

Conference Program

2nd August

6:30pm to 8:30pm

1st Nano Today Conference Registration and Cocktail Reception

Venue: Royal Plaza on Scotts Hotel

3rd August

8:30am to 9:30am

Conference Registration and Breakfast

Venue: Level 2 Foyer, The Matrix, Biopolis

9:30am to 9:45am

Opening Address by 1st Nano Today Conference Chair, Prof Jackie Y. Ying

9:45am to 10:30am

Plenary Lecture by Professor Herbert Gleiter, Institute of Nanotechnology, Research Center Karlsruhe, Germany

Venue: Auditorium, Level 2, The Matrix, Biopolis

10:30am to 12:15pm

Scientific Sessions and Exhibition

Venue: Breakthrough and Creation Theatrettes, Level 4, The Matrix, Biopolis

12:15pm to 1:30pm

Lunch and Poster Session I

Synthesis and Self-Assembly of Thin Films

Synthesis and Self-Assembly of Nanocrystals/Nanoparticles

Venue: Level 4 Foyer, The Matrix, Biopolis

1:30pm to 5:30pm

Scientific Sessions and Exhibition

Venue: Breakthrough, Creation and Exploration Theatrettes, Level 4, The Matrix, Biopolis

5:30pm to 6:45pm

Reception and Poster Session II

Functionalization and Size-Dependent Properties of Nanocrystals, Quantum Dots and Nanowires

Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications

Venue: Level 4 Foyer, The Matrix, Biopolis

4th August

9:00am to 9:30am

Conference Registration and Breakfast

Venue: Level 2 Foyer, The Matrix, Biopolis

9:30am to 10:15am

Plenary Lecture by Professor C. N. R. Rao, Jawaharlal Nehru Centre for Advanced Scientific Research, India

Venue: Auditorium, Level 2, The Matrix, Biopolis

10:15am to 12:00pm

Scientific Sessions and Exhibition

Venue: Breakthrough and Exploration Theatrettes, Level 4, The Matrix, Biopolis

12:00pm to 1:15pm

Lunch and Poster Session III

Processing and Templating of Nanotubes and Nanoporous Materials

Tailoring of Polymeric Nanoparticles, Organic-Inorganic Nanocomposites and Biohybrids

Design and Engineering of Structural and Functional Nanomaterials

Venue: Level 4 Foyer, The Matrix, Biopolis

1:15pm to 5:45pm

Scientific Sessions and Exhibition

Venue: Breakthrough, Creation and Exploration Theatrettes, Level 4, The Matrix, Biopolis

7:00pm to 9:30pm

1st Nano Today Conference Dinner

Presentation of the *Nano Today* 2009 Award to Professor Herbert Gleiter

5th August

9:00am to 9:30am

Conference Registration and Breakfast

Venue: Level 2 Foyer, The Matrix, Biopolis

9:30am to 10:15am

Plenary Lecture by Professor David Tirrell, California Institute of Technology, USA

Venue: Auditorium, Level 2, The Matrix, Biopolis

10:15am to 12:15pm

Scientific Sessions and Exhibition

Venue: Breakthrough, Creation and Exploration Theatrettes, Level 4, The Matrix, Biopolis

