



164th OMICS Group Conference 3rd International Conference on Nanotek & Expo

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December 02-04, 2013 Hampton Inn Tropicana Las Vegas, USA

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Scientific Program

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OMICS Group invites all the participants across the globe to attend the 3rd International Conference on Nanotek and Expo during December 02-04, 2013 Hampton Inn Tropicana Las Vegas, USA.

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Day 1 : Dec-02-2013

Time: 08:00-08:25

Opening Ceremony

Hampton Inn Tropicana,
Las Vegas, USA

Time : 08:30-10:10

Keynote Forum

Place : Salon A

08:30-08:55



Serhii Shafraniuk

Northwestern University, USA

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08:55-09:20



Lloyd L. Tran

International Association of Nanotechnology,
NASA Ames Research Center, USA
 [Download Abstract & Biography](#)


09:20-09:45



Sushil K. Misra

Concordia University, Canada

[Download Abstract & Biography](#)


09:45-10:10



Bernd Rellinghaus

IFW Dresden, Institute for Metallic Materials,
Germany
 [Download Abstract & Biography](#)


Coffee Break & Group Photo 10:10-10:25 @ Bora Foyer

Time : 10:25-
15:10

Track 1: Nanomaterials (Session 1)

Place : Salon A

Session Chair



Animesh Jha

University of Leeds, UK





Session Co-Chair



Ming-Hwa R. Jen
National Sun Yat-Sen University, Republic of China



Session Introduction

10:25-10:45



Title: Nano-scale approaches for controlling dielectric thin films for photonic waveguide engineering using ultrafast pulsed lasers à la a novel approach for non-clean room fabrication!

Animesh Jha
University of Leeds, UK



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10:45-11:05



Title: Fabrication and mechanical properties of fiber/metal hybrid nanocomposite laminates at elevated temperature

Ming-Hwa R. Jen
National Sun Yat-Sen University, Republic of China



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11:05-11:25



Title: Advanced research and nanotechnological applications of Graphene

Serhii Shafraniuk
Northwestern University, USA



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11:25-11:45



Title: Molecular transformation using nanotek catalysts: Nanoporous metal skeleton catalysts for green organic synthesis

Yoshinori Yamamoto
Tohoku University, Japan



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11:45-12:05



Title: Understanding the freezing of water on surfaces at the nanoscale to control ice formation at the macroscale

Albert Verdager
ICN2 - Institut Català de Nanociència i Nanotecnologia, Spain



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Lunch Break 12:05-12:50 @ Coral AB

12:50-13:10



Title: Development of methods for Graphene production and chemical modification

Horacio J. Salavagione
Instituto de Ciencia y Tecnología de Polímeros, Spain



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13:10-13:30



Title: Polymer wrapping technique for selective extraction of specific large-diameter semiconducting single-wall carbon nanotubes

Masayoshi Tange
National Institute of Advanced Industrial Science and Technology, Japan



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13:30-13:50

Title: Study thickness uniformity, wrinkling and effect of ambient conditions in epitaxial Graphene grown on SiC polytypes

G. Reza Yazdi
Linköping University, Sweden



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13:50-14:10	Title: Approach for synthesizing individual, controlled diameter SWNTs for electronics Fatima Z. Bouanis Institut Francais des Sciences et Technologies des transports, France	
Download Abstract & Biography		
14:10-14:30	Title: Role of self-assembled monolayers in carbon nanomaterial; Synthesis, hybrid materials and device application Prashanta Dhoj Adhikari Sungkyunkwan University, Korea	
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14:30-14:50	Title: Synthesis and characterization of nanocomposites formed by metallic nanoparticles in insulating matrix Maria Cecilia Salvadori University of Sao Paulo, Brazil	
Download Abstract & Biography		
14:50-15:10	Title: All carbon p-i-n solar cell by microwave surface wave plasma CVD Dilip C. Ghimire Chubu University, Japan	
Download Abstract & Biography		

Time : 15:10-18:45

Track 1: Nanomaterials (Session 2)

