

**APMAS2023**  
**13<sup>th</sup> INTERNATIONAL ADVANCES IN APPLIED PHYSICS &  
MATERIALS SCIENCE CONGRESS & EXHIBITION**

**ENEFM2023**  
**9<sup>th</sup> INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND  
ENERGY RELATED MATERIALS**

**MEDOPTICS2023**  
**2<sup>nd</sup> INTERNATIONAL CONFERENCE ON MEDICAL OPTICS**

**OCTOBER 11-17, 2023**

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

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

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

<b>TENTATIVE PROGRAM</b> <b>WEDNESDAY, OCTOBER 11, 2023</b>	
<b>APMAS-ENEFM-MEDOPTICS</b>	
<b>HALL 1</b>	

<b>PLENARY SESSION</b> 09:30-10:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Mehmet Alper Sahiner</b>  Seton Hall University, USA</p> <p style="text-align: center;">“Recent Advances in Hf Based Ferroelectric Films: Al Doped HfO<sub>2</sub>-Structural Analysis by DFT-Assisted EXAFS Analysis”</p>
10:15-10:30	<b>COFFEE BREAK</b>
<b>PLENARY SESSION</b> 10:30-11:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Mohini M Sain</b>  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	<b>COFFEE BREAK</b>
<b>PLENARY SESSION</b> 11:30-12:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Martin Weitz</b>  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	<b>LUNCH</b>
<b>PLENARY SESSION</b> 14:00-14:45	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Xxx</b></p>
14:45-15:00	<b>COFFEE BREAK</b>

<b>PARALLEL SESSIONS</b> 15:00-16:20	<b>HALL 1</b>	<b>HALL 2</b>
	<p><b>Chairperson:</b> Rodion Reznik</p> <p>15:00-15:30 <b>Rodion Reznik</b> Saint-Petersburg State University, Russian Federation (Invited speaker) <b>ID2321-</b> Single photon sources based on quantum dots in nanowires and other III-V nanostructures on silicon.</p> <p>15:30-15:50 <b>Michał Zieliński</b> Nicolaus Copernicus University, Poland <b>ID2323-</b> Antibonding ground states in crystal phase quantum dots</p> <p>15:50-16:10 <b>Maria Kopsakangas-Savolainen</b> Finnish Environment Institute and University of Oulu, Finland <b>ID527-</b> Socio-demographic features and electricity consumption time series in main heating mode classification</p>	<p><b>Chairperson:</b> Ersin Kayahan</p> <p>15:00-15:30 <b>Lech Tomasz Baczewski</b> Institute of Physics PAS, Poland (Invited speaker) <b>ID2486-</b> New method of enantioseparation of chiral molecules and its importance in pharmacology and medicine</p> <p>15:30-16:00 <b>Constantin Daniel Comeaga</b> University Politehnica of Bucharest, Romania (Invited speaker) <b>ID16-</b> Mechatronic Systems for Vibration Control in Laser Medical Instruments</p> <p>16:00-16:20 <b>Muthumuni Managa</b> University Of South Africa, South Africa <b>ID2445-</b> Photodynamic activity of novel porphyrin conjugated to nanomaterials against of Escherichia coli and Staphylococcus.</p>

