

Welcome to the Third NANOSMAT-USA Conference

We are very pleased to welcome you to the **3rd USA International Conference on Surfaces, Coatings and NanoStructured Materials** (NANOSMAT-USA) held at the University of Texas at Arlington, USA during 18-20 May 2016.

The first ever NANOSMAT conference was held in Portugal in 2005. Ever since, NANOSMAT conferences have grown rapidly and have become increasingly popular amongst researchers, scientists, academics and industrialists from all over the world. NANOSMAT-USA is a biennial event organized approx. during spring in USA.

We would like to thank all delegates for attending and being part of the NANOSMAT global community. For this meeting we received around 200 abstracts from people belonging to over 20/30 countries of the world.

By strictly adhering to the long standing traditions, this NANOSMAT meeting will foster the gathering of high calibre, talented and intellectual people from both academia and industry in order to exchange ideas, information and technology. The event will provide a binding platform for interactions between researchers; scientists and engineers from industry, research laboratories and academia, and in doing so will feature state-of-the-art developments in all aspects of processing, characterisation and applications of nanomaterials, nanoscience and nanotechnology.

NANOSMAT-USA 2016 will host the “Young Scientist Lecture Competition”. Furthermore, it will offer a tutorial entitled “Physical Properties of Polymer-Based Nanocomposites”, which will run on 18th May and will be delivered by Professor Mircea Chipara from University of Texas Rio-Grande Valley (USA).

A special thanks to UTA for being a major sponsor of NANOSMAT-USA 2016.

We hope you will thoroughly enjoy the conference and will immensely benefit from attending 3rd NANOSMAT-USA.

Enjoy the conference, Arlington and Texas.

NANOSMAT-USA 2016 Chairmen:

Professor Samir Iqbal, University of Texas at Arlington, USA

Professor Mircea Chipara, University of Texas Rio-Grande Valley, USA

Dr Nasar Ali, The NANOSMAT Society, UK

09:00- Registration
16:00 Wednesday 18 May 2016

NANOSMAT Young Scientist Lecture Competition

09:30 - 09:50

NANO-160: A. Ilyas, Texas A&M University, USA
"Nanofabricated Silicon Oxynitrophosphide (Si-O-N-P), a New Biomaterial for Rapid Bone Healing"

09:50 - 10:10

NANO-64: M.Y. Momin, Philipps University of Marburg, Germany
"Polymeric nanocomplexes of photosensitizer loaded T lymphocytes for photoimmunotherapy of cancer"

10:10 - 10:30

NANO-65: Abhishek Panchal, Louisiana Tech University, USA
"Enhanced activity of oil-degrading bacteria in Pickering emulsions with halloysite clay nanotubes"

10:30-10:50

NANO-115: Sai Santosh S. Peri, University of Texas at Arlington, USA
"Drug Delivery with Hollow Sodium Alginate Microfibers Generated with a Microfluidic Device"

10:50-11:10

NANO-129: A. C. Chipara, Rice University, USA
"Advances in Interfaces: A Shift from Static to Dynamic"

11:10-11:30

NANO-125: Mohammad Raziul Hasan, University of Texas at Arlington, USA
"Surface functionalization for selective capture and isolation of circulating tumor cells"

11:30-11:50

NANO-119: Mohammad Abdallah, University of Texas at Arlington, USA
"Surface Functionalization of Porous PLGA Nanoparticles"

11:50- Lunch
12:50

12:50 - Welcome Opening Address
13:15

Professor Samir Iqbal, University of Texas at Arlington, USA
Professor Mircea Chipara, University of Texas Rio-Grande Valley, USA
Dr Nasar Ali, The NANOSMAT Society (UK)

13:15 - INV-14: Professor Richard Wilkins, CARR Prairie View Texas A&M University, USA
13:45 *"Radiation Interactions with Carbon Nanotube Materials"*

13:45 - INV-8: Professor Daryush Ila, Fayetteville State University, USA
14:15 *"Innovative Methods for Production of High Volume Fraction Quantum Dots: Applied for Enhanced Thermoelectric Properties (with ZT > 3.0)"*

