

Tuesday

August 7

8:00 AM	Registration
9:00 AM – 9:20 AM	Official Opening of Conference
9:20 AM – 10:00 AM	Keynote Lecture 1: <i>Rolled-up Semiconductor Tubular Structures for Emerging Nanophotonic Applications</i> Zetian Mi
10:00 AM – 10:40 AM	Keynote Lecture 2: <i>Self-Assembly of Invertible Polymeric Micelles: New Promise for Polymer-Based Nanopharmaceuticals</i> Andriy Voronov
10:40 AM – 11:00 AM	Coffee Break
11:00 AM – 11:40 AM	Keynote Lecture 3: <i>Energy Storage Using Carbon Nanostructures</i> Sivaram Arepalli
11:40 AM – 12:20 PM	Keynote Lecture 4: <i>Fabrication of Metallic Nanostructured Materials; The Powder-Based Approach</i> Mathieu Brochu
12:20 PM – 1:30 PM	Lunch
1:30 PM – 3:30 PM	
Session Number 1 Session Name: Nanotechnology and Environment	Session Chairs: Dr. Luigi Manzo & Dr. Abdallah Oukarroum
1:30 PM – 1:50 PM	Paper 76: " <i>Dependence of Antibacterial Effect of the Size, Surface Ligands and Amount of Silver (Ag) Nanoparticles against Bacteria Isolated from Drinking water</i> " Toqeer Ahmed, Saba Imdad, Sumaira Ashraf, Noor Butt

Session Chairs: Dr. Jules Thibault & Dr. Frank Ko

1:50 PM – 2:10 PM	<p>Paper 171: <i>"Deposition of Titanium Dioxide Nanoparticle Aggregates in Granular Porous Media: Effect of pH and Ionic Strength"</i> Adamo R. Petosa, Faraz Rajput, Carolin Öhl, Spencer Brennan and Nathalie Tufenkji</p>
2:10 PM – 2:30 PM	<p>Paper 164: <i>"Nanoparticulate and Ionic Copper Have Similar Effects on Photosynthetic Activity: Achlorophyll Fluorescence Study"</i> François Perreault, Abdallah Oukarroum, Radovan Popovic, David Dewez</p>
2:30 PM – 2:50 PM	<p>Paper 292: <i>"Hydrogen Generation Using Cyclic Redox Reaction of Iron Oxide Coated with Foreign Oxide "</i> Shoji Hayashi</p>
2:50 PM – 3:10 PM	<p>Paper 62: <i>"Low-temperature NO Oxidation over Mn/TiO₂ Nanocomposite Synthesized by Chemical Vapor Condensation: Effects of Mn Precursor on the Surface Mn Species"</i> Jongsoo Jurng, Eunseuk Park, Sungmin Chin</p>
<p>Session Number 2 Session Name: Modeling and Simulation I</p>	
<p>Session Chairs: Dr. Kenneth Haug & Dr. Miron Kaufman</p>	
1:30 PM – 1:50 PM	<p>Paper 63: <i>"Analysis of Nanoparticle Size Distribution Using Small Angle X-ray Scattering"</i> Yi Zheng, Siyi Huang, Yuan Qu, Yun Ma</p>
1:50 PM – 2:10 PM	<p>Paper 106: <i>"Dynamic Performance of a Dielectric Elastomer-Based Nanobeam Resonator"</i> Chuang Feng, Liying Jiang</p>
2:10 PM – 2:30 PM	<p>Paper 332: <i>" Pressure Effects on Liquid-solid Interfacial Thermal Resistance"</i> Khaled Issa, Abdulmajeed Mohamad</p>
2:30 PM – 2:50 PM	<p>Paper 201: <i>"Adsorption Study of F- and Cl- Ions on Graphene Surface by Mechanics Quantum and Gaussian 98 Code"</i> Kamal Bakhshi</p>
2:50 PM – 3:10 PM	<p>Paper 268: <i>" An Investigation of the Long and Short Ranges Interactions in BCC and FCC Spherical Metallic Nanocrystals"</i> Esam H. Abdul Hafidh, Zaheer U, Lal S. Jan</p>
3:10 PM – 3:30 PM	<p>Paper 343: <i>"Monte Carlo Simulations of Magnetite Nanoparticles Stabilised With Sebacic Acid and 1, 10-Decanediol Surfactants"</i> Richard Harris, Poslet Shumbula</p>

