

# **PROGRAM SCHEDULE**

## **INTERM 2025**

**BIOMATSEN 2025** 

NANOMACH 2025

**INTERPHOTONICS 2025** 

**SEMIMATER 2025** 



## INTERM 2025 12<sup>th</sup> INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

# BIOMATSEN 2025 10<sup>th</sup> INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

# NANOMACH 2025 6<sup>th</sup> INTERNATIONAL CONFERENCE ON NANOMATERIALS, NANOFABRICATION AND NANOCHARACTERIZATION

# INTERPHOTONICS 2025 7<sup>th</sup> INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH

# SEMIMATER 2025 2<sup>nd</sup> SEMICONDUCTOR MATERIALS & DEVICE PHYSICS CONFERENCE

APRIL 08-14, 2025

Liberty Hotels Lykia, Oludeniz MUGLA / TURKEY

PROGRAM

SUNDAY, APRIL 06, 2025		
14:00-16:30	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)	

	P R O G R A M	
	MONDAY, APRIL 07, 2025	
REGISTRATION		

9:00-16:30

	(14:00 Check-in)	
Everyday Tours	SOCIAL PROGRAM • Saklıkent Jeep Safari • Paragliding in Oludeniz	

	P R O G R A M				
	TUESDAY, APRIL 08, 2025				
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER				
	YUNUS EMRE 1				
	Chairperson: A.Yavuz Oral				
NO LA					
ESSI 1:15	Alper Sahiner				
<b>₹¥ S</b> 0-1.	Seton Hall University, USA				
PLENARY SESSION 10:30-11:15	"Crystal Symmetry Determination of LeSt CoO SOFC Films Using DFT Decod FVAFS"				
<b>PLE</b>	"Crystal Symmetry Determination of LaSrCoO SOFC Films Using DFT Based EXAFS"				
11:15-	COFFEE BREAK				
11:45					
	Chairperson: A.Yavuz Oral				
Z	Marek Godlewski				
ESSI 2:30	Polish Academy of Sciences, Poland				
<b>17 SI</b> 5-12					
<b>NARY SESS</b> I 11:45-12:30	"ID523- Nanoparticles of Oxides Doped with Rare Earth Ions for Theranostic Applications"				
PLENARY SESSION 11:45-12:30					

12:30- 14:00	LUNCH		
	INTERM ARİSTO	BIOMATSEN & NANOMACH HİPOKRAT	INTERPHOTONICS & SEMIMATER EFLATUN
	Chairperson: Mario Marchetti	Chairperson: Ekaterina Silina	Chairperson: Ersin Kayahan
	14:00-14:30	14:00-14:30	
	Mario Marchetti	Ekaterina Silina	14:00-14:30
	Université Gustave Eiffel, France	Sechenov First Moscow State Medical	Thomas Behnke
30	(invited speaker)	University (Sechenov University), Russian	Institute of Planetary Research,
15:	ID768- Raman spectroscopy and civil	Federation	Germany
-00	engineering materials. Overcoming difficulties	(invited speaker)	(invited speaker)
14:00-15:30	and providing answers	ID975- Synthesis of Nanocrystalline Cerium	ID740- LASER APPLICATIONS FOR
SN		Oxide Under Production Conditions with the	SPACE INSTRUMENTATION

14:30-15:00 **Atsuko Nakayama** Iwate University, Japan **(invited speaker) ID776**- Phase transition in supercritical-fluid phase for hydrogen at room temperature 15:00-15:30 **Mariya Hristova** 

University College London, UK (invited speaker)

**ID831-** Neonatal hypoxic ischaemic brain damage – new experimental treatments and biomarkers

Best Regenerative Activity and Biocompatibility for Creation of Wound-Healing Agents 14:30-15:00 **Nan Qi** 

Nan Qi Shandong University, China

#### (invited speaker)

**ID532-** The constitutive modelling of the venous valve and its 3D fluid-structure interaction simulation

15:00-15:20 Beata Zielińska 14:30-15:00 Alexander Dushkin Moscow City Hospital 52, Russian Federation (invited speaker) ID760- LONG-TERM EXPERIENCE PHOTODYNAMIC THERAPY IN HPV-RELATED CERVICAL LESIONS

15:00-15:30 Glen Bright University of KwaZulu Natal, South Africa (invited speaker)