Place : Salon A

Session Chair		
	Toshihiro Ishikawa Ube Industries, Ltd., Japan	
Session Co-Chair		
	Vijaya Kumar Rangari Tuskegee University, USA	
Session Introduction		
15:10-15:30	Title: Dynamics of protonic transport through the nanochannel water in molecular porous crystals Hiroshi Matsui Tohoku University, Japan	
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15:30-15:50	Title: Dynamic tensile modulus and tunneling current under applied electric field for polymer-carbon filler composites Masaru Matsuo Dalian University of Technology, China	
Download Abstract & Biography		
Coffee Break 15:50-16:05 @ Bora Foyer		
16:05-16:25	Title: Carbon nanotubes and their applications in polymer composites Vijaya K Rangari Tuskegee University, USA	
Download Abstract & Biography		



16:25-16:45



Title: Ceramic fibers with functional surface layers synthesized from polycarbosilane containing low-molecular mass additives
Toshihiro Ishikawa
 Ube Industries, Ltd., Japan

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16:45-17:05



Title: Knowledge base is a future of nanomaterials world
Victor Abrukov
 Chuvash State University, Russia

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17:05-17:25

Title: Understanding energy and mass transport in designer nanocrystal-polymer hybrids
Jeffrey J. Urban
 Lawrence Berkeley National Laboratory, USA

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17:25-17:45



Title: Recent In situ wet cell TEM study on nanomaterials and nano devices
Xin Chen
 East China University of Science and Technology, China

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17:45-18:05



Title: Nanoparticles synthesis through bio-reductions by microorganisms and plants
Hassan Korbekandi
 Isfahan University of Medical Sciences, Iran

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18:05-18:25



Title: Mapping electric, magnetic and strain nanofields by off-axis electron holography: Prospects and problems
Jan Sickmann
 Technische Universitaet Dresden, Germany

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18:25-18:45



Title: Smart textiles based on carbon nanotubes
Wei Zhang
 Dalian University of Technology, China

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Time : 10:30-15:15

Track 1: Nanomaterials (Session 3)

Place : Fiji

Session Chair



Bernd Rellinghaus
 IFW Dresden, Germany



Session Co-Chair



Stoyan Sarg Sargoytchev
 York University, Canada





10:30-10:50



Session Introduction

Title: Graphical 3D modeling of molecules and nanostructures in sub-nanometer scale with the BSM-SG atomic models

Stoyan Sarg Sargoytchev
York University, Canada



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10:50-11:10



Title: Synthesis of protein encapsulated rare earth nanoparticles

Hideyuki Yoshimura
Meiji University, Japan



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11:10-11:30



Title: Structure ϵ property relations in high anisotropy nanomagnets

Bernd Rellinghaus
IFW Dresden, Germany



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11:30-11:50



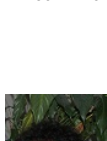
Title: Hardness of the Fe₈₁Ga₁₉/Si(100) film measured by the nano-indentation method

Shien-Uang Jen
Institute of physics, academia sinica, ROC



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11:50-12:10



Title: Ferrochemical materials

Dominique Ausserre
Universite du Maine, France



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12:10-12:30



Title: Application of multiscale theory and modeling to nanoscience and nanotechnology

Sergey Gusarov
National Institute for Nanotechnology, Canada



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Lunch Break 12:30-13:15 @ Coral AB

13:15-13:35



Title: Vapor-deposited metal-boride interfacial layers as diffusion barriers for nanostructured diamond growth on cobalt alloys

Aaron Catledge
University of Alabama at Birmingham, USA



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13:35-13:55



Title: Simulation of self-assembly in an evaporating inkjet-sized droplet of colloidal solution by dissipative particle dynamics

Peter Lebedev-Stepanov
Photochemistry Center of Russian Academy of Science and National Research Nuclear University MEPhI, Russia



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13:55-14:15



Title: Design of electronic transport property through electronic phase manipulation in correlated electron materials

