

# Wednesday

## August 4

8:00 AM	Registration	Session Chairs: D. Henneke – Y. Baba	
9:00 AM	Official Opening of Conference		
9:10 AM – 9:50 AM	Keynote Lecture 1: <i>Nanotechnology: Its Application to the Treatment of Inflammation Related to Disease and Injury</i> <b>Robert Burrel</b>		
9:50 AM – 10:30 AM	Keynote Lecture 2: <i>Nanotechnology based Artificial Cells for Nanomedicine</i> <b>Thomas M S Chang</b>		
10:30 AM – 10:50 AM	Coffee Break		
10:50 AM – 11:30 AM	Keynote Lecture 3: <i>Silicon Photonics: Devices, Applications and Challenges</i> <b>Winnie Ye</b>		
11:30 AM – 12:10 PM	Keynote Lecture 4: <i>Photovoltaics using Nanostructures for above 40% Conversion Efficiencies</i> <b>Karin Hinzer</b>		
12:10 PM – 1:20 PM	Lunch		
<b>1:20 PM – 3:20 PM</b>			
Session Number 1: Session Name: Nanotechnology and Coating I			Session Chairs: R. Chandra - M. Farzaneh
1:20 PM – 1:40 PM	Paper 385: “Nano-structure TiO <sub>2</sub> Film Coating on 316L Stainless Steel via Sol-Gel Technique for Blood Compatibility Improvement” <b>Mohammadreza Foruzanmehr</b> , Seid Mohamad Hossainalipour, Shamseldin Mirdamadi, Bijan Eftekhari, Mahnaz Aghaiipour		
1:40 PM – 2:00 PM	Paper 477: “Application of Semiconducting Nanocomposite Coatings to Outdoor Insulators” <b>Gelareh Momen</b> , Masoud Farzaneh		

2:00 PM – 2:20 PM	Paper 469: “ <i>Nanostructured PTFE Impregnated Anodized Aluminium for Icephobic Application</i> ” <b>Richard Menini</b> , Masoud Farzaneh, Zahira Ghalmi
<b>Session Number 2:</b>	
<b>Session Name: Nanoparticle: Synthesis and Characterization I</b>	
<b>Session Chairs:</b> <b>J. Zhang - E. Onder</b>	
1:20 PM – 1:40 PM	Paper 471: “ <i>Influence of Sodium Citrate Concentration on Morphology Transformation of Gold Nanoparticles During Laser Irradiation</i> ” <b>Jianming Zhang</b> , Daria Riabinina, Mohamed Chaker, Dongling Ma
1:40 PM – 2:00 PM	Paper 549: “ <i>Smart Hydrogel Grafted on Silica Nanoparticles</i> ” <b>Behzad PourAbbas Kheiraddin</b> , Elham Effati
2:00 PM – 2:20 PM	Paper 560: “ <i>Development of Multifunctional Nanoparticles for Rapid Pathogen Detection and Capture</i> ” <b>Jin Zhang</b> , Abdul Mumin, Longyan Chen
2:20 PM – 2:40 PM	Paper 284: “ <i>Synthesis and Processing of SnO<sub>2</sub>, SrSnO<sub>3</sub> and Sr<sub>2</sub>SnO<sub>4</sub> Nanopowders Solid-State Reactions Method</i> ” <b>Yousef Rezaeinik</b> , Abdoljavad Novinrooz
2:40 PM – 3:00 PM	Paper 591: “ <i>Synthesis and Optical Properties of Immobilized Spherical and Non-spherical Gold Nanoparticles for Detection of Polypeptides and Microfluidics Applications</i> ”
<b>Session Number 3:</b>	
<b>Session Name: Nanoelectronics I</b>	
<b>Session Chairs:</b> <b>W. N. Ye – J. Shapter</b>	
1:20 PM – 1:40 PM	Paper 540: “ <i>Reduced Graphene Oxide Transparent Electrodes for Organic Light-Emitting Diodes</i> ” <b>Tarun Chari</b> , Mohamed Siaj, Yu-Mo Chien, Abdeladim Geurmone, Ricardo Izquerido, Ishiang Shih
1:40 PM – 2:00 PM	Paper 562: “ <i>Electrochemical Characterization of Graphene Nanoplatelets-MnO<sub>2</sub> Nanocomposites for Supercapacitor Application</i> ” <b>Isaac Roes</b> , Aaron Davies, Zhongwei Chen, Aiping Yu
2:00 PM – 2:20 PM	Paper 450: “ <i>Electronic, Structural and Vibrational Properties of Fluorite-TiO<sub>2</sub> under High Pressure</i> ” Mohaddeseh Abbasnejad, <b>Mohammad Reza Mohammadizadeh</b>
2:20 PM – 2:40 PM	Paper 399: “ <i>The Impact of Ge Mole Fraction on the Electrical Characteristics of Nanoscale Si/Strained SiGe pMOSFET</i> ” <b>Behrooz Abbaszadeh</b> , Morteza Fathipour
2:40 PM – 3:00 PM	Paper 219: “ <i>Design and Characterization of a Novel Inverter for Nanoelectronic Circuits</i> ” <b>Razieh Farazkish</b> , Morteza Fathipour, Fatemeh Khodaparast, Keivan Navi, Ali Jalali
3:00 PM – 3:20 PM	Paper 567: “ <i>Graphene Nanoplatelets /Polypyrrole Composite for Supercapacitor Application</i> ” Aaron Davies, <b>Isaac Roes</b> , Zhongwei Chen, Aiping Yu

Session Number 4: Session Name: Nanocatalysis		Session Chairs: J. Schutz – A. Ayesh
1:20 PM – 1:40 PM	Paper 442: “ <i>Synthesis of SAPO-34 and MgSAPO-34 Nanostructures for Conversion of Methanol to Light Olefins</i> ” Maede Salmasi, <b>Shohreh Fatemi</b> , Ali Taheri Najafabadi	
1:40 PM – 2:00 PM	Paper 383: “ <i>Photocatalytic Degradation of Nonionic Surfactant in Water with ZnO Nanoparticles Supported on Clinoptilolite as a Catalyst</i> ” Faeghe Ghanbari, <b>Naghi Saadatjoo</b> , M Giahi	
2:00 PM – 2:20 PM	Paper 209: “ <i>Photocatalytic Activity of Metal Oxide Nanostructures Prepared Electrical Arc Discharge Method in Water</i> ” <b>Ali Akbar Ashkarran</b> , Mahmoud Ghorannevis	
2:20 PM – 2:40 PM	Paper 312: “ <i>Photocatalytic Degradation of Synthesized Colorant Stains on Cotton Fabric Coated Nano TiO<sub>2</sub></i> ” <b>Mohammad Mirjalili</b> , Loghman Karimi, Marjan Mirjalili	
2:40 PM – 3:00 PM	Paper 511: “ <i>Effect of Nano ZnO as a Catalyst of Curing Reaction on Cross-Linking Density in NR/BR and NR/SBR blends</i> ” <b>Milad Mottaghi</b> , Saied Nori Khorasani, Mohsen Nasr-Esfahani	
3:20 PM – 3:40 PM	Coffee Break	
<b>3:40 PM – 6:00 PM</b>		
Session Number 1: Session Name: Nanotechnology, Modeling and Simulation		Session Chairs: A. Behzadmehr – E. Vaseghi-Farahani
3:40 PM – 4:00 PM	Paper 554: “ <i>Design and Simulation of Mechanically-Coupled Filters Based on ZnO Piezoelectrically Transduced Contour Mode Ring Resonators</i> ” <b>Mohamed Aly Saad Aly</b> , Jing Wang	
4:00 PM – 4:20 PM	Paper 401: “ <i>Mathematical Model for Predicting the Amount of Reactive Groups of a Cyclodextrin Derivative</i> ” <b>Malihe Nazi</b> , Reza Mohammad Ali Malek, Mohammad Bameni Moghaddam	
4:20 PM – 4:40 PM	Paper 360: “ <i>Simulation of Elastic Behavior of Carbon Nanotubes and Buckypaper</i> ” <b>Mohammad Mahdi Zaeri</b> , Saeed Ziaei Rad, Fathollah Karimzadeh	
4:40 PM – 5:00 PM	Paper 472: “ <i>Automorphism group of a Family of Dendrimer nanostars</i> ” <b>E. Zahedi</b> , M. H. Khalifeh, H. Faramarzi, A. R. Ashrafi	
5:00 PM – 5:20 PM	Paper 266: “ <i>Study of the Molecular Interactions between Polypyrrole/ Poly (m-phenylenevinylene-co-2,5-dioctyloxy-p-phenylenevinylene) Polymers and Single-Walled Carbon Nanotubes</i> ” Masumeh Foroutan, <b>Amir Taghavi Nasrabadi</b>	