		West Pomeranian University of Technology, Poland ID959- Towards enhancement of photoactivity of g-CN based catalysts in hydrogen evolution reaction irradiated by solar light	ID723- IMPROVED AUTONOMOUS VEHICLE SENSORS, CONTROL AND DEVELOPMENT FOR APPLICATIONS IN COMMERCIAL AND INDUSTRIAL VEHICLES
15:30- 16:00 <b>COFFEE BREAK</b>			
INTERM		<b>BIOMATSEN &amp; NANOMACH</b>	INTERPHOTONICS & SEMIMATER
ARISTO		HİPOKRAT	EFLATUN
Chairperson: Eleonora-Miha	ela Ungureanu	Chairperson: Beatrice Muzzi	Chairperson: Ersin Kayahan
<ul> <li>16:00-16:30</li> <li>Eleonora-Mihaela Ungurear National University of Science Politehnica Bucharest, Roma (invited speaker)</li> <li>ID825- Spectral and FTIR stur- with the N,N-bis(3,3-dimethy dithiocarbamate in view of t precursors for nanofibers</li> <li>16:30-17:00</li> <li>Tiziana Ritacco</li> <li>Istituto Per la Microelettroni Consiglio Nazionale delle Rice (invited speaker)</li> <li>ID830- Terahertz Time-Doma for Security Applications</li> <li>17:00-17:30</li> <li>Hafizur Rahman FSCN, Mid Sweden Universit (invited speaker)</li> <li>ID775- X-ray fluorescence (X sulfur uniformity assessment packaging paper</li> </ul>	e and Technology nia dies on complexes /l-allyl)- neir use as ca e Microsistemi - erche, Italy ain Spectroscopy y, Sweden RF) as a tool for	<ul> <li>16:00-16:30</li> <li>Beatrice Muzzi</li> <li>CNR, Italy (invited speaker) ID982- Hard/Soft coupled magnetic nanocomposites for the fabrication of Rare- Earth free permanent magnets</li> <li>16:30-17:00</li> <li>Alexandre Lancelot Instituto de Nanociencia y de Materiales de Aragón, Spain (invited speaker) ID548- CATECHOL-FUNCTIONALIZED LINEAR- DENDRITIC BLOC COPOLYMERS: BIOMIMETIC ADHESION AND HYDROGELATION</li> <li>17:00-17:20</li> <li>Olga D. Hendrickson Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation ID552- NANOZYME-ENHANCED IMMUNOCHROMATOGRAPHIC ANALYSIS OF FLUOROQUINOLONE OFLOXACIN FOR FOOD CONTROL</li> <li>17:20-17:40</li> <li>Seda Kol Gebze Technical University, Turkiye ID998- Development of Laser-Induced Graphene Sensors for Hazardous Chemical Detection</li> </ul>	<ul> <li>16:00-16:30</li> <li>Jozef Chovan</li> <li>Slovak Centre of Scientific and</li> <li>Technical Information, International</li> <li>Laser Centre, Slovakia</li> <li>(invited speaker)</li> <li>ID775- Desing and optimization of SiON</li> <li>waveguide structure for athermal AWG</li> <li>16:30-17:00</li> <li>Gennady Panin</li> <li>Russian Academy of Sciences, Russian</li> <li>Federation</li> <li>(invited speaker)</li> <li>ID40- Optoelectronic memristor sensor</li> <li>based on low-dimensional crystals</li> <li>17:00-17:30</li> <li>Alexandra Mocanu</li> <li>National Institute for Research and</li> <li>Development in Microtechnologies-</li> <li>IMT Bucharest, Romania</li> <li>ID744- SYNTHESIS OF POLYMER</li> <li>COLLOIDAL NANOPARTICLES WITH</li> <li>OPTICAL AND ELECTROMAGNETIC</li> <li>SHIELDING PROPERTIES</li> <li>17:30-18:00</li> <li>Xia DONG</li> <li>Xi'an Jiaotong University, China</li> <li>(invited speaker)</li> <li>ID739- Experimental study on high</li> <li>quality micro-holes with large aspect</li> <li>ratio in thick metal based on</li> <li>femtosecond laser focus shaping and</li> <li>plasma processing</li> </ul>

		P R O G R A M
		WEDNESDAY, APRIL 09, 2025
		INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER
		YUNUS EMRE 1
SESSION	10:15	Chairperson <b>: Ersin Kayahan</b>
SE	-10	Sake Wang
PLENARY	09:30-	Jinling Institute of Technology, China
PLE	_	"ID35- Two-dimensional Valleytronic Materials: From Principles to Device Applications"

