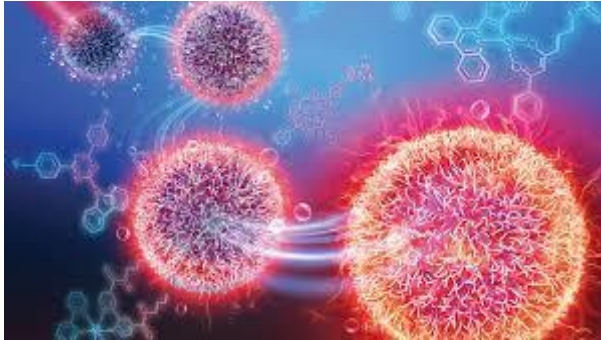
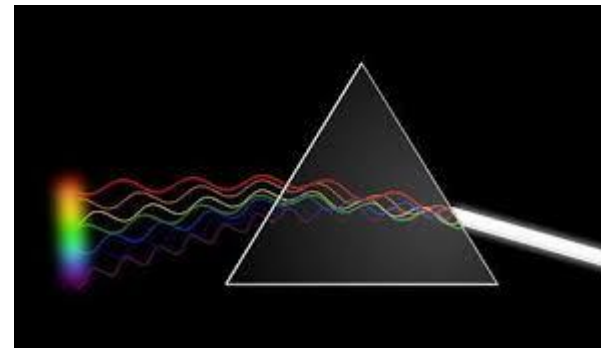
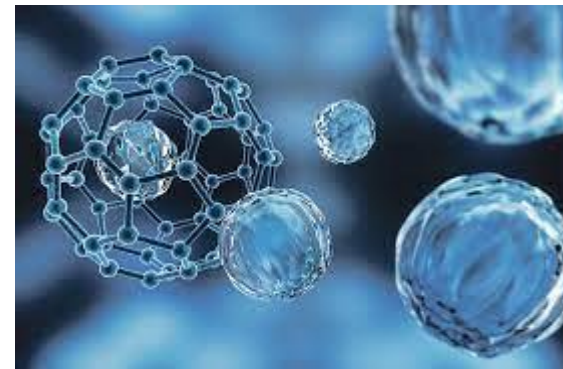


INTERM 2024
11th INTERNATIONAL CONGRESS ON
MICROSCOPY & SPECTROSCOPY



BIOMATSEN 2024
9th INTERNATIONAL CONGRESS ON
BIOMATERIALS & BIOSENSORS

NANOMACH 2024
5th INTERNATIONAL CONFERENCE ON
NANOMATERIALS,
NANOFABRICATION AND
NANOCHARACTERIZATION



INTERPHOTONICS 2024
6th INTERNATIONAL CONFERENCE
ON PHOTONICS RESEARCH

SEMIMATER 2024
SEMICONDUCTOR MATERIALS &
DEVICE PHYSICS CONFERENCE



PROGRAM TIMETABLE

INTERM 2024
**11th INTERNATIONAL CONGRESS ON MICROSCOPY &
SPECTROSCOPY**

BIOMATSEN 2024
**9th INTERNATIONAL CONGRESS ON BIOMATERIALS &
BIOSENSORS**

NANOMACH 2024
**5th INTERNATIONAL CONFERENCE ON NANOMATERIALS,
NANOFABRICATION AND NANOCHARACTERIZATION**

INTERPHOTONICS 2024
**6th INTERNATIONAL CONFERENCE ON PHOTONICS
RESEARCH**

SEMIMATER 2024
**SEMICONDUCTOR MATERIALS & DEVICE PHYSICS
CONFERENCE**

APRIL 18-24, 2024

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

PROGRAM TUESDAY, APRIL 16, 2024	
14:00-16:30	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

PROGRAM WEDNESDAY, APRIL 17, 2024	
9:00-16:30	REGISTRATION (14:00 Check-in)