Session Number 3 Session Name: Nanomedical Applications: Drug Delivery and Tissue Engineering I		Session Chairs: Dr. Andriy Voronov & Dr. Wankei Wan
1:30 PM – 1:50 PM	Paper 337: " <i>p53 and Itch Induce Chemosensitivity in Ovarian Cancer Cells</i> " Mohammad Reza Abedini , Benjamin Tsang	
1:50 PM – 2:10 PM	Paper 56: " <i>Towards a Magic Bullet against Malaria: Paul Ehrlich Revisited</i> " Ernest Moles, Patricia Urbán, Joana Marques, Juan José Valle-Delgado, Cinta Díez, Beatriz Prieto, Xavier Fernández-Busquets	
2:10 PM – 2:30 PM	Paper 329: " <i>Laser Micronization of Beclomethasone Dipropionate: Proof-of-concept for Pulmonary Drug Discovery</i> " Weimeng Ding , Jean-Philippe Sylvestre, Grégoire Leclair, Michel Meunier	
2:30 PM – 2:50 PM	Paper 248: " <i>Carbon Nanotubes-Poly (hydroxyalkanoates) Semiconductive Bionanocomposites to Promote Nerve Repair</i> " José Manuel García García , María del Mar Bernal Ortega, Raquel Verdejo Marquez, Miguel Ángel López Manchado, Leoncio Garrido Fernández, Isabel Quijada Garrido	
2:50 PM – 3:10 PM	Paper 67: " <i>Structural, Compositional and Cell-adhesion Properties of 3D Electrospun Biospan® nano-fibrous Mats with Plasma-polymer Coatings</i> " Houman Savoji , Saoussen Berrahmoune, Faheem Arjamend Sheikh, Javier Macossay, Sophie Lerouge, Abdellah Aji, Michael R. Wertheimer	
3:10 PM – 3:30 PM	Paper 125: " <i>Toxic Effect of Orally Administrated Zinc Oxide Nanoparticles On Rat's Lung</i> " Howaida Nounou , Hala Attia, Manal Shalaby, Maha Arafah	
3:30 PM – 3:50 PM	Coffee Break	
3:50 PM – 5:50 PM		
Session Number 1 Session Name: Nanomaterials and Nanodevices: Fabrication, Characterization and Application I		Session Chairs: Dr. Sivaram Arepalli & Dr. Julien Fatisson
3:50 PM – 4:10 PM	Paper 333: " <i>Patterning of Porous Silicon Nitride Membrane by CsCl Self-assembly</i> " Wenhan Liu, Mark Ferguson, Mustafa Yavuz, Bo Cui	

4:10 PM – 4:30 PM	Paper 321: <i>"Negative Differential Resistance in GaN/AlN Heterostructure Nanowires"</i> Andy Shih , Saeed Fatholouloumi, Zetian Mi
4:30 PM – 4:50 PM	Paper 290: <i>"Surface functionalization of silver nanoparticles as conductive fillers in adhesive nanocomposites"</i> Behnam Meschi Amoli , Boxin Zhao, Anming Hu, Y. Norman Zhou
4:50 PM – 5:10 PM	Paper 71: <i>"Magnon-oscillation Microwave Sensors for Submicron Material Characterization: Application to Biology and Nanotechnology"</i> Roman Joffe, Eugene Kamenetskii , Reuven Shavit
5:10 PM – 5:30 PM	Paper 109: <i>"Towards an Integrated and Adaptive Risk Assessment Tool for Engineered Nanoparticles"</i> Julien Fatisson , Stéphane Hallé, Sylvie Nadeau, Barthélemy Ateme-Nguema, Claude Viau, Michel Camus, Yves Cloutier
Session Number 2 Session Name: Nanofibers	
Session Chairs: Dr. Frank Ko & Dr. Audrey Moores	
3:50 PM – 4:10 PM	Paper 311: <i>"Properties of PVDF/TiO2 Nano-fibrous Membranes"</i> Wuyi Zhou, Frank Ko , Addie Bahi, Heejae Yang, Nastasia König, Pierre Berube, Benoit Barbeau
4:10 PM – 4:30 PM	Paper 336: <i>"Nanomechanics of Electrospun Poly (Caprolactone) Nanofibres"</i> Sara Makaremi , Ying Li, Wankei Wan
4:30 PM – 4:50 PM	Paper 322: <i>"Ammonium Chloride Promoted Synthesis of Carbon Nanofibers from Electrospun Cellulose"</i> Olga Naboka , Volodymyr Kuzmenko, Peter Enoksson, Paul Gatenholm
4:50 PM – 5:10 PM	Paper 297: <i>"Superionic Conductivity and g-Radiation-Induced Effects in Nanofibrous TlGaTe2 Crystals"</i> Rauf Sardarly, Oktay Samedov, Arzu Sardarli , Nurana Aliyeva, Rayiha Aqayeva, and Turana Musazade
5:10 PM – 5:30 PM	Paper 223: <i>"Shear Strength of Nano-reinforced Concrete"</i> Pierre Van Tonder
Session Number 3 Session Name: Nanobiotechnology	
Session Chairs: Dr. Mohammad R. Abedini & Dr. Xavier Fernández-Busquets	

