

INTERM 2023
**10th INTERNATIONAL CONGRESS ON MICROSCOPY &
SPECTROSCOPY**

BIOMATSEN 2023
**8th INTERNATIONAL CONGRESS ON BIOMATERIALS &
BIOSENSORS**

NANOMACH 2023
**4th INTERNATIONAL CONFERENCE ON NANOMATERIALS,
NANOFABRICATION AND NANOCHARACTERIZATION**

INTERPHOTONICS 2023
**5th INTERNATIONAL CONFERENCE ON PHOTONICS
RESEARCH**

APRIL 13-19, 2023

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

Program Timetable



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**10th INTERNATIONAL CONGRESS ON MICROSCOPY &
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PROGRAM TUESDAY, APRIL 11, 2023	
14:00-16:30	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

PROGRAM WEDNESDAY, APRIL 12, 2023	
9:00-16:30	REGISTRATION (14:00 Check-in)
Everyday Tours	SOCIAL PROGRAM <ul style="list-style-type: none">• Saklıkent Jeep Safari• Paragliding in Oludeniz

PROGRAM
THURSDAY, APRIL 13, 2023

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

YUNUS EMRE 1

PLENARY SESSION 10:30-11:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Josep Nogués Catalan Institute of Nanoscience and Nanotechnology, Spain</p> <p style="text-align: center;">“Magnetoplasmonic nanodomains as a novel structure for biomedical applications”</p>
11:15-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Hendrick C. Swart University of the Free State, South Africa</p> <p style="text-align: center;">“Applications of AES, XPS and TOF SIMS to phosphor nanomaterials”</p>

12:30-14:00	LUNCH
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	INTERM YUNUS EMRE 1	INTERM & BIOMATSEN & NANOMACH ARISTO	INTERPHOTONICS EFLATUN
PARALLEL SESSIONS 14:00-15:30	<p>Chairperson: Josh Davies-Jones</p> <p>14:00-14:30 Josh Davies-Jones Cardiff Catalysis Institute, UK <i>Invited speaker</i> ID684- Imaging the Nanoscale World of Life: A Biophysical Approach to Studying Microbes, Stem Cells, and Antibiotic Resistance</p> <p>14:30-15:00 Victor Pavlov Ioffe Institute, the Russian Academy of Sciences, Russian Federation <i>Invited speaker</i> ID700- Unusual magneto-optics of europium chalcogenide magnetic semiconductors</p> <p>15:00-15:30 Irina Estrela-Lopis Leipzig University, Germany <i>Invited speaker</i> ID677- Application of element and molecule based imaging and dosimetric techniques for nanotoxicology and nanomedicine</p>	<p>Chairperson: Pei-Nian Liu</p> <p>14:00-14:30 Pei-Nian Liu East China University of Science and Technology, China <i>Invited speaker</i> ID673- On Surface C-C Cross Coupling Reactions Investigated by Scanning Probe Microscopy</p> <p>14:30-14:50 Klaudia Maslana West Pomeranian University of Technology in Szczecin, Poland ID819- Cellulose-based electrocatalysts for water splitting</p> <p>14:50-15:10 Olga Hendrikson Russian Academy of Sciences, Russian Federation ID406- Immunochromatographic test systems for rapid and sensitive detection of phycotoxins</p>	<p>Chairperson: Christian Andreassen</p> <p>14:00-14:30 Christian Andreassen University of Copenhagen, Denmark <i>Invited speaker</i> ID638- Weed control with a 2 μm fiber laser: How does the laser beam affect non-target organisms?</p> <p>14:30-15:00 Nikita Kirsanov Terra Quantum AG, Switzerland <i>Invited speaker</i> ID651- End-To-End Line Control For Optical Quantum Key Distribution</p>