Everyday Tours	<p>SOCIAL PROGRAM</p> <ul style="list-style-type: none"> • <i>Saklikent Jeep Safari</i> • <i>Paragliding in Oludeniz</i>
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PROGRAM	
THURSDAY, APRIL 18, 2024	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	
PLENARY SESSION 09:45-10:30	<p>Chairperson: A.Yavuz Oral</p> <p>Joon Myong Song</p> <p>Seoul National University, South Korea</p> <p>"ID483- Transparent Tumor Imaging-based Drug Penetration Monitoring"</p>
PLENARY SESSION 10:30-11:15	<p>Chairperson: A.Yavuz Oral</p> <p>Hideaki Shirota</p> <p>Chiba University, Japan</p> <p>"ID716- Probing the Intermolecular Vibrations and Reorientation in Liquids and Solutions by Femtosecond Raman-Induced Kerr Effect Spectroscopy"</p>
11:15-11:45	COFFEE BREAK
PLENARY SESSION 11:45-12:30	<p>Chairperson: A.Yavuz Oral</p> <p>Thomas Webster</p> <p>Hebei University of Technology, Tianjin, China and Interstellar Therapeutics, Mansfield, MA USA</p> <p>"ID497- A Real BandAid™: Incorporating Artificial Intelligence (AI) into Biomaterials, Nanotechnology, Sensors, and Medicine"</p>

12:30-14:00	LUNCH		
	INTERM YUNUS EMRE 1	BIOMATSEN & NANOMACH ARISTO	INTERPHOTONICS & SEMIMATER HİPOKRAT
PARALLEL SESSIONS 14:00-16:30	<p>Chairperson: Sergey Katsyuba</p> <p>14:00-14:30 Sergey Katsyuba Arbuzov Institute of Organic and Physical Chemistry, Russian Federation <i>(invited speaker)</i> ID723- Clarifying structure of aqueous solutions by computationally supported spectral analysis</p> <p>14:30-15:00 Oleksandr Kryshstal AGH University of Krakow, Poland <i>(invited speaker)</i></p>	<p>Chairperson: Ewa Mijowska</p> <p>14:00-14:30 Ewa Mijowska West Pomeranian University of Technology, Poland <i>(invited speaker)</i> ID842- Borophene as bifunctional electrocatalyst for electrochemical water decomposition (HER/OER)</p> <p>14:30-14:50 Olga D. Hendrickson</p>	<p>Chairperson: Ersin Kayahan</p> <p>14:00-14:30 Hendrik C Swart University of the Free State, South Africa <i>(invited speaker)</i> ID683- Laser-induced heating decimated luminescence nanothermometry using robust LaOF:Yb3+, Er3+ upconversion nanophosphors</p> <p>14:30-15:00 Yia-Chung Chang</p>