12:15pm to 1:30pm

Lunch and Poster Session IV

Nanosystems for Biological and Medical Applications

Nanosystems for Chemical and Catalytic Applications

Nanosystems for Energy and Environmental Applications

Venue: Level 4 Foyer, The Matrix, Biopolis

1:30pm to 4:00pm

Scientific Sessions and Exhibition

Venue: Creation and Exploration Theatrettes, Level 4, The Matrix, Biopolis

4:00pm to 4:30pm

Young Scientist and Poster Awards Presentation and Closing Remarks

Venue: Auditorium, Level 2, The Matrix, Biopolis

Scientific Program

MONDAY, AUGUST 3, 2009

8:30am to 9:30am	8:30am to 9:30am Registration and Breakfast	
9:30am to 9:45am	9:30am to 9:45am Opening Address by 1 st Nano Today Conference Chair, Prof Jackie Y. Ying	
9:45am to 10:30am	9:45am to 10:30am Plenary Lecture I Auditorium, Level 2 Nanoscience and Nanotechnology: The Key to New Studies in Other Areas of Science and Technology <i>Herbert Gleiter, Institute of Nanotechnology, Research Center Karlsruhe, Germany</i>	
10:30am	10:30am to 12:15pm: Synthesis and Self-Assembly of Nanocrystals/Nanoparticles I Creation Theatre, Level 4 Chair: Andrew Wan	10:30am to 12:15pm: Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications I Breakthrough Theatre, Level 4 Chair: Charlotte Hauser
10:45am	Templating Routes for Synthesizing Mesoporous Zeolites <i>Feng-Shou Xiao, Jilin University, China (Invited)</i>	Recent Results with Polymer-Coated Metallic Nanoparticles and Membrane Micropores for Diagnostic Applications <i>Allan Hoffman, University of Washington, USA (Invited)</i>
11:00am	Synthesis, Functionalization and Self-Assembly of ZnO Nanoparticle Superlattices <i>Lan Chen, University College Cork, Ireland</i>	Future Directions in Cancer Research: Nanotechnology Based Approaches to Diagnostics and Therapeutics <i>Larry Nagahara, National Cancer Institute Alliance for Nanotech in Cancer, USA (Invited)</i>
11:15am	Cation Exchange in Lanthanide Fluoride Nanoparticles <i>Cunhai Dong, University of Victoria, Canada</i>	
11:30am	One-Pot Synthesis of Monodisperse Water Soluble 'Dual-Responsive' Magnetic Nanoparticles <i>Nguyen T K Thanh, The Royal Institution of Great Britain, UK</i>	Drug-Receptor Interaction Evaluated by Ellipsometric Nanotechnology in Cardiovascular High-Risk Patients <i>Gunter Siegel, Charite University Clinic Berlin, Germany</i>
11:45am	Glucosamine-Conjugated Nanoparticles for the Separation of Insulin-Secreting Beta Cells <i>Karthikeyan Narayanan, Institute of Bioengineering and Nanotechnology, Singapore</i>	Nanoscaled Biosensors: Nanotechnology in Early Disease Detection and Personalized Medicine <i>Matt Trau, Australian Institute of Bioengineering and Nanotechnology, Australia (Invited)</i>
12:00pm	Living Yeast Cells as a Controllable Biosynthesizer for Fluorescent Quantum Dots <i>Dai-Wen Pang, Wuhan University, China</i>	
12:15pm to 1:30pm	12:15pm to 1:30pm Lunch and Poster Session I Foyer, Level 4 Chairs: Jun Yang and Jianping Xie Synthesis and Self-Assembly of Thin Films Synthesis and Self-Assembly of Nanocrystals/Nanoparticles	
1:30pm	1:30pm to 3:30pm: Synthesis and Self-Assembly of Nanocrystals/Nanoparticles II Breakthrough Theatre, Level 4 Chair: Motoichi Kurisawa	1:30pm to 3:00pm: Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications II Exploration Theatre, Level 4 Chair: Zhiqiang Gao
1:45pm	Large-Scale Synthesis of Uniform-Sized Nanoparticles and Their Designed Assembly for Multifunctional Biomedical Applications <i>Taeghwan Hyeon, Seoul National University, Korea (Invited)</i>	Ultrasensitive Amplification Strategy for Biosensing Applications <i>Jie Zhang, Institute of Bioengineering and Nanotechnology, Singapore</i>
		In Situ Enzyme-Initiated Deposition of Metal Hexacyanoferrate Nanoparticles to Amplify the DNA Hybridization Events <i>Xiaojun Chen, Institute of Bioengineering and Nanotechnology, Singapore</i>