Teruo Kanki
Osaka University, Japan



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14:15-14:35	<i>Title: Versatile silica coating strategy on hydrophobic quantum dots towards nano-engineering</i> Mohamed F. Foda Huazhong Agricultural University, China	
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14:35-14:55	<i>Title: The morphology and growth kinetics of silicon-silver multicomponent heterostructured nanoparticles in the gas phase</i> Mukhles Sowwan Okinawa Institute of Science and Technology, Japan	
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14:55-15:15	<i>Title: Phase organic/inorganic layered nanohybrids, types, structures and their application as the precursors for producing carbon materials for use as polymeric fuel cell cathode materials</i> Mohammad Yeganeh Ghotbi Malayer University, Iran	
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Time : 15:15-18:30

Track 2: Nanostructures

Place : Fiji

Session Chair		
	Hiroshi Yao University of Hyogo, Japan	
Session Co-Chair		
	Hiroshi Uyama Osaka University, Japan	
	Session Introduction	
15:15-15:35	<i>Title: Fine-controlled metal-assembling using a dendrimer reactor</i> Kimihisa Yamamoto Tokyo Institute of Technology, Japan	
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Coffee Break 15:35-15:50 @ Bora Foyer		
15:50-16:10	<i>Title: Photofunctional organic nanoparticles</i> Hiroshi Yao University of Hyogo, Japan	
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16:10-16:30	<i>Title: Functional polymer monoliths with nanoscale porous structure fabrication and applications</i> Hiroshi Uyama Osaka University, Japan	



Osaka University, Japan

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16:30-16:50



Title: Alloying trends from first principles: A case study of ternary and multinary nitrides

David Holec

Montanuniversitat Leoben, Austria

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16:50-17:10



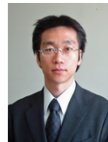
Title: Interparticle interaction between water molecules

Makoto Yasutomi

University of the Ryukyus, Japan

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17:10-17:30



Title: Synthesis, atomic structure and hydrogen storage properties of aluminum hydride

Kazutaka Ikeda

High Energy Accelerator Research Organization, Japan

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17:30-17:50



Title: Reversible nano-lithography between materials

Jae Hong Park

Korea National NanoFab Center, Korea

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17:50-18:10



Title: Highly efficient single host white emitting Sr₂91V2O8:Eu0.06 nanophosphor for UV-LED

K. N. Shinde

N.S. Science and Arts College, India

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18:10-18:30



Title: High molar extinction coefficient HeterolepticRu(II)-Mixed Ligand Polypyridyl complexes containing Anthracenyl and 2-Methyl-2-butenic acid functionalities: New emerging dyes for dye-sensitized solar cell application

Adewale O. Adeleye

University of South Africa, South Africa

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18:45-20:15 Cocktails Sponsored by Journal of Nanomedicine & Nanotechnology @ Bora Foyer

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Day 3

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nanotek2013@omicsonline.net

Day 2 : Dec-03-2013

Keynote Forum

08:05-08:30



Jim Klostergaard
the University of Texas, USA

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08:30-08:55



Ashok Vaseashta
Institute for Convergence of Information,
Science, Technology, and Knowledge, and
International Clean Water Institute, USA

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08:55-09:20



R. K. Singh Raman
Monash University, Australia

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Time : 09:20-
14:00

Track 3: Nanomedicine (Session 1)

Place : Salon A

Session Chair



Julia Y. Ljubimova
Cedars-Sinai Medical Center, USA



Session Co-Chair



Thomas J. Webster
Northeastern University, USA



Session Introduction

09:20-09:40



Title: Direct electron microscopic recording of the powerstroke in individual myosin heads in hydrated myosin filaments studied using the gas environmental chamber

Haruo Sugi
Teikyo University, Japan



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09:40-10:00



Title: New class of nanomedicines to image and treat primary and metastatic tumors

Julia Y. Ljubimova
Cedars-Sinai Medical Center, USA



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10:00-10:20



Title: From nanotechnology to picotechnology: What is on the horizon?