	<p>ID728- Examination of phase transformations in single metal and alloy nanoparticles by in situ valence electron energy loss spectroscopy</p> <p>15:00-15:30 Monica Baia Babes-Bolyai University, Romania <i>(invited speaker)</i></p> <p>ID756- VIBRATIONAL SPECTROSCOPIC INVESTIGATIONS ON PHARMACEUTICALS</p> <p>15:30-16:00 Lucian Baia Babes-Bolyai University, Romania <i>(invited speaker)</i></p> <p>ID755- Bioactive glasses/glass-ceramics/metal nanoparticles based composites for tissue engineering applications</p> <p>16:00-16:30 Junais Habeeb Makkath Abdullah Al Salem University (AASU), Kuwait <i>(invited speaker)</i></p> <p>ID761- Surface Termination-Driven Optical Behavior in MXene Nanoflakes</p>	<p>Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation</p> <p>ID506-Application of nanozymes in lateral flow test systems for food control</p> <p>14:50-15:20 Livia Alexandra Dinu National Institute of Research and Development for Microtechnology, Romania <i>(invited speaker)</i></p> <p>ID502-Metallic nanoparticles-graphene nanohybrids as artificial enzymes for environmental and biomedical electrochemical applications</p> <p>15:20-15:50 Mingjun Xie Zhejiang Provincial People's Hospital, China <i>(invited speaker)</i></p> <p>ID501-Electrospray Preparation Method and Biomedical Application of Multifunctional Gelatin-Based Microgel</p> <p>15:50-16:10 Thokozani Xaba Vaal University of Technology, South Africa ID852- A Facile one-pot Synthesis of Ag₂Te Nanoparticles and the Fabrication of Nanocomposites for the Removal of Chromium (VI) in Wastewater</p>	<p>National Cheng-Kung University, Taiwan <i>(invited speaker)</i></p> <p>ID15-Modeling Carbon-Based Nanostructures and Devices: A Comprehensive Approach</p> <p>15:00-15:20 Khafiz Salikhov Tatarstan Academy of Sciences, Russian Federation ID705- OPTO-ELECTRONIC SENSOR OF HYDROGEN</p> <p>15:20-15:40 Waldemar Swiderski Military Institute of Armament Technology, Poland ID680- A new method for measuring the flux density of terahertz radiation</p> <p>15:40-16:10 Xincheng Yao University of Illinois Chicago, USA <i>(invited speaker)</i></p> <p>ID712- Polarization Characterization of Ballistic and Multiply Scattering Photons in Retinal OCT Bands</p>
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PROGRAM	
FRIDAY, APRIL 19, 2024	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	
PLENARY SESSION 09:30-10:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Yi Wang Cornell University, USA</p> <p style="text-align: center;">“ID759-Interconnection of microscopy and radiology in medical imaging”</p>
PLENARY SESSION 10:15-11:00	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Kazuo Umemura Tokyo University of Science, Japan</p> <p style="text-align: center;">“ID493- Enzyme and carbon nanotube devices using floatable diatom frustules as a nanoporous silica”</p>
11:00-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: Ersin Kayahan</p> <p style="text-align: center;">My Ali El Khakani INRS, University of Quebec, Canada</p> <p style="text-align: center;">“ID14- Photosensitizing materials via their decoration with pulsed-laser-deposited nanoparticles”</p>

12:30-13:15	LUNCH
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 GHOST TOWN & BLUE LAGOON (Gathering at Congress registration desk)
19:30-21:30	DINNER WITH INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER PLENARY SPEAKERS

PROGRAM SATURDAY, APRIL 20, 2024			
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER			
YUNUS EMRE 1			
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral Günther Rupprechter TU Wien, Austria "ID843- Observing nanostructures and reactants during catalysis by correlative surface microscopy"		
11:15-11:45	COFFEE BREAK		
PLENARY SESSION 11:45-12:30	Chairperson: A.Yavuz Oral Alexander Khmaladze SUNY at Albany, USA "ID713- 3D Imaging and Spectroscopy of Complex Biological Systems at the Sub-Cellular, Cellular and Multicellular Levels"		
12:30-14:00	LUNCH		
	INTERM YUNUS EMRE 1	BIOMATSEN & NANOMACH ARİSTO	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER EFLATUN

