

APMAS 2019
9th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS
SCIENCE CONGRESS & EXHIBITION

ENEFM 2019
5th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND ENERGY
RELATED MATERIALS

Liberty Hotels Lykia, Oludeniz
MUGLA / TURKEY

PROGRAM POSTER SESSION-I TUESDAY, OCTOBER 22, 2019 17:30-18:30 (FOYER)		
Chairperson: Ahmet Yavuz Oral (SUBMISSION ID 1-1263 for APMAS 2019) (SUBMISSION ID 1-87 for ENEFM 2019)		
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1129	Investigation of Protective Surface Film Behaviour on Molten AZ91 Magnesium Alloy in HFC-134a Fluorine-Containing Cover Gas Atmosphere	Ali Serdar Vanli
1130	Wear Behaviours of P/M NITI Parts Produced via Different Sintering Time	Sinan Aksöz
1131	Comparative Study on Wetting Properties of SAC-2Bi and SAC-2In Solder Alloys	Ahmet Mustafa Erer
1132	Mechanical Stress Analysis for Metal Steel Leaf Spring in the Vehicle Suspension Systems	Özdoğan Karaçalı
1133	Computational Analysis of Fiber- Filled Composite Thermoplastics in Injection Molding Simulation	Özdoğan Karaçalı
1134	Pressure and Strain Distribution Analysis for Perceived Comfort in Footwear Polymer Insole Design	Özdoğan Karaçalı

1135	Structural, Elastic and Optoelectronic Properties of Sr-Based Perovskite-Type Oxides SrXO ₃ (M = Th, Zr) via First-Principles Calculations	Mohamed Amine Ghebouli
1136	Influence of Water Quality on the Electrochemical Behavior of a Carbon Steel Used in the Combustion Chamber of Boilers of a Petroleum Complex	Nadia Hammouda
1137	The Evolution of Eutectic Carbides During Heat Treatment in a Stellite-Type Deposit Applied on Stainless Steel	Abdelaziz Sellidj
1138	Investigating the Effects of Temperature on the Mechanical Properties of Austempered Ductile Iron Castings	Cengiz Baykasoğlu
1139	Production and Characterization of Electrodeposited Nickel/Graphene Composite Coatings	Harun Mindivan
1142	The Effects of Superstatistics on Nonthermal and Suprathermic Distributions	Samia Dilmi
1143	Experimental Determination of RMS & Molecular Velocity of an Atom	Salako Olatunji
1144	Knowledge-Based Systems are a Future of Nanotechnology World	Victor Abrukov
1145	Memristor Model Analysis of the Dynamical Switching Behavior	Faten Rziga Ouaja
1146	Study of the Evolution of Silicon Nanoparticles in Silicon Oxynitride Annealed at High Temperatures Using Spectroscopic Ellipsometry and FTIR	Bessem Kaghouché
1148	Assessment of Radon Concentrations in Tap Water for Different Areas in Baghdad City Using Rad7	Nesreen Naje
1151	Valuation of Mill Scale as Anticorrosive Pigment	Belgacem Bezzina
1153	Thermodynamic Properties of Liquid Metals: The Variational Procedure in Conjunction with the Random Phase Approximation	Nikolay Dubinin
1155	The Influence of Dislocations on Crack Propagation in a Glass Material	Hamid Hamli Benzahar
1157	Impinging Air Twin Jet on a Fixed Wall Plane	Abdelhak Benaoum
1158	Numerical Comparison between Single and Twin Jets	Sahnoun Rachid
1159	Numerical Study of Isothermal Single Impinging Air Jet	Rachid Bouregba
1160	A Facile Method for the Synthesis of Highly Monodisperse PMMA@Gold Core–Shell Particles and Their Use in the Fabrication of Three-Dimensional Metallodielectric Photonic Crystals	Syara Kassim
1161	Comparison of the Behavior of 2-[(Phenylimino)Methyl]Phenol in a Homogeneous System and Their Distribution in a Heterogeneous System by UV-Visible Spectrophotometric Method	Hadjeb Rihana
1162	Synthesis of Uvarovite Garnet Using Different Synthesis Routes	Irena Balciunaite
1163	Mechanical Characterisation of Glass and Jute/Epoxy Composites	Mohamed Kenane

