

**APMAS 2019**  
**9<sup>th</sup> INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS**  
**SCIENCE CONGRESS & EXHIBITION**

**ENEFM 2019**  
**5<sup>th</sup> INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND ENERGY**  
**RELATED MATERIALS**

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

<b>PROGRAM</b>		
<b>POSTER SESSION – III</b>		
<b>SATURDAY, OCTOBER 26, 2019</b>		
<b>17:30-18:30</b>		
<b>(FOYER)</b>		
<b>Chairperson: Ahmet Yavuz Oral</b>		
<b>(SUBMISSION ID 1401- - for APMAS 2019)</b>		
<b>(SUBMISSION ID 168- - for ENEFM 2019)</b>		
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<b>1401</b>	Electrical Signal of MWCNTs/PEO Films in Humid Environment	Nadjima Benkara Mohammed
<b>1402</b>	Influence of Cr Concentration, Strain Rate and Temperature on the Mechanical Behavior of Fe-Cr Nanomaterial: MD Simulation	Abdeslam Saad
<b>1403</b>	Effect of Zinc in Physics Properties for Lead Antimonite Oxide Glasses	Malika Nouadji
<b>1405</b>	Biodegradable Micro-Surgical Fiber Tube Using Sheath-Core Monofilaments of Polydioxanone and Poly-L-Lactic Acid for Preventing Stenosis in Surgical Anastomosis	Jun Sik Son
<b>1407</b>	Structural, Morphological and Magnetic Properties of Fe <sub>60-x</sub> Cox(Al <sub>2</sub> O <sub>3</sub> ) <sub>40</sub> Nanocomposite Coating Deposited by Thermal Spraying	Abderrahmane Younes
<b>1411</b>	Influence of Cholesterol on the Physico-Chemical Properties of Phospholipid Membranes	Nelly Drinova

1412	Modeling of Vortex Dynamics at Columnar Defect Potential in a Current-Driven Superconductor	Valeriy Fedirko
1413	Physico-Chemical Study of Lipid Membranes, Containing Functionalized and Non-Functionalized Single Wall Carbon Nanotubes	Julia Genova
1414	The Transfer of Charges in Composite Cellulose-Mineral Oil-Water Nanoparticle	Konrad Kierczynski
1415	Thermo-Gravimetric Analysis of $(\text{FeCoZr})_x(\text{CaF}_2)_{(100-x)}$ Nanocrystalline Layers	Tomasz Koltunowicz
1416	Influence of Thermal Treatment on the Electric Properties of the Nanocomposite on the Base of Ferromagnetic Alloy FeCoZr and Dielectric Matrix $\text{CaF}_2$	Vitalii Bondariev
1417	Quantum Supersymmetry Applied to a Linear Energy Dependent Potential: Projection Method	Rabia Yekken
1418	Characterization of the Sigma Phase Precipitation during Isothermal Treatment in the Titanium Stabilized 316Ti Austenitic Stainless Steel	Nabil Kherrouba
1419	Improvement in the Conductivity of Transparent Conductive Thin Films Made with Silver Nanowires Through Thermal and Mechanical Processes.	Andres Mauricio Bernal Forigua
1420	Structural and Optical Study of Thin Films Based on Metal Oxide Nanocomposites $\text{ZnO-TiO}_2$ and $\text{NiO-TiO}_2$	Hacene Serrar
1424	Comparative Study of Transport Properties of Bismuth Sulfide with Different Hallide Dopants	Farheen Anjum
1425	Radiation Hardness Investigation of Scintillation Detectors Based on Organic Plastic Scintillators and Optical Fibers	Yuri Kharzheev
1429	Dimension Effects in Insulating NbTiN Films	Mariya Burdastyh
1430	Carbon Nanoparticle Synthesis by Dense Medium Plasma and Its Usage on Improvement for Electrochemical Sensor Sensitivity	Dilek Çökeliler Serdaroğlu
1431	Study of Crystalline Transformation at Different Sintering Temperature Process of Red Clay	Giselle Carolina Barón Gualdrón
1432	Doping Effect of $\text{Co}^{2+}$ Ions on Structural and Electronic properties of ZnO Nanocrystals	Jesus Ernesto Ramos Ibarra
1433	Investigation of Water-Cement Ratio Reduction Effects on the Sustainable Concrete Mixes	Omer Damdelen
1434	Study of the Synthesis Mechanism of Zinc Oxide Structures Determined from the Correlation of Structural, Vibrational and Optical Properties	Marly Montero
1435	Study of the Sorption Capacity of Methylene Blue with Geopolymer of Carbon Gangue Doped with Fly Ash	Jefersson Lopez