Scientific Program

MONDAY, AUGUST 3, 2009

2:00pm	<p>Programming Matter: The Directed Self-Assembly of Binary Nanocrystal Superlattices Christopher Murray, University of Pennsylvania, USA (Invited)</p>	<p>Magnetophoresis Sensing System Using Bifunctional Nanoassembly for Tuberculosis Diagnosis Jaebeom Lee, Pusan National University, Korea</p>
2:15pm		<p>Lithography-Free Fabrication of Dual-Mode ZnO Nanowire Field Effect Transistors Somenath Roy, Institute of Bioengineering and Nanotechnology, Singapore</p>
2:30pm	<p>Bifunctional Fe₃O₄-Ag Heterodimer Nanoparticles for Two-Photon Fluorescence Imaging and Magnetic Manipulation Jiang Jiang, Institute of Bioengineering and Nanotechnology, Singapore</p>	<p>Fabrication of Nanowire Array Electrode for Immobilization and Direct Electron Transfer of Redox Protein Ju Xu, University College Cork, Ireland</p>
2:45pm	<p>Room-Temperature Synthesis of Nanocrystalline Ag₂S and Its Nanocomposites with Gold Jun Yang, Institute of Bioengineering and Nanotechnology, Singapore</p>	<p>A ZnO Nanorod Based Surface Acoustic Wave Sensor Chang Fu Dee, Universiti Kebangsaan Malaysia, Malaysia</p>
3:00pm	<p>Room Temperature Synthesis of Alloy Nanoparticles Tina Nenoff, Sandia National Laboratories, USA (Invited)</p>	<p>3:00pm to 3:30pm Coffee/Tea Break</p>
3:15pm		
3:30pm	<p>3:30pm to 4:00pm Coffee/Tea Break</p>	<p>3:30pm to 5:30pm: Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications III Breakthrough Theatre, Level 4 Chair: Juergen Pipper</p>
3:45pm		<p>The Surface Plasmon Resonance Landscape of Gold Nanocrystals Paul Mulvaney, University of Melbourne, Australia (Invited)</p>
4:00pm	<p>4:00pm to 5:30pm: Functionalization and Size-Dependent Properties of Nanocrystals, Quantum Dots and Nanowires I Creation Theatre, Level 4 Chair: Nandan Erathodiyil</p>	<p>Characterization of Leaky-Mode-Resonated Filter in Two-Dimension Photonic Crystal Slabs Chunxia Wang, Institute of Semiconductors, Chinese Academy of Sciences, China</p>
4:15pm	<p>Interfacing Semiconductor and Metallic Nanocrystals with Biology Hedi Matoussi, US Naval Research Laboratory, USA (Invited)</p>	<p>Nano-Encapsulated Indocyanine Green for Optical Imaging and Phototherapy Bahman Anvari, University of California, Riverside, USA</p>
4:30pm	<p>Highly Fluorescent Gold Nanoclusters: Synthesis and Applications Jianping Xie, Institute of Bioengineering and Nanotechnology, Singapore</p>	<p>Periodic Polymers for Photonics, Phononics and Mechanics Edwin Thomas, Massachusetts Institute of Technology, USA (Invited)</p>
4:45pm	<p>Fabrication and Dispersion of Gold Shell Protected Magnetite Nanoparticles for Biomedical Applications Ian Y. Goon, University of New South Wales, Australia</p>	
5:00pm	<p>Aqueous Synthesis of Glutathione-Capped Cadmium-Free Mn-Doped ZnS-ZnSe QDs Yuangang Zheng, Institute of Bioengineering and Nanotechnology, Singapore</p>	<p>Individual Addressable 3D Nanoelectrodes for Neural Metabolic Studies Winnie Edith Svendsen, Technical University of Denmark, Denmark</p>
5:15pm	<p>Optimization and Presentation of Novel Luminescent Silica Nanoparticles Gemma-Louise Davies, Trinity College Dublin, Ireland</p>	<p>A Thixotropic Nanocomposite Gel for 3D Cell Culture Shona Pek, Institute of Bioengineering and Nanotechnology, Singapore</p>
5:30pm to 6:45pm	<p>5:30pm to 6:45pm Reception and Poster Session II Foyer, Level 4 Chair: Mo Huang Li</p> <p>Functionalization and Size-Dependent Properties of Nanocrystals, Quantum Dots and Nanowires Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications</p>	