1165	IZOMIN – A Result of Disruptive Innovation	Cezar Bulacu
1166	Mechanical Properties of Austenitic Stainless Steel Welded by Laser and TIG	Jae-Eun Paeng
1167	Evaluation of Harmless Crack Size Using a Uniformized Equation Considering the Nonlinear Region of the Crack Tip	Min-Heon Kim
1168	Determination of Light Induced Degradation (LID) Origin in Multicrystalline mc-Si Solar cells	Yacine Kouhlane
1169	The Plastic Flow of Solids Viewed as Autowave Process	Lev Zuev
1170	Effect of Iron-Doping on the Tensile Strength of Single Walled Zirconia Nanotubes Using Finite Element Analysis	Ibrahim Dauda Muhammad
1171	Environmental-Friendly Composites Based on Natural Rubber and Plasticized Starch Obtained by Electron Beam Irradiation in the Presence of Polyfunctional Monomers	Gabriela Craciun
1172	Flocculants for Water Treatment Obtained by Electron Beam Irradiation	Elena Manaila
1173	Studies of the Influence of P ₂ O ₅ in Graphene-Based TiO ₂ Glassy Films for Photocatalytic Applications	Ileana Cristina Vasiliu
1174	Effects of Admixtures on Alkali Aggregate Reaction Expansion of Cement Mortar with Aggregates from Pakistan	Wencui Yang
1177	Numerical Study of Intergranular Segregation in CFC Structure Binary Metal Alloys	Khaoula Belkhir
1178	Superhydrophobicity, UV Protection and Oil/Water Separation Properties of TiO ₂ Nanoparticles and Trimethoxy(Octadecyl)Silane Coated Cotton Fabrics	Muhammad Zaman Khan
1179	Effects of Rotary Tubes on Aerodynamic Forces in Tube Bundles	Drai Ismail
1180	Influence of Excavation Phase Shift on Two Tunnel Interaction	Chafia Djelloul
1183	Crystal and Magnetic Structure of the Disordered Iron Oxides PbFe _{0.5} Nb _{0.5} O ₃ : Neutron Diffraction Data	Baibolat Argymbek
1185	Soft Chemical Pretreatments of a Lignocellulosic Waste: an Ecofriendly Route for More Effective Pollutants Sorption	Zoubida Senouci Bereksi
1186	Organic-Inorganic Hybrid Silica Films Prepared by Using an Air-Blast Spray Coating Technique	Jae Young Park
1187	Improvement of Thixotropic and Adhesion Properties for Polyvinyl Chloride Plastisol	Hohyeong Kim
1189	Fluorescent Thermometers Built by the DNA and Silver Nanoclusters	Wensheng Shi
1190	Self-Propagating High-Temperature Synthesis of Fe ₂ TiSn _{1-x} M _x (M= Hf, V, Zr, Si) Heusler Alloys with Following Spark Plasma Sintering	Zhanna Yermekova

1192	Microstructure and Elastic Properties of B ₄ C/C ₆₀ Nanocomposite Prepared by HPHT Method	Viacheslav Prokhorov
1193	Effect of Rubber Crumb on the Behavior of Concrete Sand	Mezidi Amar
1194	Unraveling the Acoustic Exciton-Phonons Interaction in a Single GaN/AlN Quantum Dot	Mouna Triki
1195	Theoretical Investigation of Structural, Electronic and Magnetic Properties of Mn-V (N, P, As, Sb, Bi) Compounds	Metin Aslan
1196	ReRAM Based on Water Soluble Polymer Nano Composite	Sreedevi Vallabhapurapu
1197	Low field Microwave Absorption in Metal Nanoparticles Embedded Conducting Polymers	Vijaya Srinivasu Vallabhapurapu
1198	O/D Estimation Based on Mobility Big Data	Juyoung Kim
1199	Excitonic Properties in the Vertical Heterobilayer Semiconducting Transition Metal Dichalcogenides MoS ₂ -WSe ₂ within Wannier Mott Model	Emna Ben Salem
1200	Magneto Transport in Metal Nanoparticles Embedded Conducting Polymer Nano Fibres	Tebogo Mahule
1201	Electronic Structure, Optical and Mechanical Properties of Hydrated Acidic Pyrophosphate Crystals K ₂ Cu(H ₂ P ₂ O ₇) ₂ •2H ₂ O Polymorphs (Triclinic and Orthorhombic Phases)	Khalid Brouzi
1202	Integrated Solutions for the Titanium Alloys Additive Technologies	Taras Yanko
1204	Object-zhen Oriented Modeling of Rocket	Yoothana Suansook
1205	A Computational Study on Nanocomposites (A Matrix, Reinforced by Carbon Nanotubes)' Physic-Mechanical Properties	Katya Marinova Simeonova
1206	A Study on Computational Modeling of Nanoscale Materials, by Tools of Nanomechanics. Applications for Treatment of Cancer' Therapies In Molecular and Cell Biology	Katya Marinova Simeonova
1207	Modeling the Detection of Hidden Non-Metallic Objects in the Centimeter Range of Electromagnetic Waves	Andrei Maksimov
1208	Multifractal Model for the Study of the Surface of Metal Sheet with Textured Polymer Coatings	Olga Maksimova
1211	The Boriding Treatment of XC38 Steel: Characterization and Optimization of the Paste Composition for Wear Resistance	Brahimi Abdelhalim
1212	Mechanical Behavior and Microstructure of Gas Pipelines Welded Joints Achieved with Hybrid Welding Process	Abderrahmane Abderrahmane
1213	CuInSe ₂ in Thin Films is a Basic Structure For a Photovoltaic Application	Leila Ghalmi
1214	Designing Hard Inverse Perovskites Materials ABX ₃ with Datamining Approach	Fatiha Saidi