15:30-15:40	COFFEE BREAK
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	INTERM YUNUS EMRE 1	INTERM ARISTO	INTERM EFLATUN
PARALLEL SESSIONS 15:40-17:10	<p>Chairperson: Ewa Mijowska</p> <p>15:40-16:10 Ewa Mijowska</p>	<p>Chairperson: Nutthaya Butwong</p> <p>15:40-16:10 Nutthaya Butwong</p>	<p>Chairperson: Dmitriy Yunovidov</p> <p>15:40-16:10 Dmitriy Yunovidov Logic Yield, Russian Federation</p>

	<p>West Pomeranian University of Technology, Poland</p> <p>Invited speaker</p> <p>ID668- Solid wastes recycling into hierarchical porous carbon materials for supercapacitors – microscopic and spectroscopic study</p> <p>16:10-16:40</p> <p>Irena Kostova Medical University-Sofia, Bulgaria</p> <p>Invited speaker</p> <p>ID696- Theoretical DFT and vibrational (IR and Raman) characterization of biologically active lanthanide(III) complexes</p> <p>16:40-17:10</p> <p>Tahir Tahirov University of Nebraska Medical Center, USA</p> <p>Invited speaker</p> <p>ID663- Mechanism of RNA-DNA primer synthesis termination by human primosome</p>	<p>Rajamangala University of Technology Isan, Thailand</p> <p>Invited speaker</p> <p>ID680- Application of Attenuated Total Reflectance Infrared Spectroscopy (ATR) in quantification: Determination of Hydroquinone in Whitening Facial Cream</p> <p>16:10-16:40</p> <p>Luigi Santamaria Italian Space Agency, Italy</p> <p>Invited speaker</p> <p>ID679- Spatial demultiplexing imaging and spectroscopy</p>	<p>Invited speaker</p> <p>ID705- Methods of multivariate classification of industrially produced mineral fertilizers and "manufacturer-quality" model</p> <p>16:10-16:40</p> <p>Irina Marinova Bulgarian Academy of Sciences, Bulgaria</p> <p>Invited speaker</p> <p>ID701- Mineral textures – key to uncovering the physical and chemical environment, and precipitation mechanism. A case study from the Eocene epithermal, low-sulfidation Surnak gold deposit, SE Bulgaria</p>
19:30-21:30	<p>DINNER WITH ALL PLENARY SPEAKERS</p> <p>(INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS)</p>		

PROGRAM	
FRIDAY, APRIL 14, 2023	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
YUNUS EMRE 1	
PLENARY SESSION 10:30-11:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Naceur Belgacem University Grenoble Alpes, CNRS, Grenoble INP, LGP2, Grenoble, France</p> <p style="text-align: center;">“Cellulose as substrate for active surfaces: Theory and applications”</p>
11:15-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Sanjairaj Vijayavenkataraman New York University Abu Dhabi, United Arab Emirates</p> <p style="text-align: center;">“Eco-friendly Bioinks for 3D Bioprinting of Soft Tissues”</p>
12:30-13:15	LUNCH
13:15-18:00	<p style="text-align: center;">SOCIAL PROGRAM</p> <p style="text-align: center;">13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS</p> <p style="text-align: center;">(Gathering at Congress registration desk)</p>

19:30-21:30	<i>DINNER WITH BIOMATSEN INVITED SPEAKERS</i>
PROGRAM <i>SATURDAY, APRIL 15, 2023</i>	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
YUNUS EMRE 1	
PLENARY SESSION 10:30-11:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Michele Ferrari CNR-ICMATE, Italy</p> <p style="text-align: center;">“Superhydrophobicity from Environmental to Biomedical Applications”</p>
11:15-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Wuge H Briscoe University of Bristol, UK</p> <p style="text-align: center;">“Self-assembly and interactions of bacterial lipids”</p>
12:30-14:00	LUNCH