14:15 - Refreshment break
14:45

Time	Session: Fundamental Processes in Nanomaterials Chairperson: M. Chipara (USA) Room: Bluebonnet Ballroom 1	Time	Session: Advanced Nanomaterials & their Characterization Chairperson: A Ilyas (USA) Room: Bluebonnet Ballroom 2
14:45 - 15:15	INV-12: Professor Robert Bogdanowicz , California Institute of Technology, USA <i>"Transparent boron-doped CVD diamond films as highly conductive microelectrodes for electrochemical and optical biosensing"</i>	14:45 - 15:15	INV-10: Professor Halldór Svavarsson , Reykjavik University, Iceland <i>"Periodic silicon nanowires with ultra-high aspect ratio obtained via top-down route"</i>
15:15 - 15:45	INV-15: Professor Aharon Gedanken , Bar-Ilan University, Israel <i>"The Sonochemical Coating: Making the Hospital a Safer Place"</i>	15:15 - 15:45	INV-4: Professor Jean Ebothe , University of Reims, France <i>"Normalized approach to nano-film topography and magnetic characteristics: a study of their interdependence"</i>
15:45 - 16:15	INV-11: Dr Petra Pötschke , Leibniz Institute of Polymer Research Dresden (IPF), Germany <i>"Melt mixed composites of thermoplastic polymers with carbon nanostructures"</i>	15:45 - 16:15	INV-21: Prof. Murat Kaya Yapici , Sabanci University, Turkey <i>"Graphene-coated E-textile Smart Garments for Wearable Health Monitoring"</i>
16:15 - 16:35	NANO-112: Paul Christopher , PFC Associates, USA <i>"Reliable Laser Downlinks to North America"</i>	16:15 - 16:35	NANO-95: Parameswar Hari , University of Tulsa, USA <i>"Impedance Spectroscopy of Cobalt Doped ZnO Quantum Dots"</i>
16:35 - 16:55	NANO-113: Devon Boyne , Army Research Labs, USA <i>"Multi-laminar plasmonic nano-material: The influence of physical properties on plasmonic resonances"</i>	16:35 - 16:55	INV-6: Professor Ramanan Krishnamoorti , University of Houston, USA
17:00 - 18:00	<p>TUTORIAL: "Physical Properties of Polymer-Based Nanocomposites"</p> <p>The tutorial will critically review some physical properties of polymers and polymer-based nanocomposites. Phase transitions (glass, crystallization, melting) with emphasize on the effect of the nanoconfinement. Charge transport features and percolation will be briefly analyzed.</p> <div data-bbox="300 1304 527 1593" data-label="Image"> </div> <p>Speaker: Professor Mircea Chipara, University of Texas Rio-Grande Valley, USA Dr Mircea Chipara is Associate Professor in the Department of Physics of the University of Texas Rio Grande Valley. Dr Mircea Chipara had the postdoctoral training within the University of Nebraska-Lincoln (Physics and Astronomy department), received his Ph.D. (Solid State Physics, 1996) from the Institute for Atomic Physics, Bucharest, Romania, his M.S. (Polymer Physics, 1977) from the University of Bucharest, Romania, and his B.S. (Physics, 1975) from the University of Bucharest, Romania.</p> <p>The research areas of Dr. Mircea Chipara include preparation and characterization of nanomaterials with emphasize of nanocomposites obtained by dispersing nanoparticles within polymeric matrices, radiation-induced modifications in materials, polymer physics, magnetic resonances, spintronics and negative index of refraction materials, as well as materials for space applications. Such materials may exhibit multifunctional properties and may present smart capabilities and/or self-healing features. The research of Dr. Mircea Chipara also includes a thorough investigation of the fundamental mechanisms and processes responsible for phase transitions and degradation of polymers and polymer – based nanocomposites in bulk and confined systems.</p>		

