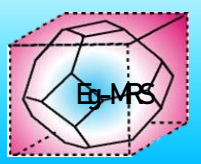




The 35th Eg-MRS Annual Meeting, in Collaboration with the Nanotechnology Research Centre at the BUE



Saturday, 3 July 2021 Chair: **Arafa H.Aly**

Time	Speaker	Title
10.50-11.00	Opening ceremony: Eg-MRS : Hassan Talaat , Eg-MRS, Ain Shams University A-MRS; Lebogang Modise African Materials Research Society	
11:00-11:40	Mahi R Singh ; <i>The University of Western Ontario, London, Canada</i>	Study of Dipole-Dipole Interaction in Metallic Nanohybrids
11:40-12:20	Erik Bakkers ; <i>Eindhoven University of Technology, The Netherlands</i>	Efficient light emission from hexagonal SiGe
12:20-12:25	Break	
Chair	Tamer Abdallah , <i>Ain Shams University</i>	
12:25-12:33	Zaky A. Zaky ; <i>Beni-Suef University, Egypt</i>	Effect of graphene on the performance of photonic crystal sensors
12:33-12:41	Hanem Khater ; <i>Benha University, Egypt</i>	Nanobotanical acaricides against Ticks and Ticks -Borne Diseases
12:41-12:49	Mohammed Shihab ; <i>Tanta University, Egypt</i>	Study Of The Optimum Conditions And Parameters To Perform Simulation Of Low Temperature Capacitive RF Argon Discharge
12.49- 12.57	Tamer Abdallah ; <i>Ain Shams University, Egypt</i>	Enhancement of photovoltaic performance of dye-sensitized solar cell using porous silicon layer as photoelectrode
12:57-13:05	Ali Atta ; <i>National Center for Radiation Research and Technology(NCRRRT), Egypt</i>	Ion Irradiation Induced Modification on the Surface Properties of Polymer composites Films
13:05-13:13	Walid Tawfik ; <i>Cairo University, Egypt</i>	Spectroscopic study of Cu, Mn, Cd as heavy metals in agricultural samples
13:13-13:21	Shaimaa A.Habib ; <i>Damnhour University, Egypt.</i>	Spinel Ferrite-Graphene Hybrid Structures For Energy Conversion And Storage Studied By Soft X-Ray Spectromicroscopy
13:21-13:29	Fatma Abdel Mouez ; <i>Central of Metallurgical Research and Development Institute (CMRDI), Egypt.</i>	Synthesis of Nano silver powder using green environmental reducing agent and their effect on toxicity
13:29- 13.37	Gomaa A. M. Ali ; <i>Al-Azhar University, Egypt</i>	Low-Cost and High-Performance Asymmetric Supercapacitor
13:40-14:20	Invited speaker: Sultana Nahar ; <i>Department of Astronomy, The Ohio State University, Columbus, OH 43210, USA</i>	Spectroscopic study of lanthanides
14:40	Comments & Closing first day session	

Sunday, 4 July 2021 CHAIR: **Hassan Talaat**,

Time	Speaker	Title
11:00-11:40	Thomas Krauss ; <i>Physics department, York University, UK</i>	Metalens fluorometer for assessing drinking water quality
11:40-12:20	Vincent Laude ; <i>Institut FEMTO-ST, CNRS, University Bourgogne Franche-Comté, Besançon, France</i>	Three-dimensional phononic crystal with ultra-wide bandgap for ultrasonics applications
12:20-12:25	Break	

Eg-MRS Workshop: CHAIR: **Hassan Talaat**,

12:25-13:05	Thomas Krauss ; <i>Physics department, York University, UK</i>	Low cost, high performance optical biosensor for infections and Covid-19
13:05-13:20	Ayman A. Ameen , <i>Sohag university, Egypt</i>	Human mask based on annular photonic crystals for the possibility to employ in SARS-CoV-2 and COVID-19
13:20-13:25	Break	

