

Sunday, 28th of June

18:00 – 19:00

CONFERENCE REGISTRATION

Carpathian Hall

Monday, 29th of June

8:00 – 9:00

CONFERENCE REGISTRATION

Carpathian Hall

9:00 – 9:30

CONFERENCE OPENING

Morning session 1 -AI-Driven Optical and Energy Systems

Co-chairs: Nicu SCARISOREANU, Thomas LIPPERT

9:30 – 10:15	Plenary 1	Silke CHRISTIANSEN	Scale-Bridging Multi-Modal Analytics in Energy Research: Harnessing Data Correlation and Machine Learning for Enhanced Materials and Device Optimization
10:15 – 10:30	O-01	Alexandru CRACIUN	Software-in-the-Loop Simulation of an Adaptive-Optics Control Loop for a Multi-kW Laser Beam Delivery System
10:30 – 11:00	I-17	Virgil DUMA	Laser Scanning for Optimizing Optical Coherence Tomography-Based Imaging

11:00 – 11:30

COFFEE BREAK

Morning session 2 – Ultrafast Laser Processing and Diagnostics

Co-chairs: Felix SIMA, Stefan STANCIU

11:30 - 12:00	I-02	Koji SUGIOKA	Ultrahigh-Speed, Ultrahigh-Aspect-Ratio Glass Through-Hole Drilling using a Single Ultrafast Bessel Pulse in GHz Burst Mode
12:00 – 12:30	I-03	Yves BELLOUARD	Three Decades of Innovation in Femtosecond Laser Functionalization of Glass Substrates: From Pioneer Works Reaching Industrial Maturity to Challenges and Opportunities
12:30 – 13:00	I-04	Olivier UTEZA	In-operando Sub-picosecond X-ray Diagnostics for High-Resolution Material Analysis and Imaging

13:00 – 14:30

LUNCH – TOSCA restaurant

Afternoon session 1 - Functional Materials for Energy Technologies

Co-chairs: Valentin CRACIUN, Catalin CONSTANTINESCU

14:30 – 15:00	I-05	Sergiu VATAVU	Chromogenic Coatings for Energy Efficient Windows
15:00 – 15:15	O-02*	Elena BANCU	Large-Area Pulsed Laser Deposition Growth of Transparent Conductive Al-Doped ZnO Thin Films
15:15 – 15:45	I-06	Fabio Di PIETRANTONIO	Advanced Functional Materials for Hydrogen Storage and Piezomagnetic Transduction

15:45 – 16:15

COFFEE BREAK

Afternoon session 2 - Life Science Applications

Co-chairs: Silke CHRISTIANSEN, Olivier UTEZA

16:15 – 16:45	I-07	George SARAU	Correlative Spectroscopy and Microscopy Analysis of Micro- and Nanoplastics and Their Effects on Cells and Tissues
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Student Posters Pitch

16:45 – 16:50	P-01*	Cristina CRACIUN	Modelling the Growth of Tungsten Oxides Thin Films by Deposition of Aggregates Formed in Plasma
16:50 – 16:55	P-02*	Jonathan REID	Decoding Electron-CF ₄ Interactions in Plasma Processing
16:55 – 17:00	P-07*	Paul Wilhelm RAUECKER	Numerical Correlations of Temperature-Driven Modifications of Nanostructured Surfaces
17:00 – 17:05	P-13*	Beatrice PARASCHIV	High-Energy Pulsed Electron Beam-Induced Phase Transitions in a Plasma-Levitated Crystalline Dust Cluster
17:05 – 17:10	P-42*	Cristian ZAGAR	Reduced Graphene Oxide based Chemiresistive Sensors for Hydrogen Detection
17:10 – 17:15	P-44*	Andrei-Silviu ZANCU	ZnO based Chemoresistive Sensing Devices for Multipurpose Detection
17:15 – 17:20	P-45*	Elisa-Gabriela BROASCA	MgPc: C Chemiresistive Sensor for Detection of Inflammatory Gases at Room Temperature
17:20 – 17:25	P-92*	Ionut Petrisor UNGUREANU	Long-Range Interaction and Oscillation Control in Hanging Droplets

