

# APMAS 2018

8<sup>th</sup> INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS  
SCIENCE CONGRESS AND EXHIBITION

## INTERM 2018

5<sup>th</sup> INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

APRIL 24-30, 2018

Sentido Lykia Resort & Spa-Liberty Hotels Lykia, Oludeniz  
MUGLA / TURKEY

| PROGRAM<br>MONDAY, APRIL 23, 2018 |   |
|-----------------------------------|---|
| 14:00-23:30                       | REGISTRATION FOR EARLY ARRIVALS<br>(14:00 Check-in) |

| PROGRAM<br>TUESDAY, APRIL 24, 2018 |                                  |
|------------------------------------|----------------------------------|
| 9:00-23:30                         | REGISTRATION<br>(14:00 Check-in) |

| PROGRAM<br>WEDNESDAY, APRIL 25, 2018 |  |
|--------------------------------------|--|
| YUNUS EMRE 1                         |  |
| OPENING SESSION<br>10:00-10:45       | Chairperson: A.Yavuz Oral<br><br>M. Alper Sahiner<br>Seton Hall University, USA<br><br>“ Ag Nanoparticle Enhancement on the Photovoltaic Conversion Efficiency of CdS/CdTe Thin Film Solar Cells ” |
| 10:45-11:20                          | COFFEE BREAK   |

| PARALLEL SESSIONS 11:20-12:50 | APMAS  |   |  | APMAS & INTERM<br>(Common Sessions)  | INTERM  |   |
|-------------------------------|--|---|--|--|---|---|
|                               | Yunus Emre 1   | Yunus Emre 2  | Hipokrat   | Ibni Sina  | Eflatun   | Aristo  |
|                               | <p>Chairperson:<br/><b>Daniela Ionescu</b></p> <p>(11:20-11:50)<br/><b>Daniela Ionescu</b><br/>Universitatea Tehnică "Gh. Asachi" Iasi, Romania<br/><b>(Invited Speaker)</b><br/>Properties prescribing and control of direct and inverse opal metamaterials doped with spinels, for MEMS applications</p> <p>(11:50-12:20)<br/><b>Siming Chen</b><br/>University College London, UK<br/><b>(Invited Speaker)</b><br/>Monolithic integration of III-V quantum dot lasers on silicon for silicon photonics</p> <p>(12:20-12:50)<br/><b>Yinzhou Yan</b><br/>Beijing University of Technology, China<br/><b>(Invited Speaker)</b><br/>Free-standing undoped acceptor-rich ZnO single-crystal microtubes as ultrathin-walled optical microcavities</p> | <p>Chairperson: <b>Cengiz Ozkan</b></p> <p>(11:20-11:50)<br/><b>Cengiz Ozkan</b><br/>University of California, Riverside, USA<br/><b>(Invited Speaker)</b><br/>Growth and Fundamental Properties of Atomically Thin Materials and Heterostructures</p> <p>(11:50-12:10)<br/><b>Kyuwook Ihm</b><br/>Pohang Accelerator Laboratory, Korea, Republic Of<br/><b>ID771- Face-Dependent Janus-Effects of Multilayered Graphene Embedded in Transparent Organic Light-Emitting Diodes</b></p> <p>(12:10-12:30)<br/><b>Tayyar Gungor</b><br/>Mehmet Akif Ersoy University, Turkey<br/><b>ID733- Cu Doping Induced Structural and Optical Properties of Bimetallic Oxide Nanodots by the Vertical Spark Generation</b></p> | <p>Chairperson: <b>Nebojša Romčević</b></p> <p>(11:20-11:50)<br/><b>Nebojša Romčević</b><br/>University of Belgrade, Serbia<br/><b>(Invited Speaker)</b><br/>Spectroscopy of semiconductor nanocrystals</p> <p>(11:50-12:10)<br/><b>Mihri Ozkan</b><br/>University of California, Riverside, USA<br/><b>ID1041-Sulfur Cathode Materials for Lithium-Sulfur Batteries</b></p> <p>(12:10-12:30)<br/><b>Aslina Abu Bakar</b><br/>Universiti Teknologi MARA Pulau Pinang, Malaysia<br/><b>ID833- Polydimethylsiloxane(PDMS) as a potential antenna substrate</b></p> | <p>Chairperson:<br/><b>Sang Joon Lee</b></p> <p>(11:20-11:50)<br/><b>Sang Joon Lee</b><br/>Pohang University of Science and Technology, Korea<br/><b>(Invited Speaker)</b><br/>Digital holographic microscopy for analyzing 3D particle dynamics of non-spherical particles</p> <p>(11:50-12:10)<br/><b>Meltem Eryildiz</b><br/>Yildiz Technical University, Turkey<br/><b>ID554- Polylactide / Halloysite Nanocomposite Foams: Particle Dispersion and Mechanical Strength</b></p> <p>(12:10-12:30)<br/><b>Meltem Eryildiz</b><br/>Yildiz Technical University, Turkey<br/><b>ID684- Comparison Foaming Behavior of Polylactic acid and Polypropylene</b></p> | <p>Chairperson: <b>Adam Hitchcock</b></p> <p>(11:20-11:50)<br/><b>Adam Hitchcock</b><br/>McMaster University, Canada<br/><b>(Invited Speaker)</b><br/>Soft X-ray Spectromicroscopy: new techniques and applications to fuel cell materials</p> <p>(11:50-12:20)<br/><b>Kazuo Umemura</b><br/>Tokyo University of Science, Japan<br/><b>(Invited Speaker)</b><br/>Biological applications of carbon nanotubes wrapped with organic molecules</p> | <p>Chairperson: <b>Szymon Wojtewicz</b></p> <p>(11:20-11:50)<br/><b>Szymon Wojtewicz</b><br/>Nicolaus Copernicus University, Poland<br/><b>(Invited Speaker)</b><br/>Precise cavity ring-down spectroscopy referenced to atomic frequency standards</p> <p>(11:50-12:20)<br/><b>Hisashi ABE</b><br/>National Metrology Institute of Japan (NMIJ), AIST, Japan<br/><b>(Invited Speaker)</b><br/>The measurement of trace moisture in high-purity gases using cavity ring-down spectroscopy</p> |