<b>Session Number 2:</b> <b>Session Name: Nanomaterial – Nanodevices: Preparations, Characterizations and Applications I</b>		<b>Session Chairs:</b> <b>R. Chandra –R. Sarraf Mamoori</b>
3:40 PM – 4:00 PM	Paper 574: “ <i>The Effect of Ultrasound Sonication on Pure and Intercalated Nano Clay Production from Anatolian Montmorillonite</i> ” <b>Nihal Sarier, Emel Onder</b>	
4:00 PM – 4:20 PM	Paper 117: “ <i>Size-selected Pd Nanocluster Production using a Sputtering Source: Simulational and Experimental Study</i> ” <b>Ahmad Ayesh, Naser Qamhieh, Hassan Ghamlouche, Saleh Thaker</b>	
4:20 PM – 4:40 PM	Paper 257: “ <i>Synthesis of High Porous Silica with Large Surface Area and Investigation of its Textural-Structural Properties</i> ” <b>Viktor Valtsifer, Natalia Kondrashova, Ekaterina Saenko, Irina Lebedeva</b>	
4:40 PM – 5:00 PM	Paper 332: “ <i>The investigation of Growth, Structural and Optical Properties of TiO<sub>2</sub> Nanowires</i> ” <b>Abdullah Mortezaali, Saeideh Ramezanisani</b>	
5:00 PM – 5:20 PM	Paper 489: “ <i>Effect of Vacuum Time, Formulations and Nanoparticles on the Properties of Surface Densification Products</i> ” <b>Xiaolin Cai, Pierre Blanchet</b>	
5:20 PM – 5:40 PM	Paper 458: “ <i>Nanodiamonds for Quantum and Biological Science</i> ” <b>James Rabeau, Carlo Bradac, Torsten Gaebel, Nishen Naidoo, Matthew Sellars, Jason Twamley, Louise Brown, Amanda Barnard, Taras Plakhotnik, Andre Zvyagin</b>	
5:40 PM – 6:00 PM	Paper 552: “ <i>Fabrication of PEBA Hybrid Membranes on Porous Nanocomposite Tubular Ceramic Supports for Acid Gases Removal</i> ” <b>Seyed Roohollah Pishghadam, Ali Akbar Babaluo, Mir Karim Razavi Aghjeh, Seyed M. Mosavinejad</b>	
<b>Session Number 3:</b> <b>Session Name: Nanocomposite</b>		<b>Session Chairs:</b> <b>J. Zhang – Sh. Fatemi</b>
3:40 PM – 4:00 PM	Paper 270: “ <i>VO<sub>2</sub>-WO<sub>3</sub> Nanocomposite Thin Films by Pulsed Laser Deposition Technique</i> ” <b>Ajay Kaushal, Davinder Kaur</b>	
4:00 PM – 4:20 PM	Paper 403: “ <i>Effect of Nanoclay Particles on Tensile Strength and Flame Retardant Properties of Polystyrene/Nanoclay Nanocomposite</i> ” <b>Payam Saraeian, Shaghayegh Sartipi</b>	

4:20 PM – 4:40 PM	Paper 77: “ <i>Constituting Balance between Stiffness vs. Toughness in PP/SEBS-g-MA/Organoclay Nanocomposites</i> ” <b>Mostafa Ranjbar</b> , Gholamreza Bakhshandeh, Salma Zamirian, Behnam Hamedi, Somayeh Khalilvand
4:40 PM – 5:00 PM	Paper 496: “ <i>Controlled Manufacturing of Thin Silicalite-1 Membrane on Ceria /Alumina Nano Composite Support and its Pervaporation Performance</i> ” Hossein Kazemian, <b>Mohammad Soltanieh</b> , Mohammad Ghasdi
<b>Session Number 4:</b>	
<b>Session Name: Nanotechnology Applications I</b>	
<b>Session Chairs:</b> R. Green – M. Frounchi	
3:40 PM – 4:00 PM	Paper 561: “ <i>Evaluation of the Effectiveness of Zinc Oxide Nanoparticles in Reducing Gas Emissions from Swine Manure</i> ” <b>Alvin Alvarado</b> , Bernardo Predicala, Daisy Asis
4:00 PM – 4:20 PM	Paper 461: “ <i>Multiphoton Excitation of Quantum Dot in Presence of Time Dependent Fields for Bioimaging</i> ” <b>P. K. Jha</b> , M. Mohan
4:20 PM – 4:40 PM	Paper 436: “ <i>Iran's Research Capabilities in Water Treatment Using Nanotechnology</i> ” Mahdi Moradi, Jafar Mahmudi, Jalal Rahchamani, Alireza Alemi, <b>Emad Ahmadvand</b>
4:40 PM – 5:00 PM	Paper 416: “ <i>The Nanodiamond Particles for Protein Adsorption</i> ” <b>Hai-Dong Wang</b> , Catherine Hui Niu, Qiaoqin Yang, Ildiko Badea

# Thursday

## August 5

8:30 AM – 9:10 AM	Keynote Lecture 5: <i>Nanotechnology for Energy: Preparation and Processing of Nanomaterials for Advanced Energy Systems</i> <b>John Wen</b>	Session Chairs: K. Hinzler – T. M. S. Chang
9:10 AM – 9:50 AM	Keynote Lecture 6: <i>Nanobiodevice in Life Innovation and Green Innovation</i> <b>Yoshinobu Baba</b>	
09:50 AM – 11:00 AM	Coffee Break– Poster Session <sup>i</sup>	
11:00 AM – 11:40 AM	Keynote Lecture 7: <i>Creating Nano Engineered Surfaces for Mercury Sensing</i> <b>Suresh Bhargava</b>	
11:40 AM – 12:20 PM	Keynote Lecture 8: <i>ISO and IEC Standards for Nanotechnologies</i> <b>Brian Haydon</b>	
12:20 PM – 1:30 PM	Lunch	
<b>1:30 PM – 3:10 PM</b>		
<b>Session Number 1:</b> <b>Session Name: Nanotubes: Synthesis and Applications</b>		<b>Session Chairs:</b> <b>J. Shapter</b>
1:30 PM – 1:50 PM	Paper 246: “ <i>Synthesis of ZnO Nanotubes as Recyclable Photocatalyst for the Degradation of C.I. Acid Blue 9 Dye Solution</i> ” <b>Alireza Zolfaghari</b> , Masoud Rastegar, Hamidreza Naderi	
1:50 PM – 2:10 PM	Paper 456: “ <i>Observations of Changing Gas Permeance for an Isoporous Carbon Nanotube Membrane</i> ” <b>Jurg Schutz</b> , Kallista Sears	
2:10 PM – 2:30 PM	Paper 420: “ <i>Prediction of Young’s Modulus of Perfect and Defective SWCNTs with Various Loading Methods</i> ” <b>Vali Parvaneh</b> , Mahmoud Shariati	
<b>Session Number 2:</b> <b>Session Name: Nanofiber</b>		<b>Session Chairs:</b> <b>F. Ko – Y. Dahman</b>
1:30 PM – 1:50 PM	Paper 576: “ <i>Chitin/PVA Nanofibers Produced Electrospinning: Characterization and Cell Culture Behavior</i> ” <b>Hajir Bahrami</b> , Saeed Zarghami	