3:50 PM – 4:10 PM	Paper 238: " <i>Metallic Nanoparticle Assemblies for Protein and Immunological SERS Assays</i> " Nekane Guarrotxena
4:10 PM – 4:30 PM	Paper 98: " <i>Compressed Splitting and “Dynamic Instability” of Microtubules</i> " Ming Zhao Jin , Chong Qing Ru
4:30 PM – 4:50 PM	Paper 65: " <i>Nanoencapsulation of Silver-Based Antimicrobial Drugs</i> " Jacinthe Gagnon , Katharina M. Fromm
4:50 PM – 5:10 PM	Paper 74: " <i>The Effect of Osteocalcin Derived Peptides on the Apatite Nanocrystal Formation</i> " Samaneh Hosseini, Hossein Naderi Manesh, Driss Mountassif, Hojatollah Vali, Shahabeddin Faghihi
5:10 PM – 5:30 PM	Paper 99: " <i>Carbon Nanotube Composite Filter</i> " Hamed Parham , Steven Bates, Yongde Xia, Yanqiu Zhu
5:30 PM – 5:50 PM	Paper 303: " <i>Novel Biomolecular Sensing Colorimetric Method via Coupling DNA-based Recognition with Unmodified Gold Nanoparticles</i> " Fateme Fekrmandi, Kaveh Habibi , Sara Ebrahimi

Wednesday

August 8

9:00 AM – 9:40 AM	Keynote Lecture 5: <i>Molecular Isolation on the Nanoscale</i> Joshua B. Edel	Session Chair: Dr. Dave Blank
9:40 AM – 10:20 AM	Keynote Lecture 6: <i>Embedded Binary Eutectic Alloy Nanostructures</i> Daryl C. Chrzan	
10:20 AM – 10:40 AM	Coffee Break	
10:40 AM – 12:20 PM	Nanotechnology Safety and Standards Panel Discussion	
12:20 PM – 1:30 PM	Lunch	
1:30 PM – 3:30 PM		
Session Number 1 Session Name: Nanofluids and Energy		Session Chairs: Dr. Mohamed Ali & Dr. Jongsoo Jung
1:30 PM – 1:50 PM	Paper 72: <i>"Effect of Reaction Temperature and Time on Synthesis of CuInSe₂ Nanopowders through a Solvothermal Process"</i> Alireza Khanaki , Hossein Abdizadeh, Mohammadreza Golobostanfard	
1:50 PM – 2:10 PM	Paper 315: <i>"The Effect of Carbon Morphology on LiCoO₂ Cathodes of Lithium Ion Batteries"</i> Nam Hee Kwon , Katharina M. Fromm	
2:10 PM – 2:30 PM	Paper 221: <i>"Numerical Investigation on Forced Convection Heat Transfer of Nanofluids through Isosceles Triangular Ducts"</i> M. R. Ghavam, M. Hojjat, S. Gh. Etemad	
2:30 PM – 2:50 PM	Paper 222: <i>"Pressure Drop of Nanofluids in Isosceles Triangular Channels: a Numerical Study"</i> M. R. Ghavam, M. Hojjat, S. Gh. Etemad	

2:50 PM – 3:10 PM	Paper 184: <i>"The Effect of Using Al₂O₃-Water Nanofluid as a Coolant in Vehicles Radiator"</i> Mohammad Ali , Abdelrahman Elleathay, Ziad Al-Sofyany
3:10 PM – 3:30 PM	Paper 249: <i>"Tunable Optical Filtration Using Liquid Nanofluids"</i> Robert Taylor , Todd Otanicar, Gary Rosengarten, Evatt Hawkes, Sylvain Coulombe
3:30 PM – 3:50 PM	Paper 219: <i>" Numerical Study on Mixed Convection in an Enclosure Filled with Nanofluid"</i> Mojtaba Tahani, Mohammad Mehdi Ghasemi, Mohammad Hassan Shojaeefard, Mohammad H. Sabour
Session Number 2 Session Name: Nanoelectronics	
Session Chairs: Dr. Kaiying Wang & Dr. Robert Taylor	
1:30 PM – 1:50 PM	Paper 199: <i>" Carbon Nanotubes Decorated with Silver Nanoparticles: Transport, Electronic Structure, Structure around the Fermi Level, Atomic Structure"</i> Nikolay Delibozov
1:50 PM – 2:10 PM	Paper 280: <i>"Back-end-of the Line Compatible Homogeneous Coating of Vertical Aligned Carbon Nanotubes with a Conductive Diffusion Barrier for Interconnect Applications"</i> Holger Fiedler , Ramona Ecke, Sascha Hermann, Stefan E. Schulz, Thomas Gessner
2:10 PM – 2:30 PM	Paper 274: <i>" Application of Nanotechnology in High Frequency and Microwave Devices"</i> Parisa Moslemi , Gholamreza Askari, Shamsoddin Mohajerzadehc, Hamid Mirmohammad Sadeghi
2:30 PM – 2:50 PM	Paper 289: <i>"A Nano-transistor Based on Gate-induced Thermal Switching"</i> Jérôme Bürki , Charles A. Stafford, Daniel L. Stein
2:50 PM – 3:10 PM	Paper 47: <i>"A Green Approach to Fabricate CuO Nanoparticles from Low Cost Raw Materials"</i> Mohammad Amin Baghchesara, Hossein Abdizadeh , Ali Tadjrishi
3:10 PM – 3:30 PM	Paper 202: <i>" Through Silicon Vias for Piezoelectric Transducers"</i> Gholamreza Mirshekari , Martin Brouillette, Luc G. Fréchette
Session Number 3 Session Name: Nanotechnology and Polymer I	
Session Chairs: Dr. D. Chrzan & Dr. Ahmad Ramazani S. A.	