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| 12:50-14:00                   | <b>LUNCH</b>  |   |   |   |   |  |
|                               | <b>APMAS</b>  |   |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>   | <b>INTERM</b>   |  |
| PARALLEL SESSIONS 14:00-15:10 | <b>Yunus Emre 1</b>   | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>   | <b>Ibni Sina</b>  | <b>Eflatun</b>  | <b>Aristo</b>  |
|                               | <p>Chairperson: <b>Yu-Han Hung</b></p> <p>(14:00-14:30)<br/><b>Yu-Han Hung</b><br/>National Cheng Kung University, Taiwan<br/><b>(Invited Speaker)</b><br/>All-optical microwave carrier recovery and its applications based on period-one nonlinear semiconductor laser dynamics for OFDM-RoF coherent detection systems</p> <p>(14:30-14:50)<br/><b>Serkan Bıyık</b><br/>Karadeniz Technical University, Turkey<br/><b>ID702-</b> Influence Of Type Of Process Control Agent On The Synthesis Of Ag<sub>8</sub>ZnO Composite Powder</p> <p>(14:50-15:10)<br/><b>Fariza Mohamad</b><br/>Universiti TUn Hussein Onn Malaysia, Malaysia<br/><b>ID810-</b> Cu<sub>2</sub>O Based Homostructure Fabricated by Electrodeposition Method</p> | <p>Chairperson: <b>Serap Senturk Dalgic</b></p> <p>(14:00-14:30)<br/><b>Serap Senturk Dalgic</b><br/>Trakya University, Turkey<br/><b>(Invited Speaker)</b><br/>The core-shell Au-Graphene Quantum Dots (Au@GQDs) Nanoparticles Studied by Atomistic Simulations</p> <p>(14:30-14:50)<br/><b>Mihyun Yang</b><br/>Pohang Accelerator Laboratory, Korea, Republic Of<br/><b>ID796-</b> Spatially-resolved chemical analysis of photodecomposition and doping effect of fluoropolymer-covered graphene</p> <p>(14:50-15:10)<br/><b>Eduard Gevorkyan</b><br/>Plekhanov Russian University of Economics, Russian Federation<br/><b>ID582-</b> Interaction of Electromagnetic Waves with Multi Periodic Modulated Dielectric Filling of a Regular Waveguide</p> | <p>Chairperson: <b>Ali Shokufhar</b></p> <p>(14:00-14:30)<br/><b>Ali Shokufhar</b><br/>K. N. Toosi University of Technology, Iran<br/><b>(Invited Speaker)</b><br/>Molecular Dynamics Simulation of Cross Linking Density on the Structure and Mechanical Properties of Epoxy Polymers</p> <p>(14:30-14:50)<br/><b>Halit Çavuşoğlu</b><br/>Selçuk University, Turkey<br/><b>ID886-</b> The structural, morphological and optical properties of CdO thin films prepared by PEG assisted SILAR method</p> <p>(14:50-15:10)<br/><b>Recep Yurtseven</b><br/>Pamukkale University, Turkey<br/><b>ID697-</b> Effects of Ammonium Polyphosphate/Melamine Additions on Mechanical, Thermal and Burning Properties of Rigid Polyurethane Foams</p> | <p>Chairperson: <b>Thi Huong Nguyen</b></p> <p>(14:00-14:30)<br/><b>Thi Huong Nguyen</b><br/>University Medicine Greifswald, Germany<br/><b>(Invited Speaker)</b><br/>How does the Force Spectroscopy Shine Light on Heparin-Induced Thrombocytopenia?</p> <p>(14:30-14:50)<br/><b>Thi Huong Nguyen</b><br/>University Medicine Greifswald, Germany<br/><b>ID191-</b> Single-Platelet Force Spectroscopy</p> <p>(14:50-15:10)<br/><b>Halina Misran</b><br/>Universiti Tenaga Nasional, Malaysia<br/><b>ID90-</b> Adsorption Characteristics of MOF-5, MOF-199 and ZIF-8 Synthesized using Palm Oil Derived Fatty Alcohols as Template</p> | <p>Chairperson: <b>Karsten Koenig</b></p> <p>(14:00-14:30)<br/><b>Karsten Koenig</b><br/>Saarland University, Germany<br/><b>(Invited Speaker)</b><br/>Multiphoton Tomography</p> <p>(14:30-15:00)<br/><b>Hideaki Shirota</b><br/>Chiba University, Japan<br/><b>(Invited Speaker)</b><br/>Femtosecond Raman-Induced Kerr Effect Spectroscopic Study on Ionic Liquids</p> | <p>Chairperson: <b>King-Chuen Lin</b></p> <p>(14:00-14:30)<br/><b>King-Chuen Lin</b><br/>National Taiwan University, Taiwan<br/><b>(Invited Speaker)</b><br/>Halogen Molecular Elimination from Halogen-containing Compounds in Atmosphere Using Cavity Ring-down Spectroscopy</p> <p>(14:30-15:00)<br/><b>Patrick DUPRÉ</b><br/>Université du Littoral-Côte d'Opale, France<br/><b>(Invited Speaker)</b><br/>Saturated Absorption by Cavity Enhanced Absorption Spectroscopy, CRDS and Beyond</p> |
| 15:10-15:30                   | <b>COFFEE BREAK</b>   |   |   |   |   |  |
| PARALLEL SESSIONS 15:30-17:10 | <b>APMAS</b>  |   |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>   | <b>INTERM</b>   |  |
|                               | <b>Yunus Emre 1</b>   | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>   | <b>Ibni Sina</b>  | <b>Eflatun</b>  | <b>Aristo</b>  |

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|             | <p>Chairperson: <b>Mufit Akinc</b></p> <p>(15:30-16:00)<br/><b>Mufit Akinc</b><br/>Iowa State University, USA<br/><b>(Invited Speaker)</b><br/>Design and Development of Zirconium Tungstate based Nanocomposite as IR Window Material</p> <p>(16:00-16:30)<br/><b>Derya Kapusuz</b><br/>Gaziantep University, Turkey<br/><b>(Invited Speaker)</b><br/>Sol-gel fabricated silica/PEG hybrids for gene delivery</p> <p>(16:30-16:50)<br/><b>Alhan Farhanah Abd Rahim</b><br/>Universiti Teknologi Mara Pulau Pinang, Malaysia<br/><b>ID569-</b><br/>Investigation of Light Trapping From Porous Silicon Surfaces for the Enhancement of Silicon Solar Cell Performance</p> <p>(16:50-17:10)<br/><b>Alhan Farhanah Abd Rahim</b><br/>Universiti Teknologi Mara Pulau Pinang, Malaysia<br/><b>ID649-</b><br/>Investigation on The Effect of Direct Current and Integrated Pulsed Electrochemical Etching of n-type (100) Silicon</p> | <p>Chairperson: <b>Andreas Herklotz</b></p> <p>(15:30-16:00)<br/><b>Andreas Herklotz</b><br/>Martin-Luther-University Halle-Wittenberg, Germany<br/><b>(Invited Speaker)</b><br/>Controlling ferroic thin films by strain doping</p> <p>(16:00-16:20)<br/><b>Çağatay Teke</b><br/>Bayburt University, Turkey<br/><b>ID1009-</b><br/>Determining the Critical Fraction of Solid Value in Casting Process with Fuzzy Expert System Approach</p> <p>(16:20-16:40)<br/><b>Barış Çetin</b><br/>FNSS Savunma Sistemleri AŞ, Turkey<br/><b>ID687-</b><br/>Investigation The Effect of Auto-Focus and Auto-Threshold Algorithms In Advanced Nodularity Analysis of Austempered Ductile Iron Castings</p> <p>(16:40-17:00)<br/><b>San-Qiang Shi</b><br/>Hong Kong Polytechnic University, Hong Kong<br/><b>ID1012-</b> Modeling of Gas Bubble Evolution in Nuclear Fuels</p> | <p>Chairperson: <b>Raul Zazpe</b></p> <p>(15:30-16:00)<br/><b>Raul Zazpe</b><br/>University of Pardubice, Czech Republic<br/><b>(Invited Speaker)</b><br/>Atomic Layer Deposition: Tailoring High Aspect Ratio Tio2 Nanostructures</p> <p>(16:00-16:20)<br/><b>Erkin Akdogan</b><br/>Pamukkale University, Turkey<br/><b>ID660-</b> The Effects of Intumescent Flame Retardant and Nanoclay on Mechanical and Thermal Expansion Properties of High Density Polyethylene Composites</p> <p>(16:20-16:40)<br/><b>Abdulhadi Baykal</b><br/>Imam Abdulrahman Bin Faysal University, Saudi Arabia<br/><b>ID592-</b> Synthesis and magnetic characterization of Cu substituted Barium hexaferrites</p> <p>(16:40-17:00)<br/><b>Abdulhadi Baykal</b><br/>Imam Abdulrahman Bin Faysal University, Saudi Arabia<br/><b>ID593-</b> Concentration and temperature-dependent magnetic properties of Ba1-xZnxFe12O19 hexaferrites</p> | <p>Chairperson: <b>Reza Shahbazian-Yassar</b></p> <p>(15:30-16:00)<br/><b>Reza Shahbazian-Yassar</b><br/>University of Illinois at Chicago, USA<br/><b>(Invited Speaker)</b><br/>Real-Time TEM Observation of Electrochemistry and Failure in Battery Materials</p> <p>(16:00-16:20)<br/><b>Mustafa Burak Telli</b><br/>Kocaeli University, Turkey<br/><b>586-</b> Joining of soda lime silicate glass to powder metallurgical pressed dissimilar Ti-304L metal joint by heat treatment in air</p> <p>(16:20-16:40)<br/><b>Giray Kartopu</b><br/>Swansea University, UK<br/><b>ID935-</b>All-laser scribed monolithic CdTe solar PV mini-modules grown by MOCVD</p> <p>(16:40-17:00)<br/><b>Muhammad S. Khan</b><br/>Sultan Qaboos University, Oman<br/><b>ID542-</b>Conjugated Organic, Organometallic and Coordination Polymers for Solar Cell (SC) Application</p> | <p>Chairperson: <b>D. V. G. L. N. Rao (Gopal Rao)</b></p> <p>(15:30-16:00)<br/><b>D. V. G. L. N. Rao (Gopal Rao)</b><br/>University of Massachusetts at Boston, USA<br/><b>(Invited Speaker)</b><br/>Novel Fourier Phase Contrast and Fluorescence Microscopy</p> <p>(16:00-16:30)<br/><b>Mahmoud Huleihel</b><br/>Ben-Gurion University of the Negev, Israel<br/><b>(Invited Speaker)</b><br/>Identification of fungal phytopathogens using Infrared Microscopy spectroscopy and Multivariate Analysis</p> <p>(16:30-17:00)<br/><b>Alexey V. Feofanov</b><br/>M.V.Lomonosov Moscow State University, Russia<br/><b>(Invited Speaker)</b><br/>Single-particle FRET microscopy of structural rearrangements in nucleosomes induced by some nuclear proteins</p> | <p>Chairperson: <b>Darya Alontseva</b></p> <p>(15:30-16:00)<br/><b>Darya Alontseva</b><br/>East-Kazakhstan State Technical University, Kazakhstan<br/><b>(Invited Speaker)</b><br/>The Application of Transmission Electron Microscopy to the Analysis of Powder Coatings Deposited on Metal Substrates by Plasma Method</p> <p>(16:00-16:30)<br/><b>Filiz Vardar</b><br/>Marmara University, Turkey<br/><b>(Invited Speaker)</b><br/>Cytochemical Identification of Programmed Cell Death in Plants</p> <p>(16:30-17:00)<br/><b>A.P. Vladimirov</b><br/>Ural Federal University, Russia<br/><b>(Invited Speaker)</b><br/>Four-dimensional speckle - interferometric microscopy of thin biological objects</p> |
| 17:10-17:30 | <b>COFFEE BREAK</b>   |   |  |   |  |  |
| 17:30-18:30 | <p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – I</b></p> <p><b>(APMAS2018-INTERM2018)</b></p>   |   |  |   |  |  |