19:00 - 21:00

WELCOME RECEPTION – GATSBY restaurant

Tuesday, 30th of June

CONFERENCE REGISTRATION

8:30 – 9:00

Carpathian Hall

9:00 – 9:30

WORKSHOP OPENING CEREMONY

Morning session 3 - Advanced Materials and Devices

Joint session with 1st Workshop on National Innovation Ecosystems for Microelectronics and Photonics

Co-chairs: Fabio Di PIETRANTONIO, Yves BELLOUARD

9:30 – 10:00	I-08	Thomas LIPPERT	Thin Film Batteries Prepared by Physical Vapour Deposition (PVD) Methods
10:00 – 10:15	O-03	Camélia GHIMBEU	3D Printed Carbon Materials: Fabrication Challenges and Applications
10:15 – 10:30	O-04	Mihai ZAMFIR	Semi-industrial Level Manufacturing Process of Chemoresistive Gas Sensing Devices
10:30 – 11:00	I-09	Andrei MARDARE	Anodic Memristors: A new Generation of Nanoscale Devices for Memory and Artificial Synapse Applications

11:00 – 11:30

COFFEE BREAK

Morning session 4- Plasma Medicine

Co-chairs: Bogdana MITU, Kinga KUTASI

11:30 – 12:15	Plenary 2	Sander BEKESCHUS	The Promises and Challenges of Plasma Medicine and Oncology
12:15 – 12:30	O-05	M.S. ROOPESH	Application of Plasma Chill Spray Technology for Inactivation of Escherichia Coli Biofilms on Stainless Steel Surfaces
12:30 – 13:00	I-10	Ionut TOPALA	Advanced Monitoring of Air Non-Thermal Plasma Sources: Key Applications

13:00 – 14:30	LUNCH – TOSCA restaurant		
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Afternoon session 3 - Laser Materials

Co-chairs: **Nicolaie PAVEL, Koji SUGIOKA**

14:30 – 15:00	I-11	Daniel VIZMAN	Tailoring Optical Properties in Fluoride Crystals via Tb and Tm Incorporation
15:00 – 15:15	O-06	Lucian GHEORGHE	LaxNdyGdzYwSc _{4-x-y-z-w} (BO ₃) ₄ - LGYSB:Nd, a New High-Performance Near-Infrared Laser Crystal
15:15 – 15:30	O-07	Madalin GRECULEASA	Growth and Characterization of Bifunctional Nd:LGSB Crystals
15:30 – 16:00	I-12	Erik BECKERT	Packaging Technologies for Robust, Hybrid Laser Systems

16:00 – 16:30	COFFEE BREAK		
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16:30 – 18:00	POSTER SESSION 1		
	Co-chairs: Adrian PETRIS, Camélia GHIMBEU, Dani GALLART		

Wednesday, 1st of July

CONFERENCE REGISTRATION

8:30 – 9:00

Carpathian Hall

Morning session 5 - Plasma and Laser-Based Materials for Biomedical Applications

Co-chairs: **Ionut TOPALA, Fiorenza FANELLI**

9:00 – 9:30	I-13	Hiromasa TANAKA	Plasma-Activated Liquids: From Fundamental Science to Biomedical Applications
9:30 – 9:45	O-08	Achim HASSEL	On the Stability of Passive Films on Dental Titanium Under Harsh Chemical and Physical Conditions
9:45 – 10:15	I-14	Kinga KUTASI	Plasma-Activated Colloids for Bioapplications: Characteristics of a Surface-Wave Microwave Discharge and Design of Laser Ablation in Liquid System
10:15 – 10:45	I-15	Catalin CONSTANTINESCU	Pulsed Laser Ablation in Liquids of MnZn Ferrites: From Green Synthesis to Sustainable Nanomagnetic Devices

10:45 – 11:15	COFFEE BREAK		
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Morning session 6 - Advanced Diagnostics, Imaging and Computational Physics