19 May

Time	Session: Nano, Biology, and Medicine I Chairperson: Murat Yapici (Turkey) Room: Bluebonnet Ballroom 1	Time	Session: Basic Research in Nanomaterials I Chairperson: Dorina M. Chipara (USA) Room: Bluebonnet Ballroom 2
09:00 - 09:30	INV-20: Professor Varanasi Venu , Texas A&M University, USA <i>"Use of drug-based and nanofabricated nanosilicates in applications of high- and low-load bearing bone defect healing"</i>	09:00 - 09:30	INV-19: Dr Mostafa Hassani Gangaraj , Massachusetts Institute of Technology, USA <i>"High velocity impact: from surface nanocrystallization to nanostructured coatings"</i>
09:30 - 09:50	NANO-163: Siddhartha Mukherjee , Southeast Missouri State University, USA <i>"Photo-modulation of Neurite Outgrowth on Nano-textured Substrates"</i>	09:30 - 10:00	NANO-100: Professor Nicholas Dimakis , University of Texas Rio Grande Valley, USA <i>"Density Functional Theory Calculations on Transition Metal Adatom Adsorbed on Graphene Monolayers"</i>
10:00 - 10:30	Refreshment break		
10:30 - 10:50	NANO-132: Nuzhat Mansur , University of Texas at Arlington, USA <i>"Enhancement of Cancer Cell Activity on Nanotextured Surface for Identifying Metastasis"</i>	10:30 - 10:50	NANO-13: Nurettin Sahiner , Canakkale Onsekiz Mart University, Turkey <i>"Conductive Polymers Within Superporous Cryogel as Versatile Composites"</i>
10:50 - 11:10	NANO-47: Tan Wui Siew , IMRE, A*STAR, Singapore <i>"Advances in material and surface engineering for selective bio-interactions and biomedical applications"</i>	10:50 - 11:10	NANO-55: Y. Prashanthi , Mahatma Gandhi University, India <i>"Synthesis of polymer based nanocomposites and their anto bacterial activity"</i>
11:10 - 11:30	NANO-49(50): E.A. Aldaais , University of South Carolina, USA <i>"A Theoretical Study of Micellar Ligand-Receptor Binding Regulation: The Effect of Receptors Density on The Binding to A Distinctive Ligand"</i>	11:10 - 11:30	NANO-127: M.D. Chipara , University of Texas Rio Grande Valley, USA <i>"Polyethylene Oxide Nanofibers: Synthesis and Properties"</i>
11:30 - 11:50	NANO-125: Mohammad Raziul Hasan , University of Texas at Arlington, USA <i>"Detection of Metastatic Tumor Cells from Morphological Behavior using Image Processing in MATLAB"</i>	11:30 - 11:50	NANO-156: Sanju Gupta , Western Kentucky University, USA <i>"Scanning electrochemical microscopy of graphene-based thin films as hybrid supercapacitors: Investigating physical-chemical interfacial processes"</i>
12:30 - 13:30	Lunch		