1217	Affinity-Based Performance Analysis of Heterojunction p-i-n PV Cells	Samed Halilov
1218	Term Source for Research Reactor	Hassane Graine
1221	Sustainable Development of Bioheat from Agriculture Wastes and Environment	Abdeen Omer
1222	About Rock Strength Certificate	Boris Rychkov
1223	Numerical Solutions of Solute Transport with Longitudinal and Transverse Diffusion in Pesticides Contaminated Soil	Khoula Haddad
1224	Transport Coefficients of V ₂ VAl	Saleem Yousuf
1225	Crystallization and Properties Degradation in Ultrathin Amorphous HfO ₂ Films Induced by Swift Heavy Ions	Jie Liu
1226	The DFT (TB-mBJ) Calculations of Electronic, Magnetic and Anisotropic Elastic Properties of ScMnO ₃	Chadli Abdelhakim
1227	Irradiated Effects in Few- and Mono-Layer MoS ₂ Induced by Heavy Ions	Youmei Sun
1229	Study the Influence of High Electron Fluence on the Cell Parameters and Crystallinity Sizes of MWCNTs	Iroda Yuldashova
1230	Statistical Analysis of Fatigue Test in Jute Reinforced Polyester Composites Using Weibull Distribution	Djamel Djeghader
1231	FTIR Spectroscopy Characterization for Silicon Crystal Doped by Neutron Transmutation in Es-Salam Reactor	Nadjet Osmani
1232	2D Ru-Ni/ Graphene Hybrid Nanostructures: A Molecular Dynamics Investigation	Serap Senturk Dalgic
1233	The Research of the Anisotropic Conductivity of the Epoxy, Modified by Carbon Nanotubes	Mariya Buzmakova
1234	Dry Sliding Wear Behaviour of Ti ₃ SiC ₂ and the Effect of TIC on ITS	Seif-Eddine Bendaoudi
1235	Correlation between Optical and Structural Properties of GaN Epi-Layers by the Cathodoluminescence Technique	Ferid Ben Nasr
1236	Advanced Energetic Materials Genome	Victor Abrukov
1237	The Adsorption Pattern of Gold Nanoparticles influenced by Self-Assembled Monolayers with Amino, Hydroxyl, and Carboxyl Terminal Groups of Alkyl Chains	Jae Hahn
1240	Fabrication of Graphene Embedded LiFePO ₄ Using Catalyst Assisted Self Assembly Method as Cathode Materials for High Power Lithium-Ion Batteries	Ji-Yong Eom
1241	Biopolymer Materials Containing New Synthesized Curcumin-Like 3,5-bis-Arylidenpiperidones	Nurgul Zhumanova