Co-chairs: **Erik BECKERT, Virgil DUMA**

11:15 – 11:45	I-16	Dani GALLART ESCOLA	Advancing Spherical Torus Proton–Boron Fusion: Physics, Technology, and AI-Enabled Control
11:45 – 12:00	O-09*	Ligia POMARJANSCHI	Gyrokinetic Validation Framework for Statistical Test-Particle Transport Models
12:00 – 12:15	O-10*	Irina BRADU	A Low-Cost, Open-Source Single-Photon Detection System
12:15 – 12:45	I-01	Stefan G. STANCIU	Advances in Scattering-Type Scanning Near-Field Optical Microscopy: From Quantitative and Correlative Nanoscale Characterization to AI-Enhanced Imaging

12:45 – 14:15	LUNCH – TOSCA restaurant		
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15:00 – 22:00	EXCURSION		
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Thursday, 2nd of July

CONFERENCE REGISTRATION

8:30 – 9:00

Carthian Hall

Morning session 7 - Laser Nanostructuring and Nonlinear Optical Materials

Co-chairs: Fang YANG, Daniel VIZMAN

9:00 – 9:45	Plenary 3	Razvan STOIAN	Programmable Laser Nanostructuring
9:45 – 10:00	O-11	Adrian PETRIS	Near-Infrared Optical Limiting in the Novel Nonlinear Optical Compound DNA-Biopolymer - Spirulina Natural Dye
10:00 – 10:15	O-12	Alin BROASCA	Efficient Diode-Pumped Laser Operation in Nd-doped LYSB Nonlinear Optical Crystal
10:15 – 10:45	I-18	Xxx SEDAO	Ultrafast Laser for Biomimetic Surfaces and Their Applications
10:45 – 11:00	O-19	Alexei ZUBAREV	PW-class Laser: Compact Electron Accelerator and High-Peak Power THz Source

11:00 – 11:30

COFFEE BREAK

Morning session 8 - Optical Imaging and Cancer Theranostics

Co-chairs: Xxx SEDAO, Hiromasa TANAKA

11:30 - 12:00	I-19	Daniel FARKAS	Biomedical Optical Imaging for Translational Diagnostics and Treatment: From 3D Optical Biopsies to Pixel-precision Laser Theranostics
12:00 – 12:15	O-13*	Alexandra BRAN	Two Photon Polymerization of 3D Porous Structures for Evaluation of X-ray Radiation Effect on Cancer Cells
12:15 – 12:30	O-14	Tatiana TOZAR	In situ Optical Monitoring of UV-crosslinked Hydrogels for the Controlled Delivery of Motexafin Lutetium in Breast Cancer Phototheranostics
12:30 – 13:00	I-20	Fang YANG	Metal-Doped Functional Nanoprobes for Multimodal Imaging-Guided Synergistic Tumor Theranostics

13:00 - 14:30

LUNCH – TOSCA restaurant

Afternoon session 4 - Plasma Surface Engineering and Environmental Sensing

Co-chairs: Eva KOVACEVIC, Martin CADA

14:30 – 15:00	I-21	Fiorenza FANELLI	Advancing Atmospheric Pressure Plasma Surface Engineering for Environmental and Catalytic Applications
15:00 – 15:15	O-15	Rosalba GAUDIUSO	Nanostructured Sensing Platforms for Trace Element Analysis via Laser-Induced Breakdown Spectroscopy (LIBS)
15:15 - 15:45	I-22	Paula NAVASCUÉS	Catalytic Plasma Coatings for Remediation Challenges within the Planetary Boundaries Framework

15:45 – 16:15

COFFEE BREAK

POSTER SESSION 2

16:15 – 17:45

Co-chairs: Andrei MARDARE,
Angela STAIU, Paula NAVASCUÉS

20:00 – 24:00

Gala Dinner – FOREST restaurant

Friday, 3rd of July

CONFERENCE REGISTRATION

9:00 – 9:30

Gatsby Hall

Morning session 9 - High-Power Laser

Co-chairs: Razvan STOIAN, Gabriel SOCOL

9:30 – 9:45	O-16	Aurelian MARCU	ZnO Nanowire on Thick Targets in Laser Particle Acceleration
9:45 – 10:00	O-17	Valentin CRACIUN	Development of Ultra-Low Density Foam Targets to Enhance fs-Laser-Plasma Coupling
10:00 – 10:15	O-18	Liviu NEAGU	Laser-Driven Gamma Irradiation for Industrial Imaging First-Stage Station: Concept, Setup & Experimental Validation
10:15 – 10:30	O-20*	Cecilia OANCA	Coherent Beam Combination of Two Terrawatt Femtosecond Laser Pulses
10:30 – 10:45	O-21	Razvan DABU	Advanced Techniques for Coherent Beam Combination of High-Power Ultrashort Laser Pulses

10:45 – 11:15

COFFEE BREAK

Morning session 10 - Materials Engineering

Co-chairs: Achim HASSEL, Sergiu VATAVU

11:15 – 11:45	I-23	Martin ČADA	Process Characterisation of High-Entropy Transition Metal Disulphides Deposited by R-HiPIMS in H ₂ S Atmosphere
11:45 - 12:00	O-22	Stefan IRIMICIUC	Engineering High-Entropy Alloy Thin Films by Pulsed Laser Deposition for Tunable Microwave Absorption
12:00 – 12:30	I-24	Eva KOVACEVIC	Low Temperature Plasmas for 2D and 3D Materials

12:30 – 12:45

Conference Closing Ceremony & Awards

12:45 – 14:15

LUNCH – TOSCA restaurant

POSTER SESSION 1

Tuesday, 30th of June, 16:30 - 18:00

Co-chairs: Adrian PETRIS,
Camélia GHIMBEU, Dani GALLART

Fundamentals, Diagnostics and Modelling in Laser, Plasma and Radiation Physics

P-01*	Cristina CRACIUN	Modelling the Growth of Tungsten Oxides Thin Films by Deposition of Aggregates Formed in Plasma
P-02*	Jonathan REID	Decoding Electron-CF ₄ Interactions in Plasma Processing
P-03	Adrian SCURTU	Thermal and Chemical Choking in Pulsed Plasma CO ₂ Dissociation: Mitigation Through Volumetric Expansion
P-04	Teddy CRACIUNESCU	Multifractal Analysis for Fusion Plasma Disruption Prediction
P-05	Andreea GROZA	Deuterium Desorption from Tungsten Layer by Laser-Based Methods
P-06	Radu SAPUNARU	Microscopic Insights into the Limitations of the Decorrelation Trajectory Method
P-07*	Paul Wilhelm RAUECKER	Numerical Correlations of Temperature-Driven Modifications of Nanostructured Surfaces

P-08	Claudiu HAPENCIUC	Quantitative Nanoscale Thermal Conductivity Measurements using DC Scanning Thermal Microscopy
P-09	Alexandra Maria Isabel TREFILOV	Influence of Thermal Relaxation Time on the Improved Generalized Bioheat Equation: A Comparative Analytical-Numerical Study
P-10	Valentin NICULESCU	Humphreys α -Line in H-I and the Solar Spectra via Quantum Spectral-Model
P-11	Simona BRAJNICOV	Early-Time Dynamics in Polymer and Metal LIFT
P-12	Nicoleta UDREA	Quantitative Imaging of Regolith Ejection Dynamics under Electron Beam Exposure
P-13*	Beatrice PARASCHIV	High-Energy Pulsed Electron Beam-Induced Phase Transitions in a Plasma-Levitated Crystalline Dust Cluster
P-14	Maria-Luiza MITU	Machine Learning-Based Prediction of Microparticle Dynamics in Externally Driven Strongly-Coupled Dusty Plasmas
P-15	Georgian-Razvan UNGUREANU	Towards ML-Stabilized Coherent Beam Combining using Single-Shot Complex Characterization of Ultrashort Laser Beam Pulses
P-16	Alexandru MIHALCEA	Real-Time Beam Pointing Control System Design for CETAL-PW Front-End Laser
P-17	Valentin CRACIUN	High-Energy (Joule-Level) Pulse Post-Compression for Ultrafast Laser - Plasma Applications
P-18	Darius-Adrian VESTEA	Study of Giant Electro-Magnetic Pulses in Laser-Thin Foil Interactions at Varying Laser Powers at PW Regime