**PROGRAM**  
**THURSDAY, APRIL 26, 2018**

| <b>PROGRAM</b>                  |  |  |   |  |  |  |  |
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| <b>THURSDAY, APRIL 26, 2018</b> |  |  |   |  |  |  |  |
| PARALLEL SESSIONS 09:30-10:40   | <b>APMAS</b>   |  |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>  |  | <b>INTERM</b>  |  |
|                                 | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>  | <b>Hipokrat</b>   | <b>Ibni Sina</b>   |  | <b>Eflatun</b>   |  |
|                                 | <b>Aristo</b>  |  |   |  |  |  |  |
|                                 | <p>Chairperson: <b>Vilko Mandić</b></p> <p>(09:30-10:00)<br/><b>Vilko Mandić</b><br/>University of Zagreb, Croatia<br/><b>(Invited Speaker)</b><br/>The utilisation of the sol-gel process in the preparation of advanced multi-layered multifunctional coating</p> <p>(10:00-10:30)<br/><b>Katsuhiko Koike</b><br/>Mitsui Chemicals Inc., Japan<br/><b>(Invited Speaker)</b><br/>Anatase Crystallization Core in a Sol-Gel Process Led by Pentacoordinate Titanium n-Butoxide Derivatives</p> | <p>Chairperson: <b>Antoine BARBIER</b></p> <p>(09:30-10:00)<br/><b>Antoine BARBIER</b><br/>Iramis CEA, France<br/><b>(Invited Speaker)</b><br/>The nature of the magneto-electric coupling in artificial multiferroic oxide layered ferrite/BaTiO3 systems as revealed by synchrotron radiation techniques</p> <p>(10:00-10:20)<br/><b>Malik Muhammad Nauman</b><br/>Universiti Brunei Darussalam, Brunei Darussalam<br/><b>ID651-</b> Slot-die Coated Active Carbon Films for Hydrogen Storage Applications</p> | <p>Chairperson: <b>Hyeon-Jun Lee</b></p> <p>(09:30-10:00)<br/><b>Hyeon-Jun Lee</b><br/>DGIST, Korea<br/><b>(Invited Speaker)</b><br/>The analysis of device degradation while being driven in the oxide semiconductor</p> <p>(10:00-10:20)<br/><b>Ibrahim Bilici</b><br/>Hitit university, Turkey<br/><b>ID822-</b> Effect of Colemanite on Thermal Properties of Recycled Polyethylene</p> <p>(10:20-10:40)<br/><b>Fryad Henari</b><br/>Medical University of Bahrain, Bahrain<br/><b>ID734-</b> Nonlinear optical properties, optical limiting and optical switching in natural materials</p> | <p>Chairperson: <b>Agnieszka Niemczynowicz</b></p> <p>(09:30-10:00)<br/><b>Agnieszka Niemczynowicz</b><br/>University of Warmia and Mazury in Olsztyn, Poland<br/><b>(Invited Speaker)</b><br/>Models of chaotic oscillations in magnetic systems</p> <p>(10:00-10:30)<br/><b>Giovanna D'Angelo</b><br/>University of Messina, Italy<br/><b>(Invited Speaker)</b><br/>Signatures of the water-lipid and lipid-lipid interactions in Phospholipids Bilayers by Infrared Spectroscopy and increasing hydration</p> |  | <p>Chairperson: <b>Clayton S.C. Yang</b></p> <p>(09:30-10:00)<br/><b>Clayton S.C. Yang</b><br/>Brimrose corporation, USA<br/><b>(Invited Speaker)</b><br/>Simultaneous UV-Visible-NIR and Long-Wave Infrared Laser-induced Breakdown Spectroscopy for Rapid and Remote Chemical and Biological Sensing</p> <p>(10:00-10:30)<br/><b>Vladimir Kopecky</b><br/>Charles University, Czech Republic<br/><b>(Invited Speaker)</b><br/>Drop-Coating Deposition Raman Spectroscopy in Protein Research</p> | <p>Chairperson: <b>Irena Drevensek-Olenik</b></p> <p>(09:30-10:00)<br/><b>Irena Drevensek-Olenik</b><br/>University of Ljubljana, Slovenia<br/><b>(Invited Speaker)</b><br/>Tunable Thin-Film Structures of Lipophilic Nucleoside Derivatives</p> <p>(10:00-10:30)<br/><b>Domenico MELLO</b><br/>STMicroelectronics, Italy<br/><b>(Invited Speaker)</b><br/>New approach in Auger RSF calculation for precise quantitative Analysis using correlation with TEM-EDS analysis by extrapolation method based on pure elements</p> |
| 10:40-11:00                     | <b>COFFEE BREAK</b>  |  |   |  |  |  |  |
| PARALLEL SESSIONS 11:00-12:30   | <b>APMAS</b>   |  |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>  |  | <b>INTERM</b>  |  |
|                                 | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>  | <b>Hipokrat</b>   | <b>Ibni Sina</b>   |  | <b>Eflatun</b>   |  |
|                                 |  |  |   |  |  | <b>Aristo</b><br><i>(Common Sessions)</i>  |  |