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

<b>TENTATIVE PROGRAM</b>	
<b>THURSDAY, OCTOBER 12, 2023</b>	
<b>APMAS-ENEFM-MEDOPTICS</b>	
<b>HALL 1</b>	
<b>PLENARY SESSION</b> 09:00-09:45	<p><b>Chairperson: A.Yavuz Oral</b></p> <p style="text-align: center;"><b>Thomas Ernst Müller</b> 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	<b>COFFEE BREAK</b>	
PLENARY SESSION 10:00-10:45	Chairperson: <b>A.Yavuz Oral</b> <p style="text-align: center;"><b>Xavier Moya</b> University of Cambridge, UK</p> <p style="text-align: center;">“Barocaloric materials for sustainable heating and cooling”</p>	
10:45-11:00	<b>COFFEE BREAK</b>	
PARALLEL SESSIONS 11:00-12:30	<p style="text-align: center;"><b>HALL 1</b></p> <p><b>Chairperson:</b> Abdollah Bahador</p> <p>11:00-11:30 <b>Abdollah Bahador</b> Univeristi Teknologi Malaysia, Malaysia <i>(Invited speaker)</i> <b>ID2365-</b> Microstructure Control in Fabrication of Novel Ti-Alloys via Powder Metallurgy and Hot Extrusion</p> <p>11:30-12:00 <b>Shoaib Answer</b> Khalifa University, Abu Dhabi, UAE <i>(Invited speaker)</i> <b>ID2504-</b> Engineering of electrodes with 2D MXene nanosheets for flexible high electrical power triboelectric nanogenerator</p> <p>12:00-12:30 <b>Farzaneh Moghtader</b> SET Medikal San. Tic. A.S., Turkey <i>(Invited speaker)</i> <b>ID2498-</b> Urinary catheters: Strategies to prevent/reduce the catheter-associated urinary tract infections.</p>	<p style="text-align: center;"><b>HALL 2</b></p> <p><b>Chairperson:</b> Ersin Kayahan</p> <p>11:00-11:30 <b>Milen Shishkov</b> Massachusetts General Hospital, USA <i>(Invited speaker)</i> <b>ID24-</b> Advancing Optical Coherence Tomography Probes for Multidimensional Intracorporeal Imaging</p> <p>11:30-12:00 <b>Mahmoud Huleihel</b> Ben Gurion University of the Negev, Israel <i>(Invited speaker)</i> <b>ID26-</b> Identification and Antibiotics Susceptibility determination of different bacteria Directly from Patients' Urine Samples by Infrared Spectroscopy</p> <p>12:00-12:20 <b>Anca Aldea</b> National Institute of Materials Physics, Romania <b>ID2358-</b> Flexible sensors based on metallized electrospun polymeric fibers for ion detection in biological fluids</p>
12:30-13:15	<b>LUNCH</b>	
13:15-18:00	<p><b><i>SOCIAL PROGRAM</i></b></p> <p><b>13:15-18:00 FETHIYE CITY TOUR &amp; THE ROCK TOMBS</b> <i>(Gathering at Congress registration desk)</i></p>	
19:30-21:30	<b>DINNER WITH APMAS INVITED SPEAKERS</b>	

**TENTATIVE PROGRAM**  
**FRIDAY, OCTOBER 13, 2023**

APMAS-ENEFM-MEDOPTICS

**HALL 1**

<b>PLENARY SESSION</b> 09:30-10:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;">xxx</p>	
10:15-10:30	<b>COFFEE BREAK</b>	
<b>PLENARY SESSION</b> 10:30-11:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Wojciech Mrozik</b> Newcastle University, UK “The Future of Safe Batteries”</p>	
11:15-11:30	<b>COFFEE BREAK</b>	
<b>PARALLEL SESSIONS</b> 11:30-12:40	<p style="text-align: center;"><b>HALL 1</b></p> Chairperson: <b>Felix Chukhovskii</b>  11:30-12:00 <b>Felix Chukhovskii</b> Russian Academy of Sciences, Russian Federation (Invited speaker) <b>ID2318-</b> 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 <b>Onea Melania Loredana</b> National Institute of Material Physics, Romania <b>ID2405-</b> A comparison of electric properties nanowire FET fabricated on 2 electrode system vs 4 electrode system.  12:20-12:40 <b>Bahar Şölen Akdemir Yılmaz</b> Gebze Technical University, Turkey <b>ID2560-</b> The Effects of The Preparation Method and Post Treatment on The Electrical Conductivity and Absorption Behavior of The PEDOT:PSS Films	<p style="text-align: center;"><b>HALL 2</b></p> Chairperson: <b>Aron Kneer</b>  11:30-12:00 <b>Aron Kneer</b> TinniT Technologies GmbH, Germany (Invited speaker) <b>ID521-</b> Numerical Prediction of Heat and Mass Transfer Processes in a Bioreactor with Coated Membrane-Based Adsorption Bodies  12:00-12:20 <b>Atila Incecik</b> University of Strathclyde, UK <b>ID504-</b> Harnessing Energy from Oceans
12:30-14:00	<b>LUNCH</b>	
<b>PLENARY SESSION</b> 14:00-14:45	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Wataru Setaka</b> Tokyo Metropolitan University, Japan “Dielectric Relaxation of Crystalline Molecular Gyrotops with a Dipolar Rotor”</p>	
14:45-15:00	<b>COFFEE BREAK</b>	