PARALLEL SESSIONS 14:00-16:50	<p>Chairperson: Liang Wang</p> <p>14:00-14:30 Liang Wang Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Southern Medical University, China <i>(invited speaker)</i> ID715- Current advances and challenges of label-free SERS application in bacterial infection and antibiotic resistance</p> <p>14:30-15:00 Xiping Guo Northwestern Polytechnical University, China <i>(invited speaker)</i> ID731- Preparation and Oxidation Resistance of Silicide Coating on Tungsten Substrate</p> <p>15:00-15:30 Hirimitsu Nakajima Saitama University, Japan <i>(invited speaker)</i> ID735- Analyses of iron species, metals, and pigments in the iron-hyperaccumulator moss <i>Scopelophila ligulata</i></p> <p>15:30-15:50 Ping Guan Northwestern Polytechnical University, China ID724-Preparation of Ionic Liquid Electrolyte Suitable for Low Temperature Environment and Its Lithium Ion Battery</p> <p>15:50-16:20 Anuradha Pallipurath University of Leeds, UK <i>(invited speaker)</i> ID764- Understanding organic crystal surfaces using polarized Raman spectroscopy</p> <p>16:20-16:50 Boyan Tatarov University of Hertfordshire, UK <i>(invited speaker)</i> ID749- LITES: a Facility for Spectroscopic Remote Sensing and in-situ Atmospheric studies</p>	<p>Chairperson: Marek Godlewski</p> <p>14:00-14:30 Marek Godlewski Polish Academy of Sciences, Poland <i>(invited speaker)</i> ID485- ZnO-BASED MARKERS ACTIVATED WITH RARE EARTH IONS FOR THERANOSTIC APPLICATIONS</p> <p>14:30-15:00 MERUYERT NAZHIPKYZY Satbayev University, Kazakhstan <i>(invited speaker)</i> ID881- BIOMASS-DERIVED ACTIVATED CARBONS FOR ELECTROCHEMICAL ELECTRODES</p> <p>15:00-15:30 Sanjairaj Vijayavenkataraman New York University Abu Dhabi, UAE <i>(invited speaker)</i> ID513- 3D bioprinting: Challenges in Commercialization and Clinical Translation</p> <p>15:30-16:00 Rustem Zairov Kazan Federal University, Russian Federation <i>(invited speaker)</i> 519- Lanthanide Chelate Nanoparticles as luminescent thermometers</p> <p>16:00-16:30 Irina Ungureanu (Negut) National Institute for Lasers, Romania <i>(invited speaker)</i> ID499- Advanced Laser Synthesized Coatings to Optimize Stainless-Steel Implant-Like Surfaces: A Specialized Approach for Enhanced Biocompatibility and Antimicrobial Action</p>	<p>Chairperson: Ersin Kayahan</p> <p>14:00-14:30 Hongwei Luo China Electronic Product Reliability and Environmental Testing Research Institute, China <i>(invited speaker)</i> ID6- The Resonance Measurement Under DC Bias Electric Field for Electrostrictive Ceramic</p> <p>14:30-15:00 Ahmed Hassanein Purdue University, USA <i>(invited speaker)</i> ID710- Optimization of EUV Photons from Laser Produced Plasma in Advanced Nanolithography Devices</p> <p>15:00-15:30 Egor Ilyukov Saratov State University, Russian Federation <i>(invited speaker)</i> 717-Bluetooth technology in scientific applications</p> <p>15:30-16:00 Max Zenghui Wang University of Electronic Science and Technology of China, China <i>(invited speaker)</i> ID24- The Sound of Music at the Nanoscale – Exploring the Nanoscale World with NEMS Resonators Based on Low Dimensional Nanomaterials</p> <p>16:00-16:30 Roberto Termine Institute of Nanotechnology CNR-NANOTEC, SS di Rende (CS), Italy <i>(invited speaker)</i> ID26- Coexisting and Cooperating Light-Matter Interaction Regimes in Meta-Voltaic Systems</p>
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PROGRAM	
SUNDAY, APRIL 21, 2024	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	

PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral <div style="text-align: center;">Alper Sahiner Seton Hall University, USA</div> <p style="text-align: center;">“ID762-Structure-Function Correlation in Advanced Materials Using Synchrotron Based Spectroscopy”</p>			
11:15-11:45	COFFEE BREAK			
PLENARY SESSION 11:45-12:30	Chairperson: A.Yavuz Oral <div style="text-align: center;">Shakil Awan University of Plymouth, UK</div> <p style="text-align: center;">“ID752- Confocal Microscopy Imaging of Drosophila Melanogaster Embryos Exposed to Tumor Treating Alternating Current Electric Fields”</p>			
12:30-14:00	LUNCH			
	INTERM YUNUS EMRE 1	BIOMATSEN ARİSTO	NANOMACH EFLATUN	INTERPHOTONICS & SEMIMATER HİPOKRAT
PARALLEL SESSIONS 14:00-16:20	Chairperson: Antony Ali ASSAF 14:00-14:30 Antony Ali ASSAF Nantes Université, France <i>(invited speaker)</i> ID720- Raman spectroscopy applied on living samples: Monitoring of algal cells production in photobioreactors 14:30-15:00 Urška Gradišar Centa University of Ljubljana, Slovenia <i>(invited speaker)</i> ID750- Characterization of composite materials 15:00-15:30 Holger Klein CNRS, France <i>(invited speaker)</i> ID758- Going to extremely low doses: electron crystallography with the dose-symmetric electron diffraction tomography 15:30-15:50 Milojevic Tetyana CNRS-Centre de Biophysique Moléculaire, University of Orléans, France ID757- Nanoscale investigations of complex microbial interactions with extraterrestrial and terrestrial minerals using TEM-based approach: implications for life on Earth and beyond 15:50-16:20 Wolfgang Werner	Chairperson: Arcady Zhukov 14:00-14:30 Arcady Zhukov University of Basque Country, Spain <i>(invited speaker)</i> ID494- DEVELOPMENT OF SMART COMPOSITES WITH FERROMAGNETIC MICROWIRES 14:30-15:00 Anil Koklu ASELSAN, Turkiye <i>(invited speaker)</i> ID491- Detection of disease biomarkers via electrical and fluorescence-based biosensors 15:00-15:30 Olga Pechanova Slovak Academy of Sciences, Slovakia <i>(invited speaker)</i> ID490- Simvastatin- and coenzyme-Q10-loaded polymeric nanoparticles increased nitric oxide synthase activity via the Akt-eNOS pathway in obese Zucker rats 15:30-16:00 Taras Kavetskyy Slovak Academy of Sciences, Slovakia <i>(invited speaker)</i> ID516- NETWORK PROPERTIES OF POLYMER MATRIXES FOR CONTROLLING A FUNCTIONALITY OF AMPEROMETRIC BIOSENSORS: RECENT ADVANCES AND PERSPECTIVES	Chairperson: Josep Nogues 14:00-14:30 Josep Nogues Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain <i>(invited speaker)</i> ID876- Anisometric Fe3O4 nanoparticles as versatile theranostic agents 14:30-14:50 Jacek Podwórny Łukasiewicz Research Network-Institute of Ceramics and Building Materials, Poland ID910- Phase transformation in Ag-TiO2 nanocomposites 14:50-15:10 Anna Pajor-Świerzy Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Poland ID856- Fabrication of conductive coatings based on nickel@silver core@shell nanoparticles by low-temperature sintering methods 15:10-15:40 Mariana Ionita University of Science and Technology Politehnica of Bucharest, Romania <i>(invited speaker)</i> ID841- Emerging strategies in bone regeneration: from scaffold to tissue regeneration 15:40-16:10	Chairperson: Ersin Kayahan 14:00-14:30 Constantin Meis CEA – Saclay, France <i>(invited speaker)</i> ID678- Quantized field of single photons. The photon electric field and the photon wave function. 14:30-15:00 Tamara Basova Siberian Branch of Russian Academy of Sciences, Russian Federation <i>(invited speaker)</i> ID3- Chemiresistive gas sensors based on metal phthalocyanines and their hybrid structures with metal nanoparticles 15:00-15:20 Alena Zavadilová Czech Technical University in Prague, Czech Republic ID687- Laser-induced breakdown spectroscopy of uranium in eye-safe area 15:20-15:50 Pericle Varasteanu IMT Bucharest, Romania <i>(invited speaker)</i> ID704- Surface Plasmon Resonance Based Sensors: from prism coupling to direct excitation 15:50-16:20 Ling-An Wu