1:50 PM – 2:10 PM	Paper 283: “ <i>Continuous Carbon Nanotubes Reinforced Fibres and Yarns</i> ” <b>Frank Ko</b> , Yuqin Wan, Jinwen Guan, Benoit Simard
2:10 PM – 2:30 PM	Paper 593: “ <i>Electrospun Non-Woven Nanofibrous Mats Based on Chitosan and PEO</i> ” <b>Mehdi Pakravan</b> , Marie-Claude Heuzey, Abdellah Ajji
2:30 PM – 2:50 PM	Paper 304: “ <i>Fabrication and Modification of PCL Nanofibrous Scaffolds for Nerve Tissue Engineering Application</i> ” <b>Laleh Ghasemi-Mobarakeh</b> , Molamma P.Prabhakaran, Mohammad Morshed, Mohammad Hossein Nasr- Esfahani, Seeram Ramakrishna
2:50 PM – 3:10 PM	Paper 446: “ <i>The Effects of Solvent Properties and Solution Concentration on Morphology and Structure of Electrospun PLLA Nanofibers</i> ” Maryam Radjabian, Mohammad Haghighat Kish, <b>S. H. Bahrami</b> , Naser Mohammadi, Somaye Akbari
<b>Session Number 3:</b> <b>Session Name: Measurement Techniques</b>	
<b>Session Chairs:</b> <b>R. Green – H. Sarma</b>	
1:30 PM – 1:50 PM	Paper 517: “ <i>Surface Diagnostics using Low-Coherence Interferometry and Colour Single CCD Camera</i> ” <b>Zdenek Buchta</b> , Bretislav Mikel, Josef Lazar, Ondrej Cip
1:50 PM – 2:10 PM	Paper 514: “ <i>Laser Source for Interferometry in Nanometrology</i> ” <b>Jan Hrabina</b> , Josef Lazar, Ondrej Cip, Martin Cizek
2:10 PM – 2:30 PM	Paper 582: “ <i>Laser Measuring Gauge for Precise Transducer Calibrations in Nanometric Scale</i> ” <b>Ondrej Cip</b> , Martin Cizek, Zdenek Buchta, Bretislav Mikel, Josef Lazar
2:30 PM – 2:50 PM	Paper 277: “ <i>DFB Laser Source at 760 nm Wavelength for Nanometrology</i> ” <b>Bretislav Mikel</b> , Zdenek Buchta, Josef Lazar, Ondrej Cip
2:50 PM – 3:10 PM	Paper 525: “ <i>Interferometer Controlled Positioning for Nanometrology</i> ” <b>Josef Lazar</b> , Ondřej Číp, Martin Čížek, Jan Hrabina, Mojmír Šerý
<b>Session Number 4:</b> <b>Session Name: Nanoparticle: Synthesis and Characterization II</b>	
<b>Session Chairs:</b> <b>H. Mohammad – Y. Song</b>	
1:30 PM – 1:50 PM	Paper 516: “ <i>Layer Formation of SAPO-34 on Porous Mullite Particles for Improvement of CO<sub>2</sub> Adsorptive Properties from Natural Gas in Dynamic Adsorption Processes</i> ” <b>Shohreh Fatemi</b> , Siamak Ashraf Talesh, Mahdi Davoodpour, Saeid Jalal Hashemi

1:50 PM – 2:10 PM	Paper 417: “ <i>Processing of a Mixture of SiC nano-particles and Aluminum Powders via the In-situ Powder Metallurgy (IPM) Method</i> ” Farshad Akhlaghi, <b>Mohammad Moazami-Goudarzi</b>
2:10 PM – 2:30 PM	Paper 500: “ <i>Zinc Oxide Nanoparticles as a New Catalyst for the Synthesis of 2,3-Disubstituted Quinoxalines</i> ” Ghasem Rezanejade Bardajee, <b>Hooshang Pirelahi</b> , Farnaz Jafarpour
2:30 PM – 2:50 PM	Paper 336: “ <i>Developing a Simple and Low-Cost Method for the Synthesis of NaA Zeolite Nanoparticles</i> ” Amir Enferadi Kerenkan, <b>Ali Akbar Babaluo</b> , Behruz Bayati
2:50 PM – 3:10 PM	Paper 468: “ <i>XRD of Cu Nano Particles Embedded In Carbon Film</i> ” <b>M. A. Vesaghi</b> , A. Gelali, T. Ghodselahi, S. Solymani, H. Zahrabi, S. M. Elahi, A. Shafiekhani, M. Ahmadi Rad
3:10 PM – 4:20 PM	Coffee Break– Poster Session <sup>i</sup>
<b>4:20 PM – 6:00 PM</b>	
<b>Session Number 1:</b>	
<b>Session Name: Nanoelectronics II</b>	
<b>Session Chairs:</b> W. N. Ye – A. Mortezaali	
4:20 PM – 4:40 PM	Paper 492: “ <i>Memristive Switching Effect in Monocrystalline LiNbO<sub>3</sub> and ZnO</i> ” <b>Wendi Zhou</b> , Julia Qiu, Andy Shih, Han-Jen Yang, Ishiang Shih, Zetian Mi
4:40 PM – 5:00 PM	Paper 495: “ <i>Design and Frequency Analysis of a Parity Checker/Generator using Quantum-Dot Cellular Automata Nano-Technology</i> ” Farinoush Saffar Montasheri, <b>Arash Khabbaz Saberi</b> , Namdar Saniei, Keivan Navi
5:00 PM – 5:20 PM	Paper 521: “ <i>Photocurrent Response from Vertically-Aligned Chemically-Functionalised Single-Walled Carbon Nanotube Arrays</i> ” <b>Joe Shapter</b> , Mark Bissett
5:20 PM – 5:40 PM	Paper 441: “ <i>CNT Doping Improved the Superconducting Properties in YBCO High Temperature Superconductor</i> ” <b>Sedigheh Dadras</b> , Vahid Daadmehr, Kee hoon Kim, Nallaiyan Manivannan, Sara Barakat
5:40 PM – 6:00 PM	Paper 565: “ <i>Vertically-coupled MicroRing Resonators</i> ” <b>Winnie N. Ye</b> , Kibruyisfa Goshu
<b>Session Number 2:</b>	
<b>Session Name: Nanotechnology and Coating II</b>	
<b>Session Chairs:</b> D. K. Sarkar – R. Menini	
4:20 PM – 4:40 PM	Paper 488: “ <i>Facile Fabrication of Nanostructured Superhydrophobic Coatings</i> ” <b>D. K. Sarkar</b>