1436	The Effect of Waste Frying Oil and Waste NBR on Physical Characteristics of Modified Bitumen	Khedoudja Soudani
1437	EXAFS/XANES Studies of the Local Structure of (Zn, Fe)O System	Jesus Ernesto Ramos Ibarra
1439	Neutron Diffraction Analysis of Cold Rotary Swaged Tungsten Heavy Alloys and Other Engineering Materials at CANAM Infrastructure	Charles Hervoches
1440	Numerical Study of Wind Turbine Modeled by a Porous Disk	Amina Mataoui
1442	Insulation Board Thermophysical Characterization Prepared by Wet-Preserved Hemp and Wood Chips with Hemp Shive	Edgars Kirilovs
1444	Effect of Heat Input on Dissimilar Weld Characteristics	Mohamed Farid Benlamnouar
1445	Effect of Fluid Flow in Morphology and Properties of Welding	Abdel Halim Zitouni
1448	Synthesis, Anti-Inflammatory Activity of 3-Amino 6-Methoxyl 2-Methyl Quinazolin-4(3H)-One and 3-Amino 6-Methoxyl -2-Methyl of 4H-Benzo[d] [1,3]-Oxazine-4-One	Osarodion Peter Osarumwense
1451	Thermal Configuration Modeling of a mc-Si Ingot Growth Furnace for photovoltaic	Djamel Ouadjaout
1455	An Epitome on Tuberculosis: A Phase from Drug Discovery to Nanotechnology	Kavan Thaker
1457	Effect of the Manufacturing Process on the Wear Behavior of Raw Material Grinding Balls	Bouhamla Khedidja
1458	Synthesis and Characterization of New Polydentate Ligands Carboxamides able to Mimic Copper (II) and Nickel (II) Proteins	Karima Si Larbi
1459	Latex Mediating the Synthesis of Metal Doped TiO <sub>2</sub> Suitable for Water Depollution	Wafae Halim
1461	Assessment of the Effect of Burnout in the Pulse Research Neptunium Reactor	Elena Protsenko
1463	Elaboration of ZnO Thin Films with Different Zinc Precursors (Structural and Optical Properties Study)	Nadia lehraki
1464	A Simple Approach for the Synthesis of Cellulose Nanofiber Reinforced Chitosan/PVP Bio Nanocomposite Film for Packaging	Ritesh Kumar
1465	Aluminium Doped ZnO Nano Particle Incorporated PVA Based ReRAM	Fhulufhelo Makuya
1466	The System of Failure of Modern Thoery of Long-Term Resistance of Reinforced Concrete and Warnings of Designers	Mukhlis Hajiyev
1468	Electrochemical Oxidation of Glucose by Ni-Fe Nanoparticiles Dispersed on Polyaniline Thin Films	Delloula Lakhdari
1469	Advanced Polymeric Materials and Preserving of Polymer Objects	Jiří Brožek

1470	Anti-Icing Property of Nano-ZnO Superhydrophobic Surface Prepared via Radio Frequency Magnetron Sputtering on Aluminum Alloy	Yuan Yuan
1472	Effect of Concentration (Molarity) on ZnO Properties	Fayssal Boufelgha
1473	Recrystallization Kinetics in Ti-6Al-4V Titanium Alloy	Brahim Mehdi
1475	Seismic Performance of Hangar Type Structures Used by Using the Pallet Racking System	İbrahim Yıldız
1476	Characterization of a Mixture of Scale and Pigment to Synthesize Anticorrosive Coating	Mohammed Tayeb Abedghars
1480	Design of New Model for Saturation Calculation Based on Neural Network for Low Resistivity Phenomenon	Said Eladj
1483	Suitable Sites for CSP Power Plants Installation in Algeria	Houda Tassoult
1486	Optical Spectroscopic of Er <sup>3+</sup> in BaF <sub>2</sub> Crystal	Khiari Saidi
1488	Effect of Fiber Orientation on Wear Behavior of Glass Fiber Reinforced Epoxy Composites	Youcef-Amine Masmoudi
1489	Duplex Surface Treatment Involving Electron Beam Hardening and Nitro-Carburizing of AISI H-13 Hot Work Tool Steel	Digvijay Sheed
1491	Calculation of Electromagnetic Radiation Absorption of a Small Conducting Inhomogeneous Cylindrical Particle Taking into Account the Isoenergetic Surface in the Form of an Ellipsoid of Rotation for the Model of Fuchs Boundary Conditions	Dmitry Romanov
1492	The Lubrication Mechanism of Graphene as an Antiwear Additive at Elevated Temperatures	Ning Kong
1494	Experimental Research Regarding the Decontamination of Toxic Compound Aqueous Solutions by Plasma Treatment	Nicoleta Petrea
1495	Testing the Sensitivity, Selectivity and Time of Response of Some Polymeric Sensors in the Presence of Toxic Compounds Vapours	Nicoleta Petrea
1496	Self-Propagating High-Temperature Synthesis Al-Based Quasicrystals	Oleksii Dmytrenko
1497	Synthesis of Ti-Zr-Ni Hydrogen Accumulators by Electron Beam Dehydration in Vacuum	Oleksii Dmytrenko
1498	Effect of Streptomyces sp. GBTUV5 on the Growth of Solanum Lycopersicum (Tomato)	Levent Degirmenci
1499	Experimental Research On The Response Of A Sensory Detection Block In The Presence Of Industrial Toxic Chemicals	Nicoleta Grigoriu
1501	Synthesis and Electrical Properties of LiMn <sub>2-x</sub> Al <sub>x</sub> O <sub>4</sub> Cathode Material for Li-Ion Batteries	Nedjemeddine Bounar
1503	Study of Antibacterial Efficiency and Biocompatibility of Cu-Doped TiO <sub>2</sub> Coating by Plasma Electrolytic Oxidation	Monica Thukkaram

