

Nanotech Middle East 2020 Conference Program

Feb. 24 - 25, 2020 - Dubai, U.A.E

Feb. 24, 2020

Nanotech ME 2020 Session I: Nanomaterials Fabrication, Characterization and Properties

Conference Room : Al Ain B

Session Chairs:

Prof. Tahar Laoui, University of Sharjah, UAE

Dr. Maguy Abi Jaoude, Khalifa University of Science and Technology, UAE

Prof. Daniel Choi, Khalifa University of Science and Technology, UAE

09:00 - 10:30	Registration + Welcoming Coffee - Al Multaqua Ballroom	
10:30 - 11:00	What makes lattice and spin dynamical together J. Fransson	Prof. Jonas Fransson, Uppsala University, Sweden
11:00 -11:30	Advanced Carbon-based Nanomaterials: Present and Future M. Al Fahim, L. Burchfield, R. Al Fahim, F. Delodovici, N. Manini, K. Askar and D. Choi	Prof. Daniel Choi, Khalifa University of Science and Technology, UAE
11:30 -11:45	Using Femtosecond Pulse Laser Nanomachining to Increase Surface Area and Emissivity to Values that Significantly Accelerate Cooling of Electronics by Radiative Heat Transfer V. Rivas and D. Zimmerman	Dr. Delore Zimmerman, Praxis Strategy Group, USA
11:45 - 12:00	Ultra-High Precision Diamond Machining of Nanostructured Rapidly Solidified Aluminium Alloys for Optical Applications K. Abou-El-Hossein	Prof. Khaled Abou-El-Hossein, Nelson Mandela University, South Africa
12:00 - 14:00	Lunch Break / Posters Session I : Al Multaqua Ballroom	

Session Chairs:

Prof. Jonas Fransson, Uppsala University, Sweden

Prof. Junais Mokkath, Kuwait College of Science And Technology, Kuwait

Prof. Daniel Choi, Khalifa University of Science and Technology, UAE

14:00 - 14:30	Effects of synthesis parameters on the structure, optical properties and photocatalytic activity of TiO ₂ -CeO ₂ -Bi ₂ O ₃ nanocomposites for solar-driven water disinfection M. Abi Jaoude , S. Sood, K. Polychronopoulou, E. Alhseinat and M. Stefancich	Dr. Maguy Abi Jaoude, Khalifa University of Science and Technology, UAE
14:30 - 15:00	Advanced photocatalysts for water treatment and antifouling/self-cleaning coatings G. Palmisano	Dr. Giovanni Palmisano, Khalifa University of Science and Technology, UAE
15:00 - 15:15	A Simulation Study for ABS 3D Filament Doped with Nanoparticles for Thermal Neutrons Applications E. Banoqitah, E. Elmoujarkach , F. Nadwi and A. Alhawsawi	Mr. Ezzat Elmoujarkach, King Abdulaziz University, Saudi Arabia
15:15 - 15:30	Different charge ordering states in Niobium diselenide under strain and with metal adsorbates F. Cossu , I. di Marco, and A. Akbari	Dr. Fabrizio Cossu, Asia Pacific Center for Theoretical Physics, Rep. of Korea
15:30 - 16:00	Coffee Break / Posters Session I - Al Multaqua Ballroom	
16:00 - 16:15	Electrosprayed Aerogel/PCM Embedded PTFE Microporous Materials for Thermal Protection M. Venkataraman , J. Militký, X. M. Xiong and M. Petrů	Dr. Mohanapriya Venkataraman, Technical University of Liberec, Czech Republic
16:15 - 16:30	Integration of functional oxides on silicon A. Benamar , G. Agnus, G. Saint-Girons, C. Magen, S. Schamm-Chardon and P. Lecoeur	Mr. Abdelnour Benamar, Paris-Saclay University, France
16:30 - 16:45	Challenges for High Performance of Polyaniline / Nanocomposite as Super Hydrophobic Coatings via Electrochemical Polymerization Technique	Prof. Zeinab abdel Hamid, CMRDI, Cairo, Egypt.