Time	Session: Nano, Biology, and Medicine I Chairperson: Ramanan Krishnamoorti (USA) Room: Bluebonnet Ballroom 1	Time	Session: Basic Research in Nanomaterials II Chairperson: Petra Potsche (Germany) Room: Bluebonnet Ballroom 2
13:30 - 13:50	NANO-130: Nuzhat Mansur , University of Texas at Arlington, USA <i>"Metastasis in Breast Cancer: Investigation of Cellular Morphology on Functionalized Surface"</i>	13:30 - 13:50	NANO-18: Mircea Chipara , The University of Texas Rio Grande Valley, USA <i>"Nanocomposites and the transition from the bulk towards the surface behavior"</i>
13:50 - 14:10	NANO-5: K.S.Meena , Queen Mary's College, India <i>"Photodynamic cancer therapy and DNA binding studies of Au@ZrO₂ core-shell nanoparticles in vitro"</i>	13:50 - 14:10	NANO-129: A. C. Chipara , Rice University, USA <i>"Spectroscopic Investigations on PVDF-PDMS Mixtures"</i>
14:10 - 14:30	NANO-115: Sai Santosh S. Peri , University of Texas at Arlington, USA <i>"Drug Delivery with Hollow Sodium Alginate Microfibers Generated with a Microfluidic Device"</i>	14:10 - 14:30	NANO-104: Takeuchi Toshio , Waseda University, Japan <i>"Preparation of Nano Structured Ga₂O₃/SiO₂ and Si/SiO₂"</i>
14:30 - 14:50	NANO-93: Ana Filipa Soares Pires , Universidade Nova de Lisboa, Portugal <i>"Liposomes encapsulating catechins: an herbal strategy to defeating cancer at the nanoscale"</i>	14:30 - 14:50	NANO-128: M. Sumets , University of Texas Rio Grande Valley, USA <i>"PVDF-One Dimensional Carbon Nanofiller Composites"</i>
14:50 - 15:10	NANO-131: Nuzhat Mansur , University of Texas at Arlington, USA <i>"Analysis of Optical Images of Surface Immobilized Breast Cancer Cells to Detect Metastasis"</i>	14:50 - 15:10	NANO-84: Y. Prashanthi , Mahatma Gandhi University, India <i>"Selfcleaning nanocomposite coating based on in-situ generated nano TiO₂ in silicone soya alkyd resin"</i>
15:10 - 15:30	NANO-144: Muhammad Usman Raza , University of Texas at Arlington, USA <i>"Solid State Nanopores used for cancer biomarker detection"</i>	15:10 - 15:30	NANO-42: Mukter Zaman , Multimedia University, Malaysia <i>"Synthesis and Characterization of Fe₃O₄-TiO₂ and Fe₃O₄-MnO₂ Magnetic Core-Shell Nanoparticles for Arsenic Removal Applications"</i>
15:30 - 15:50	NANO-126: Mohammad Raziul Hasan , University of Texas at Arlington, USA <i>"Fabrication of Nanopore Biosensors for Single Protein and Protein-Complex Analysis"</i>	15:30 - 15:50	NANO-78: Yongmei Zheng , Beihang University, China <i>"Bioinspired micro-/nano-structured surfaces with water collection/repellency"</i>
15:50 - 18:00	Poster Session (with refreshments)		
19:00	Conference dinner		