1:30 PM – 1:50 PM	Paper 55: " <i>Effect of Functionalized Polyethylenes on Clay Dispersion of High Density Polyethylene Nanocomposites</i> " Saul Sanchez Valdes , Eduardo Ramirez, Luis Ramos, Juan Martinez, Dimas Mendoza, Maria Lopez
1:50 PM – 2:10 PM	Paper 6: " <i>A Review on Mechanical Reinforcement Effect in Nano-Structured Polymer Materials</i> " Mina Abbasipour , Marjan Abbasipour, Ramin Khajavi Paper
2:10 PM – 2:30 PM	Paper 183: " <i>Dynamics of a Linear Polymer in a Creeping Flow</i> " Prasenjit Bose, Petru S. Fodor, Miron Kaufman
2:30 PM – 2:50 PM	Paper 105: " <i>Preparation of Polypropylene/silica Nanocomposites via In-situ Bi-supported Ziegler-Natta Catalyst Polymerization and Investigation of Product Properties</i> " Bahareh Azinfar, Narjes Jafari Esfad, Ahmad Ramazani S.A
2:50 PM – 3:10 PM	Paper 113: " <i>Preparation of Ultra High Molecular Weight Polyethylene/Carbon black Nanocomposites Using In-situ Method</i> " Alaleh Sadrani, Ahmad Ramazani S.A.
3:30 PM – 3:50 PM	Coffee Break
3:50 PM – 5:30 PM	
Session Number 1 Session Name: Nanomaterials and Nanodevices: Fabrication, Characterization and Application II	Session Chairs: Dr. Wen-Yao Huang & Dr. Mohammad Mehdi Jalili
3:50 PM – 4:10 PM	Paper 44: " <i>Reservoir Characteristics Determination by the use of the Coupled S.E.M (Scanning Electron Microscope) and M.I.C.P (Mercury Injection: Case of tight reservoirs)</i> " M. S. Benzagouta , Khalid Elyas Al Khidir, Wimpy Karnanda
4:10 PM – 4:30 PM	Paper 328: " <i>A Study on the Effect of Maleic Anhydride Modification on Morphology of Sio₂/Cellulose Acetate Butyrate Biodegradable Nanocomposites</i> " Mohammad Mehdi Jalili , Meysam Hatami, Javad Abedi, Erfan Forghani, Reza Karimi
4:30 PM – 4:50 PM	Paper 341: " <i>Fabrication of Tilted Nano-pillar and Nano-hole Arrays by Electron Beam Exposure</i> " Jian Zhang, Babak Shokouhi, Bo Cui
4:50 PM – 5:10 PM	Paper 167: " <i>Cobalt Ferrite Nanoparticles Prepared by Combustion Method and Their Magnetic Characterization</i> " Ahmad Yazdani , Mehdi Ghazanfari

5:10 PM – 5:30 PM	Paper 243: " <i>Electrocatalytic Sensing of Nitrate at Cu Nanosheets Electrodeposited on WO₃/Polyaniline Modified Electrode</i> " Ben Xue Zou, Xiaoxia Liu
Session Number 2 Session Name: Nanomedical Applications: Drug Delivery and Tissue Engineering II	
Session Chairs: Dr. Björn Petri & Dr. Shahabeddin Faghihi	
3:50 PM – 4:10 PM	Paper 334: " <i>Cell Culture Study on Electrospun Poly (vinyl alcohol) Fibrous Scaffold for Tissue Regeneration Application</i> " Jian Liu, Kenneth Wong, Martin Zinke-Allmang, Wankei Wan
4:10 PM – 4:30 PM	Paper 340: " <i>RF Heating Characteristics and Magnetic Properties of Solid Colloidal FePt Nanoparticles</i> " Anna Lukawska , Zafrullah Jagoo, Gregory Kozlowski, Zafer Turgut, Hiroyuki Kosai, Alexander Sheets, Tyler Bixel, Andrew Wheatley
4:30 PM – 4:50 PM	Paper 317: " <i>Neural Stem Cell Expansion and Differentiation on Electrospun Pla Nano/ Micro Fibers</i> " Afra Hadjizadeh, Rouwayda El Ayoubi, Abdellah Ajji, Jan-Eric Ahlfors, Mario Jolicoeur, Loic Binan
4:50 PM – 5:10 PM	Paper 278: " <i>Development and Characterization of Chitosan-Voriconazole Loaded Nanoparticles</i> " Farid Abedin Dorkoosh, Sahar Mohammadzadeh , Shadab Shahsavari
5:10 PM – 5:30 PM	Paper 66: " <i>Oxidative Stress Evaluation in Rat Lung after Intratracheal Instillation of Silica Nanoparticles Doped with Cadmium</i> " Teresa Coccini, Elisa Roda, Luigi Manzo , Sergio Barni, Cinzia Signorini
Session Number 3 Session Name: Nanotechnology and Coating I	
Session Chairs: Dr. Nam Hee Kwon & Dr. S. Jalal Hashemi	
3:50 PM – 4:10 PM	Paper 284: " <i>Nanostructured Dual-oxide Cermet Coatings- Study of Effects of Co-electrodeposition Parameters on Coat Thickness</i> " Mohammad Ali Farrokhzad , T. I. Khan
4:10 PM – 4:30 PM	Paper 257: " <i>Water and Ice Repellency of Plasma Polymerized Nano-structured HMDSO Coatings on Aluminium Oxide</i> " Ladan Foroughi Mobarakeh , Reza Jafari, Maoud Farzaneh

<p>4:30 PM – 4:50 PM</p>	<p>Paper 258: " <i>Nano-rough Hydrophobic PTFE Coating: Effect on Ice Adhesion Strength</i>" Zahira Ghalmi, Richard Menini, Maoud Farzaneh</p>
<p>4:50 PM – 5:10 PM</p>	<p>Paper 276: " <i>Nanostructured Ultra Superhydrophobic Al Alloy Surfaces: Stability and Icephobic Properties</i>" Shahram Farhadi, Masoud Farzaneh, Stephan Simard</p>
<p>5:10 PM – 5:30 PM</p>	<p>Paper 282: " <i>Biomimetic Micro-Structured Surfaces: Pattern Transfer and Fabrication of Icephobic Epoxy Surfaces</i>" Brendan McDonald, Boxin Zhao</p>

Thursday

August 9

9:00 AM – 9:40 AM	Keynote Lecture 7: <i>Nano Materials for Photo-Mechanical Actuators</i> Hongrui Jiang	Session Chair: Dr. Thomas Brown
9:40 AM – 10:20 AM	Keynote Lecture 8: <i>High Rate Electrochemical Capacitors from Three - Dimensional Arrays of Vanadium Nitride Functionalized - Carbon Nanotubes</i> David Mitlin	
10:20 AM – 10:40 AM	Coffee Break	
10:40 AM – 12:20 PM	Poster Session ⁱ	
10:40 AM – 12:20 PM		
Session Number 1 Session Name: Nanotechnology and Coating II		Session Chairs: Dr. Xiao-Xia Liu & Dr. Gholamreza Mirshekari
10:40 AM – 11:00 AM	Paper 218: <i>"Anisotropic Plasmonic Nanostructure Synthesis and Optical Properties by Using Silver Nanoprism Template-engaged Technique"</i> Mohammad Mehdi Shahjamali , Michel Bosman, Lisha Yin, Freddy Boey Yin Chiang, Can Xue	
11:00 AM – 11:20 AM	Paper 9: <i>"Reflective Behaviour of Brown Printed Cotton/Polyester by Titanium Dioxide and Carbon Black"</i> Mina Abbasipour , Ramin Khajavi, Maryam Abbasipour	
11:20 AM – 11:40 AM	Paper 188: <i>"Co-precipitation Synthesis of Dextran-coated Magnetite (Fe₃O₄) Nanoparticles for Biomedical Applications"</i> Ahmad Yazdani , Fateme Karami	
11:40 AM – 12:00 PM	Paper 330: <i>"Nano-Layers of Nitride Semiconductors Grown by MEAGlow Technology and Their Low-Dimensional Optical Absorptions"</i> Dimiter Alexandrov	

12:00 PM – 12:20 PM	Paper 217: <i>"Membrane Fabrication of SAPO-34 by Different Seeding Methods on Alumina Supports"</i> Shohreh Fatemi, Zeynab Jabbari, Seyed Jalal Hashemi Aghchebadi
Session Number 2 Session Name: Nanomaterials and Nanodevices: Fabrication, Characterization and Application III	
Session Chairs: Dr. David Mitlin & Dr. Arzu Sardarli	
10:40 AM – 11:00 AM	Paper 166: <i>"Nonlinear Size Dependent Response of CdSe Nanocrystals in Strong Confinement by Using Z-scan Techniques"</i> Ahmad Yazdani , Zohre Shadrokh
11:00 AM – 11:20 AM	Paper 299: <i>"Design and Synthesis of Imine Linked Tripodial Receptor and Capped on ZnO Nanoparticles: A Ratiometric Approach"</i> Hemant Sharma , Navneet Kaur, Narinder Singh
11:20 AM – 11:40 AM	Paper 275: <i>"Shape-controlled Synthesis of Faceted Shaped Metal Sulphide Nanocrystals"</i> Ayorinde Nejo , Adeola Nejo, Neerish Revaprasadu
11:40 AM – 12:00 PM	Paper 180: <i>"Electrospinning of Bioethanol Lignin for Nanomaterial Production"</i> Vida Poursorkhabi , Manjusri Misra, Amar K. Mohanty
12:00 PM – 12:20 PM	Paper 168: <i>"Effect of Ultrasonic Waves Route Synthesis on the Magneto Crystalline Structure Cobalt Ferrite Nanoparticles"</i> Behrad Barakati , Ahmad Yazdani
Session Number 3 Session Name: Modeling and Simulation II	
Session Chairs: Dr. Esam H. Abdul Hafidh & Dr. Jérôme Bürki	
10:40 AM – 11:00 AM	Paper 279: <i>"Atomistic Simulation of Carbon Nanotube Pull-Out Test"</i> Steffen Hartmann , Ole Hölck, Bernhard Wunderle
11:00 AM – 11:20 AM	Paper 124: <i>"Representation of Heterogeneity in "Single Collector Efficiency" Equation for Multi Walled Carbon Nano Tubes"</i> Sara Mehrabi , William Milne-Home
11:20 AM – 11:40 AM	Paper 97: <i>"Microwave Magnetolectric Near Fields for Nanotechnology"</i> Eugene Kamenetskii