10:15- 10:45	COFFEE BREAK		
	INTERM	BIOMATSEN & NANOMACH	INTERPHOTONICS & SEMIMATER
	ARİSTO	НІРОККАТ	EFLATUN
	Chairperson: Gabriela Berkowicz-Płatek	Chairperson: Vasa Radonic	Chairperson: Ersin Kayahan
PARALLEL SESSIONS 10:45-12:35	<ul> <li>10:45-11:15</li> <li>Gabriela Berkowicz-Płatek</li> <li>Cracow University of Technology, Poland (invited speaker)</li> <li>ID813- Quantitative Analyses of Gas</li> <li>Mixtures Using an Infrared Spectrometer – Methodologies and Example Results</li> <li>11:15-11:45</li> <li>Irina Marinova (invited speaker)</li> <li>Bulgarian Academy of Sciences, Bulgaria ID771- Mesoscopically structured minerals (mesocrystals) in geological processes. A review</li> <li>11:45-12:15</li> <li>Regaya KSIKSI</li> <li>Faculty of Sciences of Tunis, Tunisia (invited speaker)</li> <li>ID802- Synthesis, structural, characterization and antitumoral activity of (NH4)4Li2V10O28.10H2O compound</li> <li>12:15-12:35</li> <li>Taissir Aissa</li> <li>Faculty of Sciences of Tunis, Tunisia ID803- Novel hexa-[methylimidazolium] decavanadate(V) dihydrate: Synthesis, Characterization, and Antiproliferative</li> <li>Effects on IGR39 Melanoma and U87 Glioblastoma Human Cancer Cells</li> </ul>	<ul> <li>10:45-11:15</li> <li>Vasa Radonic</li> <li>BioSense Institute – Research and development institute for information technology in biosystem, Serbia (invited speaker)</li> <li>ID536- ELECTROCHEMICAL DETECTION OF SALMONELLA AND LISTERIA WITH FUNCTIONALIZED MAGNETIC</li> <li>NANOPARTICLES</li> <li>11:15-11:45</li> <li>Samet Kocabey</li> <li>University of Fribourg, Switzerland</li> <li>(invited speaker)</li> <li>ID554- DNA-based biosensors for the detection of cancer-associated nucleic acids and mutations</li> <li>11:45-12:15</li> <li>Livia Alexandra Dinu</li> <li>National Institute for R&amp;D in Microtechnologies (IMT-Bucharest), Romania</li> <li>(invited speaker)</li> <li>ID528- Advancing Electrochemical Sensing and Biosensing with Nanozymes and Artificial Recognition Elements</li> <li>12:15-12:35</li> <li>Fatmanur Kocaman Kabil</li> <li>Gebze Technical University, Turkiye</li> <li>ID994- n-Type Doping of Laser-induced Graphene Using Polyethylenimine for Thermoelectric Applications</li> </ul>	10:45-11:15 Baishi Wang Thorlabs Vytran Division, USA (invited speaker) ID737- Recent Progress of Specialty Fiber Glass Processing and Applications in Fiber Lasers and Micro Photonics 11:15-11:45 Mauro Menichelli INFN Perugia University, Italy (invited speaker) ID41- Hydrogenated Amorphous Silicon sensors on flexible substrates for dosimetry and radiation flux measurements in the HASPIDE Project 11:45-12:05 Serra ULUĞ Bilkent University NANOTAM, Turkey ID770- IMPACT OF MANDREL DIAMETER AND FIBER WINDING LAYERS ON THE SENSITIVITY OF FIBER OPTIC HYDROPHONE 12:05-12:25 Yujie Fan Xi'an Jiaotong University, China 780-Stereo Vision-Based Precise Positioning and Adaptive Laser Processing Path Generation for Aircraft Components
::30- ::15	LUNCH		
	SOCIAL PROGRAM		
13:15-18:00	13:15-18:00 GHOST TOWN & BLUE LA	GOON	
13	(Gathering at Congress registration desk)		

(Gathering at Congress registration desk)

P R O G R A M	
THURSDAY, APRIL 10, 2025	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER	
YUNUS EMRE 1	