4:40 PM – 5:00 PM	Paper 426: “ <i>Icephobic and Superhydrophobic Surfaces Prepared on Micro-Nano Structured Aluminium Oxide RF-Sputtered Polytetrafluoroethylene Coatings</i> ” <b>Reza Jafari</b> , Masoud Farzaneh
5:00 PM – 5:20 PM	Paper 285: “ <i>Synthesis &amp; Characterization of Sputter Deposited Titanium Oxynitride Nanostructured Hydrophobic Coatings</i> ” <b>Sushant Rawal</b> , Amit Chawla, Vipin Chawla, R Jayaganthan, Ramesh Chandra
5:20 PM – 5:40 PM	Paper 479: “ <i>Nanostructured Superhydrophobic Coatings using Fluoroalkylsilane Modified Silica Nanoparticles</i> ” J. D. Brassard, <b>Dilip K. Sarkar</b> , G. Fortin, J. Perron
<b>Session Number 3:</b>	
<b>Session Name: Nanoparticle: Synthesis and Characterization III</b>	
<b>Session Chairs:</b> H.V. Walt – M. Soltanieh	
4:20 PM – 4:40 PM	Paper 584: “ <i>Formation of Worm-like and Chain-Like Shaped Metallic Nanoparticles in Microfluidic Reactors</i> ” <b>Yujun Song</b> , Qiangqiang Sun, Pengyun Jin, Tao Zhang, Li Han
4:40 PM – 5:00 PM	Paper 491: “ <i>Synthesis and Characterization of Nanocrystalline CuS via Surfactant Process</i> ” <b>Maryam Darouie</b> , Shahrara Afshar
5:00 PM – 5:20 PM	Paper 556: “ <i>Synthesis of Magnesium Hydroxyapatite Nanoparticles in Amino Acid Solution</i> ” <b>Roozbeh Kazemzadeh</b> , Ali Asghar Behnam Ghader, Saeed Hesaraki
<b>Session Number 4:</b>	
<b>Session Name: Nanomaterial – Nanodevices: Preparations, Characterizations and Applications II</b>	
<b>Session Chairs:</b> V. Valtsifer – A. A. Babaluo	
4:20 PM – 4:40 PM	Paper 279: “ <i>The Thermal Effect on Vibration and Instability of Carbon Nanotubes Conveying Fluid Embedded in an Elastic Medium Based on Nonlocal Elasticity</i> ” <b>Payam Soltani</b> , Mohammad Mehdi Taherian, Anoushiravan Farshidianfar
4:40 PM – 5:00 PM	Paper 347: “ <i>The Fabrication of Nanocapsules Containing Phase Change Material Utilizing Surfactant Free Miniemulsion Polymerization</i> ” Mahsa Kalantari, <b>Somaye Akbari</b> , Mohammad Haghighat Kish
5:00 PM – 5:20 PM	Paper 451: “ <i>Frequency Analysis of Single-Walled Carbon using a Structural Mechanics Approach</i> ” <b>Vali Parvaneh</b> , Mahmoud Shariati, Hamid Torabi
5:20 PM – 5:40 PM	Paper 510: “ <i>Parameters Modeling for Hydrothermal Synthesis of TiO<sub>2</sub>-Derived Nanotubes using Response Surface Methodology</i> ” Maryam Safaei, <b>Rasoul Sarraf Mamoory</b> , Mehdi Rashidzadeh

*i) Please refer to the end of this schedule for the posters' information*

# Friday

## August 6

9:00 AM – 9:40 AM	Keynote Lecture 9: <i>Nanoparticle Synthesis Laser Ablation of an Aerosol</i> <b>Dale Henneke</b>	Session Chairs: S. Bhargava – R. Burrell
9:40 AM – 10:20 AM	Keynote Lecture 10: <i>Novel Nanocarbons for Flexible Thin Film Electronics Applications</i> <b>Esko I. Kauppinen</b>	
10:20 AM – 10:50 AM	Coffee Break	
10:50 AM – 11:30 AM	Keynote Lecture 11: <i>Nanostructured Superhydrophobic Coatings: Fundamentals and Applications</i> <b>Dilip Sarkar</b>	
11:30 AM – 12:10 PM	Keynote Lecture 12: <i>Multifunctional Nanocomposites: the Synthesis, Characterization, and their Application for Rapid Pathogen Capture</i> <b>Jin Zhang</b>	
12:10 PM – 1:20 PM	Lunch	
<b>1:20 PM – 3:20 PM</b>		
<b>Session Number 1:</b> <b>Session Name: Thin Film Technology and Applications</b>		<b>Session Chairs:</b> <b>D. K. Sarkar – J. Torrent-Burgu�</b>
1:20 PM – 1:40 PM	Paper 493: “ <i>Superhydrophobic and Icephobic Nanorough Low Dielectric Thin Film Coated Aluminum Surfaces</i> ” <b>N. Saleema</b> , M. Farzaneh, D. K. Sarkar, R. W. Paynter	
1:40 PM – 2:00 PM	Paper 529: “ <i>Simultaneous Improvement of Photocatalytic and Superhydrophilicity Properties of Nano TiO<sub>2</sub> Thin Films</i> ” <b>Mohammadreza Mohammadizadeh</b> , M. Kazemi	
2:00 PM – 2:20 PM	Paper 287: “ <i>A Study on the Magnetic Properties of Sputter Deposited Cobalt-Silica Nanocomposite Thin Films</i> ” Rajan Walia, Amit Kumar Chaw, Archana Mishra, R. Jayaganthan, <b>Ramesh Chandra</b>	
2:20 PM – 2:40 PM	Paper 389: “ <i>Optical Properties of Bi Rich Multiferroic BiFeO<sub>3</sub> Thin Films Grown Pulsed Laser Deposition</i> ” Kaveh Ahadi, <b>Syed Mohammad Mahdavi</b> , Ali Nemati-Mohammadreza Nematollahi, Mehdi Ranjbar	

