

Poster Session

26th February, 2009

Nano-Materials

- PM-1 *Towards thermo-conductive electrically insulating polymeric composites using BN nanotubes as fillers*
Yoshio Bando NIMS, JAPAN
- PM-2 *Novel Concept for Formation of Boron Nitride Nanoparticles*
Chengchun Tang NIMS, JAPAN
- PM-3 *Compositional design, structural analysis and property studies of one-dimensional (1D) wide band-gap semiconductor nanostructures*
Baodan Liu NIMS, JAPAN
- PM-4 *Multifunctional Boron Network Compounds as Novel Energy Materials*
Takao Mori NIMS, JAPAN
- PM-5 *Preparation and photoluminescence characterizations of Ln-photoactivated oxide nanosheets for new phosphor development*
Tadashi Ozawa NIMS, JAPAN
- PM-6 *A Topochemical Approach to Transition-metal Layered Double Hydroxide (LDH) Nanosheets*
Renzhi Ma NIMS, JAPAN
- PM-7 *Microwave-Polyol Synthesis of Size-Controlled ZnO Colloidal Nanocrystal Clusters*
Xianluo Hu JSPS Fellow, NIMS, JAPAN
- PM-8 *Fabrication of Selectivity Controllable Gas Sensor Film Composed by Hollow Mesoporous Carbon Capsules*
Qingmin Ji NIMS, JAPAN
- PM-9 *Supramolecular Complexes of Oligochromophores with substituted Fullerene*
Jonathan Hill NIMS, JAPAN
- PM-10 *Morphological Aspects of Phase Separation in Poly(Vinyl Methyl Ether) /Water/Ethanol Solutions*
Jan Labuta JSPS Fellow, NIMS, JAPAN
- PM-11 *A Convenient Preparation Method for Polymer/Carbon Nanotube Composites with A Core/Shell Structure by In Situ Polymerization Induced by UV Irradiation*
Xiao-Yan Yu NIMS, JAPAN
- PM-12 *Hierarchical self-assembly of OPV at the air-water interface*
Chithra Parayalil NIMS, JAPAN
- PM-13 *Fabrication of gold nanotape architecture using in-situ generated 1D template*
Saikat Mandal JSPS Fellow, NIMS, JAPAN

- PM-14 *Fluorescence response upon volatile organic solvents to oligo-phenylene phenols*
Ken Okamoto NIMS, JAPAN
- PM-15 *Towards N-Type Acene Derivatives for Organic Electronic Applications*
Gary James Richards NIMS, JAPAN
- PM-16 *Charged Molecules Manipulation Using Nano-Domain Patterned Ferroelectric Templates*
Kenji Kitamura NIMS, JAPAN
- PM-17 *Polymer Blends for Nano-structured Photovoltaic Effect*
Fumio Ohuchi University of Washington, U.S.A.
- PM-18 *Post-perovskite transition of the correlated 4d oxide CaRhO_3*
Kazunari Yamaura NIMS, JAPAN
- PM-19 *Superconducting properties of the oxygen-vacant iron oxyarsenide $\text{TbFeAsO}_{1-\delta}$*
Youguo Shi NIMS, JAPAN
- PM-20 *Formation of crystalline-oriented titania thin films on ITO glass electrodes by electrophoretic deposition in a strong magnetic field*
Mamiko Kawakita NIMS, JAPAN
- PM-21 *Correlation between applied pressure, homogeneity, properties and microstructure in pure ultrafine WC powder consolidated by Spark Plasma Sintering (SPS)*
Salvatore Grasso NIMS, JAPAN
- PM-22 *A Surface Chemistry Leading to the Unique Optical Properties from Silicon Nanoparticles*
Naoto Shirahata NIMS, JAPAN
- PM-23 *Improvements on sintering by optimizing the colloidal processing*
Suarez Gustavo NIMS, JAPAN
- PM-24 *Electric Properties of Nano-structured Metal Oxides I*
Naoki Ohashi NIMS, JAPAN
- PM-25 *Electric Properties of Nano-structured Metal Oxides II*
Jian-Yong Li NIMS, JAPAN
- PM-26 *Optically monitored wet chemical preparation of plasmonic nanostructures for surface enhanced IR absorption spectroscopy*
Dominik Enders NIMS, JAPAN
- PM-27 *Stepwise metal assembling dendrimers and the application to organic electronics devices and atom technology for novel metal oxide materials*
Norifusa Satoh Keio University, JAPAN
- PM-28 *Synthesis and Characterization of NIR-Emitting Semiconductor Nanocrystals*
Saim Emin Saitama University, JAPAN

Nano-System

- PS-1 *Fabrication and characterization of individual ZnO nanowires*
Makoto Sakurai NIMS, JAPAN
- PS-2 *Preparation of cell specimens for nanometrology*
Hiromi Kuramochi NIMS, JAPAN
- PS-3 *Conductive-area-controlled carbon nanotube probes for biological applications*
Hiroyuki Tomimoto NIMS, JAPAN
- PS-4 *Single molecule SERS with tungsten oxide nanorod*
Yoshitaka Shingaya NIMS, JAPAN
- PS-5 *MIS-Diode-Typed Reaction Stages for Nano-Bio Interfaces –Detection of Antigen-Antibody Interactions for Tumor Markers*
Makoto Sawamura NIMS, JAPAN
- PS-6 *Development of multiple-scanning-probe force microscope*
Seiji Higuchi NIMS, JAPAN
- PS-7 *Reversibility–controlled chemical reaction between fullerene molecules and its application for information storage devices*
Masato Nakaya NIMS, JAPAN
- PS-8 *Study of the switching mechanism for Ta₂O₅-based solid electrolyte resistive switch*
Tohru Tsuruoka NIMS, JAPAN
- PS-9 *Synthesis and characterization of ionic conductor nanowires for unique nanoionics devices*
Kazuya Terabe NIMS, JAPAN
- PS-10 *Radiation of Terahertz Electromagnetic Wave from High-T_c Superconductors*
Shizeng Lin NIMS, JAPAN
- PS-11 *Quasiparticles in anisotropic triangular antiferromagnets*
Masanori Kohno NIMS, JAPAN
- PS-12 *Fabrication and characterization of noble metal nanoparticle structures on the surface of highly ordered pyrolytic graphite wafer*
Xinli Guo NIMS, JAPAN
- PS-13 *Surface compositions and structures on α -phase Cu-9 at. % Al(111) alloy*
Yinghui Yu NIMS, JAPAN
- PS-14 *Auger Electron Spectroscopy and Surface Potential of Few Layer Graphene Films Grown on Polycrystalline Metal Surfaces*
Jianhua Gao NIMS, JAPAN
- PS-15 *Silicon nanoparticles as fluorescent labeling of living cells*
Keisuke Sato NIMS, JAPAN
- PS-16 *Selective molecular assembly for solution-based fabrication of organic field-effect*

transistors

Kazuhito Tsukagoshi NIMS, JAPAN

PS-17 *Superconductivity and Magnetic Ordering Induced by Yttrium-doping in AFe_2As_2 ($A = Sr, Ca$)*

Shen V. Chong University of Tsukuba, JAPAN

PS-18 *Several microwatt level of emission from rectangular shape Bi2212 mesa -improvement in radiation power and towards the realization of THz generator-*

Kazuhiro Yamaki University of Tsukuba, JAPAN

PS-19 *Terahertz Radiation from Cylindrical Structure of Intrinsic Josephson Junction System of $Bi_2Sr_2CaCu_2O_{8+\delta}$*

Manabu Tsujimoto University of Tsukuba, JAPAN

PS-20 *Probing Nanocapsules for Targeted Drug Delivery by Atomic Force Microscopy*

Adam Z. Stieg UCLA, USA

Nano-Green

PG-1 *Preparation of Nitrogen-Doped Lamellar Solid Acids with Visible Light-Responsive Photocatalytic Activities*

Xiukai Li NIMS, JAPAN

PG-2 *Semiconductor Nanoparticle Assemblies: Adjustable Band Gap and Photocatalytic Applications*

Tong Hua NIMS, JAPAN

PG-3 *Interfacial molecular structure at solid/liquid interfaces by surface sensitive vibrational spectroscopies.*

Hidenori Noguchi Hokkaido University, JAPAN

PG-4 *Single Molecule Manipulation in a Lipid Bilayer using Metal Nanogates*

Kei Murakoshi Hokkaido University, JAPAN

PG-5 *Chemoselective hydrogenolysis of tetrahydrofurfuryl alcohol to 1,5-pentanediol*

Shuichi Koso University of Tsukuba, JAPAN

PG-6 *Development of catalytic process of CO_2 conversion to organic carbonate*

Masayoshi Honda University of Tsukuba, JAPAN

Nano-Bio

PB-1 *Detection of Supported Lipid Bilayers Using Their Electric Charge*

Chiho Kataoka NIMS, JAPAN

PB-2 *Improved anti-thrombogenic and endothelial cell adhesive properties of citric acid-crosslinked collagen*