Thomas J. Webster
Northeastern University, USA



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Coffee Break 10:20-10:35 @ Bora Foyer

10:35-10:55



Title: Dendrimers and metalodendrimers for biomedical applications: A recent overview

Joao Rodrigues
Universidade da Madeira, Portugal



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10:55-11:15

Title: Nanotechnology in liver cancer
M.G. Krukemeyer
Paracelsus-Hospital, Germany



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11:15-11:35



Title: Quality by design approach for tablet formulations and flexible regulatory approach

Buket Aksu
Santa Farma Pharmaceuticals, Turkey



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11:35-11:55

Title: Multifunctional nanoplatform for biomedical applications
Fernando Palacio

Instituto de Ciencia de Materiales de Aragon, Spain



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11:55-12:15



Title: Carrier-mediated dermal delivery for prevention or treatment of skin disorders

Andreia Ascenso
Universidade de Lisboa, Portugal



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Lunch Break 12:15-13:00 @ Coral AB

13:00-13:20



Title: Pharmaceutical suspension containing both immediate/sustained release omeprazole loaded carbopol nanospheres: Preparation and in vitro characterization

Sree Harsha Nagaraja
King Faisal University, Saudi Arabia



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13:20-13:40

Title: Application of nanomedicine in the treatment of malaria



treatment of malaria

Paula MelariniCouncil for Scientific and Industrial Research,
South Africa
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**13:40-14:00****Title:** Nanosensor for real time measurement
of caspase-1 activity in inflammation**Eliza Hutter**

McGill University, Canada

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Time : 14:00-
17:55**Track 3: Nanomedicine (Session 2)**

Place : Salon A

Session Chair**Eggehard Holler**

Cedars-Sinai Medical Center, USA

**Session Co-Chair****David K. Mills**

Louisiana Tech University, USA

**Session Introduction****14:00-14:20****Title:** Mass spectrometry and florescence
analysis of SNAP NAPPa arrays**Claudio Nicolini**

University of Genova, Italy

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**14:20-14:40****Title:** Polymaleic acid: Biology and drug
delivery**Eggehard Holler**

Cedars-Sinai Medical Center, USA

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**14:40-15:00****Title:** Clay nanotubes as growth factor delivery
vehicle for bone tissue formation**David K. Mills**

Louisiana Tech University, USA

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**15:00-15:20****Title:** Gold base plasmonic optoacoustic
contrast agents for preclinical research with
optoacoustic tomography and sensing**Anton Liopo**

TomoWave Laboratories, USA

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**Coffee Break 15:20-15:35@Bora Foyer****15:35-15:55****Title:** Drug-resistance facilitates tumor-
targeting of nanobiologics, HerGa and HerDox**Lali K. Medina-Kauwe**

Cedars-Sinai Medical Center, USA

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15:55-16:15	Title: Role of counterions on protein conformational change in protein-nanoparticles interaction Goutam Ghosh UGC-DAE Consortium for Scientific Research, India	
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16:15-16:35	Title: Design of single nanoparticle optical probes for the study of multidrug ABC membrane transporters in single living cells Kerry J. Lee Old Dominion University, USA	
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16:35-16:55	Title: Revolutionizing healthcare with anti-infection nanotechnology Erik N. Taylor Northeastern University, USA	
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16:55-17:15	Title: Self-care in keloid management with nanoparticles/microneedles for drug delivery Xu Chenjie Nanyang Technological University, Singapore	
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17:15-17:35	Title: Dual drug loaded magnetic nanoparticles for glioblastoma therapy Fahima Dilnawaz Laboratory of Nanomedicine, India	
	 Download Abstract & Biography	
17:35-17:55	Title: Potential nanocarriers for topical skin delivery of drugs Sevgi Gungor Istanbul University, Turkey	
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Time : 09:25-13:00

Track 9: Recent Trends in Nanotechnology

Place : Fiji

Session Chair		
	Gajanan Bhat University of Tennessee, USA	
Session Co-Chair		
	Hiroaki Tada Kinki University, Japan	
Session Introduction		
09:25-09:45	Title: Molecular scale first series transition metal oxide cluster-surface modified Titanium (IV) oxide as solar environmental catalyst Hiroaki Tada Kinki University, Japan	


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09:45-10:05



Title: Meltblowing - a commercially feasible production technology for nanofibers

Gajanan Bhat

University of Tennessee, USA

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10:05-10:25



Title: Adsorption, intrusion and freezing in porous silica: The view from the nanoscale

Benoit Coasne

Massachusetts Institute of Technology, USA

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10:25-10:45



Title: Nanobubble assisted changes of surface nanomorphology

Hana Tarabkova

J Heyrovsky Institute of Physical Chemistry, Czech Republic

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Coffee Break 10:45-11:00@ Bora Foyer