<b>1506</b>	Estimation of Systematic Errors Committed when Approximating Length of Grain Boundaries Using Edges of Various Grid Patterns of EBSD Maps	Piotr Bobrowski
<b>1508</b>	Experimental Researches Regarding the Treatment of Industrial Wastewater Using Unconventional Techniques	Nicoleta Petrea
<b>1511</b>	Optical Properties of Rare Earth Ions Doped CdF <sub>2</sub> Single Crystals	Madjid Diaf
<b>1512</b>	Effect of the Mobility on (I-V) Characteristics of the GaAs MESFET Transistor	Ouassila Benzaoui
<b>1513</b>	Statistic Model of Mobile Services Channel Power Density Estimation for RF Energy Harvesting	Zhijian Liang
<b>1514</b>	Analysis of Cooling by Mixed Convection of a Nanofluid Flow in a Horizontal Cylindrical Pipe	Chahrazed Abdellahoum
<b>1521</b>	Numerical Estimation of Nuclear Decay Heat from Induced Neutron Fission of U-235 and Pu-239	Amir Alramady
<b>1523</b>	Computational Study of Skin Lipid Bilayer Member's and Permeability of ROS	Dharmendra Kumar Yadav
<b>1524</b>	Effect of Dynamic Strain Aging on Thermomechanical Response of High Strength Steels	Farid Abed
<b>1526</b>	Experimental Investigation of Drilling Carbon Fiber Reinforced Plastic Composite Materials	Kamlesh Phapale
<b>1527</b>	Measurement of Heat Transfer Coefficient in Interaction Zone of Multiple Liquid Jet Impingements	Chaitanya Ghodake
<b>1529</b>	Characterization and Thermal Study of Ester Liquid Crystalline Monomers and its Transition Metal Polychelates and Their Photovoltaic Performance on Dye Sensitized Solar Cells	Sadeem M. Al-Barody
<b>1530</b>	The Reason for Non-Reciprocal Heterogeneous Nucleation of Eutectic Phases	Valeriy Podolinskiy
<b>1531</b>	Calculation of Parameters of Heine-Abarenkov Model Pseudopotential Using Vacancy Type Defect Formation Energy	Amitava Ghorai
<b>1532</b>	Effect of the Bentonite/Magnetite Filler on Structure and Properties of Composites Based on Hydroxyethyl Cellulose	Andrew Noskov
<b>1534</b>	Ion Beam Induced Modifications in Structural and Electrical Properties of Graphene	Sunil Kumar
<b>1535</b>	Modeling of Geometric Free Form Surface Defects by Artificial Intelligence: Applications to Turbine Blades	Bloul Benattia
<b>1536</b>	Cu(I) Complexes Having Propionitrile and Pyridine Moieties: In-Vitro Biological Study	Ziyad Taha
<b>1537</b>	Biological Properties of Some Transition Metal(II) Complexes Having a Pyridine Moiety	Ahmed Hijazi