20 May

Time	Session: Advances in synthesis, characterization and applications of nanomaterials I Chairperson: Nicholas Dimakis (USA) Room: Bluebonnet Ballroom 1	Time	Session: Advances in synthesis, characterization and applications of nanomaterials II Chairperson: Jean Ebothe (France) Room: Bluebonnet Ballroom 2
09:00 - 09:20	NANO-160: Azhar Ilyas , Texas A&M University, USA <i>"Nanofabricated Silicon Oxynitrophosphide (Si-O-N-P), a New Biomaterial for Rapid Bone Healing"</i>	09:00 - 09:20	NANO-147: Avi Raveh , Rotem Industries Ltd, Israel <i>"Effects of Phase Stability and Aluminum Segregation in Nano-composite ZrO₂-Al₂O₃ Coatings"</i>
09:20 - 09:40	NANO-155: Michael Cho , University of Texas at Arlington, USA <i>"Cell Membrane Resealing by Poloxamers"</i>	09:20 - 09:40	NANO-138: Varun N. Viswamithra , University of Texas at Arlington, USA <i>"Numerical Studies on Spin Coating of Metals"</i>
09:40 - 10:00	NANO-53: Osman Sahin , Mustafa Kemal University, Turkey <i>"Production and mechanical characterization of Mg-Y-xYb biomaterials"</i>	09:40 - 10:00	NANO-161(2): Chad Coarsey , Florida Atlantic University, USA <i>"Development of an Automated ELISA Integrated with Cell Phone-based HIV Detection"</i>
10:00 - 10:20	NANO-58: Skender Abdelhak , Université Yahia Fares, Algeria <i>"Viscosity and Zeta potential measurement of double walled carbon nanotubes dispersions in water by hydrophobically functionalized biopolymer"</i>	10:00 - 10:20	NANO-20: Julien Mahy , Université de Liège, Belgium <i>"Development of an easy aqueous sol-gel synthesis for large-scale film deposition methods for the manufacture of coated steel with self-cleaning properties"</i>
10:20 - 10:50	Refreshment break		
10:50 - 11:10	NANO-66: Zaffar Mehmood , Forman Christian College, Pakistan <i>"Phytochemical Emulsions as Novel Method for Maintaining the Quality of Food"</i>	10:50 - 11:10	NANO-33: Sarka Zuzjakova , University of West Bohemia, Czech Republic <i>"Extraordinary oxidation resistant Hf-B-Si-C-N film prepared by magnetron sputtering"</i>
11:10 - 11:30	NANO-154: Y. Liu , University of Texas at Arlington, USA <i>"Chemical Vapor Sensing with Fano Resonance Photonic Crystal Slabs"</i>	11:10 - 11:30	NANO-15: Li Tian , Harbin Institute of Technology, China <i>"Gradient-index TiO₂ translector on SiO₂ substrate by magnetron sputtering combining with oblique angle deposition (OAD) technique"</i>
11:30 - 11:50	NANO-149: Swadeshmukul Santra , University of Central Florida, USA <i>"Ultra-small Size Mixed-Valence Copper Loaded Silica Composites Exhibit Superior Antimicrobial Efficacy against Plant Pathogens"</i>	11:30 - 11:50	NANO-59: Satyajit Saha , Vidyasagar University, India <i>"Growth of Schottky barriers based on nanofilm and bulk film of ZnSe on Al"</i>
11:50 - 12:10	NANO-46: A. L. Fannin , University of Texas at Arlington, USA <i>"Optical Resonant Absorber Technology"</i>	11:50 - 12:10	NANO-67: Mohamed Ahmed A. Kawy , Egypt Japan University of Science & Technology, Egypt <i>"Synthesis of Nano iron Copper core shell by using K-M reactor"</i>

12:10 - 12:30	NANO-24: Aneela Maalik , COMSATS Institute of Information Technology, Pakistan <i>"Synthesis, Characterization and Bioactivities of Silver Nanoparticles using Ethanolic and Aqueous Extracts of Rhazya strictica"</i>	12:10 - 12:30	NANO-3 (INV): Faiz Mohammad, Aligarh Muslim University, India <i>"Binary doped polypyrrole and polypyrrole/boron nitride nanocomposite: PREPARATION, characterization and application in detection of LPG leaks2"</i>
12:15 - 13:30	Lunch		
	Session: Applied Nanoscience Chairperson: Azhar Ilyas (USA) Room: Bluebonnet Ballroom 1	Time	Session: Electromagnetism and Materials Chairperson: Nuzhat Mansur (USA) Room: Bluebonnet Ballroom 2
13:30 - 13:50	NANO-44: Robert Magnusson , University of Texas at Arlington, USA <i>"Review of guided-mode resonance nanophotonics: Basics and applications"</i>	13:30 - 13:50	NANO-83: Giuseppina Cerrato , University of Torino, Italy <i>"Self-cleaning action on photocatalytic ceramic slabs coated by digital printer with micro-TiO₂"</i>
13:50 - 14:10	NANO-45: D.J. Carney , University of Texas at Arlington, USA <i>"Broadband Mid-Infrared and Terahertz Band Guided-Mode Resonance Devices"</i>	13:50 - 14:10	NANO-137: Selvakumari Cecil , Madras Christian College, India <i>"Microwave Synthesis of Aluminium Doped ZnO Nanostructures and Characterization"</i>
14:10 - 14:30	NANO-133: Shoujun Xu , University of Houston, USA <i>"Molecule-Specific Magnetic Detection Using Atomic Magnetometers"</i>	14:10 - 14:30	NANO-107: Isabell Thomann , Rice University, USA <i>"Photocatalytically active coatings and surfaces"</i>
14:30 - 14:50	NANO-69: Gurumurthy Hegde , BMS College of Engineering, India <i>"Sandalwood based carbon nanospheres for superior super-capacitors"</i>	14:30 - 14:50	NANO-97: Donghyun Shin , University of Texas at Arlington, USA <i>"Enhancing Heat Capacity of Phase Change Material for Thermal Energy storage"</i>
14:50 - 15:10	NANO-17: B.I. Kharisov , Universidad Autónoma de Nuevo León, Mexico <i>"Development of novel materials for nanotechnology-based remediation of petroleum impurities from water"</i>	14:50 - 15:10	NANO-119: Mohammad Abdallah , University of Texas at Arlington, USA <i>"Surface Functionalization of Porous PLGA Nanoparticles"</i>
15:10 - 15:30	NANO-51: Pradip Kumar Jha , University of Delhi, India <i>"Spin orbit interaction effect on nonlinear optical properties of quantum dot with magnetic field"</i>	15:10 - 15:30	NANO-108: Veena Choudhary , Indian Institute of Technology Delhi, India <i>"EFFECT OF CARBON NANOSTRUCTURES ON THE ELECTROMAGNETIC SHIELDING BEHAVIOR OF POLY(ETHER KETONE)"</i>
15:10 - 16:00	Refreshment break		
16:00	University of Texas at Arlington "Lab Tours"		