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|  | <p>Chairperson: <b>Sukreen Hana Herman</b></p> <p>(11:00-11:30)<br/><b>Sukreen Hana Herman</b><br/>Universiti Teknologi MARA, Malaysia<br/><b>(Invited Speaker)</b><br/>Sol-gel Spin Coated Metal Oxides for Extended-Gate Field Effect Transistor Based Sensors</p> <p>(11:30-12:00)<br/><b>Ilham Hasanov</b><br/>Institute of Physics of ANAS, Azerbaijan<br/><b>(Invited Speaker)</b><br/>Space Charge Lenses and Its Applications</p> <p>(12:00-12:30)<br/><b>Bekir Salih Hacettepe</b><br/>University, Turkey<br/><b>(Invited Speaker)</b><br/>Silicon and Transition Metal Based Sol-gels: Biomedical Applications</p> | <p>Chairperson: <b>Andrei Salak</b></p> <p>(11:00-11:30)<br/><b>Andrei Salak</b><br/>University of Aveiro, Portugal<br/><b>(Invited Speaker)</b><br/>Annealing-Stimulated Structural Transformations and Magnetic Phenomena in Metastable Perovskite Phases</p> <p>(11:30-12:00)<br/><b>Vladimir Shvartsman</b><br/>University of Duisburg-Essen , Essen · Institute for Materials Science, Germany<br/><b>(Invited Speaker)</b><br/>Nanosopic investigation of multiferroic composite ceramics</p> <p>(12:00-12:30)<br/><b>Marjeta Maček Kržmanc</b><br/>Jožef Stefan Institute, Slovenia<br/><b>(Invited Speaker)</b><br/>Defined-Shape Perovskite Nanoparticles: Formation Mechanism and their Application Potential</p> | <p>Chairperson: <b>Jun Ni</b></p> <p>(11:00-11:30)<br/><b>Jun Ni</b><br/>Tsinghua University, China<br/><b>(Invited Speaker)</b><br/>Electronic and superconducting properties of boron based nanostructures</p> <p>(11:30-11:50)<br/><b>Zita Sukackiene</b><br/>Center for Physical Sciences and Technology, Lithuania<br/><b>ID657-</b> Electroless deposition of cobalt-zinc-boron coatings using morpholine borane as a reducing agent</p> <p>(11:50-12:10)<br/><b>Virginija Kepeniene</b><br/>Center for Physical Sciences and Technology, Lithuania<br/><b>ID658-</b> Carbon Based Metal and Metal Oxide Supported Nanocomposites: Fabrication, Characterization, Application</p> <p>(12:10-12:30)<br/><b>Ramazan Ozmen</b><br/>Karabuk University, Turkey<br/><b>ID671-</b>Biomechanical Analysis of C5-C6 Spinal Unit with Artificial Disc by Finite Element Method</p> | <p>Chairperson: <b>Dingyuan Tang</b></p> <p>(11:00-11:30)<br/><b>Dingyuan Tang</b><br/>Nanyang Technological University, Singapore<br/><b>(Invited Speaker)</b><br/>Rare-earth doped sesquioxide transparent ceramics: fabrication and laser emission</p> <p>(11:30-11:50)<br/><b>Goksel Durkaya</b><br/>Atilim University, Turkey<br/><b>ID673-</b> Characterization of Thin Film Boron Nitride Coatings and Observation of Graphitic Boron Nitride</p> <p>(11:50-12:10)<br/><b>Huseyin Kurtuldu</b><br/>Baskent University, Turkey<br/><b>ID677-</b> A New Approach to Non-Invasive 3D Optical Measurement of Round Surfaces</p> <p>(12:10-12:30)<br/><b>Ncholu Manyala</b><br/>University of Pretoria, South Africa<br/><b>ID815-</b> Confocal Raman microscopy analysis of graphene foam prepared on Ni and Ni(Cu) foam and polymer film samples</p> | <p>Chairperson: <b>Zofia Drzazga</b></p> <p>(11:00-11:30)<br/><b>Zofia Drzazga</b><br/>University of Silesia, Poland<br/><b>(Invited Speaker)</b><br/>Athlete's response to exercise in normobaric hypoxia-serum fluorescence study</p> <p>(11:30-12:00)<br/><b>Jean-Luc Battaglia</b><br/>University of Bordeaux, France<br/><b>(Invited Speaker)</b><br/>Global estimation of experimental parameters and material thermal properties in Scanning Thermal Microscopy</p> <p>(12:00-12:30)<br/><b>Emilia Mihaylova</b><br/>Agricultural University-Plovdiv, Bulgaria<br/><b>(Invited Speaker)</b><br/>Recent advances in the application of digital holographic microscopy</p> | <p>Chairperson: <b>Juras Banys</b></p> <p>(11:00-11:30)<br/><b>Juras Banys</b><br/>Vilnius University, Lithuania<br/><b>(Invited Speaker)</b><br/>Microwave spectroscopy of ferroelectrics and related materials</p> <p>(11:30-12:00)<br/><b>Manho Lim</b><br/>Pusan National University, Korea<br/><b>(Invited Speaker)</b><br/>Photodissociation of small molecules in solution probed by time-resolved vibrational spectroscopy</p> <p>(12:00-12:30)<br/><b>Arno Germond</b><br/>RIKEN, Japan<br/><b>(Invited Speaker)</b><br/>Combining spectral and spatial information for classification, example with a biological study case</p> |
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| 12:30-14:00                   | <b>LUNCH</b>   |   |   |  |  |   |
| PARALLEL SESSIONS 14:00-15:20 | <b>APMAS</b>   |   |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>  |  | <b>INTERM</b>   |
|                               | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>   | <b>Ibni Sina</b>   |  | <b>Eflatun</b><br><b>Aristo</b>   |
|                               | <p>Chairperson: <b>Yia-Chung Chang</b></p> <p>(14:00-14:30)<br/><b>Yia-Chung Chang</b><br/>Academia Sinica, Taiwan<br/><b>(Invited Speaker)</b><br/>Electronic properties of two-dimensional materials studied by mixed-basis density functional approach</p> <p>(14:30-15:00)<br/><b>Pavol Hvizdos</b><br/>Slovak Academy of Sciences, Slovakia<br/><b>(Invited Speaker)</b><br/>Advanced SiC-graphene and SiC-CNT composites with enhanced electrical conductivity</p> <p>(15:00-15:20)<br/><b>Radosław Kycia</b><br/>Cracow University of Technology, Poland<br/><b>ID895-</b> Topological analysis of nuclear pasta phases</p> | <p>Chairperson: <b>Huseyin Ekinci</b></p> <p>(14:00-14:30)<br/><b>Huseyin Ekinci</b><br/>Erzincan University, Turkey<br/><b>(Invited Speaker)</b><br/>Properties of MOCVD-grown InGaN/GaN MQW LEDs without using hydrogen carrier gas</p> <p>(14:30-14:50)<br/><b>Murat Yazıcı</b><br/>ULUDAG UNIVERSITY, Turkey<br/><b>ID694-</b> Impact Loading Performance Of Polymer Foam Core Aluminum Sandwich Panels</p> <p>(14:50-15:10)<br/><b>Yu cel Can</b><br/>R&amp;D Center Oyak-Renault Automotive Company, Turkey<br/><b>ID695-</b> Sound Absorption And Mechanical Properties Of The Glass Bubble/Cotton Fibre Waste/Recycled Acrylonitrile Butadiene Styrene (ABS) Hybrid Composite Materials</p> | <p>Chairperson: <b>Peiheng Zhou</b></p> <p>(14:00-14:30)<br/><b>Peiheng Zhou</b><br/>University of Electronic Science and Technology of China, China<br/><b>(Invited Speaker)</b><br/>Functional Fe-based Ferromagnetic Composite Materials with Novel High-frequency Behavior</p> <p>(14:30-14:50)<br/><b>Sunjung Kim</b><br/>University of Ulsan, Korea<br/><b>ID843-</b> Influence of hydrochloric acid concentration and ore particle size on the selective leaching of rare metals from low-grade ores</p> <p>(14:50-15:20)<br/><b>Feng Zhang</b><br/>Chinese Academy of Sciences, China<br/><b>(Invited Speaker)</b><br/>Chip design and applications based on the Resistive Random Access Memory</p> | <p>Chairperson: <b>Bayram Gunduz</b></p> <p>(14:00-14:30)<br/><b>Bayram Gunduz</b><br/>Mus Alparslan University, Turkey<br/><b>(Invited Speaker)</b><br/>Electronic and photonic properties of the organic semiconductors with theoretical and experimental techniques for various conditions: 2,2':5',2'':5'',2'''-Quaterthiophene (4T)</p> <p>(14:30-14:50)<br/><b>Lutfiye Altay</b><br/>Ege University, Turkey<br/><b>ID714-</b> Investigation of The Effects of Boron Derivative Ulexite on The Properties of Polyurethane Based Composite Materials for Insulation</p> <p>(14:50-15:10)<br/><b>Lutfiye Altay</b><br/>Ege University, Turkey<br/><b>ID927-</b> Effect of Ulexite on Mechanical, Thermal Properties and Flame Retardancy of Polypropylene</p> |  | <p>Chairperson: <b>Dong-Ik Kim</b></p> <p>(14:00-14:30)<br/><b>Dong-Ik Kim</b><br/>Korea Institute of Science and Technology, Korea<br/><b>(Invited Speaker)</b><br/>Phase identification by Energy Dispersive Spectroscopy combined with Electron Back Scattered Diffraction and Transmission Kikuchi Diffraction technique</p> <p>(14:30-15:00)<br/><b>Roberto Giustetto</b><br/>University of Turin, Italy<br/><b>(Invited Speaker)</b><br/>Mayan inspired nanocomposite materials: an overview</p> <p>(15:00-15:20)<br/><b>Tarik Al-Omran</b><br/>University of Baghdad, Iraq<br/><b>ID77-</b> Mechanical Alloying Effect on Structural, Thermal and Mechanical Properties of Sn-Bi Alloy</p> |
| 15:20-15:30                   | <b>COFFEE BREAK</b>  |   |   |  |  |   |
| PARALLEL SESSIONS 15:30-17:20 | <b>APMAS</b>   |   |   | <b>APMAS &amp; INTERM</b><br><i>(Common Sessions)</i>  |  | <b>INTERM</b>   |
|                               | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>   | <b>Ibni Sina</b>   |  | <b>Eflatun</b><br><b>Aristo</b>   |