Scientific Program

TUESDAY, AUGUST 4, 2009

9:00am to 9:30am	9:00am to 9:30am Registration and Breakfast	
9:30am to 10:15am	9:30am to 10:15am Plenary Lecture II Auditorium, Level 2 Graphene, The New Nanocarbon <i>C N R Rao, Jawaharlal Nehru Center for Advanced Scientific Research, India</i>	
10:15am	10:15am to 12:00pm: Processing and Templating of Nanotubes and Nanoporous Materials I Exploration Theatre, Level 4 Chair: Leng Leng Chng Functionalized Carbon Nanotubes and Their Applications in Nanomedicine <i>Alberto Bianco, Centre Nationale de la Recherche Scientifique, France</i>	10:15am to 12:00pm: Nanosystems for Biological and Medical Applications I Breakthrough Theatre, Level 4 Chair: Shu Wang Self-Assembly Approaches toward Directed Drug Delivery from Patchy Micelles to MAD Nanolayers <i>Paula Hammond, Massachusetts Institute of Technology, USA (Invited)</i>
10:30am	Atomic Resolution Imaging of Ag NP-Graphene <i>Manoj K Singh, University of Aveiro, Portugal</i>	
10:45am	New Opportunities in Catalytic Applications with Hierarchically Porous Zeolites <i>Ryong Ryoo, Korea Advanced Institute of Science and Technology, Korea (Invited)</i>	Next Generation Nanoparticles for Controlled Drug Delivery Systems <i>Mamoun Muhammed, KTH Royal Institute of Technology, Sweden (Invited)</i>
11:00am		
11:15am	Mesoporous Silica Thin Film with Perpendicular Nanochannels <i>Chung-Yuan Mou, National Taiwan University, Taiwan (Invited)</i>	Design and Synthesis of Functional Self-Assembled Polymer Nanostructures for Drug Delivery <i>Yi Yan Yang, Institute of Bioengineering and Nanotechnology, Singapore</i>
11:30am		Design, Synthesis and Evaluation of Novel Water Soluble Bolan-Amphiphiles as a Therapeutic Carrier <i>Shrinivas Venkataraman, Institute of Bioengineering and Nanotechnology, Singapore</i>
11:45am	Novel Mesoporous and Microporous Polymers for Heterogeneous Catalysis <i>Yugen Zhang, Institute of Bioengineering and Nanotechnology, Singapore</i>	Protease-Sensitive Polymeric Vesicles as Drug Delivery Vehicles <i>Ying Chau, The Hong Kong University of Science and Technology, Hong Kong</i>
12:00pm to 1:15pm	12:00pm to 1:15pm Lunch and Poster Session III Foyer, Level 4 Chair: Su Seong Lee Processing and Templating of Nanotubes and Nanoporous Materials Tailoring of Polymeric Nanoparticles, Organic-Inorganic Nanocomposites and Biohybrids Design and Engineering of Structural and Functional Nanomaterials	