	Z. Abdel Hamid , M. Hasan Gomaa, S. S. Abd El Rehim, M. Abdel Hamid and A.Ibrahim	
16:45 - 17:00	Mechanically-induced doping of MgH ₂ powders with 5 wt% zirconium nickel-based nanocomposite for enhancing the kinetics behavior and storage capacity A. Alduweesh and M. Sherif El-Eskandarany	Dr. Ahmad Alduweesh , Kuwait Institute for Scientific Research, Kuwait

Feb 25, 2020 Nanotech ME 2020 Session II: Nanomaterials for Energy and Environment / Nano Electronics Conference Room : Al Ain B		
Session Chairs:		
09:30 - 10:00	Application of Graphene Oxide Derivatives in Industrial Pharmaceutical Wastewater Treatment M.Khamis and T.Ibrahim	Prof . Taleb Ibrahim , American University of Sharjah, UAE
10:00 - 10:30	Modified graphene oxides as efficient electrode for Capacitive deionization K.A.Khalil , N.A. M. Barakat, M. Motlak and F.S. Al-Mubaddel	Prof. Khalil Abdelrazek Khalil Abdelmawgoud , University of Sharjah, UAE
10:30 - 11:00	Coffee Break / Posters Session II	
11:00 - 11:30	Nano-Additives for Green and Sustainable Construction Materials A. Bumajdad	Prof Ali Bumajdad , Kuwait University, Kuwait
11:30 - 12:00	Surface Deposited Copper Particles on Composite Nonwovens J. Militký , M. Venkataraman, J. Večerník and M. Petruš	Prof. Jiri Militky , Technical University of Liberec, Czech Republic
12:30 - 13:45	Lunch Break / Posters Session II : Al Multaqua Ballroom	

Nanotech ME 2020 Session III Nanomaterials for Energy and Environment: Conference Room: Al Ain B		
Session Chairs:		
14:00 - 14:30	Optimized wet graphene transfer on SiO ₂ /Si substrate using chemical surface treatment for potential solar cell application A.F. Abdelaal, B. Salhi and T. Laoui	Prof. Tahar Laoui , University of Sharjah, UAE
14:00 - 15:00	Electric field hotspots of all-inorganic APbX ₃ \$ (A = Cs, Rb and X = Cl, Br, I) perovskite quantum dots J.H. Mokkath	Prof. Junais Mokkath , Kuwait College of Science And Technology, Kuwait
15:00 - 15:15	Polymer and Nanoparticles as a New Method for Chemical Enhanced Oil Recovery P. Druetta and F. Picchioni,	Dr. Pablo Druetta , University of Groningen, The Netherlands.
15:15 - 15:30	Antioxidant Gold nanoconjugates for the treatment of neurodegenerative diseases M.E. Piersimoni , T. Casd and L. Ying	Ms. Maria Elena Piersimoni , Imperial College London, UK
15:30 - 15:45	Shape-Stabilized Phase Change Materials for Solar Energy Storage: MgO doped CaCO ₃ mixed with Polyethylene Glycol S.K.S. Basamad, M. Hasan Zahir and M.M. Hossain	Dr. Md. Hasan Zahir , King Fahd University of Petroleum and Minerals, Saudi Arabia
15:30 - 16:30	Coffee Break / Posters Session I - Al Multaqua Ballroom	

February 24 and 25, 2020
Posters Session Nanotech ME 2020

Posters / Coffee break area - Al Multaqua Ballroom

N.	Poster Title	Author/Affiliation/Country
1	Effect of the Concentration of Graphene Nanoplatelets in the Photo-oxidation of the Polypropylene F.P. La Mantia , L. Botta, M.C. Mistretta and M. Ceraulo	Prof. Francesco P. La Mantia , University of Palermo, Italy
2	Sub-millimeter-scale synthesis of chromium doped CdS nanosheets and their temperature-dependent excitonic emission D. J. Lee and D. Y. Kim	Dr. Dong Jin Lee , Dongguk University, Rep. of Korea
3	Activation Energy of Hydrogen Evolution Reaction on Strontium modified TiO ₂ nanotubes K.M. Emran	Dr. Khadijah Emran , Taibah University, Saudi Arabia
4	Efficient hydrogen production electrocatalytic using hydrothermal Synthesized Sn-TNT nanotubes K.M. Emran and RM. A. Alsahli	Ms. Rawan M. A. Alsahli , Taibah University, Saudi Arabia
5	Synthesis of quaternary chalcogenide CPSS (CuPbSbS ₃) as a candidate absorber material for solar cells Y.T. Alharbi and D.J. Lewis	Mr. Yasser T. Alharbi , University of Manchester, UK
6	Mechanical and electrical properties of GeSn nanowires and their application in NEM switches R. Meija , J. Kosmaka, M. Antsov, R. Sondors, J;D. Holmes and D. Erts	Dr. Raimonds Meija , University of Latvia, Latvia