Session Topic 12 -- Nano Materials and Nano Structures

Chairs: Earl Stromberg, Lockheed Martin Hongyou Fan, Sandia National Lab Carmen Lilley, University of Illinois at Chicago

TUESDAY, Salon C

Paper ID	Time	Title	Authors & Affiliations
	4:00 - 4:30	Morphology and dynamics of polymer nanocomposites for varying polymer filler	Monojoy Goswami, Oak Ridge National Laboratory, USA; and Bobby Sumpter, Oak Ridg
PID 549165	4:00 - 4:30	interactions	National Laboratory, USA
VEDNESDA	Y, Room M1		
PID 596454	3:00 - 3:30	In Situ Mechanical Characterization of One Dimensional Nanoscale Building Blocks Using Novel Microfabricated Devices	Yogeeswaran Ganesan, Rice University, USA; Yang Lu, Rice University, USA; Hao Lu, Rice University, USA; and Jun Lou, Rice University, USA
PID 544020	3:30 - 400	Formation of Ni/NiO nanoparticles in Supermicroporous Silica-Based SiO2- Al2O3-NiO Materials: structural and magnetic studies	Vladimir Bakhmutov, Texas A&M University, USA; Boris Shpeizer, Texas A&M University, USA; Andrey Prosvirin, Texas A&M University, USA; Kim Dunbar, Texas A&M University, USA; and Abraham Clearfield, Texas A&M University, USA
PID 549920	4:00 - 4:30	Carbon Nanotube Synthesis on Stainless Steel for use in a Nanotube-Titanium Nitride Nanocomposite	Carole Baddour, McGill University, Canada; and Jean-Luc Meunier, McGill University, Canada
PID 646688	4:30 - 5:00	Variation of Oxygen-to-Carbon Ratio in Oxyacetylene Flame	Laxmikant Saraf, Pacific Northwest National Laboratory, USA; Kyle Bunch, Pacific Northwest National Laboratory, USA; Mark Engelhard, Pacific Northwest National Laboratory, USA; and Paul Gassman, Pacific Northwest National Laboratory, USA
HURSDAY,	Salon C		
PID 566100	9:00 - 9:25	SiO2 Nanorod Thin Film Encapsulated by Al2O3 with Atomic Layer Deposition and its Optical Application	Sangho Kim, University of Minnesota, United States; Nicholas Gabriel, University of Minnesota, United States; Woo-Bin Song, University of Minnesota, United States; and Joseph Talghader, University of Minnesota, United States
PID 553262	9:25 - 9:45	Improving electrical properties of ZnO thin films by the combination of plasma treatment, post-annealing and doping	Tsai-Yuan Shie, National Taiwan University, Taiwan; Jing-Shun Huang, National Taiwan University, Taiwan; and Ching-Fuh Lin, National Taiwan University, Taiwan
	9:45 - 10:00	Break	· · ·
PID 594463	10:00 - 10:30	High Yield Magnetic Nanoparticles Filled Multiwalled Carbon Nanotubes Using Pulsed Laser Deposition.	Dereje Seifu, Morgan State University, USA; and Shashi Karna, US Army Research Laboratory, USA
PID 570148	10:30 - 11:00	Structural, Optical and Electrical Characterization of Nano-Structured ZnO Thin Films Deposited by Solution Growth Technique	Ashok Singh, Defence Institute of Advanced Technology, India; Sharad Patil, Defence Institute of Advanced Technolgy, India; and Vikash Janu, Defence Institute of Advanced Technology, India
PID 576775	11:00 - 11:30	A Novel Dual-Layered Electrolytic Resistance Memory with Enhanced Retention	Rohit Soni, FZ Juelich, Germany; Christina Schindler, FZ Juelich, Germany; Martin Weides, FZ Juelich, Germany; Carsten Kügeler, FZ Juelich, Germany; Andreas Rüdiger FZ Juelich, Germany; and Rainer Waser, FZ Juelich, Germany
PID 591274	11:30 - 12:00	Microcrystalline Piezoresistive Polysilicon Film Obtained by Aluminum Induced Crystallization	Suraj Patil, University of Texas at Arlington, USA; Zeynep Celik-Butler, University of Texas at Arlington, USA; and Donald Butler, University of Texas at Arlington, USA
	12:00 - 2:00	Lunch	· · · · · ·
PID 592741	2:00 - 2:25	Solution Processed Large Area Surface Textures Based on Dip Coating	Yuehui Wang, University of Texas at Arlington, US; Hongjun Yang, University of Texas a Arlington, US; Li Chen, University of Texas at Arlington, US; Weidong Zhou, University of Texas at Arlington, US; Meng Tao, University of Texas at Arlington, US; and Qing Gur ZT Solar, Inc., US
PID 594213	2:25 - 2:45	A Two-step Hydrothermal Method for Preparing Titania Nanostructure with High Surface Area	Patcharaporn Lorturn, Chulalongkorn University, Thailand; Nawin Viriya-empikul, National Nanotechnology Center, Thailand; Apinan Soottitantawat, Chulalongkorn University, Thailand; Gamolwan Tumcharern, National Nanotechnology Center, Thailand Wiwut Tanthapanichakoon, National Nanotechnology Center, Thailand; and Tawatchai Charinpanitkul, Chulalongkorn University, Thailand
	2:45 - 3:00	Break	

PID 594535	3:00 - 3:30	Fabrication of Bio-Inspired Elastomer Nanofiber Arrays with Spatulate Tips using Notching Effect	Seok Kim, Carnegie Mellon University, USA; Ji-Hyun Jang, Massachusetts Institute of Technology, USA; Metin Sitti, Carnegie Mellon University, USA; and Edwin Thomas, Massachusetts Institute of Technology, USA
PID 595012 PID 637225	3.30 - 4.00	Analysis of Photoelectric Property and Surface Morphology of Amorphous TiO2	Ching-Hua Wei, Southern Taiwan University, Taiwan; Jih-Lian Ha, Far East University, Taiwan; Wu-Chung Sue, Southern Taiwan University, Taiwan; Chin-Tu Lu, Southern Taiwan University, Taiwan; Ching-Min Chang, Southern Taiwan University, Taiwan; Kuan- Yu Chen, Southern Taiwan University, Taiwan; and Kan-Rong Li, Southern Taiwan University, Taiwan
PID 596574	4:00 - 4:30	L'Untical Properties of L'Ioselv L'OUDied Dillute Nitride Mid-Intrared InNSD Ullantum	Seongsin Kim, University of Alabama, USA; Homan Yuen, Stanford University, USA; Fariba Hatami, Stanford University, USA; Patrick Kung, University of Alabama, USA; and James Harris, Stanford University, USA