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|             | <p>Chairperson: <b>Arkady Zhukov</b></p> <p>(15:30-16:00)<br/><b>Arkady Zhukov</b><br/>University of Basque Country, Spain<br/><b>(Invited Speaker)</b><br/>Engineering of magnetic properties of magnetic microwires</p> <p>(16:00-16:30)<br/><b>Asli Cakir</b><br/>Muğla University, Turkey<br/><b>(Invited Speaker)</b><br/>Shell-ferromagnetism in Heusler alloys</p> <p>(16:30-16:50)<br/><b>Esah Hamza</b><br/>Universiti Teknologi Malaysia, Malaysia<br/><b>ID824-</b><br/>Microstructures, Anti-Bacterial Property and Corrosion Behaviour of Ti-51at%Ni and Ti-23at%Nb Shape Memory Alloys Used for Biomedical Applications</p> <p>(16:50-17:10)<br/><b>Ayşe Kacar</b><br/>Suleyman Demirel University, Turkey<br/><b>ID541-</b>Attenuation of Gamma Rays Properties by Cement Paste – Waste Paper Composites</p> | <p>Chairperson: <b>Tolou Shokuhfar</b></p> <p>(15:30-16:00)<br/><b>Tolou Shokuhfar</b><br/>University of Illinois at Chicago, USA<br/><b>(Invited Speaker)</b><br/>In situ Investigation of Calcium Oxalate Kidney Stone Biomineralization</p> <p>(16:00-16:20)<br/><b>Senol Avci</b><br/>Bilecik Şeyh Edebali University, Turkey<br/><b>ID884-</b> Microwave-assisted hydroxyapatite coating of Ti6Al4V alloys and investigation of adhesion strength</p> <p>(16:20-16:40)<br/><b>Yunus Emre Simsek</b><br/>Bilecik Şeyh Edebali University, Turkey<br/><b>ID885-</b> Synthesis and characterization of hydroxyapatite produced by microwave-assisted precipitation technique</p> <p>(16:40-17:00)<br/><b>Yunus Emre Simsek</b><br/>Bilecik Şeyh Edebali University, Turkey<br/><b>ID925-</b> Determination of optimum conditions for production of highly porous carbon by chemical activation method</p> | <p>Chairperson: <b>Sudeb Dasgupta</b></p> <p>(15:30-16:00)<br/><b>Sudeb Dasgupta</b><br/>IIT Roorkee, India<br/><b>(Invited Speaker)</b><br/>Dual-k Spacer Engineered FinFETs for High Performance (HP) Memory</p> <p>(16:00-16:20)<br/><b>Sevil Kofteci</b><br/>Akdeniz University, Turkey<br/><b>ID798-</b> Prediction of The Asphalt Mixture Performance Prepared With Recycled Fine Aggregate By Using Response Surface Analysis</p> <p>(16:20-16:40)<br/><b>Salih Taner Yıldırım</b><br/>Kocaeli University, Turkey<br/><b>ID739-</b> Investigation of internal curing and temperature effect on lightweight and heat insulated mortar with recycled concrete aggregate</p> <p>(16:40-17:00)<br/><b>Jebreel Khoshman</b><br/>Al-Hussein Bin Talal University, Jordan<br/><b>ID599-</b> Effect of growth atmosphere on the surface morphology, depolarization and optical constants of polycrystalline ZnO thin films</p> | <p>Chairperson: <b>Christina Gritsenko</b></p> <p>(15:30-16:00)<br/><b>Christina Gritsenko</b><br/>Immanuel Kant Baltic Federal University, Russian Federation<br/><b>(Invited Speaker)</b><br/>Tuning of exchange bias in thin film structures made from NiFe and IrMn</p> <p>(16:00-16:30)<br/><b>Roman Khymyn</b><br/>University of Gothenburg, Sweden<br/><b>(Invited Speaker)</b><br/>Spintronics based on antiferromagnetic materials</p> <p>(16:30-17:00)<br/><b>Tolga Tavşanoğlu</b><br/>Mugla Sitki Kocman University<br/><b>(Invited Speaker)</b><br/>Deposition and Characterization of AlN Thin Films by Plasma-Enhanced Reactive DC Magnetron Sputtering</p> | <p>Chairperson: <b>Takeshi Kasama</b></p> <p>(15:30-16:00)<br/><b>Takeshi Kasama</b><br/>Technical University of Denmark, Denmark<br/><b>(Invited Speaker)</b><br/>Quantitative nanoscale magnetic imaging for Fe/Ti containing oxides: Lorentz microscopy and other related techniques</p> <p>(16:00-16:30)<br/><b>Jose Mustre</b><br/>Cinvestav-Merida, Mexico<br/><b>(Invited Speaker)</b><br/>X-ray Absorption Spectroscopy and Dynamical Distortions</p> <p>(16:30-17:00)<br/><b>Zdenek Pilat</b><br/>ISI CAS, Czech Republic<br/><b>(Invited Speaker)</b><br/>Optofluidic techniques for directed evolution of enzymes</p> | <p>Chairperson: <b>Ismael Saadoune</b></p> <p>(15:30-16:00)<br/><b>Ismael Saadoune</b><br/>Cadi Ayyad University, Marrakesh, Morocco<br/><b>(Invited Speaker)</b><br/>Layered oxides as convenient energy storage materials for sodium ion batteries</p> <p>(16:00-16:30)<br/><b>José Antonio Eiras</b><br/>Federal University of São Carlos, Brazil<br/><b>(Invited Speaker)</b><br/>Photovoltaic Properties of Some Lead Free (KNN) and Led Based (PFN and PFW) Multiferroics</p> <p>(16:30-16:50)<br/><b>Mehmet Sarikanat</b><br/>Ege University, Turkey<br/><b>ID936-</b> The Effect of Various Minerals on Sound Absorption and Other Properties of Polypropylene</p> <p>(16:50-17:20)<br/><b>Yoothana Suansook</b><br/>Defence Technology Institute (Public Organization), Thailand<br/><b>(Invited Speaker)</b><br/>Past, present and future of fractional dynamics</p> |
| 17:20-17:30 | <b>COFFEE BREAK</b>   |   |   |   |  |  |
| 17:30-18:30 | <p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – II</b></p> <p><b>(APMAS2018-INTERM2018)</b></p>  |   |   |   |  |  |