Posters List: (15:50-18:00) 19th May 2016

NANO-14: Nurettin Sahiner, Canakkale Onsekiz Mart University, Turkey
"Controlled Release Of Tannic Acid From Poly(Tannic Acid) Microgel, And Nanogel"

NANO-18: B.I. Kharisov, Universidad Autónoma de Nuevo León, Mexico
"Formation of carbon nano-onions by the low-temperature unfolding of MWCNTs via interaction with theraphthal"

NANO-19: Zhengyu Zhu, Tongji University, China
"Co Concentration's Influence on the Diamond Coating film-substrate interface bonding strength"

NANO-23 (38): Małgorzata Kalisz, Motor Transport Institute, Poland
"The effect of WO₃ addition on structural, mechanical and corrosion properties of TiO₂ thin film deposited on TiAlV surface by using electron beam evaporation technology"

NANO-29: Chee Won Chung, Inha University, Korea
"Inductively Coupled Plasma Reactive Ion Etching of Magnetic Tunnel Junction Stacks Using Various Non-corrosive Gas Mixtures"

NANO-30: Su Min Hwang, Inha University, Korea
"Etch Characteristics of TiN Thin Films Masked with Nanometer-Sized Patterns"

NANO-31: Jae Yong Lee, Inha University, Korea
"Etching of Palladium thin films using C₂H₅OH/Ar gas mixture"

NANO-32: M.Q.C. Le, Pukyong National University, Korea
"Synthesis of core-cross-linked polymeric micelles for drug delivery using Diels-Alder click reaction"

NANO-35: Jae-Young Lee, Woosuk University, Korea
"Fabrication of Ni-P Alloy Tube by Electroless Plating on PAN Fiber"

NANO-36: Jae-Young Lee, Woosuk University, Korea
"Preparation of Ni-P Coated Carbon Fiber by Electroless Plating"

NANO-37: Jae Chun Lee, Myongji University, Korea
"The Determination of Alumina Nano-Filler Content for Glass Composite Sealants"

NANO-38 (23): Małgorzata Kalisz, Motor Transport Institute, Poland
"Influence of Cu, Au and Ag on structural and surface properties of bioactive coatings based on titanium"

NANO-43: Mukter Zaman, Multimedia University, Malaysia
"Incorporation of Synthesized Thulium Doped Aluminum Nanoparticle in Silica Preform for Active Optical Fibre"

NANO-50: E.A. Aldaais, University of South Carolina, USA
"A Theoretical Study of Micellar Ligand-Receptor Binding Regulation: The Effect of Having Two Distinctive Ligands on The Ligand-Receptor Binding"