-	Chairperson: A.Yavuz Oral		
PLENARY SESSION 10:30-11:15	Imperial College, UK " <b>ID808</b> -Saving Lives with Quantum mid-IR Microscopy"		
11:15- 11:45	COFFEE BREAK		
	INTERM &	BIOMATSEN & NANOMACH & INTERPHOTONICS & SEM	IMATER
	Chairperson: Jun-Hyeog Jang	YUNUS EMRE 1	
PARALLEL SESSIONS 11:45-12:45	<ul> <li>11:45-12:15</li> <li>Jun-Hyeog Jang</li> <li>Inha University School of Medicine, Korea, Republic Of</li> <li>(invited speaker)</li> <li>ID822- Advances in Surface Modification for Bone Tissue Engineering: Image-Based Structural and Functional Enhancements</li> <li>12:15-12:45</li> <li>Stefan Vajda</li> <li>J Heyrovsky Institute of Physical Chemistry, Czech Academy of Sciences</li> <li>(invited speaker)</li> <li>ID932-Subnanometer Clusters in Oxidative Dehydrogenation Reactions: Knobs for Controlling Catalyst Performance in an Atom-by-Atom Fashion</li> </ul>		
12:30- 14:00	LUNCH		
	INTERM ARİSTO	BIOMATSEN & NANOMACH HİPOKRAT	INTERPHOTONICS & SEMIMATER EFLATUN
	Chairperson: Mauro Tortello	Chairperson: Matjaž Kristl	Chairperson: Ersin Kayahan

15:00-15:30 Artur Czerwinski

	<b>ID832-</b> Microglial development in the eye and the potential of eye microglia as a marker for changes in the brain in health and disease	Prince Sultan Military Medical City, Saudi Arabia (invited speaker) ID557- Allergic reactions and toxicity, the dark side of titanium implants	Nicolaus Copernicus University in Torun, Poland (invited speaker) ID742-Optimizing QKD efficiency in fiber-based networks
15:30- 16:00	COFFEE BREAK		

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15:00-15:30

Waleed Alibrahim

15:00-15:20

Runci Li

University College London, UK

	INTERM	BIOMATSEN & NANOMACH	INTERPHOTONICS & SEMIMATER	
	ARİSTO	HİPOKRAT	EFLATUN	
	Chairperson: Adelina-Carmen lanculescu	Chairperson: Danica Bajić	Chairperson: Ersin Kayahan	
	16:00-16:30	16:00-16:30	16:00-16:30	
	Adelina-Carmen Ianculescu	Nilanthy Balakrishnan	Tao Sun	
	National University of Science and	Keele University, UK	Xi'an Jiaotong University, China	
	Technology Politehnica Bucharest, Romania	(invited speaker)	(invited speaker)	
	(invited speaker)	ID962- Substrate-induced strain in	<b>765-</b> In-situ measurement of hole depth in	
	ID827- BaTiO3-BASED FUNCTIONAL	molybdenum disulfide grown by aerosol-	ultrafast laser drilling using optical	
	MATERIALS USED IN ELECTRONICS: FROM	assisted chemical vapor deposition	coherence tomography	
	NANOPOWDERS TO MICRO- AND			
	NANOSTRUCTURED CERAMICS	16:30-17:00	16:30-16:50	
0		Samar Ghopry	Zenglong Xia	
	16:30-16:50	Jazan University, Saudi Arabia	Xi'an Jiaotong University, China	
0-1	Khojakbar Daliev	(invited speaker)	779- Online Measurement Method for	
6:0	"MPEI" National Research University,	<b>ID547-</b> Improving the Sensitivity of Surface-	Aircraft Engine Turbine Blades Based on	
<b>S</b> 1	Uzbekistan	Enhanced Raman Scattering based on Non-	Stereoscopic Vision	
PARALLEL SESSIONS 16:00-18:00	<b>ID796</b> - Generation characteristics of MOS	metallic Plasmonic Nanostructures of	16.50 17.20	
SSI	structures based on monocrystalline silicon	TMDCs/Graphene Heterostructures for	16:50-17:20	
SE	16.50.17.10	Biosensing Applications	Yunqiu Wu	
Ē	16:50-17:10	17:00 17:20	University of electronic science and	
ALI	Sultanpasha Muzafarova	17:00-17:30	technology of china, China	
AR	Research Institute of Semiconductor Physics	Junidah Lamaming	(invited speaker)	
Δ.	and Microelectronics, Uzbekistan	Universiti Malaysia Sarawak, Malaysia	ID31- Graphene Transistor Sensors	
	<b>ID797</b> - Optical and electrophysical properties of transparent conductive layers	(invited speaker) ID938- Isolation of Nanocellulose from Oil	17:20-17:50	
	of metal oxides and sensors based on them	Palm Trunk Biomass Waste using a	Yuehang Xu	
	of metal oxides and sensors based on them	Sustainable Approach	UESTC, China	
	17:10-17:40		(invited speaker)	
	Alex Bondarchuk	17:30-18:00	ID33- RF semiconductor device based on	
	International Iberian Nanotechnology	Danica Bajić	Diamond	
	Laboratory, Portugal	Military Technical Institute, Serbia		
	(invited speaker)	(invited speaker)		
	<b>ID789-</b> Elucidating puzzling asymmetry in	ID983- Polymer blend epoxy/PVB reinforced		
	ionic liquids electro-wetting of solid	with BN nanoparticles as composite material		
	electrodes: step towards single-cell	for advanced applications		
	detection			
		P R O G R A M		
		FRIDAY, APRIL 11, 2025		
		,, - <b></b>		
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER			