**PROGRAM**  
**FRIDAY, APRIL 27, 2018**

**YUNUS EMRE 1**

|  | APMAS  |   |  | INTERM  |   |   |
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|  | Yunus Emre 1   | Yunus Emre 2  | Hipokrat   | Ibni Sina   | Eflatun   | Aristo  |
|  | <p>Chairperson: <b>Byoung Ham</b></p> <p>(09:30-10:00)<br/><b>Byoung Ham</b><br/>Gwangju Institute of Science and Technology, Korea Republic of<br/><b>(Invited Speaker)</b><br/>Measurement-immune quantum secured communications</p> <p>(10:00-10:30)<br/><b>Akram Krichene</b><br/>Université de Sfax, Tunisia<br/><b>(Invited Speaker)</b><br/>Colossal Magnetoresistance in Phase-Separated Manganites</p> <p>(10:30-11:00)<br/><b>Vijaya Srinivasu Vallabhapurapu</b><br/>University of South Africa, South Africa<br/><b>(Invited Speaker)</b><br/>Low Field Microwave Absorption in Certain Spin Systems</p> <p>(11:00-11:30)<br/><b>Masahiro Mikuriya</b><br/>Kwansei Gakuin University, Japan<br/><b>ID723</b>-Mixed-Metal System Based on Mixed-Valent Binuclear Ruthenium(II,III) carboxylate and Tetracyanidopalladate(I)</p> <p>(11:30-11:50)<br/><b>Gulden Asan</b><br/>Hitit University, Turkey<br/><b>ID829</b>- Conductive Polymer Doped with Mos2 Coatings for The Corrosion Protection of Mild Steel</p> | <p>Chairperson: <b>Jae-Ho Jeon</b></p> <p>(09:30-10:00)<br/><b>Jae-Ho Jeon</b><br/>Korea Institute of Materials Science, Korea, Republic Of<br/><b>(Invited Speaker)</b><br/>Texture Engineering of Piezoelectric Ceramics</p> <p>(10:00-10:30)<br/><b>Changzhi Gu</b><br/>Chinese Academy of Sciences, China<br/><b>(Invited Speaker)</b><br/>The Nanofabrication and unique properties of graphene/diamond nanocone arrays</p> <p>(10:30-10:50)<br/><b>Duygu Yilmaz Aydın</b><br/>Gazi University, Turkey<br/><b>ID768</b>- Obtaining of Copper(II) Fluoroborate by High-Energy Impacted Ball-Milling</p> <p>(10:50-11:10)<br/><b>Young-Bum Chun</b><br/>Korea Atomic Energy Research Institute, Korea, Republic Of<br/><b>ID510</b>- Effects of Ausforming on Tensile and Impact Properties of ARAA</p> <p>(11:10-11:30)<br/><b>Fatima Tariq</b><br/>Fatima Jinnah Women University, Pakistan<br/><b>ID597</b>-Development of cyclodextrin capped silica hybrids as nanocarrier for control drug release</p> <p>(11:30-11:50)<br/><b>Fathi Jomni</b><br/>Université de Tunis El Manar, Tunisia<br/><b>ID987</b>- Dielectric relaxation and leakage current behavior in ferroelectric Ba0.85Sr0.15TiO3 thick films deposited on Ag-Pd/Al2O3 substrate by screen printing method</p> | <p>Chairperson: <b>Iftikhar Hussain Gul</b></p> <p>(09:30-10:00)<br/><b>Iftikhar Hussain Gul</b><br/>National University of Sciences and Technology (NUST), Pakistan<br/><b>(Invited Speaker)</b><br/>Massive enhancement of dielectric properties of NiFe2O4/CNFs nanohybrid for supercapacitor applications</p> <p>(10:00-10:30)<br/><b>Sreenivasa Rao Ijjada</b><br/>GITAM University, India<br/><b>(Invited Speaker)</b><br/>FinFET Technologies and Trends in Evolution</p> <p>(10:30-10:50)<br/><b>Furkan Yener</b><br/>Sakarya University, Turkey<br/><b>ID626</b>- Class Based Storage Strategy Based Mathematical Programming Approach for Hazardous Materials Storage</p> <p>(10:50-11:10)<br/><b>Furkan Yener</b><br/>Sakarya University, Turkey<br/><b>ID627</b>- Hazardous Waste Recycling in Turkey: End of Life Tire Case</p> <p>(11:10-11:30)<br/><b>Furkan Yener</b><br/>Sakarya University, Turkey<br/><b>ID628</b>- Analysis of the Most Important Factors that Affecting Tensile and Shear Strength of Dual-Phase Steels using Taguchi Method</p> <p>(11:30-12:00)<br/><b>Jiuzhou Zhao</b><br/>Chinese Academy of Sciences, China<br/><b>(Invited Speaker)</b><br/>Solidification of monotectic alloys and effects of electric and magnetic fields</p> | <p>Chairperson: <b>Thierry Astruc</b></p> <p>(09:30-10:00)<br/><b>Thierry Astruc</b><br/>INRA Auvergne-Rhône-Alpes, France<br/><b>(Invited Speaker)</b><br/>Muscle fiber types identification by synchrotron fluorescence microspectroscopy</p> <p>(10:00-10:30)<br/><b>Takeshi Yasui</b><br/>The Tokushima University, Japan<br/><b>(Invited Speaker)</b><br/>Discrete Fourier transform spectroscopy using precisely periodic THz pulse train</p> <p>(10:30-11:00)<br/><b>Vladimir U. Nazarov</b><br/>Academia Sinica, Taiwan<br/><b>(Invited Speaker)</b><br/>Electron energy-loss spectroscopy of quasi-two-dimensional crystals: One-step simultaneous inelastic and elastic scattering theory</p> <p>(11:00-11:30)<br/><b>Hamed Sadeghian</b><br/>Netherlands Organisation for Applied Scientific Research, TNO, Netherlands<br/><b>(Invited Speaker)</b><br/>Nanoimaging of Buried Structures using SubSurface Ultrasonic Resonance Force Microscopy</p> <p>(11:30-12:00)<br/><b>Siewert Hugelier</b><br/>LILLE 1 University, France<br/><b>(Invited Speaker)</b><br/>Super-Resolution Fluorescence Microscopy Imaging from a Chemometrician's Perspective</p> | <p>Chairperson: <b>Christian Teichert</b></p> <p>(09:30-10:00)<br/><b>Christian Teichert</b><br/>Montanuniversitaet Leoben, Austria<br/><b>(Invited Speaker)</b><br/>Electrical characterization of semiconductor nanostructures by Kelvin Probe Force Microscopy and Conductive Atomic Force Microscopy</p> <p>(10:00-10:30)<br/><b>Chia-Chi Huang</b><br/>National Chiayi University, Taiwan<br/><b>(Invited Speaker)</b><br/>Ultrasensitive SERS detection of catechin in solution</p> <p>(10:30-11:00)<br/><b>Suejit Pechprasarn</b><br/>The Hong Kong Polytechnic University, China<br/><b>(Invited Speaker)</b><br/>Confocal Surface Plasmon Microscopy for Surface Plasmon Wave Vector Measurement</p> <p>(11:00-11:30)<br/><b>Vlastimil Krapek</b><br/>Central European Institute of Technology, Czech Republic<br/><b>(Invited Speaker)</b><br/>Mapping of localized plasmons in metallic particles with electron energy loss spectroscopy and cathodoluminescence</p> | <p>Chairperson: <b>Felipe Mergulhão</b></p> <p>(09:30-10:00)<br/><b>Felipe Mergulhão</b><br/>LEPABE, Portugal<br/><b>(Invited Speaker)</b><br/>An Array of Microscopy Techniques to Assess Recombinant Protein Production in Escherichia Coli Biofilms</p> <p>(10:00-10:30)<br/><b>Fabio Mammano</b><br/>Consiglio Nazionale delle Ricerche, Italy<br/><b>(Invited Speaker)</b><br/>Calcium signaling in inner hair cells and non-sensory cells of the developing mouse cochlea investigated by multiphoton microscopy</p> <p>(10:30-11:00)<br/><b>Radoslaw Chaber</b><br/>University of Rzeszow, Poland<br/><b>(Invited Speaker)</b><br/>Application of Infrared Spectroscopy in the Identification of Ewing Sarcoma</p> <p>(11:00-11:20)<br/><b>Ulaş Coşkun</b><br/>ISS, Inc., USA<br/><b>ID209</b>-FastFLIM and phasor plots: Frequency Domain data acquisition card and data analysis protocol to study wide lifetime ranges and to improve the STED resolution</p> <p>(11:20-11:50)<br/><b>Yong Zhang</b><br/>Xiamen University, China<br/><b>(Invited Speaker)</b><br/>In Situ Study on the Environmental Behaviors of Typical PAHs in Mangrove Plants by Fluorimetry and Microscopic Fluorimetry</p> |

PARALLEL SESSIONS 09:30-12:00

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| 12:00-13:00 | <b>LUNCH</b>  |
| 13:00-17:00 | <p><b>SOCIAL PROGRAM</b></p> <p><b>13:00-17:00 FETHIYE SHOPPING &amp; CITY TOUR</b></p> <p><i>(Gathering at Congress registration desk)</i></p>     |
| 17:00-17:30 | <b>COFFEE BREAK</b>   |
| 17:30-18:30 | <p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – III</b></p> <p><i>(APMAS2018-INTERM2018)</i></p> |

**PROGRAM**  
**SATURDAY, APRIL 28, 2018**

| <b>PROGRAM</b>                       |  |   |  |   |
|--------------------------------------|--|---|--|---|
| <b>SATURDAY, APRIL 28, 2018</b>      |  |   |  |   |
| <b>PARALLEL SESSIONS 09:30-11:10</b> | <b>APMAS</b>   |   |  | <b>INTERM</b>   |
|                                      | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>  | <b>Aristo</b>   |
|                                      | <p>Chairperson: <b>Bhaskar Chandra Mohanty</b></p> <p>(09:30-10:00)<br/><b>Bhaskar Chandra Mohanty</b><br/>Thapar University, Patiala, India<br/><b>(Invited Speaker)</b><br/>Study of kesterite phase evolution in chemical bath deposited Cu<sub>2</sub>ZnSnS<sub>4</sub> thin films for photovoltaic applications</p> <p>(10:00-10:20)<br/><b>Xiaocong He</b><br/>Kunming University of Science and Technology, China<br/><b>ID500</b>- Numerical and Experimental Investigations of SPR Joints in Aluminium Alloy AA5052</p> <p>(10:20-10:40)<br/><b>Gordana Pavić</b><br/>Šleker Ltd., Croatia<br/><b>ID867</b>- Seismic Vulnerability Assessment of Historical Unreinforced Masonry Buildings in Osijek Using Capacity Spectrum Method</p> <p>(10:40-11:00)<br/><b>Carmen Tuca</b><br/>IFIN-HH, Romania<br/><b>ID931</b>- The radioactive inventory of the solid wastes resulted from the VVR-S nuclear research reactor decommissioning</p> | <p>Chairperson: <b>Elisabeth Djurado</b></p> <p>(09:30-10:00)<br/><b>Elisabeth Djurado</b><br/>University Grenoble Alpes, France<br/><b>(Invited Speaker)</b><br/>Advanced Designed La<sub>2-x</sub>Pr<sub>x</sub>NiO<sub>4+δ</sub> Oxygen Electrodes for SOFCs</p> <p>(10:00-10:30)<br/><b>Søren Højgaard Jensen</b><br/>Denmark Technical University, Denmark<br/><b>(Invited Speaker)</b><br/>Internal Methane Formation and Reforming in a Pressurized Planar 30-cell Solid Oxide Cell Stack</p> <p>(10:30-10:50)<br/><b>Andanastuti Muchtar</b><br/>Universiti Kebangsaan Malaysia, Malaysia<br/><b>ID831</b>- Enhancement of Interfacial Polarization of LSCF-SDC Composite Cathode by Using the Current Collecting Layer</p> | <p>Chairperson: <b>Aldona Balciunaite</b></p> <p>(09:30-09:50)<br/><b>Aldona Balciunaite</b><br/>Center for Physical Sciences and Technology, Lithuania<br/><b>ID757</b>- Employment of AuCo catalyst as anode in direct borohydride-hydroxide peroxide fuel cells</p> <p>(09:50-10:10)<br/><b>Sami And Kilic</b><br/>Bogazici University, Turkey<br/><b>ID947</b>- Experimental and Numerical Study of the Sloshing Modes of Liquid Storage Tanks with the Virtual Mass Method</p> <p>(10:10-10:30)<br/><b>Gokhan Yazici</b><br/>Istanbul Kultur University, Turkey<br/><b>ID864</b>- Sloshing Displacement Measurements Based on Morphological Image Analysis</p> <p>(10:30-10:50)<br/><b>Aysun Guven</b><br/>Ankara Yildirim Beyazit University, Turkey<br/><b>ID929</b>- Polyethylene Filled With Almond Shells Particles: Mechanical and Thermal Properties</p> <p>(10:50-11:10)<br/><b>Barış Çetin</b><br/>FNSS Savunma Sistemleri AŞ, Turkey<br/><b>ID718</b>- Influence of Cu and Ni Alloying on the Microstructure and Mechanical Properties of Austempered Ductile Iron Castings</p> | <p>Chairperson: <b>Joze Grdadolnik</b></p> <p>(09:30-10:00)<br/><b>Joze Grdadolnik</b><br/>National institute of chemistry, Slovenia<br/><b>(Invited Speaker)</b><br/>Infrared Spectroscopy in Action: Hydrophobic Effect and Preferential Conformations of Blocked Dipeptides<br/>Infrared Spectroscopy in Action: Hydrophobic Effect and Preferential Conformations of Blocked Dipeptides</p> <p>(10:00-10:30)<br/><b>Jean Stephane Antoniw</b><br/>University of Reims, France<br/><b>(Invited Speaker)</b><br/>Thermal microscopy applied to the local determination of the thermal conductivity of a super insulator nanoporous silica aerogel particule</p> <p>(10:30-11:00)<br/><b>Franciszek Krok</b><br/>Jagiellonian University, Poland<br/><b>(Invited Speaker)</b><br/>Study of the local redox processes on transition metal oxides surfaces using Kelvin Probe Force Microscopy</p> |
| <b>11:10-11:30</b>                   | <b>COFFEE BREAK</b>  |   |  |   |
| <b>PARALLEL SESSIONS 11:30-12:40</b> | <b>APMAS</b>   |   |  | <b>INTERM</b>   |
|                                      | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>  | <b>Aristo</b>   |
|                                      | <p>Chairperson: <b>Evgeny Grigoryev</b></p> <p>(11:30-12:00)<br/><b>Evgeny Grigoryev</b><br/>Russian Academy of Sciences, Russia<br/><b>(Invited Speaker)</b><br/>Advanced Methods for Consolidation of Powder Materials by Impulse Electromagnetic Fields</p> <p>(12:00-12:20)<br/><b>Esin Akarsu</b><br/>Akdeniz University, Turkey<br/><b>ID976</b>- Improving thermal properties of MMA based polymer matrix by the incorporation of in-situ</p>   | <p>Chairperson: <b>Robert A. Walker</b></p> <p>(11:30-12:00)<br/><b>Robert A. Walker</b><br/>Montana State University, USA<br/><b>(Invited Speaker)</b><br/>Optical Studies of Degradation and Resilience in High Temperature Solid Oxide Fuel Cells</p> <p>(12:00-12:30)<br/><b>Miguel A. Laguna-Bercero</b><br/>ICMA - Instituto de Ciencia de Materiales de Aragón, Spain<br/><b>(Invited Speaker)</b><br/>Advanced microtubular solid oxide cells for operation in</p>  | <p>Chairperson: <b>Wlodzimierz Erdmann</b></p> <p>(11:30-12:00)<br/><b>Wlodzimierz Erdmann</b><br/>J. Sniadecki University of Physical Education and Sport, Poland<br/><b>(invited speaker)</b><br/>Geometry and inertia of the human body</p> <p>(12:00-12.20)<br/><b>Ioan Iorga</b><br/>(1) Horia Hulubei National Institute of Physics and Nuclear Engineering, (2) University of Bucharest, Romania<br/><b>ID975</b>- Dose rate calculation and shields estimation for the reactor vessels model simulation concept using MicroShield code at the VVR- S Nuclear Research Reactor, Bucharest</p>   | <p>Chairperson: <b>Judy Wu</b></p> <p>(11:30-12:00)<br/><b>Judy Wu</b><br/>University of Kansas, USA<br/><b>(Invited Speaker)</b><br/>Plasmonic 2D Transition Metal Dichalcogenides/Graphene van der Waals Heterostructures for High-Sensitivity Surface-Enhanced Raman Spectroscopy</p> <p>(12:00-12:30)<br/><b>Oleh Shpotyuk</b><br/>Jan Dlugosz University in Czestochowa, Poland<br/><b>(Invited Speaker)</b><br/>Positron annihilation lifetime spectroscopy in nanomaterials engineering and science: from phenomenological-mathematical algorithms to practical implementation</p>   |