11:40 AM – 12:00 PM	Paper 326: <i>"Three-phonon Interaction Assessment in Bulk Silicon"</i> Thomas W. Brown III , Edward C. Hensel
12:00 PM – 12:20 PM	Paper 260: <i>"An Energy Based Model for Hysteresis in Ferroelectric Materials"</i> Meimanat Keshavarz Motamedi , Moharam Habibnejad Korayem
12:20 PM – 12:40 PM	Paper 216: <i>"Modelling and Comparison Ultrafine SAPO-34 Core-shell Adsorbent with SAPO-34 Particles in Cyclic Adsorption Process for Purification of Natural gas from CO₂"</i> Shohreh Fatemi, Saeed Mahzoon, Seyed Jalal Hashemi Aghchebadi
12:20 PM - 1:30 PM	Lunch
1:30 PM – 3:30 PM	Poster Session ⁱ
1:30 PM – 3:30 PM	
Session Number 1 Session Name: Nanotechnology and Polymer II	Session Chair: Dr. Ahmad Ramazani S. A.
1:30 PM – 1:50 PM	Paper 271: <i>"Theory and Modelling of Uniform Flow Effects on Spinodal Decomposition of Compressible Polymer Solutions"</i> Ghoncheh Rasouli , Alejandro D. Rey
1:50 PM – 2:10 PM	Paper 265: <i>"Miscibility Predictions of Polyethylene in Hydrocarbon Solvents at Elevated Pressure Conditions using Molecular Dynamics"</i> Moeeed Shahamat , Alejandro Rey
2:10 PM – 2:30 PM	Paper 178: <i>"Investigation of Creep and Recovery Behavior of PA6/ABS Nanocomposites"</i> Azim Mojarrad, Ahmad Ramazani S.A. Ismaeel Ghasemi, Ali Vaziri
2:30 PM – 2:50 PM	Paper 161: <i>"Nonlinear Vibration of Embedded Carbon-based Nanostructures"</i> Mohammad Hadi Mahdavi , Liying Jiang, Xueliang Sun
Session Number 2 Session Name: Nanocatalysis	Session Chairs: Dr. Jesus Morales & Dr. Bo Cui

1:30 PM – 1:50 PM	Paper 120: " <i>Study the Electrocatalytic Behaviour of Pt-Pd Modified TiO₂ Nanotubes Oxidation of Dopamine</i> " Sara Sadat Mahshid , Sahar Sadat Mahshid, Masoud Askari
1:50 PM – 2:10 PM	Paper 325: " <i>Synthesis and Characterization of Fe-doped TiO₂ Nanoparticles and Application for Zn²⁺ Reduction from Aqueous Solution</i> " Reyad AlShawabkeh
2:10 PM – 2:30 PM	Paper 173: " <i>Catalytic Activity of Pt/Ni Nanowires: Study the Glucose Oxidation in Alkaline Solution</i> " Sahar Sadat Mahshid, Sara Sadat Mahshid , Abloghasem Dolati
2:30 PM – 2:50 PM	Paper 318: " <i>Copper-Iron-Oxide Nanoparticles as Magnetically Recoverable Catalysts for the Biginelli Condensation</i> " Reuben Hudson, Julian Silverman, Ciprian M. Cirtiu, Chao-Jun Li, Audrey Moores
Session Number 3 Session Name: Nanomaterials and Nanodevices: Fabrication, Characterization and Application IV	
Session Chairs: Dr. Mohammad Said Benzagouta & Dr. Meissam Noroozifar	
1:30 PM – 1:50 PM	Paper 108: " <i>The Multi-Wall Carbon Nanotube Film Sensor for In-Plane Strain Detection</i> " Yu Miao , W. J. Zhang, Q. Q. Yang, R. Sammynaiken
1:50 PM – 2:10 PM	Paper 308: " <i>Self-Assembled Rosette Nanotube Encapsulate Single-Walled Carbon Nanotubes</i> " Jae-Young Cho , Juan G. Duque, Stephen Doorn, Sriya Das, Micah Green, Hicham Fenniri
2:10 PM – 2:30 PM	Paper 347: " <i>The Effect of Grain Size on Deformation of Nickel Micro-scale Cantilever Bend Tests</i> " James Edward Darnbrough , Sunthar Mahalingam, P E J Flewitt
2:30 PM – 2:50 PM	Paper 312: " <i>Surface Enhanced Raman Spectroscopy (SERS) on Chloro and Thiol-Triazine Molecules, Using Pd(0)-Ag(0) Nanoparticles As Supports</i> " María del Rocío Redón de la Fuente , Alejandro Hernández-Serrano, Allison Jiménez-Zárate
2:50 PM – 3:10 PM	Paper 35: " <i>Investigation of the Influence of Nano-Silica on Fresh Properties and Rheology of Grouts</i> " Mohammed Sonebi , Ammar Yahia, Patrick Carr