Advances in Optics, Laser and Photonics

P-19	Virgil-Florin DUMA	Study of Laser Scanners with Rotational Refractive Polygons
P-20	Ana DINCA	Optical Path Control using Quadrature Signal Detection
P-21	Diana-Ioana COSAC	Error Analysis of a Metrology System for LISA
P-22	Mihai SERBANESCU	Development of a Control System of a Laser Source for ns Emission Spectral Detection of Hydrogen and Deuterium Incorporated in Boron Deuterium Layers
P-23	Petronela GHEORGHE	Ultrathin MoS ₂ Layers for Applications in Sensing and Photonics
P-24	Cristian MILOS	In-Situ and Real Time Measurement of Laser Induced Damage Threshold of Metallic Thin Films used for ns and fs-Laser Mirrors
P-25	Valentin CRACIUN	Investigation of Cleaning of Laser Carbonized Mirrors by Wet Washing Procedures
P-26	Catalina Alice SUSALA	Exploring Direct Diode Pumping Advantages - the Case of Nd:LGsB Laser Crystal
P-27	Catalina Alice SUSALA	Self Q-switched Mode-Locked Laser Operation of Nd:LGsB Crystal under Direct Pumping
P-28	Flavius VOICU	Fabrication and Laser Performance of Multilayered Yb ³⁺ :Y ₂ O ₃ Transparent Ceramics
P-29	Cristina GHEORGHE	Photoluminescence Investigation and Up-Conversion Behavior Under Different Excitation Wavelengths of (Er, Tm, Yb) Doped CdF ₂ Single Crystal
P-30	Cristina GHEORGHE	A Multimodal Temperature Sensing Based on Up-Conversion Luminescence of (Er, Y) Co-Doped Fluorite Crystals

P-31	Cristina GHEORGHE	Upconversion Properties and Optical Temperature-Sensing Performance in the Visible and Near-Infrared Region Based on Luminescence Intensity Ratio in a New Er^{3+} : SrLaGaO_4 Phosphor
P-32	Ana-Maria VOICULESCU	Excited-state absorption in low-concentrated Er: SrLaGaO_4 ceramic phosphors
P-33	Ana-Maria VOICULESCU	Dynamics of Excited States $^4\text{I}_{13/2}$ and $^4\text{I}_{11/2}$ of Er^{3+} in Ca:CaF_2
P-34	Cristina TIHON	Influence of Vacuum Sintering on the Microstructure and Spectroscopic Properties of Eu^{3+} -Doped SrTiO_3 Ceramics
P-35	Catalina STANCIU	Controlled Synthesis and Spectroscopic Investigation of Eu-doped SrTiO_3 Ceramics
P-36	Ana-Maria VOICULESCU	Eu^{3+} -Doped $\text{BiTa}_7\text{O}_{19}$: A New Red Phosphor
P-37	George STANCIU	Inhomogeneous Line Broadening in Y_2O_3 Laser Ceramics
P-38	George Tony CONSTANTIN	Influence of Cerium on Radiation-Induced Attenuation in Long-Period Gratings (LPG) and Fiber Bragg gratings (FBG) Optical Fiber Sensors
P-39	Alexandru CRACIUN	Thermal Management of High-Power Laser Diodes using Optimized Microchannel Cooling Plate

