



# ISyDMA

Fourth International Symposium on Dielectric Materials and Applications

ISyDMA 4

2 - 4 May 2019, Amman, Jordan



4<sup>th</sup> International Symposium on  
Dielectric Materials and Applications  
The University of Jordan, Amman, Jordan  
May 2-4 ,2019

## Thursday 2-5-2019

Time	Activity	
9:00-9:30	<u>Registration</u>	
9.30-10:00	<u>Opening ceremony</u>	
	National Anthem and Quran recitation	
	Speech by ISyDMA'4 Chair, <b>Prof. Mahmoud Al-Hussein</b>	
	Speech by ISyDMA'4 Chair, <b>Prof. Mohammed Essaid Achour</b>	
	Spech by University President: <b>Prof. Abdul Karim Al-Qudah</b>	
10.00-10:30	<u>Coffee Break</u>	
<u>Session Chair:</u> <b>Prof. Mohammed Achour (Ibn Tofail University) and Prof. Sami H. Mahmoud (University of Jordan)</b>		
10:30-10:50	OA1	From Amorphous Red Phosphorus to Phosphorene: New material with high potential applications , <b>Prof. Mustapha Ait Ali</b>
10:50-11:10	OA2	Phosphate oxides – promising materials for energy conversion devices , <b>Prof. Tamara Petkova</b>
11:10-11:30	OA3	Using microwave radiation to process materials, <b>Prof. Luís Cadillon Costa</b>
11:30-11:50	OA4	Investigation of morphological evolution effects on the Dielectric Relaxation Processes in Polyethylene Oxide Films by Broadband Impedance spectroscopy, <b>Prof. Mousa Jafar</b>
11:50-12:10	OA5	Dielectric properties of inorganic materials prepared using coconut-water, <b>Prof. Manuel Pedro Graca</b>
12:10-12:30	OA6	Dependence of dielectric parameters of BaFe <sub>12</sub> O <sub>19</sub> hexaferriteon both Co-addition and calcinations temperatures, <b>Prof. Awad Ramadan</b>
12:30-12:50	OA7	Electrical and dielctrical properties of Pr <sub>0.67</sub> Ba <sub>0.22</sub> Sr <sub>0.11</sub> Mn <sub>1-x</sub> FexO <sub>3</sub> (0 ≤ x ≤ 0.2) perovskite, <b>Prof. Mohamed Ellouze</b>
12:50-13:10	OA8	Study of the physical properties of CuO thin film at different temperatures, <b>Ms. Naoual Al Armouzi</b>
13:10-14:30	<b>Lunch</b>	

**Session Chair: Prof. Hamdi Khamakhem (University of Sfax and Prof. Marwan S. Mousa (Mutah University)**

Time		Activity
14:30-14:50	OA9	Diamond Photonic Structures with Integrated Color Centers, <b>Prof. Cyril Popov</b>
14:50-15:10	OA10	The Physics of Electrical Breakdown in in Conductor-Dielectric-Conductor Devices, <b>Prof. Richard Forbes</b>
15:10-15:30	OA11	Study of the Critical Voltage Distribution in front of the Flashover Discharge, <b>Prof. Messaoud Hamouda</b>
15:30-15:50	OA12	Structural and Dielectric Properties of Zn <sub>1-x</sub> MoxO nanoparticles, <b>Prof. Hadi Basma</b>
15:50-16:10	OA13	Green synthesis and characterization of ZnO nanoparticles by pomegranate seed extract and its application in thin films preparation by spin-coating method, <b>Prof. Simeh Aydin</b>
16:10-16:30	OA14	Fabrication of functional nanostructures in thin silicon nitride membranes, <b>Prof. Milan Matejka</b>
16:30-16:50	OA15	Influence of Various Dopants with Boron on Electrical Properties in BNT-BT Lead-free Piezoelectrics, <b>Prof. Ozgul Metin</b>
16:50-17:10	OA16	Corrosion reduction of mild steel by chromium electroplating from novel ionic liquids, <b>Prof. Abdullah Barzinjy Azeez</b>
17:10-17:30	OA17	Automated system for optical inspection of defects in resist coated non-patterned wafer, <b>Prof. Alexander Knapek</b>

## Friday 3-5-2019

Session Chair: Prof. Awad Ramadan (Beirut Arab University) and Prof. Mohammed Omari ( Jordan University of Science and Technology)

Time	Activity
	Functional Nanosurfaces , <b>Prof. Petra Uhlmann</b>
9:00-9:20	Electrical transport in thin chalcogenide M-I-M structures, <b>Prof. Plamen Petkov</b>
9.20-9:40	Dielectric properties of Lead-free ferroelectric materials with high quality factor, <b>Prof. Amina Tachafine</b>
9.40-10:00	Modelling and testing low-frequency vibration sensor with a sub-nm sensitivity based on a bidomain lithium niobate single-crystal,
10.00-10:20	<b>Prof. Ilya Kubasov</b>
10.20-10:40	Theoretical Simulation of backscattering electron coefficient for Ge/Sihetrostructureas a function of primary electron beam energy,
10.40-11:00	<b>Prof. Ahmad Jaber</b>
11.00-11:20	Immobilization of metal ions onto proteins, <b>Prof. Pawel Pomastowski</b>
11.20-11:40	Field Electron Emission from Various Type of CNTs Embedded Inside Glass Tube, <b>Mr. Samer Daradkeh</b>
11.40-12:00	Lithium ferrite particles embedded in PLA matrix composites and its dielectrical properties, <b>Ms. Silvia Soreto Teixeira</b>
	Thinning of lithium niobate crystals by wet chemical etching, <b>Mr. Aleksandr Kislyuk</b>
12.00-13:30	Poster Session
<u>Session Chair:</u> Prof. Laila Abu Hassan (University of Jordan) and Prof. Ikhlas Tarawneh (Al-Ahliyya Amman University)	
13:30-13:50	Complex Analtics of Biologically compounds including cyclitois from plant material, <b>Dr. Hossam Al Soud</b>
13:50-14:10	Magnetolectric composite based on bidomain lithium niobate / metglas laminate shaped in form of a tuning fork, <b>Mr. Andrei Turutin</b>
14:10-14:30	Development of a corona triode polarization system, <b>Mr. Pedro dos Santos Prezas</b>
14:30-14:50	Fractal Dimension Study Of Carbon Nanotubes Used As Conducting Polymer Fillers, <b>Mr. Rajae Belhimria</b>
14:50-15:10	Closing session
15:10	Departure

## Saturday 4-5-2019

7:00	Departure to Petra City
10:30-18:00	Petra Tour
18:00	Departure to Amman