YUNUS EMRE 1

Chairperson: A.Yavuz Oral

ESSION

**Tahir Tahirov** 

11:15- 11:45	COFFEE BREAK
PLENARY 10:30-	"ID806- Novel aspects of the RNA-DNA primer synthesis termination by human primosome"
. <b>RY SE</b> 30-11:	University of Nebraska Medical Center, USA

	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER			
	YUNUS EMRE 1			
	Chairperson: Roman Kouril			
PARALLEL SESSIONS 11:45-12:45	11:45-12:15 Roman Kouril Palacky University Olomouc, Czech Republic (invited speaker) ID816- Structural Insights into Photosystem II Supercomplexes Using Cryo-Electron Microscopy 12:15-12:45 Snezana Ilic-Stojanovic University of Niš, Serbia (invited speaker) ID785- Surface morphology and elemental analysis of corrosion changes in stainless steels			
12:30- 14:00	LUNCH			
	INTERM ARİSTO Chairperson: Pawel Weronski	BIOMATSEN & NANOMACH HİPOKRAT Chairperson: Ewa Mijowska	INTERPHOTONICS & SEMIMATER EFLATUN	
PARALLEL SESSIONS 14:00-15:50	14:00-14:30 Pawel Weronski J. Haber Institute of Catalysis and Surface Chemistry, PAS, Poland (invited speaker) ID784- SPECTRAL PARAMETRIZATION OF TWO-DIMENSIONAL SYSTEMS OF RANDOMLY DISTRIBUTED PARTICLES 14:30-15:00 Hadj Yahia Seba University of Ghardaia, Algeria (invited speaker) ID814- Optimizing Porous Silicon Bragg Mirrors for Photonic Crystals: A Study on Fabrication and Characterization 15:00-15:30 Olga Sokolova MSU-BIT University, China (invited speaker) ID804- Structural studies of the earlier stages of bacteriophage PhiKZ infection	14:00-14:30 <b>Ewa Mijowska</b> West Pomeranian University of Technology, Poland (invited speaker) ID957- Zeolitic imidazolate framework (ZIF-67) as a superior platform for electrocatalysts in oxygen evolution reaction – strategies overview 14:30-15:00 Qiao Chen University of Sussex, UK (invited speaker) ID986- Enhanced Photoelectrochemical Water Splitting by improving photon capture and charge separation with sea-urchin like nanomaterials 15:00-15:30 Michael Vigdorowitsch Mousson GmbH, Germany (invited speaker) ID974- METALLIC NANOPARTICLE- ADDITIVES IN GREASES: ELECTRONIC SPILLOVER-RELATED REPULSION	Chairperson: Ersin Kayahan 14:00-14:30 Ivan Fedosov Saratov State University, Russian Federation (invited speaker) ID774- Photobiomodulation During Deep Sleep 14:30-15:00 Christian Andreasen University of Copenhagen, Denmark (invited speaker) ID752- Weed Control with A Fiber Laser: Opportunities and Challenges 15:00-15:30 Walter Raniero LNL-INFN, Italy (invited speaker) ID37- Pulse Laser Melting for Contact/Junction on HPGe Crystal	
15:30- 16:00	COFFEE BREAK	1	I	

16:00-17:50	INTERM & BIOMATSEN & NANOMACH& INTERPHOTONICS & SEMIMATER ARİSTO	
16:0(	Chairperson: Onur Alp Aksan	
PARALLEL SESSIONS	16:00-16:20 Onur Alp Aksan Gebze Technical University, Turkey ID996- Exploring the Impact of Calcination Temperature on the Morphology and Structure of LCC (La0.6Ca0.4CoO3) Nanofibers	

	16:20-16:50		
	Mohamed Sayed Selim		
	Egyptian Petroleum Research Institute (EPRI),		
	Egypt		
	(invited speaker)		
	ID918- Novel Polymer Nanocomposite		
	Surfaces as Superhydrophobic Marine		
	antifouling Coatings		
	16:50-17:20		
	Igor Reshetov		
	Sechenov University, Russian Federation		
	(invited speaker)		
	ID788- Perspectives PDT in synergy methods		
	of cancer treatment		
	17:20-17:50		
	Mariana Ionita		
	National University of Science and		
	Technology Politehnica Bucharest, Romania		
	(invited speaker)		
	ID997- Over two decades of graphene as		
	biomaterial		
ő			
1:3	SPECIAL DINNER WITH INTERM & BIOMATSEN	& NANOMACH PLENARY - INVITED SPEAK	KERS
0-2			
19:30-21:30	(Authentic Turkish Cuisine)		