2:40 PM – 3:00 PM	Paper 309: “ <i>Photo-Catalytic Evaluation of Titania Thin Film on Glazed Porcelain Substrates and Corresponding Nanopowders via TiCl<sub>4</sub> Precursor</i> ” Behza Koozegar Kaleji, Sohrab Sanjabi, <b>Rasoul Sarraf-Mamoory</b>
<b>Session Number 2:</b> <b>Session Name: Nanomaterial – Nanodevices: Preparations, Characterizations and Applications III</b>	
<b>Session Chairs:</b> <b>N. Sarier – M. Najafi</b>	
1:20 PM – 1:40 PM	Paper 276: “ <i>Effect of Stirring Time on Production and Sintering of Nanosized <math>\alpha</math>-Al<sub>2</sub>O<sub>3</sub> Powder</i> ” <b>Fateme Mirjalili</b> , Hasmaliza Mohamad, Luqman Chuah
1:40 PM – 2:00 PM	Paper 432: “ <i>The Hosoya and Merrifield-Simmons Numbers of Water-Soluble Polyaryl Ether Dendrimer Nanostars</i> ” Hamed Faramarzi, Mohammad Hossein Khalifeh, Hassan Yousefi-Azari, <b>Emad Zahedi</b>
2:00 PM – 2:20 PM	Paper 278: “ <i>Optical and Structural Properties of SiC Thin Films Deposited RF-Magnetron Sputtering: Effect of Sputtering Gas</i> ” Mukesh Kumar, Amit Kumar Chawla, Rajesh Kumar Tiwari, <b>Ramesh Chandra</b>
2:20 PM – 2:40 PM	Paper 322: “ <i>Experimental Investigation of the Convective Heat Transfer Coefficient Enhancement of Al<sub>2</sub>O<sub>3</sub>/EG Nanofluid in a Double-Pipe Heat Exchanger under Turbulent Flow</i> ” <b>Seyed Amir Hossein Zamzamin</b> , Mohamad Pazouki
2:40 PM – 3:00 PM	Paper 528: “ <i>Preparation of Magnetic Cationic-Dextran Nanocarriers</i> ” Mahsa Mohammad-Taheri, <b>Ebrahim Vasheghani-Frahani</b> , Hossein Hosseinkhani, Seyed Abbas Shojaosadati
3:00 PM – 3:20 PM	Paper 337: “ <i>Synthesis and Characterization of Carbon-Coated TiO<sub>2</sub> Nanopowder Via Polyacrylamide Gel Method</i> ” Mohammad Mehdi Kamrannejad, <b>Ali Akbar Babaluo</b> , Masoud Rakhshani, Amin Hasanzadeh, Mir Karim Razavi Aghjeh, Mostafa Rezaei
<b>Session Number 3:</b> <b>Session Name: Nanotechnology Applications II</b>	
<b>Session Chairs:</b> <b>M. Soltanieh</b>	
1:20 PM – 1:40 PM	Paper 550: “ <i>Nanotechnology and the Building Industry</i> ” <b>Abdul Rahim Sabouni</b> , Mohamad Kashef
1:40 PM – 2:00 PM	Paper 568: “ <i>Conceptual Design of a Miniaturized Hydro-Mechanical Force-Multiplier</i> ” <b>Chandra Asthana</b>
2:00 PM – 2:20 PM	Paper 534: “ <i>A Study on the Progress of Nanotechnology in Upstream and Downstream of Oil Industry in Iran</i> ” Ali Habibi, Alireza Bastami, Zeynab Jabbari, Alireza Askari, Ali Maboodi, Moslem Delshad, <b>Emad Ahmadvand</b>

2:20 PM – 2:40 PM	Paper 423: “ <i>Investigation of Hydrophobicity State Effect of Nano-Montmorillonite Interlayer Modifiers on Compressive Strength of Portland (II) Cement Pastes</i> ” <b>Afsaneh Fakhravar</b> , Saeid Abedini Khorrani, Mohammad Tarameshlou
2:40 PM – 3:00 PM	Paper 592: “ <i>Application of Nanophosphor-Nanogold Coated Immunoconjugates in Affinity purification of Membrane Transport Vesicles and Possible Drug Delivery</i> ” <b>Dwijendra Gupta</b> , Shanthi Sundaram, Manish Dwivedi and Vijay Tripathi
<b>Session Number 4:</b>	
<b>Session Name: Nanofluid</b>	
<b>Session Chairs:</b> S. Gh. Etemad – A. Behzadmehr	
1:20 PM – 1:40 PM	Paper 372: “ <i>Experimental Investigation on Heat Transfer and Pressure Drop of CuO-Base Oil Nanofluid Flow in Flattened Tubes under Constant Heat Flux</i> ” <b>Mohammad Ali Akhavan-Behabadi</b> , Pooyan Razi
1:40 PM – 2:00 PM	Paper 324: “ <i>Conjugate Mixed Convection of a Nanofluid in Horizontal Tubes</i> ” Shahriar Alahyari, <b>Amin Behzadmehr</b> , Seyed Masoud Hosseini S.
2:00 PM – 2:20 PM	Paper 577: “ <i>Heat Transfer Characteristics of CuO-Base Oil Nanofluid Laminar Flow Inside Helically Coiled Tube under Constant Heat Fluxes</i> ” <b>Mohammad Ali Akhavan-Behabadi</b> , Seyed Mohammad Hashemi
2:20 PM – 2:40 PM	Paper 448: “ <i>Specific Heat Capacity of TiO<sub>2</sub> Nanoparticles</i> ” Meghdad Saeedian, Masoud Mahjour Shafie, Ezad Shojaee, <b>Mohammad Reza Mohammadizadeh</b>
2:40 PM – 3:00 PM	Paper 394: “ <i>Effect of Coiled Wire Insert on Heat Transfer and Pressure Drop of CuO-Base Oil Nanofluid Flow in a Horizontal Tube Under Constant Heat Flux</i> ” <b>Mohammad Ali Akhavan-Behabadi</b> , Mohammad Saeedinia
3:20 PM – 3:40 PM	Coffee Break
<b>3:40 PM – 6:00 PM</b>	
<b>Session Number 1:</b>	
<b>Session Name: Nanotechnology and Polymer</b>	
<b>Session Chairs:</b> A. Rostami – P. Mukhopadhyay	
3:40 PM – 4:00 PM	Paper 419: “ <i>The Study the Influence Of Silicon Carbide Nanoparticles On Curing Behavior of Butadiene Rubber Blends</i> ” <b>Amirpasha Kharazi</b> , Azam Jalali Arani
4:00 PM – 4:20 PM	Paper 494: “ <i>Surface Nanopatterning using Composite Polymer Coating, Polymer Masks and their Wetting Behavior</i> ” <b>Saleema Noormohammed</b> , D. K. Sarkar, M. Farzaneh, R. W. Paynter

4:20 PM – 4:40 PM	<p>Paper 453: “<i>Preparation and Characterization of New Nanocomposites of Polyaniline in situ Polymerization and Doping of Aniline in the Presence of Nanosilica Sulfuric Acid under Solvent-Free Condition</i>”</p> <p>Maedeh Azaroun, Mohsen Beladi Mousavi, Iman Dindarloo Inanloo, Babak Faridkia, Esmaeil Farzaneh Jobaneh, Fazlollah Fathipour, <b>Ali Reza Modarresi-Alam</b>, Fahimeh Movahedifar, Maryam Pakseresht, Mokhtar Pashaei, Mojtaba Solaimani, Sakineh Zafari</p>
4:40 PM – 5:00 PM	<p>Paper 299: “<i>A Novel Method for Toughening of Polypropylene with <math>\alpha</math>- Alumina Nanoparticles</i>”</p> <p><b>Fatemeh Mirjalili</b>, Luqman Chuah, Hasmaliza Mohamad</p>
<p><b>Session Number 2:</b> <b>Session Name: Nanotechnology Applications III</b></p>	
<p><b>Session Chairs:</b> <b>J. Thibault – B. Haydon</b></p>	
3:40 PM – 4:00 PM	<p>Paper 241: “<i>Delay Models for Single-Electron-Tunnelling Based Logic Circuits</i>”</p> <p><b>Venketeshwaran Puthucode</b>, Chunhong Chen</p>
4:00 PM – 4:20 PM	<p>Paper 272: “<i>Magnetron Sputtered Ni-Mn-Sn Ferromagnetic Shape Memory Alloy Thin Films</i>”</p> <p>Ritu Vishno, <b>Davinder Kaur</b></p>
4:20 PM – 4:40 PM	<p>Paper 330: “<i>Host-Guest Chemistry of Dendrigrraft-Dye Complexes in Divergent Route</i>”</p> <p><b>Somaye Akbari</b>, Mohammad Haghghat Kish, Ali Akbar</p>
4:40 PM – 5:00 PM	<p>Paper 60: “<i>Fabrication and Characterization of High Performance Ceramic Membrane Having Nanometric Pores</i>”</p> <p><b>Ali A Hosseini</b>, A Sadigzadeh, Ramin Soltani, S Mohammadi</p>
<p><b>Session Number 3:</b> <b>Session Name: Nanomaterial – Nanodevices: Preparations, Characterizations and Applications IV</b></p>	
<p><b>Session Chairs:</b> <b>D. Ma – M. Khanlary</b></p>	
3:40 PM – 4:00 PM	<p>Paper 413: “<i>Nanolay-attached and Free Polystyrene Nanofiber by Combination of Atom Transfer Radical Polymerization and Electrospining</i>”</p> <p>Hossein Roghani-Mamaqani, Vahid Haddadi-Asl, <b>Mohammad Najafi</b>, Mehdi Salami-Kalajahi</p>
4:00 PM – 4:20 PM	<p>Paper 381: “<i>Influence of Magnetic Field on Low Pressure Synthesis of Multi-Wall Carbon Nanotubes by Arc Discharge</i>”</p> <p><b>Sahar Tabrizi</b>, Alireza Hojabri</p>
4:20 PM – 4:40 PM	<p>Paper 248: “<i>Synthesis of MnO<sub>2</sub>/Graphite Nanocomposites Using Sonochemistry Method for Electrochemical Supercapacitors</i>”</p> <p><b>Alireza Zolfaghari</b>, Hamidreza Naderi, Masoud Rastegar, Hani Sayahi</p>