11:00-11:20



Title: Graphene / semiconductor nanowire hybrid optoelectronic devices

Lun Dai

Peking University, China

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11:20-11:40



Title: Optoelectronics with nanowires and quantum dots

Hakan Pettersson

Halmstad University, Sweden

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11:40-12:00



Title: Dense packings of hard spheres from sequential deposition: A route to new architecture in the nano-world

Ho-Kei Chan

University of Nottingham, UK

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12:00-12:20



Title: Self-organized organic photonic crystals for laser applications

Seichi Furumi

National Institute for Materials Science, Japan

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12:20-12:40



Title: Development of a micro-biorobot for drug delivery: Bacterial propulsion of liposomes

Zhenhai Zhang

Beijing Institute of Technology, China

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12:40-13:00



Title: The dual descriptor and its possible use for a rational design of novel molecules with importance in nanoscience and nanotechnology

Jorge Ignacio Martinez-Araya

Universidad Autonoma de Chile, Chile

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Lunch Break 13:00-13:40@ Coral AB

Time : 13:40-
17:55

Track 10: Applications of Nanotechnology

Place : Fiji

Session Chair

**Jaime Rocha-Gomes**
University of Minho, Portugal

Universidade do Minho

Session Co-Chair

**Robert K. DeLong**
Missouri State University, USA

Session Introduction

13:40-14:00

**Title:** From microcapsules of insect repellent to silica nanoparticles: Evolution in functionalization of textiles**Jaime I. N. Rocha Gomes**
University of Minho, Portugal

Universidade do Minho

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14:00-14:20

**Title:** New THz technologies and applications in support of safety and security**A. Vaseashta**

Institute for Advanced Sciences Convergence and International clean Water Institute NUARI, USA

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14:20-14:40

**Title:** Nanocrystalline alloys for remarkable oxidation resistance**R.K. Singh Raman**

Monash University, Australia

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14:40-15:00

**Title:** Characterization of novel RNA, protein and chimerananoconjugate composites and their potential pre-clinical applications**Robert K DeLong**

Missouri State University, USA

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15:00-15:20

**Title:** Sn-related Group-IV semiconductor materials for electronic and optoelectronic applications**Osamu Nakatsuka**

Nagoya University, Japan

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15:20-15:40

**Title:** Gold nanoparticle/rutile Titanium (IV) Oxide Plasmon photo catalyst as environmental catalysts: Removal of phenol derivatives**Shin-ichi Naya**

Kinki University, Japan

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Coffee Break 15:40-15:55@ Bora Foyer

15:55-16:15

**Title:** Experimental investigation and FE modeling of nanoindentation behavior of Ti-6Al-4V alloy for aerospace components



4v alloy for aero engine components
A Kumaraswamy
 Defense Institute of Advanced Technology,
 India



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16:15-16:35



Title: Nanomaterial functionality in polymer electrolyte membranes

Ramesh T Subramaniam
 University of Malaya, Malaysia



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16:35-16:55



Title: Laser-microdissection of protein crystals down to submicron dimensions

Evgeniya Peshkova
 University of Genova, Italy



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16:55-17:15



Title: Observation of cell growth on the surface-modified TiO₂ nanostructures

Shu-Ping Lin
 National Chung Hsing University, Taiwan



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17:15-17:35



Title: Superparamagnetic particles and their application in water purification and resources recovery

Karl Mandel
 Fraunhofer Institute for Silicate Research ISC, Germany



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17:35-17:55



Title: Medical applicability of bioactive polymer surfaces with DLC and noble metal-doped coatings

J. Ronda
 AGH University of Science and Technology and the Institute of Nuclear Physics PAS, Poland



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17:30-18:30 Poster Presentations @ Tahiti
 18:30-20:00 Cocktails Sponsored by Journal of Nanomedicine & Biotherapeutic Discovery @ Bora Foyer

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Scientific Program

Day 1

Day 2

Day 3

OMICS Group invites all the participants across the globe to attend the 3rd International Conference on Nanotek and Expo during December 02-04, 2013 Hampton Inn Tropicana Las Vegas, USA.