PARALLEL SESSIONS 14:00-16:30	INTERM YUNUS EMRE 1	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS ARISTO	INTERM & INTERPHOTONICS EFLATUN
	Chairperson: Günther Rupprechter	Chairperson: Zhandos Tauanov	Chairperson: Marek Godlewski
	14:00-14:30 Günther Rupprechter TU Wien, Austria Invited speaker ID653- Correlative in situ surface microscopy of rhodium catalyzed hydrogen oxidation	14:00-14:30 Zhandos Tauanov LLP "Scientific Production Technical Center "Zhalyln", Kazakhstan Invited speaker ID791- Rice husk derived synthetic zeolites and nanocomposites: synthesis and characterization	14:00-14:30 Marek Godlewski Polish Academy of Sciences, Poland Invited speaker ID636- Fluorescent Markers For Early Detection Of Cancer
	14:30-15:00 Sergey Katsyuba Arbuzov Institute of Organic and Physical Chemistry, Russian Federation Invited speaker ID665- Computational modeling of condensed-state infrared and Raman vibrational spectra as a tool for analysis of molecular and supramolecular structure of liquids, amorphous solids and their solutions	14:30-14:50 Zhandos Tauanov LLP "Marmar Kazakhstan", Kazakhstan ID442- Antimicrobial Properties of the Triclosan-Loaded Polymeric Composite Based on Unsaturated Polyester Resin: Synthesis, Characterization and Activity	14:30-15:00 Ludmil T. Benov Kuwait University, Kuwait Invited speaker ID646- Site-specific delivery of photo-generated cytotoxic species
	15:00-15:30 Takuya Matsumoto Osaka University, Japan Invited speaker ID678- Time-Resolved Charge Observation by Tip-Synchronized Electrostatic Force Microscopy	14:50-15:20 Benjamin Burton Xxx, USA Invited speaker ID825- First Principles Studies 2D Mo(S,Te) ₂ alloys adsorbed on Sapphire and Graphite, and sandwiched between Graphene layers, and 2D (Al,Sc)N alloys on Sapphire	15:00-15:30 Mahmoud Huleihel Ben-Gurion University (BGU), Israel Invited speaker ID675- Rapid Identification and Antibiotics Susceptibility determination of Bacteria Isolated Directly from Patients' Urine Samples by Infrared Spectroscopy in Tandem with Machine Learning
	15:30-15:50 Tomoki Misaka Osaka University, Japan ID702- EFM/KPFM measurement of plasmon-induced charge separation on Au nano-particle/ TiO ₂ interface	15:20-15:50 Arcady Zhukov University of Basque Country, UPV/EHU, Spain Invited speaker ID474- Development of magnetic microwires for magnetic sensors applications	15:30-16:00 Ahmad Salman SCE-Sami Shamon College of Engineering, Israel Invited speaker ID674- Monitoring the Response of the Immune System by Infrared Spectroscopy-Based Machine-Learning algorithms for Rapid Diagnosis of the Etiology of Patients' Infections as Bacterial or Viral
	15:50-16:10 Elena Kozlova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID649- Comprehensive study of red blood cell pathologies using atomic force microscopy	15:50-16:10 Masahiro Nakayama Osaka University, Japan ID685- Energy-level alignment of Ru complexes placed in multi-layers probed by frequency modulated EFM	16:00-16:30 Czesława Paluszkiwicz Institute of Nuclear Physics Polish Academy of Sciences, Poland Invited speaker ID688- Spectroscopic methods in the study of the influence of amino acids on the corrosion process of materials used for implants
	16:10-16:30 Klaudia Zielinkiewicz West Pomeranian University of Technology, Poland ID669- Ball milling as facile route for borophene nanoflakes fabrication	16:10-16:30 Dmitry Kronberg Terra Quantum AG, Switzerland ID645- Quantum key distribution over global distances by using quantum thermodynamics restrictions	
	16:30-16:40	COFFEE BREAK	
	16:40-17:40	FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	

19:30-21:30	DINNER WITH <i>INTERPHOTONICS INVITED SPEAKERS</i>
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PROGRAM SUNDAY, APRIL 16, 2023	
	YUNUS EMRE 1
PLENARY SESSION 09:15-10:00	Chairperson: A.Yavuz Oral <div style="text-align: center;"> Thomas Webster Hebei University of Technology, China “ A Review of Nanomaterials in Humans” </div> <div style="text-align: center; border: 1px solid red; padding: 5px; margin-top: 10px;">CANCELLED</div>
10:00-10:30	COFFEE BREAK
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral <div style="text-align: center;"> Rudolf Korsmik Saint-Petersburg state marine technical university, Russian Federation “ Laser and Additive Technologies for Industrial Application of Production and Repairing of Terrain, Marine and Aeronautical Engineering” </div>
11:15-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral <div style="text-align: center;"> Holger Klein Institut Néel, Université Grenoble Alpes & CNRS, France “Beam-sensitive nano-crystals: a double challenge for crystallographic structure solution” </div>
12:30-13:15	LUNCH
13:15-18:00	<i>SOCIAL PROGRAM</i> 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND <i>(Gathering at Congress registration desk)</i>
19:30-21:30	DINNER WITH <i>NANOMACH INVITED SPEAKERS</i>

PROGRAM MONDAY, APRIL 17, 2023	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
YUNUS EMRE 1	
PLENARY SESSION 10:30	Chairperson: A.Yavuz Oral <div style="text-align: center;">Biqiong Chen</div>

Queen's University Belfast, UK "Biomimetic elastomers and elastomer nanocomposites for biomedical applications"			
11:15-11:30	COFFEE BREAK		
PARALLEL SESSIONS 11:30-12:40	<p style="text-align: center;">INTERM YUNUS EMRE 1</p> <p>Chairperson: Vilko Mandić</p> <p>11:30-12:00 Vilko Mandić Faculty of Chemical Engineering and Technology, Coratia <i>Invited speaker</i> ID670- Advanced visualisation and evaluation of smart nanostructured materials preferably derived by simple methods</p> <p>12:00-12:30 Uraib Sharaha Ben-Gurion University, Israel <i>Invited speaker</i> ID690- Rapid Characterization and Identification of Primary, Pre-Malignant, and Malignant Cells: Raman Spectroscopy-Based Machine Learning Algorithms</p>	<p style="text-align: center;">BIOMATSEN & NANOMACH ARISTO</p> <p>Chairperson: Darya Alontseva</p> <p>11:30-12:00 Darya Alontseva D. Serikbayev East Kazakhstan Technical University, Kazakhstan <i>Invited speaker</i> ID456- Additive manufacturing of orthopedic implants with microplasma sprayed hydroxyapatite coatings</p> <p>12:00-12:30 Elif Begum Elcioglu Eskisehir Technical University, Turkey <i>Invited speaker</i> ID832- Nanofluids: The State of the Art and Future Outlook</p>	<p style="text-align: center;">INTERPHOTONICS EFLATUN</p> <p>Chairperson: Sergey Klimonsky</p> <p>11:30-12:00 Sergey Klimonsky Lomonosov Moscow State University, Russian Federation <i>Invited speaker</i> ID640- Inverse stripe patterned photonic crystals: preparation and properties</p> <p>12:00-12:20 Andrzej Kolek Rzeszów University of Technology, Poland ID637- Numerical simulations of electronic transport in type II superlattice device</p> <p>12:20-12:40 Valeria Pastushenko Terra Quantum AG, Switzerland ID654- On the Security of a Long-Distance Quantum Key Distribution Protocol Utilizing Optical Amplifiers</p>
	12:30-14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:30	<p style="text-align: center;">INTERM YUNUS EMRE 1</p> <p>Chairperson: Denis Koume</p> <p>14:00-14:30 Denis Koume University of Toulouse, France <i>Invited speaker</i> ID660- Computational biomedical imaging: inverse problems</p> <p>14:30-14:50 Radov Radeslav Lawrence Livermore National Laboratory, USA ID659- International standards for radiation protection instrumentation</p> <p>14:50-15:10 Ekaterina Sherstyukova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID647- Changes in RBCs under hypoxia: Spectrophotometry and AFM study</p> <p>15:10-15:30 Oleg Boyarkine EPFL, Switzerland ID662- Identification of isomeric molecules by spectroscopy of non-covalent complexes</p>	<p style="text-align: center;">BIOMATSEN & NANOMACH ARISTO</p> <p>Chairperson: Lobat Tayebi</p> <p>14:00-14:30 Lobat Tayebi Marquette University School of Dentistry, USA <i>Invited speaker</i> ID478 - VEGF Delivery in Tissue Engineering to be Applied for Angiogenesis of Critical-Sized Craniomaxillofacial Defects</p> <p>14:30-14:50 Alexander Spirov The Institute of Scientific Information for Social Sciences RAS, Russian Federation ID472- Development of new microdroplet microfluidic techniques for the in vitro evolution of macromolecular devices using numerical methods</p> <p>14:50-15:10 Vanja Kokol University of Maribor, Slovenia ID800- Antimicrobial nanocellulose-based porous microparticles as an alternative to toxic nanobiocides</p>	<p style="text-align: center;">INTERPHOTONICS EFLATUN</p> <p>Chairperson: Rodion Reznik</p> <p>14:00-14:30 Rodion Reznik Saint-Petesburg State University, Russian Federation <i>Invited speaker</i> ID652- III-V nanowires with quantum dots on silicon</p> <p>14:30-14:50 Aleksei Kodukhov Terra Quantum AG, Switzerland ID653- Existing Qkd Protocols Enhancement via Continuous Monitoring of Artificial Leakages in the Transmission Line</p> <p>14:50-15:10 Merve Metin Yurt Arcelik, Turkey ID671- Impact of Laser Surface Texturing in Sustainability at Homes: Improvements in Energy Efficiency for Tumble Dryer Machines</p>
	15:30-15:40	COFFEE BREAK	

PARALLEL SESSIONS 15:40-17:30	INTERM YUNUS EMRE 1	INTERM & NANOMACH ARISTO	INTERM EFLATUN
	Chairperson: Søren Bredmose Simonsen	Chairperson: Mariana Ionita	Chairperson: Reza Shahbazian-Yassar
	15:40-16:10 Søren Bredmose Simonsen Technical University of Denmark, Denmark Invited speaker ID693 -Combining Impedance Spectroscopy with Environmental TEM for solid state electrochemical experiments	15:40-16:10 Mariana Ionita University Politehnica of Bucharest, Romania Invited speaker ID839 - Emerging strategies in bone regeneration	15:40-16:10 Reza Shahbazian-Yassar University of Illinois at Chicago, USA Invited speaker IDxxx - In situ TEM of High Entropy Materials
	16:10-16:30 Viktorija Sergunova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID648 - Using confocal laser scanning and atomic force microscopy to assess the effect of activators on neutrophils	16:10-16:40 Jules Thibault University of Ottawa, Canada Invited speaker ID831 - Predicting the gas permeability and selectivity of mixed-matrix membranes	16:10-16:40 Farzaneh Moghtader Set Medikal San.Tic.A.Ş., Turkey Invited speaker ID697 - Detection of Pathogenic Bacteria by Using Bacteriophages and Plasmonic Nanoparticles by Surface enhanced Raman Spectroscopy
	16:30-16:50 Dmitri Atiakshin Peoples' Friendship University of Russia, Russian Federation ID711 - Mast cells through the lens of microscopy: from structure to precision medicine concepts	16:40-17:10 Izabela Kuryliszyn-Kudelska Institute of Physics Polish Academy of Sciences, Poland Invited speaker ID822 - Magnetic semiconductor nanocrystals based on oxide compounds	16:40-17:00 Shokuhfar Tolou University of Illinois at Chicago, USA IDxxx- xxx
16:50-17:20 Dehua Li Shandong University of Science and Technology, China Invited speaker ID706 - Recognition of crude oil samples based on terahertz time-domain spectroscopy and principal component analysis		17:00-17:30 Qiao Lin Columbia University, USA Invited speaker IDxxx- xxx	
19:30-21:30	DINNER WITH INTERM INVITED SPEAKERS		

PROGRAM TUESDAY, APRIL 18, 2023	
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral Sarper Ozharar NEC Laboratories America, Inc., USA “ xxx ”
12:30-13:15	LUNCH