4:40 PM – 5:00 PM	Paper 214: “ <i>High-Temperature Molecular Dynamics Simulation of Lipid Membrane Bilayers Enforced by Intercalated Single-Wall Carbon Nanotube</i> ” <b>Sergey Shityakov</b> , Thomas Dandekar
5:00 PM – 5:20 PM	Paper 421: “ <i>Synthesis of Carbon Nanotube by Floating Catalyst</i> ” <b>Mohammad Reza Khanlary</b> , Parvin Afshar, Majid Soleimani
5:20 PM – 5:40 PM	Paper 261: “ <i>Synthesis and Characterisation of Tween Stabilised Fe<sub>3</sub>O<sub>4</sub> and Fe<sub>3</sub>O<sub>4</sub>@Au Nanoparticles</i> ” <b>Hendriette van der Walt</b> , Lesley Chown
5:40 PM – 6:00 PM	Paper 398: “ <i>Etching Effect on the Formation of Silicon Nanowire Transistor Patterned by AFM Lithography</i> ” A. Makarimi Abdullah, <b>Sabar D. Hutagalung</b> , Zainovia Lockman
<b>Session Number 4:</b>	
<b>Session Name: Miscellaneous Topics</b>	
<b>Session Chairs:</b> H. Pirelahi - H. Sarma	
3:40 PM – 4:00 PM	Paper 589: “ <i>Value of Standards in the Nanoelectrotechnical Products Supply Chain</i> ” <b>Haridoss Sarma</b>
4:00 PM – 4:20 PM	Paper 473: “ <i>Recent Developments in Nanoscale Length Measurement &amp; Standards at the National Research Council of Canada</i> ” Jennifer Decker, Brian Eves, <b>Richard Green</b>
4:20 PM – 4:40 PM	Paper 359: “ <i>Need for Nanotechnology Education for Specific Undergraduate (B.S.) Degrees</i> ” <b>Noor Mohammad Butt</b> , Kh Yaldram
4:40 PM – 5:00 PM	Paper 466: “ <i>Metallic Particle Emission During Friction Testing of Metals</i> ” <b>Jules Kouam</b> , Victor Songmene, Djebara Abdelhakim, Riad Khettabi
5:00 PM – 5:20 PM	Paper 335: “ <i>Geological Environment with Respect to Sub-Nanoscale Pores</i> ” <b>Kiminori Sato</b> , Koichiro Fujimoto, Masataka Nakata, Naotatsu Shikazono
5:20 PM – 5:40 PM	Paper 558: “ <i>A Mathematical Model for Self-Assembly of Helical Nanoribbons</i> ” David J. Srolovitz, <b>Zi Chen</b> , Mikko P. Haataja

# Poster Session

August 5

9:50 AM – 11:00 AM

Paper 61: “Large Diameter MWNT's, Growth on Iron-Sprayed Catalyst by Simple CCVD Method under Atmospheric Pressure”

**Ali A Hosseini**, Farshad Taleshi

Paper 89: “Characterization of Deposited Organic Molecules at Surface of Gold Electrode Surface by the Electrochemical Reaction of Diazonium Salts in Aqueous and non-Aqueous Solutions”

**Abbas A. Rostami**, Maryam Khoshroo

Paper 100: “Effect of Nano Zinc OXIDE on Decoloration & Degradation of Textile Wastewater”

**Abolfazl Davodiroknabadi**, Salar Zohoori, Loghman Karimi, Mohammadmehdi Karimneja

Paper 140: “Microstructural Evaluation of Mechanochemically Synthesized Nanocrystalline TiO<sub>2</sub> Powder via Rietveld Refinement Method”

Maryam Salari, Masih Rezaee, Yadollah Ganjkanlou, Seyed Hamed Aboutalebi, Pirooz Marashi,

**Alireza Zolfaghari Hesari**

Paper 152: “Electrically Conductive Hydrogel Composites of Polyaniline Nanoparticles and Poly (Vinyl Pyrrolidone) Crosslinked by Gamma-Irradiation”

**Masoud Frouchi**, M. H. Askarian, Susan Dadbin

Paper 193: “Fabrication and Characterization of Al Nanocomposite Reinforced with CNTs Prepared by Powder Metallurgy Method”

**Ali A Hosseini**, Fatemeh Ghaharpour, Hajar Rajaeia, Majeed Abbasib

Paper 194: “Investigation of Physical and Mechanical Properties of Al Nanocomposite Reinforced with CNTs”

**Ali A Hosseini**, Fatemeh Ghaharpour, Hajar Rajaeia, Majeed Abbasib

Paper 218: “Distant Dependant Measurement of Elastic Modulus of Polymer Nanocomposite Fibers via Atomic Force Spectroscopy”

Dorsa Sadat Safanama, **Alireza Zolfaghari Hesari**, Seyed Hamed Aboutalebi, Pirooz Marashi, Somayeh Jalilzadeh

Paper 243: “Investigation on Microstructure and Mechanical Properties of Al-Nano ZrO<sub>2</sub> Composites Produced By Direct Incorporation Method”

**Mohammad Amin Baghchesara**, Hossein Abdizadeh, **Khadijeh Mehdipour**

Paper 244: “Adhesion Forces on Polymer Hybrid Materials by Distant Dependant Measurement”

Tina Shadloo, Pirooz Marashi, **Alireza Zolfaghari Hesari**, Masih Rezaee, Somayeh Jalilzadeh

Paper 247: “Preparation of Photocatalytic TiO<sub>2</sub>/ Montmorillonite Nanocomposite Film by Electrophoretic Deposition”

Masoud Rastegar, **Alireza Zolfaghari Hesari**, Hamidreza Naderi, Mahammadreza Ghaani

Paper 249: “Preparation of MnO<sub>2</sub>/Carbon Black Nanocomposites Using Sonochemistry Method for Electrochemical Supercapacitors”

Hamidreza Naderi, **Alireza Zolfaghari Hesari**, Masoud Rastegar, Hani Sayahi

<p>Paper 254: <i>“Production of W-C Nanocomposition in Thermal Plasma and its Properties”</i>  <b>Alexander Ivanov, Evgeny Shpektorov</b>, Andrey Samokhin, Nikolai Alexeev, Sergey Kornev</p>
<p>Paper 256: <i>“Wavelets/Multiwavelets Analysis of AFM Images for Haptics Enabled Force Feedback Framework”</i>  <b>Asim Bhatti</b>, Saeid Nahavandi</p>
<p>Paper 260: <i>“Knowledge Management 2.0 for NBIC (Nano-Bio-Info-Cogno) Developments in Biomedicine”</i>  <b>Victoria López-Alonso</b>, Enrique de Andrés, Guillermo López-Campos, Laura Salamanca, Fernando Martín-Sanchez</p>
<p>Paper 265: <i>“A Desalination Nanodevice based on Single-Walled Carbon Nanoelectrodes: A Molecular Dynamics Simulation Study”</i>  Masumeh Foroutan, <b>Amir Taghavi Nasrabadi</b></p>
<p>Paper 294: <i>“Nanostructure Formation on Metal-Chalcogenide Surface using Electron Beam Irradiation”</i>  <b>Vadims Kolbjonoks</b>, Vjaceslavs Gerbreders, <b>Oksana Simane</b></p>
<p>Paper 295: <i>“Silica-supported Preyssler Nano Particles: A Novel and Reusable Catalyst for One-Pot Synthesis of New Family of <math>\beta</math>-Acetamido Carbonyl Compounds via a Mannich-Type Reaction”</i>  Fateme F. Bamoharram, <b>Ali Javid</b>, Majid M. Heravi</p>
<p>Paper 303: <i>“Beta-Lactoglobulin-Folic Acid Nanocomplexes and their Potential for Application in Carrier System”</i>  <b>Li Liang</b>, Muriel Subirade</p>
<p>Paper 313: <i>“Potential of Bacterial Cellulose Nanofibers Production from Agricultural Residues”</i>  <b>Yaser Dahman</b>, Kithsiri Jayasuriya, Magdalena Kalis</p>
<p>Paper 326: <i>“Stimulated Changes in Sb-Se Bilayered Film”</i>  <b>Oksana Simane</b>, Vjaceslavs Gerbreders, <b>Vadims Kolbjonoks</b></p>
<p>Paper 333: <i>“Novel Class of Optically Transparent Nanocomposites”</i>  <b>Yaser Dahman</b>, Tulin Oktem</p>
<p>Paper 342: <i>“Synthesis of Nano Hematite Encapsulated into Titana as a Non Toxic Red Pigment”</i>  <b>Maryam Hosseini Zori</b>, Abolfazl Ali Yazdi</p>
<p>Paper 348: <i>“Different Parameters of Solution Affecting on the Adsorption of Cr(VI) Ions with Nanomagnetite”</i>  Nazanin Javadi, <b>Shahram Raygan</b>, Seyyed Ali Seyyed Ebrahimi, Rahim Khorasani Pour</p>
<p>Paper 353: <i>“Preparation of CuO Rodlike Nanostructures by a Novel Precipitation Method using Ultrasonic Irradiation”</i>  <b>Ahmad Rahnama</b>, Mehrnaz Gharagozlou</p>
<p>Paper 354: <i>“Synthesis and Characterization of CuO Nanoparticles via Ultrasonic-Assisted Thermal Decomposition of Cu(OAc)<sub>2</sub>”</i>  <b>Ahmad Rahnama</b>, Mehrnaz Gharagozlou</p>
<p>Paper 355: <i>“The Catalytic Function of Silica-Iron Oxide Nanocomposite for Alkene Oxidation with H<sub>2</sub>O<sub>2</sub>”</i>  <b>Hassan Hosseini Monfared</b>, Shahla Masoudian</p>
<p>Paper 357: <i>“Evaluation of Influenced Parameters on Preparation of Paromomycin-Loaded Solid Lipid Nanoparticles Using Fractional Factorial Design”</i>  Maryam Ghadiri, <b>Shohreh Fatemi</b>, Alireza Vatanara, Alireza Vatanara, Delaram Doroud, Abdolhossein Roholamini Najafabadi</p>
<p>Paper 362: <i>“Photo Degradation of a Textile Aromatic Dye Solution via Synthesized Nano Anatase Titania and Commercial Titania : A Comparative Study”</i>  <b>Leila Torkian</b>, Ehsan Amerreh, Mostafa M.Amini</p>

Paper 367: “Sol-Gel Derived Silver Doped Nanocrystalline Titania Catalyzed Methylene Blue Decomposition under UV/Vis Irradiation”

**Leila Torkian**, Ehsan Amereh, Mostafa M. Amini

Paper 377: “Synthesis and Characterization of Hybrid Nanoparticles of Co-Mn Immobilized on Bentonite and its Application for Oxidation of p-Xylene to Terephthalic Acid”

Mehran Ghiaci, **Mehdi Mostajeran**

Paper 380: “CFD Analysis of Deposition Rate of SiC in a Hot-Wall Tubular CVD Reactor”

Ahmad Jamali-Kaykha, **Tahereh Fanaei Sheikholesalmi**, Amin Behzadmehr

Paper 384: “Langmuir and Langmuir-Blodgett Films of a Calix[7]Arene Ester”

**Juan Torrent-Burgués**, Francis Vocanson

Paper 387: “Nanostructured Superhydrophobic Surfaces with Anti-Ice Properties”

**Shahram Farhadi**, Masoud Farzaneh, Sergei Kulinich

**3:10 PM – 4:20 PM**

Paper 391: “Synthesis and Characterization of Nano-Sized  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> by the Sol-Gel Method”

**Leila Torkian**, Atousa Goodarzi, Ashkan Karamali

Paper 392: “Fuel and pH Affects on the Synthesis and Morphology of CoAl<sub>2</sub>O<sub>4</sub> Nano-Particles”

**Leila Torkian**, Hedieh Bakhtiari

Paper 395: “Some Methods of Purification for Carbon Nanotubes (CNTs) Synthesized by Arc Discharge Method in Liquid Environment using some Transition Metal Oxide Elements such as Ni and Ni-Fe as Catalyst”

**Ali A Hosseini**, Fatemeh Bakhshiani

Paper 396: “Application of ZnO-MTCP Nanoparticles in Photodynamic Therapy for Breast Cancer Treatment in T47D Cell Line”

Seydeh Susan Sadjadpour, **Ghazaleh Rafatian**, Shahrokh Safarian and Seyed Jalal Zargar

Paper 411: “Nano Deformable Flexible Biodegradable Vesicles for Transdermal Delivery”

Hanan El Laithy, **Iman Ahmed**

Paper 431: “Nanoparticles as Controlled Drug Delivery Devices”

**Arezoo Ghadi**, Rabeah Mehravar, Mohsen Jahanshahi, Azad Sanaei

Paper 438: “Preparation and Characterization of Nylon 6/silver Nanocomposite Fibers for Permanent Antibacterial Effect”

Alireza Mirkazemi Moud, **Laleh Maleknia**, Majid Ghoreyshian, Seema Eshghi

Paper 443: “Study the Influential Parameters in Synthesis of T Type Zeolite by Hydrothermal Method for Effective Separation of Carbon Dioxide from Methane”

Mina Doroudian Rad, **Shohreh Fatemi**, Farhad Jadidi

Paper 447: “Preparation and Characterization of Nanostructured Vanadium Oxide Thin Films by hot Filament CVD”

A. Dhayal Raj, Q. Yang, D. Mangalaraj, **H.D. Wang**, A. Hirose

Paper 455: “The Synthesis of Nano-poly [2-(sec-Butyl) Aniline]; A Novel Conductive Chiral-Nano Polymer”

**Ali Reza Modarresi-Alam**, Fahimeh Movahedifar, Homeyra Alsadat Amirazizi, Maedeh Azaroun, Sakineh Zafari, Fazlollah Fathipour, Mokhtar Pashaei, Mohsen Beladi Mousavi

Paper 462: “Effect of Elliptically Polarized Laser Field on Optical Properties of Quantum Dot”

**Sanjay Tyagi**, S Lahon, M. Mohan

Paper 464: “Stability of Laser-Irradiated Gold Nanoparticles”

Daria Riabinina, Joelle Margot, **Jianming Zhang**, Mohamed Chaker, **Dongling Ma**

<p>Paper 465: <i>“Effect of Mn Content on the Structure of Doped Nanocrystallin Lithium Cobalt Oxide compound Derived by Freeze drying Method in Lithium Cells”</i>  <b>Shadi Houshyar Azar</b>, Seyed Masoud Seyedahmadian</p>
<p>Paper 481: <i>“In Situ Application of Nanoscale Zero-Valent Iron (NZVI) Based on FEROXSM Technology to Remove TCE from a Chosen Contaminated Site, a Cost Report”</i>  <b>Niloufar Pezeshk</b></p>
<p>Paper 483: <i>“Electrospinning of Gelatin Nanofiber for Biomedical Application”</i>  <b>Laleh Maleknia</b>, Zohayr Rezazadeh, Hossein Najdaki, Aazam Talebian, Seyed Alireza Mirkazemi Moud</p>
<p>Paper 485: <i>“Synthesis of Nanoporous Carbon Materials; Role of Surfactant Concentration and Salt on the Pore Size and Specific Surface Area”</i>  <b>Shokoofeh Geranmayeh, Alireza Abbasi</b>, Alireza Badieli</p>
<p>Paper 486: <i>“Fabrication of Nanostructured Superhydrophobic Copper: a One Step-Process”</i>  Y. Huang , <b>Dilip K. Sarkar</b>, X. G. Chen</p>
<p>Paper 487: <i>“Nanoporous Metal-Organic Framework [Zn(tp)(H<sub>2</sub>O)]; Hydrothermal Syntheses and Crystal Structure”</i>  <b>Alireza Abbasi, Shokoofeh Geranmayeh</b>, Alireza Badieli</p>
<p>Paper 490: <i>“Experimental Investigation on Ultrafine Particles Emission during Dry Machining Using Statistical Tools”</i>  <b>Abdelhakim Djebara</b>, Riad Khettabi, <b>Jules Kouam</b>, Victor Songmene</p>
<p>Paper 497: <i>“Nanopowder-Doped Silicone Rubber Coatings for Anti-Ice Applications”</i>  <b>Faranak Arianpour, Masoud Farzaneh</b>, Sergei Kulinich</p>
<p>Paper 499: <i>“Free Convection Heat Transfer of Nanofluids under Constant Wall Temperature Condition”</i>  Mamoud Reza Khadangi, <b>Seyed Gholamreza Etemad</b>, Roohollah Bagheri, Jules Thibault</p>
<p>Paper 501: <i>“Anti-Cancerous Effects of LaF<sub>3</sub>:Tb<sup>3+</sup> Nanoparticles on LNCaP Cell Line”</i>  <b>Ghazaleh Rafatian</b>, Seyedeh Susan Sajadpour, Shahrokh Safarian, Seyed Jalal Zargar</p>
<p>Paper 505: <i>“Heat Transfer of Nanofluids through Square Channel: a Numerical Study”</i>  <b>Seyed Gholamreza Etemad</b>, Mohammad Hojjat, Jules Thibault, Jan B. Haelssig</p>
<p>Paper 512: <i>“Characterization and Comparison of Tensile and Fracture Toughness Properties of High Performance Zinc Acrylate Epoxy Nanocomposites”</i>  Nooreddin Goodarzian, <b>Salma Zamirian</b></p>
<p>Paper 519: <i>“The Effect of Different Nanofillers on The Microstructure and Mechanical Properties of UP Nanocomposites”</i>  <b>Salma Zamirian</b>, Mostafa Ranjbar, Nooreddin Goodarzian</p>
<p>Paper 524: <i>“Risk Assessment of Long-Term Exposure to Coating Quantum Dots: An in Vitro Study”</i>  <b>Bergeron-Prévost Myrella</b>, Welman Mélanie, Hallé Stéphane, Maghni Karim</p>
<p>Paper 526: <i>“Piezoelectric and Dielectric Properties of Lead Zirconate Titanate/Polyvinylidene Fluoride/Silver Nanocomposites”</i>  <b>Ching-Ling Hsu</b>, Wei-Hsuan Han</p>
<p>Paper 527: <i>“Chitosan-CNT as an Electrically Conductive Material for Peripheral Nerve Repair”</i>  <b>Kuan-Yi Lee</b>, Pei-Ru Chen, Jui-Shen Sun, Ming-Hong Chen</p>
<p>Paper 538: <i>“Synthesis and Characterization of CuO-Stabilized Cubic Zirconia Nanoparticles”</i>  <b>Hossein Abdizadeh</b>, Yaser Vahidshad, Yaser Vahidshad, Hamid-Reza Baharvandi, Mahmoud Akbari-Baseri</p>

<p>Paper 539: <i>“Synthesis of Polypropylene-Adamantane Composite and Simulation of its Nanostructure using Molecular Dynamics”</i>  <b>Mohammad Amin Moradi, Ali Akbar Babaluo</b></p>
<p>Paper 551: <i>“Pulsed Electron Deposition and Characterization of Polytetrafluoroethylene”</i>  <b>Graeme Wilson</b>, Redhouane Henda, Joy Gray-Munro, Andrew M. McDonald</p>
<p>Paper 564: <i>“Design and Synthesis of Nanoparticle “Paint-Brush” Like Multihydroxyl Capped – Poly (Ethylene Glycol) Conjugates: Potential Candidate for Drug and Gene Delivery”</i>  <b>Sayed Mohammad Reza Mosavi</b>, Sepideh Khoee</p>
<p>Paper 566: <i>“On Magnetic Separation of Spheroidal Nanoparticles”</i>  <b>Pragati Mukhopadhyay</b>, Gautam Mukhopadhyay, Shruti Puri</p>
<p>Paper 575: <i>“Cellular Adaptation to Quantum Dots – Mechanisms and Mediators”</i>  <b>Kevin D Neibert</b>, Anja Kretzshmar, Dusica Maysinger</p>
<p>Paper 586: <i>“Improved Gelcasting and Cold Isostatic Press to Form Complex Micro- and Nano-Ceramic Articles”</i>  <b>Ahmad Amirshaghghi</b>, Mehrdad Kokabi</p>
<p>Paper 587: <i>“Synthesis of Magnetic Polyvinyl Alcohol Nanoparticles for Fast Adsorption of Pb(II) Ions from Water”</i>  <b>Marzieh Moradi, Seyed Gholamreza Etemad</b>, Ahmad Moheb</p>
<p>Paper 594: <i>“An Experimental Investigation on Pressure Drop of non-Newtonian Nanofluids Flowing through a Horizontal Circular Tube”</i>  <b>Mohammad Hojjat, Seyed Gholamreza Etemad</b>, Rouhollah Bagheri, Jules Thibault</p>
<p>Paper 595: <i>“Fast Adsorption of Cu(II) Ions from Water Magnetic Polyvinyl Alcohol Nanoparticles”</i>  <b>Marzieh Moradi, Seyed Gholamreza Etemad</b>, Ahmad Moheb</p>