	TU Wien, Austria (invited speaker) ID747- Quantitative Interpretation of Nanoparticle X-ray Photoelectron Intensities	16:00-16:30 Kerry J Lee Florida Gulf Coast University, USA (invited speaker) ID509- Design of Biosensor Assays for Study of Single Live Bacteria and Cancer Cells Using Single Silver (Ag) Ultrasmall Nanoparticle Optical Probes	Kaiying Wang University of South-Eastern Norway, Norway (invited speaker) ID898- Electrochemical Engineering TiO ₂ nanomaterials for renewable energy	Chinese Academy of Sciences, China (invited speaker) ID702- “Ghost” imaging goes to shorter wavelengths
19:30-21:30	DINNER WITH BIOMATSEN & INTERPHOTONICS & SEMIMATER INVITED SPEAKERS			

PROGRAM MONDAY, APRIL 22, 2024	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral Yimei Zhu Brookhaven National Laboratory, USA “ ID734- Seeing Matter from Ultra-small to Ultra-fast and to Ultra-cold with Electrons”
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 INTERM & NANOMACH INVITED SPEAKERS

PROGRAM TUESDAY, APRIL 23, 2024	
INTERPHOTONICS	
YUNUS EMRE 1	

PARALLEL SESSIONS 10:00-11:50	<p>Chairperson: Ersin Kayahan</p> <p>10:00-10:30 Alexandra Mocanu National Institute for Research and Development in Microtechnologies, Romania <i>(invited speaker)</i> ID699- POLYMER PHOTONIC CRYSTALS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS</p>
	<p>10:30-11:00 Rudolf Korsmik Saint Petersburg state marine technical university, Russian Federation <i>(invited speaker)</i> ID715-STRUCTURE AND MECHANICAL PROPERTIES OF INCREASED STRENGTH SHIPBUILDING STEEL JOINTS PRODUCED BY HYBRID LASER-ARC WELDING</p>
	<p>11:00-11:30 Olga Klimova-Korsmik Saint Petersburg state marine technical university, Russian Federation <i>(invited speaker)</i> ID716-DIRECT ENERGY DEPOSITION OF FUNCTIONALLY-GRADED MATERIALS</p>
	<p>11:30-11:50 Vala Can Aşkan Gebze Technical University, Turkiye ID720-Synthesis of Graphene from the Photothermal Reaction with a CO₂ Laser and Its Effect on the Microstructural, Elemental, and Electrical Properties of Polyvinylidene Fluoride</p>
12:30-14:00	LUNCH

INTERM & NANOMACH YUNUS EMRE 1	BIOMATSEN ARİSTO
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PARALLEL SESSIONS 14:00-16:20</p>	<p>Chairperson: Ovidiu Crisan</p> <p>14:00-14:30 Ovidiu Crisan National Institute for Materials Physics, Romania (invited speaker) ID893- Magnetic Nanolayered Systems with THz Emission Properties</p> <p>14:30-14:50 Karolina Dudek Łukasiewicz - Institute of Ceramics and Building Materials, Poland ID909- Functionalization of the NiTi shape memory alloy surface by innovative hybrid coatings</p> <p>14:50-15:20 Cristina PACHIU National Institute for Research and Development in Microtechnologies (IMT-Bucharest), Romania (invited speaker) ID737-CARBON NANOMATERIALS WITH PERFORMANCE IN EMI SHIELDING: GROWTH, STRUCTURING AND CHARACTERIZATION OF MATERIALS</p> <p>15:20-15:50 Filipe Mergulhão University of Porto – FEUP, Portugal (invited speaker) ID727- Development of Functionalized Carbon Nanotubes and Graphene Composites to Inhibit Single- and Multi-Species Biofilms in Medical Devices</p>	<p>Chairperson: Owen J Guy</p> <p>14:00-14:30 Owen J Guy Swansea University, UK (invited speaker) ID486- Graphene and silicon chip technologies for biosensing applications</p> <p>14:30-15:00 Vasa Radonic BioSense Institute, Serbia (invited speaker) ID488- INNOVATIONS IN GOLD ELECTRODE MANUFACTURING FOR COST-EFFECTIVE BIOSENSORS</p> <p>15:00-15:30 Darya Alontseva D. Serikbayev East Kazakhstan Technical University, Kazakhstan (invited speaker) ID511- Enhancing the biocompatibility and bacteria resistance of 3D printed Ti6Al4V alloy endoprosthetic implants by applying Ta and Ta-Cu coatings</p> <p>15:30-15:50 Daniel Gillard Swansea University, UK ID487- Molecular Vapor Deposition (MVD) – for biosensing applications</p> <p>15:50-16:20 Lobat Tayebi Marquette University School of Dentistry, USA (invited speaker) ID498- Advanced Synthetic Titanium Prosthesis for OOKP Surgery: Revolutionizing Osteo-Odonto-Keratoprosthesis (Tooth-in-Eye) Procedures</p>
<p>16:20-16:50</p>	<p>COFFEE BREAK</p>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PARALLEL SESSIONS 16:50-17:30</p>	<p style="text-align: center;">INTERPHOTONICS & SEMIMATER</p> <p style="text-align: center;">YUNUS EMRE 1</p> <p>Chairperson: Ersin Kayahan</p> <p>16:50-17:10 Fatmanur Kocaman Kabil Gebze Technical University, Turkiye ID27- ZnO Powders Synthesized by Extracellular <i>R. Pusillus</i> Fungi</p> <p>17:10-17:30 Bahar Şölen Akdemir Yilmaz Gebze Technical University, Turkiye ID719- An Investigation on the Electrical Conductivity Mechanism of PEDOT: PSS Insights from UV-Vis-NIR Absorption Spectroscopy and Solvent Interaction Studies</p>	
<p>17:30-18:30</p>	<p>FOYER (Poster Session Area)</p> <p>Chairperson: A. Yavuz Oral</p> <p>POSTER SESSION</p> <p>INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER</p>	

PROGRAM	
WEDNESDAY, APRIL 24, 2024	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	
PARALLEL SESSIONS 10:30-11:40	<p>Chairperson: Klimonsky Sergey</p> <p>10:30-11:00 Klimonsky Sergey Lomonosov Moscow State University, Russian Federation <i>(invited speaker)</i> ID685- Stripe patterned photonic crystals: preparation and properties</p> <p>11:00-11:20 Krzysztof Szczepanowicz Jerzy Haber Institute of Catalysis and Surface Chemistry, Poland ID860- Theranostic nanocarriers to the central nervous system therapies</p> <p>11:20-11:40 Klaudia Zielinkiewicz West Pomeranian University of Technology, Poland ID845- Bulk scale fabrication of few-layered borophene - a combined strategy</p>
12:00	Hotel Check Out

PROGRAM LEGEND DESCRIPTIONS	
ID-	INTERM 2024 oral presentations
ID-	BIOMATSEN 2024 oral presentations
ID-	NANOMACH 2024 oral presentations
ID-	INTERPHOTONICS 2024 oral presentations
ID-	SEMIMATER 2024 oral presentations

POSTER PROGRAM
TUESDAY, APRIL 23, 2024
17:30-18:30

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER

ID	TITLE	CONTACT AUTHOR
739	How does the health-promoting apple phenolic phloretin affect the cell ultrastructure in Arabidopsis shoots?	Dijana Smailagić
748	Characterization of uncoated and silver coated copper flake based polymer composites	Mohor Mihelčič
495	Preparation, Structural and magnetic properties of MnFePSi-based glass-coated microwires	Valentina Zhukova
503	PREPARATION, CHARACTERIZATION AND WOUND HEALING EFFECTS OF NEW COLLAGEN – ARGININE DRESSING	Oana Brincoveanu
504	Bioprinting of hybrid tissue constructs containing endothelial cell spheroids	Hyeongjin Lee
505	Improvement of mechanical and biological activities of 3D printed synthetic polymer/bioceramics biocomposite scaffold for bone tissue engineering	WonJin Kim
515	A Study on the Properties of Rigid Polyurethane Foam Using Modified Cellulose Nanofiber	SangBum Kim
913	Fabrication of Polymer Nanocomposites with Tunable Mechanical and Functional Properties via Stereolithography	Onur Alp Aksan
915	Development of Multilayer Magnetic Thin Film Sensor Structures by Magnetron Sputtering	Mehmet Emre Aköz
849	Magnetite functionalized Nigella Sativa seeds for the uptake of Chromium(VI) and Lead(II) ions from synthetic wastewater	Patience Thabede
850	Hemp seed nanoparticle composites for removing lead, methylene blue, and ibuprofen from an aqueous solution and their antimicrobial towards Escherichia coli and Staphylococcus aureus	Ntaote David Shooto