3:10 PM – 3:30 PM	<p>Paper 227: "<i>Experimental Investigation on Damping of Nanocomposite Laminated Beam Structures</i>" Mohammad Sabour, Mohammad H. Pol, Abolghasem Zabihollah, Shahin Zareie</p>
3:30 PM – 3:50 PM	<p>Paper 307: "<i>Swelling of Protective Gloves in Commercial TiO₂ Nanoparticles Colloidal Solutions</i>" Ludwig Vinches, Yousra Boulebnane, Patricia Dolez</p>

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

Poster Session

August 9

10:40 AM – 12:20 PM

Paper 42: *"Antibacterial Silver/polylactic Acid Nanocomposites"*

Masoud Frouchi, Maryam Golestani, Susan Dadbin

Paper 61: *" One-step Synthesis of Mesoporous MnOx/TiO2 Catalyst Nanomaterials by Modified Chemical Vapor Condensation"*

Eunseuk Park, Sungmin Chin, **Jongsoo Jurng**

Paper 75: *"Fabrication and Characterization of ZnTiO3 Films: Electrochemistry, Photoelectrochemistry and Photocatalytic Properties"*

Maryam Mikhak, Mahmoud Zendeheel, Mohammad Hossein Habibi

Paper 102: *"Comparing Nitric Acid and Hydrochloric Acid as Catalyst for Preparing Titania Thin Films"*

Mohammad Reza Golobostanfard, **Hossein Abdizadeh**

Paper 107: *" Preliminary Studies Using Nanoparticles as Future Tools to Image the Immune System in vivo"*

Björn Petri, Wong Connie H. Y., Lee Woo-Yong, Kubes Paul

Paper 111: *"Study of Capacitive Properties of Carbon Materials for Capacitive Deionization Application"*

Po-I Liu, Li-Ching Chung, Min-Chao Chang, Hsin Shao, Meng-Shun Huang, Ren-Yang Horng, Ming-Yu Yen, Chen-Chi M Ma

Paper 115: *"Optimization of a Double Functionalized Carbon Nanotube: an Efficient Tool to Transfect Mammalian Cells"*

Hanieh Moradian, Hamidreza Fasehee, Hamid Keshvari, **Shahab Faghihi**

Paper 127: *"Finite Mobility and Different Exciton Dissociation Lifetime Effects on Transport in an Organic Solar Sell"*

Ali Shahini, **Neda Etebari Alamdari**

Paper 128: *"Effect of Coupling Constant between Excitons and Charge Carriers on Short Circuit Current Density Inside an Organic Solar Cell"*

Neda Etebari Alamdari, Ali Shahini

Paper 163: *"Cytotoxicity Effect of Silver Nanoparticles in Green Alga Chlorella Vulgaris Determined by Flow Cytometry Parameters"*

Abdallah Oukarroum, François Perreault, Laura Pirastru, David Dewez

Paper 172: "*Nanoparticles of $Y_2O_3: Eu^{2+}$: Synthesis and Photoluminescence Properties*"
A. Fernández-Osorio, J. Chávez-Fernández, A. Vázquez-Olmos

Paper 176: "*Eu(III) Complexes-Incorporated Silica Nanoparticles as Fluorescent Nanomaterials*"
Yong-Kwang Jeong, Jun-Gill Kang

Paper 178: "Investigation of Creep and Recovery Behavior of PA6/ABS Nanocomposites"
Azim Mojarrad, **Ahmad Ramazani S.A.** Ismaeel Ghasemi, Ali Vaziri

Paper 179: "*Influences of Novel Nano-Carbon Enhanced-Fertilizer on Super-Wheat Yield*"
Jian Liu, Yun Ma, Runxing Jiao, Xiaoli Liu, Zhiming Zhang, **Yun Ma**

Paper 182: "*Proper structure of polyurethane electrospun nanofibrous material for bacteria removal from wastewater*"
Jaroslav Lev, Marek Holba, Libor Kalhotka, Premysl Mikula, Dusan Kimmer

Paper 214: "*Multifunctionality of Nanofibrous Membranes Containing Metal Oxide*"
Seungsin Lee, Kyung Lee