13:15-18:00	<p>SOCIAL PROGRAM</p> <p>13:15-18:00 GHOST TOWN & BLUE LAGOON</p> <p><i>(Gathering at Congress registration desk)</i></p>
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PROGRAM WEDNESDAY, APRIL 19, 2023	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
YUNUS EMRE 1	
PARALLEL SESSIONS 10:00-11:50	<p>Chairperson: Wolfgang Werner</p> <p>10:00-10:30 Cağlar Sivri Bahçeşehir University, Turkey Invited speaker ID695- Novel Perspectives in Microscopy of Nanofibrous Materials</p> <p>10:30-10:50 Jaroslav Serafinczuk Wrocław University of Science and Technology, Poland ID640- High-resolution X-ray diffraction edge geometry for epitaxial nanostructures characterization</p> <p>10:50-11:20 Rustem Zairov Kazan (Volga region) Federal University, Russian Federation Invited speaker ID471- Lanthanide Chelate Nanoparticles as luminescent sensors</p> <p>11:20-11:50 Wolfgang Werner Vienna University of Technology, Austria Invited speaker ID651- Recent Progress in understanding of low energy electron interaction with solid surfaces</p>
12:00	<p>Hotel Check Out</p>

PROGRAM LEGEND DESCRIPTIONS	
ID-	INTERM 2023 oral presentations
ID-	BIOMATSEN 2023 oral presentations
ID-	NANOMACH 2023 oral presentations
ID-	INTERPHOTONICS 2023 oral presentations

POSTER PROGRAM
SATURDAY, APRIL 15, 2023
16:40-17:40

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

ID	TITLE	CONTACT AUTHOR
658	Development of Radiation Data Format for Streaming Data in Real-Time	Radoslav Radev
686	Utilization of infrared spectroscopy based machine learning for rapid identification of extended-spectrum β -lactamase-producing bacterial isolates purified directly from patient's urine	George Abu-Aqil
687	Infrared spectroscopy in tandem with machine learnings as a rapid method for the identification of resistant <i>Pseudomonas aeruginosa</i> isolates to antibiotics in twenty minutes after the first culture	Manal Suleiman
708	Influence of Laser Power on Microstructure of Laser-Induced Graphene	Vala Can AŞKAN
709	The Conformational Change Optimization of Pedot:PSS Chains By Secondary Doping Treatment	Bahar Şölen Akdemir Yilmaz
710	The Effect of Pore Size on Optical, Structural and Mechanical Properties of Porous Ecoflex Sponges	Fatmanur Kocaman Kabil
712	A Preliminary Work of Magneto-resistive Sensors on Flexible and Transparent Substrate as a Buffer Layer	Mehmet Emre Aköz
455	Ultrafast Laser Processing for Designing of Lab-on-a-Chip Nanobiosensors	Yury V. Ryabchikov
468	Development of Carbon Nanotube-based Composites to Inhibit Single- and Dual-Species Biofilms of Uropathogenic Bacteria	Filipe Mergulhao
475	Novel Sensing Technique for Non-Destructive Composites Monitoring	Valentina Zhukova
808	The influence of SiO ₂ additive on the mayenite formation process and its hydration properties	Anatolijus Eisinis

834	Characterization of dental materials and pathologically altered tissues in their vicinity	Evgeniy Sadyrin
835	Theoretical and experimental study of nanoindentation of thin coatings	Andrey Vasiliev
836	Simplified analytical solution for contact problems on indentation for a FGM-coated solid	Sergei Aizikovich
815	LAMINAR 2D MORDENITE AND ZSM5 ZEOLITES	Vitalii Petranovskii
799	Structural, Electrical and Optical Properties of Transparent Conductive Oxides Thin films (TCOs) based on Al doped ZnO nanoparticles for CIGS solar cells	Abdoul Razak Moussa Tankari
699	Synthesis of the chromium compound based on petroleum raw and analysis by X-Ray	Aygun Aliyeva