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|                               | <p>surface modified SiO<sub>2</sub> nanoparticles</p> <p>(12:20-12:40)<br/><b>Osama Ghazal</b><br/>Applied Science University,<br/>Jordan<br/><b>ID842-</b> Numerical Investigation of combustion characteristic of reactivity controlled compression ignition engine</p>  | both fuel cell and electrolysis modes   | Magurele   |  |
| 12:40-14:00                   | <b>LUNCH</b>   |   |  |  |
| PARALLEL SESSIONS 14:00-15:10 | <b>APMAS</b>   |   |  | <b>INTERM</b>  |
|                               | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>  | <b>Aristo</b>  |
|                               | <p>Chairperson: <b>Eung Soo Kim</b></p> <p>(14:00-14:30)<br/><b>Eung Soo Kim</b><br/>Kyonggi University, Korea<br/><b>(Invited Speaker)</b><br/>Tailoring Microwave Dielectric Properties of Ceramics for Information and Communication Technologies</p> <p>(14:30-14:50)<br/><b>Harun Cug</b><br/>Karabuk University, Turkey<br/><b>ID740-</b> Investigation of microstructural and mechanical properties of zirconium carbide (ZrC) reinforced aluminum matrix nanocomposites</p> <p>(14.50-15.10)<br/><b>Harun Cug</b><br/>Karabuk University, Turkey<br/><b>ID774-</b> Influence of nano-WC addition on wear performances of Cu-Ni matrix nanocomposites</p> | <p>Chairperson: <b>Oktay Demircan</b></p> <p>(14:00-14:30)<br/><b>Oktay Demircan</b><br/>Boğaziçi University, Turkey<br/><b>(Invited Speaker)</b><br/>Transition Metal Doped Solid Oxide Fuel Cell Cathodes</p> <p>(14:30-15:00)<br/><b>Aligul Buyukaksoy</b><br/>Gebze Technical University, Turkey<br/><b>(Invited Speaker)</b><br/>Utilization of Polymeric Precursors to Address the Issues of Solid Oxide Fuel Cells</p> | <p>Chairperson: <b>Gulten Sadullahoğlu</b></p> <p>(14:00-14:20)<br/><b>Gulten Sadullahoğlu</b><br/>Bulent Ecevit University, Turkey<br/><b>ID630-</b> Influence of Boron Addition on Magnetic Properties of Sm<sub>2</sub>Fe<sub>17</sub> Alloy</p> <p>(14:20-14:40)<br/><b>Sevil Yucel</b><br/>Yildiz Technical University, Turkey<br/><b>ID994-</b> Bioactivity Characterization of Bioceramics Produced From Sea Snail Turritella Terebra</p> <p>(14:40-15:00)<br/><b>Ismail Sarac</b><br/>R&amp;D Center, SKT Spare Parts and Machinery Industry and Trading Co., Turkey<br/><b>ID949-</b> Finite Element Simulation of Rotary Shaft Lip Seals</p> | <p>Chairperson: <b>Nidhi Mishra</b></p> <p>(14:00-14:30)<br/><b>Nidhi Mishra</b><br/>Indian Institute of Information Technology, India<br/><b>(Invited Speaker)</b><br/>Solvatochromic studies, molecular docking and ct-DNA binding studies of a chalcone</p> <p>(14:30-15:00)<br/><b>Lestyo Wulandari</b><br/>University of Jember, Indonesia<br/><b>(Invited Speaker)</b><br/>Application of Infrared Spectroscopy and Chemometric for Determination of Alkaloid in Medicinal Plant Extract</p> |
| 15:10-15:30                   | <b>COFFEE BREAK</b>  |   |  |  |
| PARALLEL SESSIONS 15:30-17:10 | <b>APMAS</b>   |   | <b>APMAS &amp; INTERM</b><br><b>(Common Sessions)</b>  | <b>INTERM</b>  |
|                               | <b>Yunus Emre 1</b>  | <b>Yunus Emre 2</b>   | <b>Hipokrat</b>  | <b>Aristo</b>  |

