> <p>11:00-11:30 Sergey Alexandrov University of Galway, Ireland <i>(Invited speaker)</i> ID28- Label Free Detection of The Structure Below the Resolution Limit of The Imaging System</p>
12:00	<i>Hotel Check Out</i>

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
2326	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTHALIMIDE 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-NAPHTHALIMIDES	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 Hg ²⁺ 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 Fe ₃ O ₄ 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)
447	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTHALENE AND PERYLENE MONOIMIDES	Yulian Zagranyski
513	Thermoelectric Properties of Bi ₂ Sr ₂ Co ₂ O _y Ceramics Doped with Na ₂ B ₄ O ₇ and Pb(BO ₂) ₂	Giorgi Mumladze
528	Thermoelectric Performance Enhancement of Sol-Gel Processed Bi ₂ Sr ₂ Co ₂ O _y Cobaltite by BiBO ₃ 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

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 metallic 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 Braşoveanu
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 IN FORMULATION 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:ZnWO ₄ laser crystals	Denis Lis
2393	SOME ENVIRONMENTAL ASPECTS OF LASER TECHNOLOGY	Vladimir Yamshchikov

2538	Development of a composite photocatalyst SrTiO ₃ @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
2557	Laser-Induced Graphene and Structural Influence on the Polyvinylidene Fluoride	Vala Can Aşkan
2437	ESR and Low Field Microwave Absorption in Metal shell and Magnetic core Nano Particles	Tebogo Mahule
2464	Ultrasonic photoacoustic emitter of graphene-nanocomposites film on a flexible substrate	Aleš Mrzel
2372	NEW FLUORESCENT POLYMERIC MATERIALS FROM BENZANTHRONE ALLYL DERIVATIVE	Jelena Kirilova
2356	PDA@SiO ₂ nanocomposite as a platform for studying Polydopamine adhesion	Claudiu Filip
2395	Morphological characterization of Quercetine@Polydopamine coated surfaces	Diana Bogdan
2399	The effect of preliminary laser treatment of metal surfaces on joint strength and temperature during diffusion welding.	Yury Khomich
2487	Pair Breaking Effects as probed by Non-Resonant Microwave Absorption in a Ba _{0.34} K _{0.64} Fe ₂ As ₂ Single Crystal	Tshiwela Caroline Ramashitja
2563	Effect of Titanium Doping on the Porosity and Optical Properties of ZnO Thin Films Prepared by Sol-Gel Method	Onur Alp Aksan
461	Plasma gasification of alternative fuels using superheated water steam	Tomas Najser
530	Measurement of instantaneous wall stress distributions in turbulent wall flows using nm flexible mirror embedded in micro-wells	Maryam Jalali-Mousavi
459	A Technique for Analyzing and Measuring the Amount of Tar Generated Through the Thermal Decomposition of Solid Waste	Aleksandrs Pučkins
458	INVESTIGATION OF CONTAMINANTS PRESENT IN INDUSTRIAL WATER UTILIZED FOR THE COOLING OF CO-PRODUCED GASES	Sergejs Osipovs