1538	Effect of Simultaneous Co-Doping with Ce <sup>4+</sup> and Ce <sup>3+</sup> Ions on Surface Acid Properties of the Mesoporous Ce-MCM-41 Hybrid Materials	O. A. González Vargas
1541	Oil Spill Removal from Water by Mussel-Inspired Polydopamine/Polyethylenimine-Functionalized Activated Carbon Derived from Date Palm Waste	Adewale Giwa
1542	Analysis of the Plasma Oxygen Gas Flow Rate Affecting on ITO Thin-Film Nanostructure	Narong Mungkung
1543	Prediction of Micromechanical Resistance of Partially Damaged Unidirectional Composites Lin/Epoxy	Sidi Mohammed Amine Khiat
1544	Sonochemical Synthesis of Gold Nanoparticles via Palm Oil fronds Extracts for Cytotoxicity Assay	Ibrahim Adamu Usman
1545	Temperature Effect on Nuclear Statistical Quantities in the Isovector Plus Isoscalar Neutron-Proton Pairing Case	Djamila Mokhtari
1545	Temperature Effect on Nuclear Statistical Quantities in the Isovector Plus Isoscalar Neutron-Proton Pairing Case	Djamila Mokhtari
1546	Viscoelastic Effects in Elastic Modulus Measurement Using Depth-sensing Indentation	Ahcene Mokhtari
1547	Production of Enantioselective Alcohols by Phosphinite Ligands and Their Ruthenium (II) Complexes	Khadichakhan Rafikova
1549	Structural Characterization and Synthesis of ZnO/TiO <sub>2</sub> Nano Composites	Maryam Kiani
1550	Elemental Determination of a Solid Surface by Low Energy Ion Scattering Technique	Maryam Kiani
1551	A DFT Study of Quaternary Chalcogenide Semiconductors Cu <sub>2</sub> ZnSnS(Se) <sub>4</sub> by Tran-Blaaha Modified Becke-Johnson and Hubbard Potentials	Mouna Mesbahi
1552	New Multiband Antenna with a Slotted Ground Plane for Wireless Devices	Amel Boufrioua
1553	Slow-release Antifungal Wound Dressing against Dermatophytosis	Farnoush Asghari-Paskiabi
1554	Rheological Characterization of Hydrogel-like N, N, N-trimethyl Chitosan-based Polyelectrolyte Complexes	Janez Cerar
1556	Ferromagnetism of Two Dimensional MoO <sub>3</sub> Doped with Te	Dong Jin Lee
1558	Quantum Mechanical Information Security	Kamil Kaya
1559	Intersubband Transitions in the Growth Direction in GaN Quantum Dot in AlGaIn Quantum Wells for Terahertz Emissions	Ya-Feng Song
1560	Investigation of Shielding Properties of Strontium-Bismuth Borate Glasses Doped DMSO and PMMA Smart Polymers for Gamma and Heavy Ions	Derya Yilmaz Baysoy

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1563	A Mechanism of the Thermal Conductivity Affecting on Reducing the Recovery Voltage in Low Current Vacuum Arc	Narong Mungkung
1565	Assessment of Patient Entrance Skin Dose (ESD) and Effective Dose (ED) for the Most Common Interventional Radiological Exams at Mazandaran Hospital	Seyed Ali Rahimi
1566	Weakly Nonlinear Gravity-capillary Short Crested Interfacial Waves	Nabil Allalou
1567	Crystal Structure, Hirshfeld Surfaces, Optical and Thermal Behavior of Two $\alpha$ -Hydroxyphosphonate	Louiza Ouksel
1568	The Development and Investigation of V-4Ti-4Cr Semi- Finished Clad with 12x17 Ferrite Stainless Steel	Yury Karasev
1569	Study of the Mechanical Behavior of Brittle Materials from a Vickers Cyclic Indentation Test	Bentoumi Mohamed
1570	Highly Ordered Nanostructures with Tunable Properties: Progress and Challenges	Abdul Mutalib Md Jani
1571	Effects of PH on Structural and Optical Properties of ZnO Nanopowder	Louiza Arab
1572	Development and Application of Nanostructural and Monocrystals Materials in Medical X-ray Technique	Michail Taubin
1238	A Review on the Additive Manufacturing Technologies of Polyamide Material	Aissa Oubalouch
1573	Dynamics Of The Germ Cavitation Under The Action Of Single Negatives Of Negative Pressure	Sergey Karnilovich

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170	Analysis of a Heliostat Field Layout with Reduced Shading Effect in Southern Tunisia: Flux Density Modelling	Fathia Eddhibi
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218	The Effect of Adding Phragmites Australis Natural Fibers on the Concrete Properties	Jamal Khatib
219	Utilisation of Fibre Made from Plastic Straw in Concrete Applications	Jamal Khatib
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