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|             | <p>Chairperson: <b>Moise Tchoula Tchokonte</b></p> <p>(15:30-16:00)<br/> <b>Moise Tchoula Tchokonte</b><br/> University of the Western Cape, South Africa<br/> <b>(Invited Speaker)</b><br/> Electrical resistivity and thermodynamic properties of the ferromagnet Nd<sub>2</sub>Pt<sub>2</sub>In</p> <p>(16:00-16:30)<br/> <b>Illia Fedorin</b><br/> National Technical University "Kharkiv Polytechnic Institute", Ukraine<br/> <b>(Invited Speaker)</b><br/> Topological transition points of a magnetic-semiconductor periodic structure in an external magnetic field</p> <p>(16:30-16:50)<br/> <b>Halil Ahmet Gören</b><br/> Sinop University, Turkey<br/> <b>ID765</b>-A comparative study on microstructure properties of AZ91 magnesium alloy with silicon addition using ceramic mold</p> <p>(16:50-17:10)<br/> <b>Erkan Koç</b><br/> Karabuk University, Turkey<br/> <b>ID764</b>- Corrosion Behaviour of As Cast <math>\beta</math>-Mg<sub>17</sub>Al<sub>12</sub> phase in 3.5 wt.% NaCl solution</p> |  | <p>Chairperson: <b>Daniela Djikanovic</b></p> <p>(15:30-16:00)<br/> <b>Daniela Djikanovic</b><br/> University of Belgrade, Serbia<br/> <b>(Invited Speaker)</b><br/> Fluorescence spectroscopy in structural studies of plant cell walls</p> <p>(16:00-16:30)<br/> <b>Rushana Eremina</b><br/> The Kazan E. K. Zavoisky Physical-Technical Institute, Russian Federation<br/> <b>(Invited Speaker)</b><br/> Anisotropic exchange and effective crystal field parameters for low dimensional systems from EPR data</p> <p>(16:30-16:50)<br/> <b>Orhan Cakir</b><br/> Yildiz Technical University, Turkey<br/> <b>ID502</b>-Chemical Machining of St37 Rod With FeCl<sub>3</sub></p> <p>(16:50-17:10)<br/> <b>Orhan Cakir</b><br/> Yildiz Technical University, Turkey<br/> <b>ID503</b>- Etchants For Chemical Machining of Aluminum and Its Alloys</p> | <p>Chairperson : <b>Otávio da Fonseca Martins Gomes</b></p> <p>(15:30-16:00)<br/> <b>Otávio da Fonseca Martins Gomes</b><br/> <b>(Invited Speaker)</b><br/> Novel developments in image analysis for iron ore textural characterization</p> <p>(16:00-16:30)<br/> <b>Zhuomin Zhang</b><br/> Sun Yat-sen University, China<br/> <b>(Invited Speaker)</b><br/> Surface enhanced Raman spectroscopy based rapid analysis for food safety</p> <p>(16:30-17:00)<br/> <b>Chikako Sakai</b><br/> National Institute for Materials Science (NIMS), Japan<br/> <b>(Invited Speaker)</b><br/> Observation of Electrical Potential Distribution by Active Voltage Contrast Imaging using Helium Ion Microscopy</p> |
| 17:10-17:30 | <b>COFFEE BREAK</b>   |  |  |   |
| 17:30-18:30 | <b>FOYER (Poster Session Area)</b><br>Chairperson: A. Yavuz Oral<br><b>POSTER SESSION – IV</b><br><b>(APMAS2018-INTERM2018)</b>   |  |  |   |



**PROGRAM**  
**SUNDAY, APRIL 29, 2018**

| <b>APMAS</b>  |   | <b>INTERM</b>  | <b>APMAS &amp; INTERM</b><br><i>(Common sessions)</i> |
|---|---|--|---|
| <b>Yunus Emre 1</b>   | <b>Yunus Emre 2</b>   | <b>Aristo</b>  | <b>Ibni Sina</b>                                      |
| <p>Chairperson: <b>Uros Cvelbar</b></p> <p>(09:30-10:00)<br/><b>Uros Cvelbar</b><br/>Jozef Stefan Institute, Slovenia<br/><b>(Invited Speaker)</b><br/>Plasma and the design of nanocatalysts</p> <p>(10:00-10:20)<br/><b>Tayfun Tanbay</b><br/>Bursa Technical University, Turkey<br/><b>ID606-</b> A meshless method based on symmetric RBF collocation for neutron diffusion problems</p> <p>(10:20-10:40)<br/><b>Dana Cristea</b><br/>National Institute for R&amp;D in Microtechnologies – IMT Bucharest, Romania<br/><b>ID1034-</b> Broadband photodetector based on ZnO nanowires and hybrid nanocomposite</p> <p>(10:40-11:00)<br/><b>Hakan Dilbaz</b><br/>Marmara University, Turkey<br/><b>ID584-</b> Characterization of Polyamide 12 Powder Processed by Selective Laser Sintering</p> <p>(11:00-11:30)<br/><b>Levent Çavaş</b><br/>Dokuz Eylül University, Turkey<br/><b>(Invited Speaker)</b><br/>New Antifouling Agents for Antifouling Composites</p> <p>(11:30-11:50)<br/><b>Amad Ud Din</b><br/>Fatima Jinnah Women University, Pakistan<br/><b>ID851-</b>A multisource power management interface for energy harvesting circuits</p> | <p>Chairperson: <b>Natalia Lvova</b></p> <p>(09:30-10:00)<br/><b>Natalia Lvova</b><br/>Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Region 141700, Russia<br/>Technological Institute for Superhard and Novel Carbon Materials, Troitsk, Moscow 142190, Russia<br/><b>(Invited Speaker)</b><br/>Simulation of particles interaction with defects on the surface of diamond, graphene and boron nitride</p> <p>(10:00-10:30)<br/><b>Hüsnügül YILMAZ ATAY</b><br/>İzmir Katip Çelebi University, Turkey<br/><b>(Invited Speaker)</b><br/>Manufacturing Radar Absorbing Materials by Using Magnetic Zinc Oxide Particles Synthesized by Sol-Gel</p> <p>(10:30-10:50)<br/><b>Nusret Kaya</b><br/>Izmir Katip Celebi University Science Institute, Turkey<br/><b>ID901-</b> Investigation of Alumina/Graphene mixtures thermal and electrical properties into polypropylene (PP) matrix based composites</p> <p>(10:50-11:10)<br/><b>Ismail Aydin</b><br/>Istanbul University, Turkey<br/><b>ID735-</b> Influence of Lubricant Inclusion on The Rheological Behaviour and Residence Time Distribution of Ethylene Vinyl Acetate Copolymer During Single Screw Extrusion</p> <p>(11:10-11:30)<br/><b>İrfan Selim Bozdoğan</b><br/>Bilkent University, Turkey<br/><b>ID623-</b> Metal Semiconductor Core-Shell Nanoparticles and Nanowires</p> <p>(11:30-11:50)<br/><b>Yeşim Müge Şahin</b><br/>Arel University, Turkey<br/><b>ID997-</b> Natural Nanohydroxyapatite Synthesis via Ultrasonication from Donax trunculus bivalve Seashells and Production of Its Electrospun Nanobiocomposites</p> | <p>Chairperson: <b>Alexander Khmaladze</b></p> <p>(09:30-10:00)<br/><b>Alexander Khmaladze</b><br/>University at Albany SUNY, USA<br/><b>(Invited Speaker)</b><br/>Monitoring of Methamphetamine Induced Apoptosis of Live Central Nervous System Cell Cultures by Digital Holographic Phase Imaging and Raman Spectroscopy</p> <p>(10:00-10:30)<br/><b>Silvia Carlotto</b><br/>Università degli Studi di Padova, Italy<br/><b>(Invited Speaker)</b><br/>A Theoretical Modeling of L2,3 Absorption Spectra: from Single Molecules to 2D Complex Systems</p> <p>(10:30-11:00)<br/><b>Akimitsu Hatta</b><br/>Kochi University of Technology, Japan<br/><b>(Invited Speaker)</b><br/>Micro-plasma Processing in Scanning Electron Microscope</p> <p>(11:00-11:30)<br/><b>Subhadip Ghosh</b><br/>National Institute of Science Education and Research, India<br/><b>(Invited Speaker)</b><br/>Molecular Recognitions in a Dendrimer Assembly</p> |   |
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>PARALLEL SESSIONS 09:30-11:50</b></p>   |   |  |   |
| <p>12:00-13:00</p>  | <b>LUNCH</b>  |  |   |

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| 13:00-18:00 | <p><b>SOCIAL PROGRAM</b></p> <p><b>13:00-18:00 LYCIAN WAY TREKKING TOUR</b></p> <p><i>(Gathering at Congress registration desk)</i></p> |
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| <b>PROGRAM</b><br><b>MONDAY, APRIL 30, 2018</b> |
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| 10:00-12:00 | <p><b>POOL TIME WITH VARIOUS ANIMATION ACTIVITIES</b></p> <p>Sentido Lykia Resort &amp; Spa-Liberty Hotels Lykia</p> <p><i>(for participants staying in the Congress Hotel only)</i></p> |
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| 12:00-13:00 | <p><b>LUNCH</b></p> |
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| 13:30-18:00 | <p><b>SOCIAL PROGRAM</b></p> <p><b>13:30-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON &amp; VISIT TO St. NICHOLAS ISLAND</b></p> <p><i>(Gathering at Congress registration desk)</i></p> <p><i>(for participants staying in the Congress Hotel only)</i></p> |
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| <b>PROGRAM</b><br><b>TUESDAY, MAY 1, 2018</b> |
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| 12:00 | <p><b>Hotel Check Out</b></p> |
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| <b>PROGRAM LEGEND DESCRIPTIONS</b> |                                      |
|------------------------------------|--------------------------------------|
| <b>ID-</b>                         | <b>APMAS2018 oral presentations</b>  |
| <b>ID-</b>                         | <b>INTERM2018 oral presentations</b> |