Paper 225: "*TCO-less Photo-electrochemical Cells with TiO₂ Nanolayers Prepared by Sputtering, Sol Gel and Dip Coating Methods*"
Byung-Ho Moon, D. J. Kwak, Y. M. Sung, C. H. Han

Paper 226: "*Electrochemical Luminescence Cell with Titanium Oxide Nanotubes Prepared by Anodizing Method*"
Bong-Hyun Joo, Y. M. Sung, M. W. Park, D. Akbar

Paper 228: "*Dye-sensitized Solar Cells with Hills-like Hierarchical Structured TiO₂ Photoanodes*"
Wen-Yao Huang, Yen-Chen Shih

Paper 229: "*Ultrasound Assisted Co-Precipitation Synthesis of Perovskite-Type Lanthanum–Iron-Oxide LaFeO₃ Nanoparticles Using Oleic Acid as Surfactant*"
Mozhgan Khorasani Motlagh, **Meissam Noroozifar**, Akram Ahanin-Jan

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Paper 240: "*Effect of Multiwall Carbon Nanotube on Thermal Stability of UHMWPE/MWCNT Nanocomposite*"
Jafar Shariati, **Ahmad Ramazani S.A.**, Farhad Khorasheh

Paper 256: "*Ice-Repellent Properties of TiO₂-Doped Silicon Rubber Coatings*"
Faranak Arianpour, Masoud Farzaneh

Paper 262: "*Investigation on Nano Tube Effect on Rheological Properties of Polypropylene/ Multi wall Carbon Nano Tube Nanocomposites*"
Narjes Jafari Esfad, **Ahmad Ramazani S.A.**, Bahare Azinfar

Paper 263: "*Simulation of Anisotropic Wet Etching by Study on Atomistic Model*"
Naser Kordani, **Seyed Ali Sadough Vanini**

<p>Paper 264: "<i>Microscopic Activation Energies for Some Typical Surface Atoms by Study on Atomistic Model</i>" Naser Kordani, Seyed Ali Sadough Vanini</p>
<p>Paper 270: "<i>Fracture Behavior of Alumina/Silicon Carbide Nano Ceramic</i>" Naser Kordani, Seyed Ali Sadough Vanini, Ali Asadi, Amin Jabbari</p>
<p>Paper 272: "<i>Synthesis, Characterization and Evaluation of 1-D Yttrium Oxide Nanophosphors</i>" Jesus Morales, Anatolio Martinez, Pedro Salas, Luis Díaz</p>
<p>Paper 281: "<i>Ultrathin Organic Layers on Au and Si Surfaces by Electro-chemical Reduction of Halogenated Aryl Diazonium Salts</i>" Xin Zhang, Vitali Syritski, Jekaterina Reut, Karsten Hinrichs, Joerg Rappich</p>
<p>Paper 283: "<i>Angle of the failure Cone of Nanoceramic/metal Laminated Composite in the Impact Test</i>" Naser Kordani, Seyed Ali Sadough Vanini, Ali Asadi</p>
<p>Paper 285: "<i>Computational Study of Double Wall TiO₂ Nanotube Energies</i>" Kenneth Haug, William Isley</p>
<p>Paper 300: "<i>Ultraviolet Photodetector Translated from Crystalline TiO₂ Nanotube Arrays</i>" Waqas Ahmad, Guohua Liu, Nils Hoivik, Kaiying Wang</p>
<p>Paper 305: "<i>Grafting of Poly [1-(N,N-bis-carboxymethyl)amino-3-allylglycerol Codimethylacrylamide] Copolymer onto Nano Graphite Support for Preconcentration and Determination of Ephedrine in Human Plasma and Biological Samples</i>" Mohammad Reza Morovvati, Atefeh Alimadadi, Seyed Ali Sadough Vanini, Naser Kordani</p>
<p>Paper 309: "<i>Montmorillonite Nanocomposite for Oral Controlled Delivery of Donepezil</i>" Naser Tavakoli, Jaleh Varshosaz, Motahareh Abbasi Niko</p>
<p>Paper 324: "<i>Nano-size Effects in Hg_{1-x}CdxTe/CdTe Quantum Nanostructure Lasers</i>" Fatima Zohra Mami, Naouel Mokdad, Abderrahmane Kadri, Karima Zitouni</p>
<p>Paper 331: "<i>Electron Non-Zone Effective Mass in 2-D Structures</i>" Dimiter Alexandrov</p>
<p>Paper 335: "<i>Trifluoroacetic Acid Facilitates the Production of Nano/micro Electro-spun PLA Fibers</i>" Afra Hadjizadeh, Abdellah Ajji, Tanit Haddad</p>
<p>Paper 344: "<i>Thermal Method for Synthesizing CGS-CIS Nanoparticles for Application in Solar Cell Absorbers</i>" Sayed Hadi Mousavi, Thomas Müller, Peter William de Oliveira</p>
<p>Paper 348: "<i>Effect of Nano-TiO₂ Particles on the Corrosion Behavior of Chromium-based Coatings</i>" Meissam Noroozifar, Mozghan Khorasani–Motlagh, Zahra Yavari</p>