CHAIR: **Hassan Nageh, BUE**

13:25-13:33	Sodky Hamed Mohamed ; <i>Islamic University of Madinah, Saudi Arabia.</i>	Optical and electrical properties of Fe doped Bi₂Te₃ thin films
13:33-13:41	Yasser Abdel-Fattah ; <i>National Research Institute of Astronomy and Geophysics (NRIAG), Egypt</i>	V-Trough Optimization for a Multipurpose Integrated Solar Energy Project in Helwan of Egypt
13:41-13:49	M. A. Awad ; <i>Sohag University, Egypt</i>	Synthesis of room temperature diluted magnetic nanostructure via chemical vapor deposition technique
13:49-13:57	Hassan Sayed , <i>Beni Suef University</i>	Photonic crystals umbrella for thermal desalination: Simulation study
13:57-14:05	Mohamed Abdelhamid , <i>National Research Institute of Astronomy and Geophysics (NRIAG), Egypt</i>	Low-temperature Hydrothermal Synthesis of Titanium Dioxide Nanoparticles for Photocatalytic Applications
14:05-14:13	Manel Bouguerra ; <i>Université de Sfax, Tunisie.</i>	Structural study, thermal analysis, vibrational and optical properties of a novel organic inorganic hybrid material
14:13-14:21	Ahmed Medhat ; <i>Ain Shams University, Egypt</i>	Graphene Nanoplatelets-Au Nanoparticles Hybrid as a Capacitive-Metal-Oxide-Semiconductor pH Sensor
14:21-14:29	Marwa. M. Moharam , <i>Central of Metallurgical Research and Development Institute (CMRDI), Egypt</i>	Electrode materials for supercapacitor applications
14:29-14:37	Mahmoud Abdelfatah , <i>Kafrelsheikh, Egypt</i>	Impact of band gap and carrier concentration on the performance of ZnO/CuO solar cells
14:37-14:45	Mohammed Ibrahim , <i>Nile University, Egypt</i>	Comparative neutronic study for heterogeneous and homogeneous fuel assembly in a lead-cooled fast reactor

Posters		
14:45-15:15	Tamer Abdallah , <i>Ain Shams University, Egypt.</i>	SERS detection of DNA cancer with single-base mutation for KRAS-gene
	Sayed Ahmed , <i>MUST University, Egypt.</i>	Laser Interferometric Investigations on some Physical Properties of Natural Bio- gases
	Mostafa Abd Elrazek , <i>High Institute of Engineering Technology, EL-MINA</i>	The Reliable Concrete Compression Strength Assessment by SCHMIDT Hammer for Different Concrete Grades.
	Mohamed A. Aboelnasr , <i>Al-Azhar University, Egypt.</i>	Preparation and characterization of Bioactive Hybrid Materials based on Biopolymer/ Bio-ceramic Nanocomposites
	Medhat Mesallam El Naggat , <i>Benha University, Egypt</i>	Water Scavengers Controlled Electrolyte Performance and Sulfur/ Silicon carbide Cathode for Magnesium Ion Batteries
	Asma Rachid Arfaoui , <i>Jouf University</i>	PHYSICAL INVESTIGATIONS ON NIMO04 THIN FILMS PREPARED BY CHEMICAL SPRAY PYROLYSIS TECHNIQUE
	Ammar mohamed , <i>Chaqra University</i>	Enhanced photocatalytic degradation against methylene blue dye of MoO ₃ , NiMoO ₄ , Co _{0.7} Fe _{0.3} (MoO ₄) and Fe ₂ (MoO ₄) ₃ thin films under sunlight irradiation
	Huda Farid , <i>city of Scientific research and technological applications</i>	Microstructure and physical properties of high temperature superconductors Bi _{1.6} Pb _{0.4} Sr ₂ Ca ₂ Cu ₃ O _{10+δ} doped by Cr ₂ O ₃
	Mhamed Morsy , <i>Building Physics and Environment Institute, Housing & Building National Research Center (HBRC)</i>	Promoting the physical and the mechanical properties of concrete using nano and waste materials
Mourad mahmoud mourad , <i>Ministry of electricity and renewable energy</i>	Studying of free-cobalt stainless steel alloys for shielding of nuclear power reactors	
15:15	Closing	