859	Influence of Microwave-Assisted Synthesis Temperature on the Formation and Properties of Hydroxyapatite	Anatolijus Eisinis
865	Study of kesterite Cu ₂ ZnSnS ₄ nanopowder oxidation by TGA/DTA/MS measurements in the flowing oxygen plus argon (1:4 vol.) gas mixture	Jerzy F. Janik & Katarzyna Lejda
866	TGA/DTA/MS insight into decomposition of semiconductor kesterite Cu ₂ ZnSnS ₄ nanopowders prepared via mechanochemically-assisted synthesis method from in-situ made Zn/Sn copper alloys	Jerzy F. Janik & Katarzyna Lejda
882	STUDIES OF POROUS CARBONS BASED ON ORANGE PEEL	Aigerim Seitkazinova & Talgatkyzy Asem

848	SYNTHESIS AND STUDY OF CARBORANYL-CONTAINING α -HYDRINDONES AND THEIR IMMOBILIZATION ON IRON OXIDE NANOPARTICLES FOR BORON NEUTRON CAPTURE THERAPY	Lana Lissovskaya
906	Mapping nanometer deformation of an impinging droplet on a soft substrate by interferometric nanostrain sensor	Maryam Jalali-Mousavi
911	Effectiveness of surface- structure of acrylic acid-grafted pine-magnetite bionanocomposites in the removal	Kgomotso MTSHATSHENI
912	Comparative electrochemical properties of polyaniline/carbon quantum dots nanocomposites modified screen-printed carbon and gold electrodes	Judith Letsoalo
862	Fe ₃ O ₄ @SiO ₂ @ Zr(OH) nanocomposite for the removal of Pb ²⁺ and Cd ²⁺ ions from aqueous solution	Agnes Pholosi
885	INNOVATIVE MULTILAYER HOLOGRAPHIC LABELS WITH INTEGRATED PASSIVE UHF RFID TECHNOLOGY AND TEMPERATURE SENSING AS ANTI-COUNTERFEITING ELEMENTS	Catalin Parvulescu
894	Thermally activated phase evolution in FePtNbB nano-composite alloys	Alina Daniela Crisan
676	Autonomous Vehicle Operation using Light Sensors, Computer vision and Machine Learning	Glen Bright
703	Intelligent Diagnosis Method of Gastric Disease Based on Traditional Chinese Medicine and Hyperspectral Imaging	Zhao-Hua Yang
713	PHOTOACOUSTIC AND LASER ULTRASOUND COMBINED TOMOGRAPHY: ADVANTAGES FOR BIOLOGICAL TISSUE DIAGNOSTICS	Varvara Simonova
714	Pulsed and continuous lasing at NV centers in diamond	Elizaveta Zaloznaya
721	Improving Mechanical Characteristics of Laser-Induced Graphene Freestanding Films for Thermoelectric Applications	Fatma Kocaman Kabil
4	PHOTOGRAFT COPOLYMERIZATION OF METHACRYLIC ACID AND 2-HYDROXYETHYLMETHACRYLATE ON PET TRACK-ETCHED MEMBRANES FOR THE DETECTION OF HEAVY METAL IONS	Nurdaulet Zhumanazar
20	Normally-off NiOx based hydrogen terminated diamond metal oxide semiconductor field-effect-transistor	Subrat Kumar Pradhan
21	High-Performance Ta ₂ O ₅ -based Normally off GaN Transistors	Mahalaxmi Patil