PARALLEL SESSIONS 15:00-16:30	<b>HALL 1</b>	<b>HALL 2</b>	
	<p><b>Chairperson:</b> Svetoslav Kuzmichev</p> <p>15:00-15:30  <b>Svetoslav Kuzmichev</b>  M.V. Lomonosov Moscow State University (MSU), Russian Federation  <i>(Invited speaker)</i>  <b>ID2526-</b> Direct Tunneling Probe of the Superconducting Order Parameter in EuCsFe4As4</p> <p>15:30-15:50  <b>Krzysztof Gołacki</b>  University of Life Sciences in Lublin, Poland  <b>ID2492-</b> Stress relaxation in sugar beet root tissue</p> <p>15:50-16:10  <b>Violeta Tsakiris</b>  National Institute for Research and Development in Electrical Engineering ICPE-CA, Romania  <b>ID2465-</b> Soft Magnetic Alloys Designed for Multilayer Electromagnetic Shielding Materials Manufactured by Magnetron Sputtering Deposition Method</p> <p>16:10-16:30  <b>Fatmanur Kocaman Kabil</b>  Gebze Technical University, Turkey  <b>ID2561-</b> Laser-induced Graphene Coated Conductive Sponges</p>	<p><b>Chairperson:</b> Ersin Kayahan</p> <p>15:00-15:30  <b>Meltem Izzetoglu</b>  Villanova University, USA  <i>(Invited speaker)</i>  <b>ID18-</b> Role of Non-Invasive Optical Neuromonitoring in Brain Function and Injury Assessment</p> <p>15:30-16:00  <b>George Abu-Aqil</b>  Ben-Gurion University of the Negev, Israel  <i>(Invited speaker)</i>  <b>ID25-</b> Rapid characterization and detection of Extended-Spectrum <math>\beta</math>-Lactamase-producing bacteria isolated directly from urine by infrared spectroscopy and Random Forest</p> <p>16:00-16:30  <b>Manal Suleiman</b>  Ben-Gurion University of the Negev, Israel  <i>(Invited speaker)</i>  <b>ID34-</b> Application of Infrared Spectroscopy in Conjunction with Random Forest for Rapid Assessment of Bacterial Susceptibility to Antibiotics after first culture.</p>	
	16:30-16:45	<b>COFFEE BREAK</b>	
	16:45-17:45	<p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION-I</b></p> <p>APMAS-ENEFM-MEDOPTICS</p>	
19:30-21:30	<p><b>DINNER WITH ALL PLENARY SPEAKERS</b></p> <p>(APMAS &amp; ENEFM &amp; MEDOPTICS)</p>		

<b>TENTATIVE PROGRAM</b>	
<b>SATURDAY, OCTOBER 14, 2023</b>	
	APMAS-ENEFM-MEDOPTICS
	HALL 1
PLENARY SESSION 09:30-10:15	<p>Chairperson: <b>A.Yavuz Oral</b></p> <p style="text-align: center;">xxx</p>

10:15-10:30	<b>COFFEE BREAK</b>	
PLENARY SESSION 10:30-11:15	Chairperson: <b>A.Yavuz Oral</b>  <p style="text-align: center;"><b>Naceur Belgacem</b> University of Grenoble Alpes, CNRS, France           “Pristine and Functionalized Cellulose at The Service of Medicine”</p>	
11:15-11:30	<b>COFFEE BREAK</b>	
PARALLEL SESSIONS 11:30-12:30	<p style="text-align: center;"><b>HALL 1</b></p> Chairperson: Abdellah Ajji  11:30-12:00 <b>Abdellah Ajji</b> Polytechnique Montréal, Canada <i>(Invited speaker)</i> <b>ID2536-</b> Development of PVDF Piezoelectric Properties Using Fillers and Mechanical Stretching  12:00-12:20 <b>Alina Marinela Ionescu</b> National Institute of Materials Physics, Romania <b>ID2357-</b> The Importance of Long Time Scales Relaxation Measurements for Investigation of Vortex Dynamics in Superconductors	<p style="text-align: center;"><b>HALL 2</b></p> Chairperson: Ahmed Abdala  11:30-12:00 <b>Ahmed Abdala</b> Texas A&M University at Qatar, Qatar <i>(Invited speaker)</i> <b>ID520-</b> Advanced Air-dehumidification Membranes for Energy Efficient Air-Cooling Applications  12:00-12:30 <b>Ahmet Emre</b> University of Michigan, USA <b>ID541-</b> Engineering Bioinspired Nanocomposites for Next-Generation Batteries
12:30-13:15	<b>LUNCH</b>	
13:15-18:00	<b>SOCIAL PROGRAM</b>  <b>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON &amp; VISIT TO St. NICHOLAS ISLAND</b>  <i>(Gathering at Congress registration desk)</i>	
19:30-21:30	<b>DINNER WITH <i>ENEFM</i> &amp; <i>MEDOPTICS</i> INVITED SPEAKERS</b>	