Energy Production and Storage

P-67	Cristina CRACIUN	Tailored WO_3 -Based Heterostructures for Electrochromic Applications
P-68	Mihaela FILIPESCU	Tailoring Nanostructured WO_3 Thin Films for Transparent Electrode Applications
P-69	Alexandra Maria Isabel TREILOV	Hybrid Proton-Exchange Membrane Architecture Combining Perfluorosulfonated Polymers with a Resorcinol-Formaldehyde Hydrogel Network for Energy-Efficient PEM Fuel Cell Applications
P-70	Sorin VIZIREANU	Deposition of Boron Layers by PECVD at Low and High Deposition Rates using Diborane as Precursor
P-71	Claudian Teodor FLEACA	Synthesis of Nanostructured Materials ($\text{Fe}_2\text{O}_3/\text{SiO}$) for Nanofluids as Heat Transfer Agents
P-72	Claudian Teodor FLEACA	New Complex Nanofluids Based on Laser Pyrolysis Synthesized Si-SiC Nanoparticles and Natural Aluminosilicate Short Nanotubes

Life Sciences Applications

P-84	Diana-Elena DRAGHICI	Nanocomplexes for X-Ray-Activated Photodynamic Therapy
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POSTER SESSION 2

Thursday, 2nd of July, 16:15 - 17:45

**Co-chairs: Andrei MARDARE,
Angela STAIU, Paula NAVASCUÉS**

Environmental Protection and Pollutants Monitoring

P-40	Iulia ANTOHE	Hydrogen Gas Detection using a Fiber-Optic-Based Plasmonic Sensor
P-41	Gianina POPESCU-PELIN	Pulsed Laser Deposited AZO and $\text{Al}_2\text{O}_3/\text{AZO}$ Coatings for H_2 Selective Gas Sensor Structures
P-42*	Cristian ZAGAR	Reduced Graphene Oxide based Chemiresistive Sensors for Hydrogen Detection

P-43	Luiza Izabela TODERASCU	Influence of ZnO-based Nanostructure Morphology on Gas Sensing Performance
P-44*	Andrei-Silviu ZANCU	ZnO based Chemoresistive Sensing Devices for Multipurpose Detection
P-45*	Elisa-Gabriela BROASCA	MgPc: C Chemiresistive Sensor for Detection of Inflammatory Gases at Room Temperature
P-46	Andrei STOCHIOIU	Room-Temperature Chemiresistive Ammonia Sensor: Electron Beam Irradiation for Enhanced Performance
P-47	Gabriel SOCOL	Development of Laser-Reduced Graphene Oxide (rGO) Sensors for Gas Detection
P-48	Mihai SOPRONYI	ABO ₃ Thin Films for SAW Sensors
P-49	Andrei-Silviu ZANCU	Influence of Gas-Phase Parameters on the Properties of TiO ₂ Nanopowders Synthesized by Laser Pyrolysis
P-50	Iulia ANTOHE	Polyoxometalate-Functionalized Optical Fiber SPR Sensors for Detection of Organic Pollutants in Aqueous Media
P-51	Adriana SMARANDACHE	Engineered Laser Photodegradation: A Promising Strategy for Mitigating Micro- and Nanoplastic Pollution in Aquatic Environments
P-52	Cristian UDREA	Heavy Metals Detection in Soil by Terahertz - Time Domain Spectroscopy Method
<i>Devices Based on Photonic and Plasma Technologies</i>		
P-53	Dorin MOLOVATA	Real-Time Spatio-Temporal Measurement of Electromagnetic Field using Magneto-Optical Crystals
P-54	Nicoleta ENEA	Versatile Pixelated Scintillators: Advancing Medical and Industrial Performance
P-55	Carmen BREAZU	Organic Light Emitting Transistors based on Organic Semiconductors and Nanostructured Dielectric Interface
P-56	Marcela SOCOL	Indium Tin Oxide Films Prepared on Patterned Flexible Substrates by Pulsed Laser Deposition
P-57	Stefan Andrei IRIMICIUC	Development of Broadband Dielectric Mirrors Based on HfO ₂ and ZrO ₂ coatings
P-58	Mihaela FILIPESCU	Vanadium Dioxide Thin Films for Adaptive Infrared Stealth
P-59	Mihaela FILIPESCU	A comparative study of Vanadium Oxides Deposited by PLD for Infrared Stealth
P-60	Daniela DOBRIN	The Influence of Angular Anisotropy in Pulsed Electron Beam Deposition on Oxide Thin Films Growth
P-61	Nicu SCARISOREANU	Functional Oxide Heterostructures: Structure-Property Correlations and Interface-Driven Phenomena
P-62	Marius-Teodor MOCANU	Effect of Nitrogen Content on Physical and Mechanical Properties of Tantalum Nitride Films
P-63	Cristian LUNGU	Carbon-Metal Composite Coatings Obtained by DC Sputtering
P-64	Iuliana URZICA	Morphological Transfer of Superhydrophobic Features from Laser-Ablated Metallic Molds to Flexible Polymer Replicas
P-65	Natalia MIHAILESCU	Microwave Plasma-Synchronized Co-Vaporization Enables Plasmon-Free, Interface-Dominated Optical Response at Sub-Percent Metal Loadings
P-66	Bogdana MITU	Evaluation of a DBD Linear Plasma Source for Pest Control