Scientific Program

TUESDAY, AUGUST 4, 2009

1:15pm	<p>1:15pm to 2:30pm: Processing and Templating of Nanotubes and Nanoporous Materials II Exploration Theatrette, Level 4 Chair: Shuguang Zhang</p> <p>Iron Doping of Titanium Oxide Nanotubes Using Residual Catalyst from CNT Template: A New Route <i>Dominik Eder, University of Cambridge, UK</i></p>	<p>1:15pm to 3:30pm: Synthesis and Self-Assembly of Thin Films Breakthrough Theatrette, Level 4 Chair: Francis Tay</p> <p>Low-Temperature Kinetically Controlled Nanofabrication of Semiconductor and Ferroelectric Thin Films and Nanoparticles <i>Daniel Morse, University of California, Santa Barbara, USA (Invited)</i></p>	<p>1:15pm to 3:30pm: Nanosystems for Biological and Medical Applications II Creation Theatrette, Level 4 Chair: Daniele Zink</p> <p>Hierarchichal Supramolecular Structures for Sustained Drug Release <i>Jeremy Tan, Institute of Bioengineering and Nanotechnology, Singapore</i></p>
1:30pm	<p>Fabrication and Manipulation of Biological Self-Assembled Nanotubes and Nano Spheres for Bionanotechnology Applications <i>Jaime Castillo, Technical University of Denmark, Denmark</i></p>		<p>An Injectable Hyaluronic Acid-Tyramine Hydrogel System for Protein Delivery <i>Fan Lee, Institute of Bioengineering and Nanotechnology, Singapore</i></p>
1:45pm	<p>Carbon Nanotube - Inorganic Hybrid Materials <i>Dominik Eder, University of Cambridge, UK</i></p>	<p>Molecular Engineering of Organic and Nanowire Devices <i>Cherie Kagan, University of Pennsylvania, USA (Invited)</i></p>	<p>Novel Nanobiomaterials Based on Hyaluronan Derivatives with Controlled Structure for Applications in Nanoscience <i>Adina-Graziella Anghelescu-Dogaru, University of Helsinki, Finland</i></p>
2:00pm	<p>Gas-Phase Synthesis of Multifunctional Hybrid Nanocrystal-Carbon Nanotube Structures <i>Junhong Chen, University of Wisconsin-Milwaukee, USA</i></p>		<p>Novel Combinations of Nanotechnology, Proteins and Viral Gene Delivery Vectors for Applications in Biomedicine, Research and Diagnostics <i>John Dangerfield, Christian Doppler Laboratory, Singapore</i></p>
2:15pm	<p>Towards Molecular Electronics with Carbon-Based Materials <i>Haibin Su, Nanyang Technological University, Singapore</i></p>	<p>Chemical Lithography with Self-Assembled Monolayers in an Integrated High Vacuum Setup <i>Sven Bauerdick, Raith GmbH, Germany</i></p>	<p>Designer Nanoparticles for Drug Delivery: Physical Answers to Biological Questions <i>Samir Mitragotri, University of California, Santa Barbara, USA</i></p>
2:30pm	<p>2:30pm to 3:30pm: Functionalization and Size-Dependent Properties of Nanocrystals, Quantum Dots and Nanowires II Exploration Theatrette, Level 4 Chair: Yuangang Zheng</p>	<p>Covalent Multilayer Assembly of Polymers on Silicon with Molecular Thickness Control <i>Raju Kumar Gupta, National University of Singapore, Singapore</i></p>	<p>Development of Nanodevices for a Stable Delivery of Anticancer Drugs with a View on Early Prognosis <i>Giorgia Pastorin, National University of Singapore, Singapore</i></p>
2:45pm	<p>Multifunctional Magnetic Nanoparticles: Design, Synthesis and Biomedical Applications <i>Bing Xu, Brandeis University, USA (Invited)</i></p>	<p>Construction of Nanofibrous Films from Dipeptide Based Hierarchical Assembly <i>Weiping Wang, The Hong Kong University of Science and Technology, Hong Kong</i></p>	<p>Development of Hollow Fiber Membranes with Nanopores for Renal Tubule Assist Devices <i>Rensheng Deng, Institute of Bioengineering and Nanotechnology, Singapore</i></p>
3:00pm	<p>Electrospinning of Magnetic Oxide and Composite Nanostructures <i>Santi Maensiri, Khon Kaen University, Thailand</i></p>	<p>Self-Organization of Ordered Macroporous Nanoparticles-Decorating Polymer Films <i>Xiaoli Jiang, Southeast University of Nanjing, China</i></p>	<p>Nanotechnology and Biomedicine at the Cross Roads <i>Thomas Tsakalakos, Rutgers University, USA (Invited)</i></p>
3:15pm	<p>Tunable Shapes of Magnetic Nanoparticles: Fe-Pt, Fe-Pd and Fe-Pt-Pd Alloys <i>Nguyen T K Thanh, The Royal Institution of Great Britain, UK</i></p>	<p>Au-Fullerene: A Bi-Functional Nanocomposite Thin Film <i>Rahul Singhal, Inter University Accelerator Center New Delhi, India</i></p>	
3:30pm to 4:00pm	<p>3:30pm to 4:00pm Coffee/Tea Break</p>		

Scientific Program

TUESDAY, AUGUST 4, 2009

4:00pm	<p>4:00pm to 5:45pm: Functionalization and Size-Dependent Properties of Nanocrystals, Quantum Dots and Nanowires III Exploration Theatre, Level 4 Chair: Jiang Jiang</p> <p>Exploration of Novel Silicon Nanostructures by Molecular Dynamics Simulation <i>Kengo Nishio, National Institute of Advanced Industrial Science and Technology, Japan</i></p>	<p>4:00pm to 5:45pm: Nanosystems for Biological and Medical Applications III Breakthrough Theatre, Level 4 Chair: Henry Yu</p> <p>Nanostructured Materials for Biomedicine Applications <i>Frank Caruso, University of Melbourne, Australia (Invited)</i></p>
4:15pm	<p>Specific and Reversible Protein Immobilization on Si Nanowires via His-Tag <i>Yi-Chi Liu, University of Copenhagen, Denmark</i></p>	
4:30pm	<p>One Dimensional Self-Assembly of Hybrid Gold Nanowires and Carbon Nanotubes with Ultra-High Aspect Ratio <i>Wenrong Yang, The University of Sydney, Australia</i></p>	<p>Stable and Responsive Nanoparticles for Biomedical Applications <i>I-Wei Chen, University of Pennsylvania, USA (Invited)</i></p>
4:45pm	<p>High Yield Synthesis and Properties of Monolithic Tungsten Nanowires <i>Srdjan Milenkovic, Max-Planck-Institut fuer Eisenforschung, Germany</i></p>	
5:00pm	<p>Ag@PPy Hybrid Nanostructures: Formation Mechanism and Shape Evolution <i>David Munoz-Rojas, Centro de Investigacion en Nanociencia y Nanotecnologia, Spain</i></p>	<p>The Significance and Lack of Significance of Nanoscale Features for <i>In Vivo</i> Healing <i>Buddy Ratner, University of Washington, USA (Invited)</i></p>
5:15pm	<p>Semiconductor Nanowires for Energy Conversion <i>Peidong Yang, University of California, Berkeley, USA (Invited)</i></p>	
5:30pm		<p>3D Neurogenesis of Human Mesenchymal Stem Cells by Stiffness of Gelatin-Hydroxyphenylpropionic Acid Hydrogel <i>Li Shan Wang, Institute of Bioengineering and Nanotechnology, Singapore</i></p>
7:00pm to 9:30pm	<p>7:00pm to 9:30pm 1st Nano Today Conference Dinner Presentation of the <i>Nano Today</i> 2009 Award to Professor Herbert Gleiter</p>	