P R O G R A M
SATURDAY, APRIL 12, 2025

	Chairperson: Ersin Kayahan
PLENARY SESSION 10:30-11:15	Ahmed Hassanein Purdue University, USA ID729- Challenges in Achieving Nuclear Fusion for Future Energy Production
11:15- 11:45	COFFEE BREAK
	Chairperson: A.Yavuz Oral

PLENAF 11:4	"ID781- Micro-spectroscopic analysis of complex biological systems"
12:30- 14:00	LUNCH

	INTERM	BIOMATSEN & NANOMACH	INTERPHOTONICS & SEMIMATER
	ARİSTO	HİPOKRAT	EFLATUN
	Chairperson: Ali ASSAF	Chairperson: Izabela Kuryliszyn-Kudelska	Chairperson: Ersin Kayahan
PARALLEL SESSIONS 14:00-15:30	<ul> <li>14:00-14:30</li> <li>Ali ASSAF</li> <li>Nantes Université, France <ul> <li>(invited speaker)</li> </ul> </li> <li>ID766- Ensuring the Authenticity of Organic</li> <li>Food Products by Raman Spectroscopy:</li> <li>Challenges and Opportunities for Industries</li> </ul> <li>14:30-15:00 <ul> <li>Irina Shtangeeva</li> <li>St. Petersburg State University, Russian</li> <li>Federation <ul> <li>(invited speaker)</li> </ul> </li> <li>ID824- Application of Raman spectroscopy for characterizing soil material. Results of field experiments</li> </ul> </li> <li>15:00-15:30 <ul> <li>Oana Brincoveanu</li> <li>National Institute for Research and Development in Microtechnologies -IMT Bucharest, Romania <ul> <li>(invited speaker)</li> </ul> </li> <li>ID780- Morphological and Structural <ul> <li>Characterization of Metal Oxide-Based</li> <li>Materials for Advanced Optoelectronic</li> <li>Applications</li> </ul> </li> </ul></li>	14:00-14:30 Izabela Kuryliszyn-Kudelska Instutute of Physics PAS, Poland (invited speaker) ID950- Magnetic Nanocomposites for Biomedical Applications and Electromagnetic Interference Shielding: Influence of Synthesis Methods and Conditions on Magnetic Properties 14:30-15:00 Yiğit Küçükçobanoğlu Ege University, Turkey (invited speaker) ID946- Charterization and Dye Removal Potential for Green Synthesized Cellulose- based Silver Nanocomposites 15:00-15:30 Taras Kavetskyy Slovak Academy of Sciences, Slovakia (invited speaker) ID558- FREE VOLUME IN POLYMERS AND NANOCOMPOSITES FOR BIOSENSORS	14:00-14:30 Nikita Navolokin Saratov State University, Russian Federation (invited speake) ID772- THE EFFECTIVENESS OF PHOTOSTIMULATION OF AGING BRAIN 14:30-15:00 Fayçal Bouzid Research Center in Industrial Technologies CRTI, Algeria (invited speaker) ID766- Parametric study and optimization of CdS/CdTe heterojunction solar cell 15:00-15:30 Erik Cerwen Sweden (invited speaker) ID762- Beyond the Energy-Level Description of Electromagnetic (EM) Wave – Matter Interactions
15:30- 16:00	COFFEE BREAK		
	INTERM	BIOMATSEN & NANOMACH	INTERPHOTONICS & SEMIMATER
	ARISTO	HİPOKRAT	EFLATUN
	Chairperson: Cristina Ionela Pachiu	Chairperson:	Chairperson:
<b>SSIONS</b> 16:00-17:30	16:00-16:30 <b>Cristina Ionela Pachiu</b> National Institute for Research and Development in Microtechnologies (IMT- Bucharest), Romania <b>(invited speaker)</b> <b>ID772</b> - Raman Microscopy and Spectroscopy of Carbon Nanocomposite Materials for EMI Shielding Performance		
SS	16:30-17:00		