Life Sciences Applications

P-73	Laurentiu RUSEN	Ceramic-Composites Surfaces for Pareodontal Applications
P-74	Andreea GROZA	Physicochemical Properties of Calcium Phosphate - Poly(methyl methacrylate) Composite Layers Produced by Radio Frequency Magnetron Sputtering Technique
P-75	Gabriela DORCIOMAN	Influence of Selenium Doping on the Mechanical Properties, Wettability, Dissolution Resistance, and in Vitro Apatite-Forming Ability of Pulsed Laser Deposited Biogenic Calcium Phosphate Thin Films
P-76	Oana GHERASIM	Biofunctional Oxide Coatings for the Surface Modification of Alloy-based Implants
P-77	Emanuel AXENTE	Picosecond Laser-Induced Periodic Surface Structures on $TiAl_6V_4$: Dual-Functionalization for Metallic Implants
P-78	Claudiu Teodor FLEACA	Influence of the Sensitizer in the Synthesis Process of Iron Oxide Nanoparticles Obtained by Laser Pyrolysis
P-79	Nicu SCARISOREANU	Multifunctional Ultra-Small Nanoparticles: Antimicrobial Action and Photocatalytic Performance
P-80	Ion Cosmin CALINA	In Vitro Optimization of Bioactive Concentrations of Standardized Aloe Vera Extract for Skin Regeneration
P-81	Anca SCARISOREANU	Electron-Beam Crosslinked Gelatin-Dextran Hydrogels Incorporating Standardized Aloe Vera Extract for Biomimetic Wound Healing Applications
P-82	Claudiu HAPENCIUC	Laser- Functionalized Nanofibrous Scaffolds for Wound Healing Applications
P-83	Angela STAIU	Laser-Driven X-Ray Photodynamic Therapy
P-85	Ionut Petrisor UNGUREANU	OncoBreast - Molecular Similarity Search for Breast Cancer Drug Research
P-86	Tatiana TOZAR	In Silico Evaluation of Radium-223 Energy Deposition and DNA Double-Strand Break Induction in Human Cells
P-87	Simona BRAJNICOV	Laser-Engineered Porosity in Transparent CuI-PDMS Composite Films
P-88	Valentina Carmen DINCA	Biointerfaces Designed for Modulating Cellular Response
P-89	Maria DEMETER	Kinetic Modelling of Chemotherapeutic Drug Release from Radiation-Crosslinked Hydrogels for Wound Dressing Applications
P-90	Marina CUZMINSCHI	Graphene/Metal Composite Sensor for Cortisol Detection: DFT Simulation and Experimental Implementation.
P-91	Valentin NICULESCU	An Estimation of Lifetime for the Pulsatory Liposome
P-92*	Ionut Petrisor UNGUREANU	Long-Range Interaction and Oscillation Control in Hanging Droplets
P-93	Ionut Petrisor UNGUREANU	Two Drops, Zero Gravity: Capillary Bridge Dynamics on the International Space Station