Scientific Program

WEDNESDAY, AUGUST 5, 2009

9:00am to 9:30am	<p>9:00am to 9:30am Registration and Breakfast</p>		
9:30am to 10:15am	<p>9:30am to 10:15am Plenary Lecture III Auditorium, Level 2 Proteins That Nature Never Made <i>David Tirrell, California Institute of Technology, USA</i></p>		
10:15am	<p>10:15am to 12:15pm: Tailoring of Polymeric Nanoparticles, Organic-Inorganic Nanocomposites and Biohybrids Breakthrough Theatre, Level 4 Chair: Yiyang Yang</p> <p>Designer Self-Assembling Peptide Nanomaterials <i>Shuguang Zhang, Massachusetts Institute of Technology, USA and Institute of Bioengineering and Nanotechnology, Singapore (Invited)</i></p>	<p>10:15am to 12:00pm: Nanosystems for Chemical and Catalytic Applications Creation Theatre, Level 4 Chair: Yugen Zhang</p> <p>Controllable Synthesis of Uniform Palladium Icosahedra via a Facile Polyol Process <i>Cuncheng Li, University of Tsukuba, Japan</i></p>	<p>10:15am to 12:15pm: Nanosystems for Sensing, Diagnostic, Imaging and Magnetic Applications IV Exploration Theatre, Level 4 Chair: Karthikeyan Narayanan</p> <p>Efficient Coupling of Light into Nanometer-Sized Objects via Dielectric Microcavities and Metal Nanoantennas <i>Matthias Hagner, University of Konstanz, Germany</i></p>
10:30am		<p>Totally Green Enantioselective Hydrogenation of α-Ketoesters over Alkaloid-Modified Platinum Nanostructures <i>Nandan Erathodiyil, Institute of Bioengineering and Nanotechnology, Singapore</i></p>	<p>Hybrid Plasmonic Structure Fabrication by Laser Interference Lithography <i>Caihong Liu, Experimental Therapeutics Center, Singapore</i></p>
10:45am	<p>DNA as a Nanoscale Material <i>Dan Luo, Cornell University, USA (Invited)</i></p>	<p>Development of Nanoporous Silica-Supported Catalysts: Application to a Circulating Flow-Type Reactor <i>Jaehong Lim, Institute of Bioengineering and Nanotechnology, Singapore</i></p>	<p>Plasmonic Nanoantennas for Integrated Optical Sensing Applications <i>Reuben Bakker, Data Storage Institute, Singapore</i></p>
11:00am		<p>Template Synthesis of Nanostructured Carbon Materials for Electrochemical Energy Storage and Conversion <i>Fabing Su, Institute of Chemical Engineering and Sciences, Singapore</i></p>	<p>Graphitic Nanowires in Diamond-Like Carbon: Properties and Device Applications <i>Johann Krauser, Harz University of Applied Sciences, Germany</i></p>
11:15am	<p>Dual Stimuli-Responsive Block Copolymers Derived from Proline Derivatives <i>Hideharu Mori, Yamagata University, Japan</i></p>	<p>Dynamics of Nanocatalytic Model Systems Revealed by High-Resolution Video-Rate STM <i>Flemming Besenbacher, Aarhus University, Denmark (Invited)</i></p>	<p>QM/MM Simulations of the Immobilization of Isolated Proteins on Graphite Surfaces via Gold Atomic Clusters <i>Carlos Federico Sanz, Centro de Investigacion en Nanociencia y Nanotecnologia, Spain</i></p>
11:30am	<p>Bioresource Exploration by Using Polymeric Nanofibers <i>Shigeru Deguchi, Japan Agency for Marine-Earth Science and Technology, Japan</i></p>		<p>Arbitrary Polymeric Nanodevice for Single-Cell Analysis <i>Tseng Ming Hsieh, Institute of Bioengineering and Nanotechnology, Singapore</i></p>
11:45am	<p>A Non-Transferring Dry-Adhesive with Slanted Polymer Nanohairs <i>Hoon Eui Jeong, Seoul National University, Korea</i></p>	<p>Synthesis of Monodisperse Ag-Au Alloy Nanoparticles with Independently Tunable Morphology, Composition, Size and Surface Chemistry and Their 3D Superlattices <i>Qingbo Zhang, National University of Singapore, Singapore</i></p>	<p>Simulation and Fabrication of a Mechano-Optical Sensor for Nano-Displacements <i>Van So Pham, University of Twente, The Netherlands</i></p>
12:00pm	<p>Highly Ordered Protein Patterns from Self-Assembly of Mixed Colloids <i>Gurvinder Singh, Aarhus University, Denmark</i></p>		<p>Electrochromic Nanoparticle Ink: Displays and Color-Switchable Glasses Fabricated by Liquid Processes <i>Tohru Kawamoto, Advanced Institute for Science and Technology, Japan</i></p>