SE	10.50-17.00		
	Violeta Oro		
PARALLEL	Institute for Plant Protection and		
AR/	Environment, Serbia		
2	(invited speaker)		
	<b>ID819-</b> APPLICATION OF MICROSCOPY IN		
	IDENTIFICATION OF WATER POLLUTANTS		
	17:00-17:30		
	Irena Kostova		
	Medical University, Bulgaria		
	(invited speaker)		
	<b>ID812</b> - Anticancer and antioxidant activity of		
	Ln(III) complexes of bioactive coumarins		

	FOYER (Poster Session Area)
8:30	Chairperson: A. Yavuz Oral
17:30-18:30	POSTER SESSION
17	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER
9:30-21:30	SPECIAL DINNER WITH INTERPHOTONICS & SEMIMATER PLENARY - INVITED SPEAKERS (Authentic Turkish Cuisine)
19:0	
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	P R O G R A SUNDAY, APRIL	
	INTERM & BIOMATSEN & NANOMACH &	INTERPHOTONICS & SEMIMATER
	INTERM & BIOMATSEN & NANOMACH	<b>INTERPHOTONICS &amp; SEMIMATER</b>
	ARİSTO	EFLATUN
	Chairperson: Ivan Savic	Chairperson: Ersin Kayahan
PARALLEL SESSIONS 10:00-12:30	10:00-10:30 Ivan Savic University of Niš, Serbia (invited speaker) ID549 - Natural Polysaccharides for the Preparation of Hydrogels as Drug Carriers: Challenges and Innovations 10:30-10:50 Klaudia Zielinkiewicz West Pomeranian University, Poland ID958 - Exohedrally functionalized Singlewalled carbon nanotubes in oxygen evolution reaction 10:50-11:20 Amira Raudhah Abdullah Universiti Sains Islam Malaysia, Malaysia (invited speaker) ID539 - Dual Growth Factor-Integrated Engineered Hydroxyapatite (HA) Scaffold With Alendronate For Osteoinductive Bone Repair 11:20-11:50 Nadia Mohd Effendy Universiti Sains Islam Malaysia, Malaysia (invited speaker) ID546 - Bone Protective Effects of Ficus carica on Biomechanical Bone Strength of Postmenopausal Osteoporotic Rat Models. 11:50-12:20 Ivana Savic Gajic University of Niš, Serbia (invited speaker) ID550 - Hydrogels as Material Carriers for Microbial Cultivation in Biocarpet Engineering	10:00-10:30 <b>Stefan Karlsson</b> Swedish Defense Research Agency, Sweden (invited speaker) ID777- Analyzing polarization-induced signatures due to mechanical vibrations on an optical fiber 10:30-11:00 <b>Atsushi Ono</b> Shizuoka University, Japan (invited speaker) ID763- Enhanced Sensitivity and Speed in Surface-Normal InGaAs Photodetectors through Waveguide-Plasmon Coupling with Au Gratings 11:00-11:30 <b>Hossein Roghani-Mamaqani</b> Sahand University of Technology, Iran (invited speaker) ID776- Optical Polymeric Sensors
12:30- 13:15	LUNCH	

# 99 99 91 91 91 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND (Gathering at Congress registration desk)

	P R O G		
	MONDAY, AP	RIL 14, 2025	
30	YUNUS EMRE 1		
09:45-10:	Chairperson: A.Yavuz Oral		
<b>PLENARY SESSION</b> 09:45-10:30		nas Webster y of Technology, China	
д.	"ID526- How Have We Eliminated Infection? Nanotechnology Human Clinical Studies"		
-00:11 -0E:01			
	INTERM & BIOMATSEN & NANOMACH	INTERPHOTONICS & SEMIMATER	
	ARİSTO	EFLATUN	
	Chairperson: Olga Pechanova	Chairperson: Ersin Kayahan	
PARALLEL SESSIONS 11:00-12:00	<ul> <li>11:00-11:30</li> <li>Olga Pechanova</li> <li>Slovak Academy of Sciences, Slovakia</li> <li>(invited speaker)</li> <li>ID543- Polymeric nanoparticles in the treatment of hypertension and hyperlipidemia</li> <li>11:30-12:00</li> <li>Valery Pierre Vassiliev</li> <li>Lomonosov Moscow State University, Russian Federation</li> <li>(invited speaker)</li> <li>ID923- Optimization of Heat Capacities of Wurtzite and Sphalerite</li> </ul>	<ul> <li>11:00-11:30</li> <li>Michal Hricovini</li> <li>Slovak Academy of Sciences, Slovakia</li> <li>(invited speaker)</li> <li>758- NMR and DFT studies of the photochemically induced processes o quinazolinone-based glycoconjugate</li> <li>11:30-12:00</li> <li>Uwe Bandelow</li> <li>WIAS Berlin, Germany</li> <li>(invited speaker)</li> <li>ID749- Unusual Wave-mixing processes in the context of Modulation</li> </ul>	
2:00	Phases as a Single System and Thermodynamic Properties of Nihonium Nitride Hotel Check Out	Instability	