Website:

<http://www.omicsgroup.com/conferences/nanotek-nanotechnology-2013/>

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Day 3 : Dec-04-2013

Time : 09:00-12:15

Track 5: Nanodevices and Nanosensors (Session 1)

Place : Salon A

Session Chair



Dominique Ausserre
Universite du Maine, France



Session Co-Chair



Kohki Mukai
Yokohama National University, Japan



Session Introduction

09:00-09:20



Title: The role of reduced graphene oxide capping on defect induced ferromagnetism of ZnO nanorods

Sushil K. Misra
Concordia University, Canada

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09:20-09:40



Title: Photonic metamaterials for InP-based optical communication devices

Tomohiro Amemiya
Tokyo Institute of Technology, Japan

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09:40-10:00



Title: Template method for nano-order positioning and dense packing of colloidal quantum dots

Kohki Mukai
Yokohama National University, Japan

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10:00-10:20



Title: Planar hall resistance magnetic biosensor with femptomolar resolution

CheolGi Kim





Chungnam National University, Korea

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10:20-10:40

Title: New anti-reflecting layers for high contrast imaging in biophonic experiments

Dominique Ausserre

Universite du Maine, France



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10:40-11:00

Title: DNA-heatronics: Designing nano-scale thermal devices utilizing the structural transition of DNA

Chih-Chun Chien

Los Alamos National Laboratory, USA



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Coffee Break 11:00-11:15 @ Bora Foyer

11:15-11:35

Title: Effects of dilution on particle size measurement in dynamic light scattering

Lily Zu

Sympatec Inc. New Jersey, USA



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11:35-11:55

Title: Towards a carbon nanofiber (CNF) sensor with integrated microfluidics for biomarker detection

Tamara Floyd-Smith

Tuskegee University, USA



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11:55-12:15

Title: CdSe/CdS quantum rods: Highly luminescent nanocrystals with temperature-independent lasing threshold and enhanced two-photon absorption

Iwan Moreels

Istituto Italiano di Tecnologia, Italy



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Time : 12:15-15:45

Track 5: Nanodevices and Nanosensors (Session 2)

Place : Salon A

Session Chair



Arno Ehresmann

the University of Kassel, Germany



Session Co-Chair



Seyed Sadeghi

University of Alabama, USA



Session Introduction

12:15-12:35

Title: Quantum nanosensors based on quantum dot-metallic nanoparticle systems

Seyed Sadeghi

University of Alabama, USA





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Lunch Break 12:35-13:05 @ Coral AB

13:05-13:25



Title: Static and dynamic local magnetic fields for positioning and controlled movement of small objects

Arno Ehresmann
the University of Kassel, Germany

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UNIKASSEL
VERSITÄT

13:25-13:45



Title: Continuous glucose monitoring using ZnO nanowire biosensor chip

Jonathan S Lloyd
Swansea University, UK

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Swansea University
Prifysgol Abertawe

13:45-14:05



Title: Extraordinary optical transmission (EOT) in tapered nano-hole array for bio-chemical sensors application

Mehrdad Irannejad
University of Waterloo, Canada

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University of
Waterloo

4:05-14:25



Title: Spatially controlled Si-V defect nanodiamonds with nitrogen-enhanced photoluminescence prepared by scanning probe lithography

Shane Aaron Catledge
University of Alabama at Birmingham, USA

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UAB

14:25-14:45



Title: Ag-Nanoassemblies as SERS active hotspots for sensory applications

Nekane Guarrotxena
ICTP-CSIC, Spain

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CSIC

14:45-15:05



Title: The quest for logic functionalization of magnetic nanoclusters

Georg Lefkidis
University of Kaiserslautern, Germany

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TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

15:05-15:25



Title: Silicon spin-based quantum information devices

Tetsuo Kodera
Tokyo Institute of Technology, Japan

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東京工業大学
Tokyo Institute of Technology

15:25-15:45

Title: Optofluidics-based nanosensing platform for sensitive and selective detection of trace environmental pollutants

Feng Long
Renmin University of China, China

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RENMIN UNIVERSITY OF CHINA
1937
人民大学