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

	“Advancements and Future Prospects in FinFET Technology: Unleashing the Power of Next-Generation Transistors”	
11:15-11:30	<b>COFFEE BREAK</b>	
<b>PLENARY SESSION</b> 11:30-12:15	Chairperson: <b>A.Yavuz Oral</b>  <div style="text-align: center;"> <b>Manish Kumar Tiwari</b>            University College London, UK             “Nanoprecision interfaces in energy and healthcare”         </div>	
12:30-14:00	<b>LUNCH</b>	
<b>PARALLEL SESSIONS</b> 14:00-15:30	<div style="text-align: center;"><b>HALL 1</b></div> <b>Chairperson:</b> Katarzyna Roszek  14:00-14:30 <b>Katarzyna Roszek</b> Nicolaus Copernicus University in Torun, Poland <i>(Invited speaker)</i> <b>ID2517-</b> Nanobiocatalytic systems for modern enzyme-based therapies  14:30-15:00 <b>Dina Deyneko</b> Lomonosov Moscow State University, Russian Federation <i>(Invited speaker)</i> <b>ID2444-</b> Novel bioactive Sr <sup>2+</sup> -based phosphates with whitlockite structure for bone implants  15:00-15:30 <b>Tatiana Kuzmicheva</b> Lebedev Physical Institute RAS, Russian Federation <i>(Invited speaker)</i> <b>ID2531-</b> Evolution of Superconducting Gap Structure of Alkali Metal Based Na(Fe,Co)As Pnictides	<div style="text-align: center;"><b>HALL 2</b></div> <b>Chairperson:</b>
15:30-16:00	<b>COFFEE BREAK</b>	
16:00-17:00	<b>FOYER (Poster Session Area)</b>  Chairperson: A. Yavuz Oral  <b>POSTER SESSION-II</b>  <b>APMAS-ENEFM-MEDOPTICS</b>	

<p><b>TENTATIVE PROGRAM</b>  <b>MONDAY, OCTOBER 16, 2023</b></p> <p><b>APMAS-ENEFM-MEDOPTICS</b></p>
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<b>PLENARY SESSION</b> 09:00-09:45	Chairperson: <b>A.Yavuz Oral</b>  <div style="text-align: center;"><b>Janusz Lewinski</b> 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	<b>COFFEE BREAK</b>	
<b>PLENARY SESSION</b> 10:00-10:45	Chairperson: <b>A.Yavuz Oral</b>  <div style="text-align: center;"><b>Chaohua Cui</b> 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	<b>COFFEE BREAK</b>	
<b>PARALLEL SESSIONS</b> 11:00-12:30	<div style="text-align: center;"><b>HALL 1</b></div> Chairperson: Marek Wisniewski  11:00-11:30 <b>Marek Wisniewski</b> Nicolaus Copernicus University in Toruń, Poland <i>(Invited speaker)</i> <b>ID2516-</b> Unknown properties of Carbon Quantum Dots  11:30-11:50 <b>Aristofan Alexandru Teişanu</b> National Institute for Research and Development in Electrical Engineering ICPE-CA, Romania <b>ID2466-</b> Evaluation of Multilayer Material Electromagnetic Shielding Efficiency by Two Different Measurements Methods  11:50-12:10 <b>Paweł Pasierb</b> AGH University of Science and Technology, Poland <b>ID505-</b> Different approaches and strategies towards protonic conductors with improved electrical conductivity and chemical stability  12:10-12:30 <b>Łukasz Łańcucki</b> AGH University of Science and Technology, Poland <b>ID506-</b> Influence of synthesis route on physicochemical and electrochemical properties of MnO <sub>2</sub> based electrode materials used in supercapacitors	<div style="text-align: center;"><b>HALL 2</b></div> Chairperson:
12:30-13:15	<b>LUNCH</b>	
13:15-18:00	<b>SOCIAL PROGRAM</b>  <b>13:15-18:00 GHOST TOWN &amp; BLUE LAGOON</b>  <i>(Gathering at Congress registration desk)</i>	