Scientific Program

WEDNESDAY, AUGUST 5, 2009

12:15pm to 1:30pm	<p>12:15pm to 1:30pm Lunch and Poster Session IV Foyer, Level 4 Chair: Jaehong Lim</p> <p>Nanosystems for Biological and Medical Applications Nanosystems for Chemical and Catalytic Applications Nanosystems for Energy and Environmental Applications</p>	
1:30pm	<p>1:30pm to 3:30pm: Nanosystems for Energy and Environmental Applications Breakthrough Theatre, Level 4 Chair: Edwin Chow</p> <p>Nanocrystalline Devices for Solar Power Conversion and Storage <i>Michael Graetzel, Ecole Polytechnique Federale de Lausanne, Switzerland (Invited)</i></p>	<p>1:30pm to 3:30pm: Nanosystems for Biological and Medical Applications IV Exploration Theatre, Level 4 Chair: Lang Zhuo</p> <p>Nanotechnology for Regenerating Tissues: Is It Hype or Reality? <i>Thomas Webster, Brown University, USA (Invited)</i></p>
1:45pm		
2:00pm	<p>Profile-Controlled Electrodeposition of p-Semiconductors in n-TiO₂ Nano-Matrix <i>Qing Wang, National University of Singapore, Singapore</i></p>	<p>Novel Templates Designed for Hard-Tissue Regeneration <i>Anne George, University of Illinois at Chicago, USA (Invited)</i></p>
2:15pm	<p>Fabrication of Hybrid Organic-QD Solar Cells Using Inkjet Printing Technique <i>Ashkan Shafiee, Universiti Kebangsaan Malaysia, Malaysia</i></p>	
2:30pm	<p>Design, Synthesis, Formation Mechanism and Property of Platinum Alloy Nanostructures <i>Hong Yang, University of Rochester, USA (Invited)</i></p>	<p>Bionanocomposites for Bone Cement: A Polymer-Based Approach <i>Manoj Kumar Singh, University of Aveiro, Portugal</i></p>
2:45pm		<p>Investigation on Nanoparticle Fate Across Endothelial Barrier <i>Paolo Netti, Interdisciplinary Research Center on Biomaterials, Italy</i></p>
3:00pm	<p>Physico-Chemical Properties of Nanostructured C-TiO₂ for Lithium Ion Batteries and Hybrid Super Capacitator <i>Michel Trudeau, Hydro-Quebec Research Institute, Canada</i></p>	<p>Microfluidic Platforms Related to Nanomedicine <i>Kam Leong, Duke University, USA (Invited)</i></p>
3:15pm	<p>Design of Nanostructured Membranes for Environmental Applications <i>Martina Roso, University of Padova, Italy</i></p>	
3:30pm to 4:00pm	<p>3:30pm to 4:00pm Coffee/Tea Break</p>	
4:00pm to 4:30pm	<p>4:00pm to 4:30pm Young Scientist and Poster Awards Presentation and Closing Remarks</p>	