1242	Hybrid Approach to Mathematical Investigation of Gas Diffusion Properties of Homogeneous Nanoporous Materials	Eduard Nikonov
1243	Anharmonic Nature of Homo- and Heterogeneous Hexamer Adatoms Cluster Diffusion on Ag(111) Surface	Sardar Sikandar Hayat
1245	Deformation Effect on the Structural and Energy Characteristics of Intermetallic NiAl and Ni ₂ AlNb	Aleksandra Chaplygina
1247	Radionuclide Characterization of Tritiated Water Using NMR Spectrometry	Catalin Stelian Tuta
1248	Determination of Tritium Contents in Stainless Steel Samples Using Full Combustion Method	George Bubueanu
1249	Gamma-Rays Shielding Properties of Heavy Concrete with Barite and Tungsten Aggregate	Viorel Fugaru
1250	(Au)z/CuTI-1223 Nanoparticles-Superconductor Composites: Excess Conductivity Analysis and Activation Energy	Muhammad Mumtaz
1252	Different Types of Samples Dated by Radiocarbon at Bucharest RoAMS Laboratory	Oana Gaza
1253	Electrodeposition of Vanadium Oxides Films, for Lithium-Ion Insertion	Katia Ayouz
1254	Morphological and Optical Parameters of Monolayers and Multilayers Porous Silicon Studied by Spectroscopic Ellipsometry	Hadj Yahia Seba
1255	Determination of Radioactive Concentration of Tritiated Water Using EPR Spectrometry	Cristian Postolache
1256	Non Linear Stability Analysis of Journal Bearing Lubricated with Non-Newtonian Fluids	Meramria Ouafa
1257	Simulation of Hole Transient Photocurrents	Serdouk Fadila
1258	Fluctuations Induced Conductivity of La _{2-x} Ce _x CuO _{4±d} Thin Films from Optimum to Over-Doped Regions	Muhammad Mumtaz
1259	Characterization of Vertical Variability of Dense Sand Using Non Normalized CPT Soil Behavior Type Index	Djamila Bouayad
1260	Elaboration and Characterization of Porous Hydroxyapatite Materials via the Reaction-Sintering of Phosphate and Aluminium Powder	Hocine Belhouchet
1261	Simulation of Ionized High-Speed Thermally Non-Equilibrium Flows	Alexander Molchanov
1262	X-Ray Exposure Configuration and Dose Measurements at Different Thicknesses of Water Layer Using Individual Dosimeter	Felicia Mihai
1263	Enhanced Sensitivity of H ₂ Gas Sensor Based on Nanostructured Amorphous Methylated Silicon Films	Lamia Talbi

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14	Influence of Iron Nano Co-Polymer Catalysts on the Liquid Hydrocarbons Production in the Synthesis Fischer Tropsch	Abdulqadier Al Khazraji
15	Experimental Study of Proppant Crush in Different Geothermal Reservoir	Yang Che
16	Engineering of Metallic Bismuth and Sulfur Vacancies on Photocatalytic Hydrogen Evolution Performance of $\text{Bi}_{19}\text{X}_3\text{S}_{27}$ (X=Cl, Br, I)	Zuozuo Wu
18	Sn-C Nanocomposites Synthesized by Arc-Discharge Method for Anode Material of Li-Ion Batteries	Alexey Zaikovskii
19	Assessment of Energy Consumption in Parboiled Rice Milling Industry: A Case Study of Parboiled Rice Milling in a Developing Economy	Aondoyila Kuhe
20	Microgrid Environmental Impact	Mohammad Alhashem
23	Wastewater Treatment: Overview, Types, Energy Consumption & Actual State in Lebanon with Proposal of Using Renewable Energy	Firas Fayssal
24	Pesticide Occurrence and Distribution in Cultivated Soils of the Arid Region of El-Hejera, Ouargla Province and Correlation with Soil Properties	Nabiha Aloui
25	Modeling and Control of LVDC Microgrids For Uninterrupted Power Supply to DC Loads	Mahnoor Fatima
26	System of Infrared Diagnostics and Control of Experimental-Industrial Transmutation Nuclear-Energy Installation	Marina Maltseva
27	Nitrogen-Doped Carbon as Supporting Material for Gold-Metal Nanoparticle Electrocatalysts for Borohydride Oxidation and Oxygen Reduction	Aldona Balčiūnaitė
29	An Effective Method for Reconstructing the Historical Change in Anthropogenic Contribution to Sedimentary Organic Matters in Rivers	Shanshan Wang
30	Comparing Kelp and Wood Wool Thermal Characteristics and Using Them for Thermal Insulation	Indrit Vozga
32	Energy Efficiency in Buildings: A Review	Ashutosh Dutt Bhardwaj
34	Optimization of a Power Supply Used for a Discharge Lamp-Electronic Ballast System for Sterilization Using Conventional Converter and a Matrix Converter	Aissa Bokhtache Aicha
35	Gold Nanoparticles Modified Zinc-Cobalt Coatings as Catalysts for Hydrazine Electro-Oxidation	Eugenijus Norkus