PROGRAM LEGEND DESCRIPTIONS			
ID-	INTERM 2025 oral presentations		
ID-	BIOMATSEN 2025 oral presentations		
ID-	NANOMACH 2025 oral presentations		
ID-	INTERPHOTONICS 2025 oral presentations		
ID-	SEMIMATER 2025 oral presentations		

## POSTER PROGRAM

## SATURDAY, APRIL 12, 2025

## 17:30-18:30

### FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION

## INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS & SEMIMATER

ID	TITLE	CONTACT AUTHOR
818	Photoinduced rearrangement of chromones to form fluorescent products. Influence of UV-irradiation and magnetic action.	Mikhail Krayushkin
777	A scanning electron microscopic (SEM) investigation on the structure and micromorphology of aerial organs from Echium vulgare L.	Irina Neta Gostin
783	Microstructural analysis of the brain extracellular matrix and glia based on confocal microscopy and artificial intelligence tools	Anastasiia Melnikova
778	Using Scanning Electron Microscopy in exploring the morphology of Antrocephalus hypsopygiae (Hymenoptera: Chalcidoidea: Chalcididae)	Irinel Eugen Popescu
805	Wet spun biodegradable and biocompatible 3D composite materials for medical applications	Tomasz Witko
809	Production of biopolymers as an example of the applicability of a circular strategy	Mariusz Sołtysik
826	INSIGHTS IN THE USE OF HYDROXYAPATITE-DOPED COATINGS WITH MAPLE DEPOSITION TECHNIQUE	Bogdan Stefan Vasile
828	Porous scaffolds based on partially crystallized bioglasses - synthesis and characterization	Adrian Ionut Nicoara
787	Synthesis and characterization of cross-linked poly(N-(2 hydroxyethyl)acrylamide)	Snezana Ilic-Stojanovic
795	Achievements of the Research Institute of Semiconductor Physics and Microelectronics of The National University of Uzbekistan	Sharifa Bekmuradovna
544	Biomaterial Patches for Vascular Remodelling: A comprehensive review of innovations in healing and regeneration	Nur Nabilah Abu Bakar
545	Magnetron Sputtering of Ta-Cu Oxides and Nitrides onto Medical Products to Increase Their Bactericidal Resistance Along with Reduced Coating Cytotoxicity	Yuliya Safarova (Yantsen)
954	Tailoring Titanium Oxide Nanotube Arrays for High-Performance Explosive Gas Sensors	Catalin Parvulescu
988	Optical, electrical and structural properties of sol-gel ZnO nanocomposite thin films	Vladimir Dulev
919	Removal of amoxicillin and paracetamol from water by carbon from peanuts skin waste material	Ntaote David Shooto

920	One pot synthesis of Fe3O4-chili carbon composite removing methylene blue, paracetamol and nickel ions from an aqueous solution	Patience Thabede
984	Thermoplastic/thermosetting polymer blends reinforced with tungsten disulfide nanostructures as promising wear and cavitation-resistant coatings	Danica Bajić
931	Electronic and Structural Properties for Small Clusters of Tan, Nbn (n = 2- 10) and Tan -Nbm (n+m = 2, 3, 4, 5, 8, and 9)	Hussain Alathlawi
993	EFFECT OF MICROENCAPSULATED PCM ADDITION ON THE THERMAL CONDUCTIVITY OF CARBON FIBER REINFORCED EPOXY COMPOSITES FOR BATTERY THERMAL MANAGEMENT SYSTEMS	Melisa Yeke
961	Ultrasonic treatment of Cr(III) nanocat catalyst and its application in liquid- phase oxidation of undecane and pentadecane	Aygun Aliyeva
787	Q-SWITCHED AND GAIN-SWITCHED FIBER LASERS OPERATING IN PULSED AND CONTINIOUS MODES	Ekaterina Maslova
723	IMPROVED AUTONOMOUS VEHICLE SENSORS, CONTROL AND DEVELOPMENT FOR APPLICATIONS IN COMMERCIAL AND INDUSTRIAL VEHICLES	Glen Bright
772	THE EFFECTIVENESS OF PHOTOSTIMULATION OF AGING BRAIN	Nikita Navolokin