Coffee Break 15:45-16:00 @ Bora Foyer

Time : 09:00-
12:35

Track 4: Nanotechnology in Food and Agriculture
Track 7: Nanotechnology in Energy Systems
Track 8: Environment, Health and Safety Issues of
Nanotechnology

Place : Fiji

Session Chair

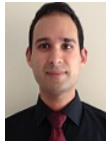




Bobby Kannan Mathan
James Cook University, Australia



Session Co-Chair



Krishna Feron
CSIRO & University of Newcastle, Australia



Session Introduction

09:00-09:20

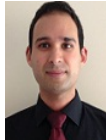


Title: Degradation control of biodegradable biomaterials using nanotechnology
Bobby Kannan Mathan
James Cook University, Australia



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09:20-09:40



Title: Nanoparticle organic solar cells
Krishna Feron
CSIRO & University of Newcastle, Australia



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09:40-10:00

Title: Braking of automobiles: A potential source of nanoparticulate emissions
Kukutschova Jana
VSB Technical University Ostrava, Czech Republic



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10:00-10:20



Title: Synthesis and characterization of the surface structure of thin film oxides for use as mixed conductors in electrochemical cells
Stephen Skinner
Imperial College London, UK



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10:20-10:40



Title: Surface structural analyses on elemental ratio and depth profile of Ti metal subjected to heat treatment in N₂ atmosphere after alkali and acid treatments
Alireza Valanezhad
Chubu University, Japan



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10:40-11:00



Title: Innovative energy harvesting nanostructures for organic-based solar cells
Hemali Rathnayake
Western Kentucky University, USA



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Coffee Break 11:00-11:15 @ Bora Foyer

11:15-11:35



Title: Hybrid-remediation with nano-size metallic calcium and iron dispersion for detoxification of multi-pollutants containing radioactive cesium, heavy metals and POPs in contaminated soil
Tetsuji Okuda
Hiroshima University, Japan



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11:35-11:55



Title: Novel approach for the extraction and immobilization of radioactive cesium from contaminated fly ash with nanometallic Ca/CaO methanol suspension



	Srinivasa Keddy Mallampati University of Ulsan, Korea	
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11:55-12:15	Title: Design and performance analysis acrylic coated small scale passive solar air heater M.T Naik JNT University, India	
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12:15-12:35	Title: Nanoparticles as novel insecticidal agent for crop protection Nitai Debnath Amity University Haryana, India	
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Lunch Break 12:35-13:05 @ Coral AB		
Time : 13:05-15:25	Track 6: Nano-electronics	Place : Fiji
Session Chair	Alexander Eisfeld Max-Planck-Institute for the Physics of Complex Systems, Germany	
Session Co-Chair	Peter A. Sloan University of Bath, UK	
Session Introduction		
13:05-13:25	Title: Recent development of Si chemical dry etching technologies Toshio Hayashi Nagoya University, Japan	
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13:25-13:45	Title: Rotational motion driven by single electron tunneling Alexander Eisfeld Max-Planck-Institute for the Physics of Complex Systems, Germany	
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13:45-14:05	Title: Crystal chemistry and band gaps in polycyclic aromatic hydrocarbons: A dispersion corrected DFT investigation Bohdan Schatschneider The Pennsylvania State University, USA	
Download Abstract & Biography		
14:05-14:25	Title: Molecular technology for atomic-level precise artificial atom Norifusa Satoh National Institute for Materials Science, Japan	
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14:25-14:45	Title: Breaking the single atom limit in atomic manipulation: Nonlocal STM induced manipulation on Si(111)-7x7 Peter A. Sloan University of Bath, UK	

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14:45-15:05


Title: *Coulomb brocade transport emerged in two dimensional organic polymer layers*
Megumu Akai-Kasaya
Osaka University, Japan
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15:05-15:25


Title: *Semiconductor nanowire field-effect transistors gated by metal nanowires*
Wen Bin Jian
National Chiao Tung University, Taiwan
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Coffee Break 15:25-15:40 @ Bora Foyer

Awards Presentation

Day 1Day 2

Welcome Banquet : 04-Dec-2013 Call for sponsor!

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