37	Highlights on the Metal/Support Interaction: Metal Supported Nanoparticules Structural and Optical Investigation	Assia Bilek
41	Investigation of Photovoltaic Modules Degradation with Different Technolgy after 13 years Outdoor Exposed in Cologne Climate (Germany) by Electroluminescence (EL) and Infrared (IR)	Issa Faye
42	Simulation of Negative Index Waveguide Structures for Solar Cell Energy	Mohammed Shabat
44	Synthesis and Characterisation of Ni-P-ZrO ₂ Nanocomposite Coatings	Wiam Alrawi
48	Lactic Acid Production by Fermentation Using Wheat Bran as a Renewable Carbon Source	Irfan Turhan
49	A Scale-up Processing for Mannanase Fermentation	Irfan Turhan
50	Effects of Inoculating and Structuring Agents in the Digestion of OFMSW and Agricultural Waste	Candela Díaz
51	Modelling Properties of Alkaline Electrolyser	Krzysztof Górecki
52	Modelling Solar Cells Operating at Waste Light	Krzysztof Górecki
53	Modelling Properties of Feeding Systems Used in LED Lamps	Krzysztof Górecki
54	Phase Change Materials as a Way to Increase Heat Storage Capacity of Buildings	Milan Ostry
55	NiAl _x Fe _{2-x} O ₄ Mixed Oxides Catalysts for Methane Reforming with CO ₂ : Effect of Al-Content and Precursors Anions	Rafik Benrabaa
56	Photocatalytic Degradation of Crystal Violet by Nickel-Cobalt Catalyst under Solar Light Irradiation	Karima Rouibah-Messaoudene
58	Exergetic Analysis of an Improved Cycle for Absorption/Compression Heat Pump Application Integrated a Biomass Source and Using Organic Fluid Mixtures	Rabeb Toujani
59	Microwave-Assisted Heating Processes in the Presence of Biochar	Dmitrii Kalganov
63	Wave Energy Resource Assessment in the Mediterranean Basin: The Tunisian Perspective	Abir Sakly
64	Methylamine-Water-Helium Absorption/Diffusion Machine for the Production of Solar Cold	Monia Chatti
66	Exergy Analysis of Solar Hybrid Industrial Batch Type Drying Unit	Waseem Amjad
68	Enhanced Production, Heterologous Expression and Characterization of a Hyperstable Glycosyl Hydrolase Family 12 Endo-1,4-β-Glucanase Cloned from Thermotoga Naphthophila RKU-10T	Ikram Haq
69	Biochemical Characterization and Thermodynamics Analysis of a Thermophilic β-Glucosidase Cloned from Ruminiclostridium Thermocellum in Mesophilic Host System	Fatima Akram

70	Heterologous Overexpression and Biochemical Characterization of a Thermophilic Endo-1,4- β -Glucanase from <i>Thermotoga Maritima</i> MSB8	Ikram Haq
72	Energy Comparison of MPPT Techniques for PV Systems under Different Environmental Conditions	Hamidreza Khezri
73	An Software for Performance Guarantees Calculation at Performance Tests of a Coal-Fired Power Unit	Anh Hoang
74	Regulations of Application of Energy Efficiency in Industrial Processes	Georges El-Jamal
75	Purification and Characterization of Moroccan Bentonite Application to the Adsorption of Methylene Blue	Hanane Ait Hmeid
76	Smart System Based on Silicon Carbide Semiconductor for Sensitive Detection of Combustible Gas Leakage for Safety Applications	Jenica Neamtu
78	Investigation of Boron Diffusion for p ⁺ Emitter Formation on n-type Silicon	Abdelghani Boucheham
79	Assessment of Geothermal Energy in Terms of Sustainable Development: The Case of Van (Turkey)	Hacer Düzen
80	Application of a Compact Skeletal Mechanism on a Turbulent Flame of Hydrogen Diluted Using OpenFOAM	Hermann Chopkap Noume
86	A Review of Nuclear Power Plant Thermal Hydraulic Test Facilities in China	Li Gao
213	Design of a Solar Thermal Energy Accumulator Using PCM	Alejandro Reyes