Tetsuhi Taguchi NIMS, JAPAN

- PB-3 *Electrospray Deposition as a New Method for Preparing Fine Drug Particles*
Kohsaku Kawakami NIMS, JAPAN
- PB-4 *Live cell-based sensor devices*
Akiyoshi Taniguchi NIMS, JAPAN
- PB-5 *Building a novel transcriptional regulator as a universal switch platform*
Tomohiko Yamazaki NIMS, JAPAN
- PB-6 *Bioreactivity of PEGylated gold surfaces constructed by mixed homo-/hetero-telechelic PEGs*
Keitaro Yoshimoto University of Tsukuba, JAPAN
- PB-7 *Evaluation of nanomaterials based on molecular biology*
Junko Okuda NIMS, JAPAN
- PB-8 *Construction of a antiferritin/mixed-PEG coimmobilized soft surface onto polystyrene nanospheres to improve its immunodiagnosis performance*
Xiaofei Yuan University of Tsukuba, JAPAN
- PB-9 *Cytoplasmic Delivery of siRNA Based on the Polyion Complex with Cross-Linked Polyamine Nanogels Directed to Enhance the Gene Silencing Efficiency*
Atsushi Tamura University of Tsukuba, JAPAN
- PB-10 *PEG-polyamine/DNA co-immobilized gold surfaces as a novel platform for DNA sensing: Comparison of PEG-b-polyamine layer and polyamine-g-PEG layer using XPS analysis*
Shinya Matsumoto University of Tsukuba, JAPAN
- PB-11 *Modulation of lysozyme activity by smart copolymer PEAMA-g-PEG: Recovery of its enzymatic activity after heat treatment using polyion complex chemistry*
Ganguli Sumon University of Tsukuba, JAPAN
- PB-12 *Luminescence-based Colorimetric Discrimination of Single-nucleotide Transversions by the Combined Use of the Derivatives of DOTA-conjugated Naphthyridine and Its Terbium Complex*
Hiroshi Atsumi University of Tsukuba, JAPAN
- PB-13 *Effects of Mixed-Poly(ethylene glycol) Tethered Chain Layer on Activity of Fab' Fragment on a Gold Sensor Surface*
Motohiko Nishio University of Tsukuba, JAPAN
- PB-14 *Cross-linked Polymer Micelles with Biodegradable Ionic Cores for Drug Delivery*
Tatiana K. Bronich University of Nebraska Medical Center, U.S.A.

MANA Independent Scientist

- PIS-1 *Atom-scale and Mesoscale Infrared Plasmonic Metrials*
Tadaaki Nagao NIMS, JAPAN

- PIS-2 *Effects of cation and oxygen doping on structural, physical, and chemical properties of multiferroic BiMnO₃ and BiCrO₃*
Alexei Belik NIMS, JAPAN
- PIS-3 *Highly Crystalline and Active Nanoporous Metallosilicate Nanocages*
Ajayan Vinu NIMS, JAPAN
- PIS-4 *Superconductivity of FeSe and related compounds*
Shunsuke Tsuda NIMS, JAPAN
- PIS-5 *A graphene-based double quantum-dot system*
Satoshi Moriyama NIMS, JAPAN

ICYS Researcher

- PIR-1 *Solution Synthesis, Cathodoluminescence, and Field-Emission Properties N-Doped ZnO Nanobullets*
Ujal Gautam NIMS, JAPAN
- PIR-2 *One-Dimensional (1D) Semiconductor ZnS Nanostructures -- Novel Functional Materials*
Xiaosheng Fang NIMS, JAPAN
- PIR-3 *A versatile application of electron-beam-induced current technique in semiconductor diagnosis*
Jun Chen NIMS, JAPAN
- PIR-4 *Fabrication of oriented oxide films by pulsed laser deposition using two-dimensional inorganic nanosheet as a seed layer*
Tatsuo Shibata NIMS, JAPAN
- PIR-5 *Development of Ordered Nanoporous Materials for Electrochemical Applications*
Pavuluri Srinivasu NIMS, JAPAN
- PIR-6 *Phase modulation of quasi-one-dimensional charge-density waves induced by impurities*
Canhua Liu NIMS, JAPAN
- PIR-7 *Deep-ultraviolet Diamond-based Photodetector for high-power excimer lamp*
Masataka Imura NIMS, JAPAN
- PIR-8 *An Efficient Route to Rattle-type Fe₃O₄@SiO₂ Hollow Mesoporous Spheres Using Colloidal Carbon Spheres Templates*
Yufang Zhu NIMS, JAPAN
- PIR-9 *ZnO nanostructures-mediated cell viability*
Mingsheng Xu NIMS, JAPAN
- PIR-10 *Ruthenium complexes for artificial endonucleases: DFT analysis of ligands and potential binding interactions with DNA*

Antonio Sanchez Torralba NIMS, JAPAN

PIR-11 *Effect of liquid superheating on liquid supercooling of Al particles*

Qingsong Mei NIMS, JAPAN

PIR-12 *Facile Synthesis of Ultralong Cadmium Chalcogenide Nanotubes by Sacrificial
Template Route from 1D Cadmium Hydroxide Nanowires Bundles*

Vaishali Shinde NIMS, JAPAN