**TENTATIVE PROGRAM**  
**TUESDAY, OCTOBER 17, 2023**

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

<b>PROGRAM LEGEND DESCRIPTIONS</b>	
<b>ID-</b>	<b>APMAS 2023 oral presentations</b>
<b>ID-</b>	<b>ENEFM 2023 oral presentations</b>
<b>ID-</b>	<b>MEDOPTICS 2023 oral presentations</b>

## **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**

<b>ID</b>	<b>TITLE</b>	<b>CONTACT AUTHOR</b>
<b>2404</b>	Patterned interdigitated electrodes covered with ZnO nanowire arrays: preparation, characterization and optoelectronic applications	Melania Onea
<b>2326</b>	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTHALIMIDE AS PROMISING ANTICANCER AGENTS	Konstantin Konstantinov
<b>2364</b>	Wire treatment for reduction of metal contamination in hot wire CVD	Akira IZUMI
<b>2324</b>	SYNTHESIS OF HETEROCYCLIC EXTENDED 1,8-NAPHTHALIMIDES	Monika Mutovska
<b>2401</b>	ANTITUMOR EFFECTS INDUCED BY MAGNETIC HYPERTHERMIA USING FUNCTIONALISED MAGNETIC NANOCCLUSERS LINKED WITH DOXORUBICIN	Ioana Baldea
<b>2351</b>	A new water-soluble poly(propylene imine) dendrimer modified with 4-sulfo-1,8-naphthalimide units	Ivo Grabchev
<b>2349</b>	Enhancing the antibacterial activity of PAMAM dendrimer modified with 1,8-Naphthalimides and its copper complex via light illumination	Desislava Staneva
<b>2397</b>	Substituents' effect on the ultrasound assisted homodimerization of coumarins – methodology and properties	Nevena Petkova-Yankova
<b>2398</b>	Fine tuning of the optical properties of phosphorous containing coumarin systems by altering the substituents	Rositca Nikolova
<b>2339</b>	Self-associated 1,8-naphthalimide as a selective fluorescent chemosensor for detection of high pH in aqueous solutions and their Hg <sup>2+</sup> contamination	Stanimir Stoyanov
<b>2352</b>	SUPRAMOLECULAR AND COVALENT ORGANIC FRAMEWORKS BASED ON 9,9'-SPIROBIFLUORENE BUILDING BLOCKS	Ioana-Georgeta Grosu
<b>2334</b>	Forest fire spread with non-universal critical behavior	Baara Yamina
<b>2335</b>	CRITICAL BEHAVIOR OF AN EXTREME FIRE "FIRE JUNCTION"	Khadidja Khelloufi
<b>2447</b>	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
447	PERI-SUBSTITUTED DICHALCOGENIDES OF NAPHTHALENE AND PERYLENE MONOIMIDES	Yulian Zagranyski
513	Thermoelectric Properties of Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>2</sub> O <sub>y</sub> Ceramics Doped with Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> and Pb(B <sub>2</sub> O <sub>3</sub> ) <sub>2</sub>	Giorgi Mumladze
528	Thermoelectric Performance Enhancement of Sol-Gel Processed Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>2</sub> O <sub>y</sub> Cobaltite by BiBO <sub>3</sub> 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**

<b>ID</b>	<b>TITLE</b>	<b>CONTACT AUTHOR</b>
<b>2350</b>	HYBRID METAL@PAF MATERIALS AS SMART CATALYSTS FOR CROSS-COUPLING AND "CLICK" REACTIONS	Ion Grosu
<b>2320</b>	Changing of semiconductor and metallic thin film layer's features via nanostructuring	Aliaksandr Smirnov
<b>2383</b>	Evolution of the dendritic envelope and primary stem structure in free dendritic growth	Liubov Toropova
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