NANO-54: Osman Sahin, Mustafa Kemal University, Turkey
"Indentation Size Effect of Biodegradable Mg-Y-Er Biomaterial"

NANO-56: Marcin Grobelny, Motor Transport Institute, Poland
"Electrochemical study of corrosion behavior of graphene coatings on titanium alloy in a chloride solution"

NANO-62: Katherine Paulett, University of Alabama at Birmingham, USA
"Polysaccharide Nanofibers by Needleless Electrospinning"

NANO-64: M.Y. Momin, Philipps University of Marburg, Germany
"Polymeric nanocomplexes of photosensitizer loaded T lymphocytes for photoimmunotherapy of cancer"

NANO-65: Abhishek Panchal, Louisiana Tech University, USA

"Enhanced activity of oil-degrading bacteria in Pickering emulsions with halloysite clay nanotubes"

NANO-73: Kee Sung Lee, Kookmin University, Korea

"Improvement on the damage resistance of thermal barrier coatings by nano-particle contained suspension plasma spray"

NANO-85: Hern Kim, Myongji University, Korea

"Design of cerium iron oxide nanorod catalysts for epoxide opening reaction by azide addition"

NANO-86: Hern Kim, Myongji University, Korea

"Synthesis of Fe₂O₃ nanobead decorated carbon nanotubes for high performance electrocatalytic water oxidation"

NANO-89: Satya Kachiraju, University of Texas Rio Grande Valley, USA

"Effects of polymers in nucleation and fabrication of lanthanide-doped nanoparticles"

NANO-90: Seung Goo Lee, Chungnam National University, Korea

"Characterization of nanoparticle coated aramid fabrics"

NANO-98: Tak-Hyoung Lim, Korea Institute of Energy Research, Korea

"Electrochemical performance of H₂O-CO₂ co-electrolysis with a tubular solid-oxide co-electrolysis (SOC) cell"

NANO-99: Nicholas Dimakis, University of Texas Rio Grande Valley, USA

"Density Functional Theory Calculations on Alkali and Alkaline Adatom adsorption on Graphene Monolayers"

NANO-101: Aneetta Kuriakose, The University of Texas at Arlington, USA

"Multifunctional novel nano-scaffold to promote in situ endothelialization"

NANO-105: Takeuchi Toshio, Waseda University, Japan

"Optical Characterization of Si/SiO₂ Quantum Well"

NANO-106: Vijaya Lakshmi, Indian Institute of Technology Bombay, India

"Conversion of sand to Si / SiC at moderate process conditions"

NANO-109: Vijaya Lakshmi, Indian Institute of Technology Bombay, India

"Effect of surfactants on the microwave – solvothermal synthesis of Cu₂ZnSnS₄ nanocrystals for low cost photovoltaic cell"

NANO-111: Iwona Gisterek, Lodz University of Technology, Poland

"Scaffold with functionalized detonation nanodiamond particles"

NANO-121: Debapriya Sinha, University of Texas at Arlington, USA

"Hydrogel Based Injectable scaffold for Diabetic Wound Healing"

NANO-124: Nikhil Pandey, University of Texas at Arlington, USA

"Nanocomposites as new adhesive materials for tissue engineering applications"

NANO-134: Mohammad Raziul Hasan, University of Texas at Arlington, USA

"Structural Stability of Protein Translocating through a Solid-state Nanopore"

NANO-157: Sanju Gupta, Western Kentucky University, USA

"A Single-Step Hydrothermal Synthesis of Vanadium Pentaoxides–Reduced Graphene Oxide Composite Electrodes for Enhanced Electrochemical Energy Storage"

NANO-158: Sanju Gupta, Western Kentucky University, USA

"Development of aptamer/graphene oxide FRET biosensor for one-step ultrasensitive detection of bisphenol A and analogues"

NANO-159: Nastaran Barati, University of Texas at Arlington, USA

"In-situ formation of nanostructured Alumina-Zirconia layers on Al-7075 through Plasma Electrolytic Technique"

Notes: