

Poster Session

5th March, 2010

Nano-Materials

- PM-1 *Synthesis of Perovskite-Type Niobate Nanosheets Having a Variable Thickness Composed of (NbO₆)_n Octahedron (n=4-6)*
Yasuo Ebina NIMS, JAPAN
- PM-2 *Highly oriented monolayer film of layered hydroxide hexagonal platelet crystals and the topotactic transformation into oxide*
Renzhi Ma NIMS, JAPAN
- PM-3 *Self-assembly and selective molecular recognition by chiral Squaraine at air-water interface*
Parayalil Chithra NIMS, JAPAN
- PM-4 *Solar Synthesis of Hybrid Nanocomposites*
Jonathan P. Hill NIMS, JAPAN
- PM-5 *Photo-redox Switching of Quinone Fused Porphyrin*
Shinsuke Ishihara NIMS, JAPAN
- PM-6 *Designing lower critical solution temperature behavior into small molecules*
Jan Labuta JSPS Fellow, NIMS, JAPAN
- PM-7 *Design and control of two-dimensional nanoarchitectures by hand-operating nanotechnology*
Taizo Mori NIMS, JAPAN
- PM-8 *Solvent dependent polymorphism in hydrogen bonding networks based on pincer Pd complex*
Ken Okamoto NIMS, JAPAN
- PM-9 *Pyrazinacenes : Aza Analogues of Acenes*
Gary J. Richards NIMS, JAPAN
- PM-10 *Characterization, Cathodoluminescence and Field-Emission Properties of Morphology-Tunable CdS Micro/Nanostructures*
Tianyou Zhai NIMS, JAPAN
- PM-11 *In-situ TEM real-time recorded kinetics of C nanotube/W nanoparticle interactions*
Xianlong Wei NIMS, JAPAN
- PM-12 *In-situ HRTEM real-time resolved resistance switching of Ag₂S ionic conductor*
Zhi Xu NIMS, JAPAN
- PM-13 *Development of an age hardenable wrought magnesium alloy through twin roll casting*
Chemini Mendis NIMS, JAPAN

- PM-14 *Drastic suppression of the superconductivity of LaFeAsO_{0.85} by a nonmagnetic impurity*
Yanfeng Guo NIMS, JAPAN
- PM-15 *Magnetic and dielectric properties and specific heat analysis of InMnO₃-InGaO₃.*
Dmitriy Rusakov NIMS, JAPAN
- PM-16 *Colloidal CePO₄:Tb Nanorods for Fluorescent Sensing toward Vitamin C*
Weihua Di NIMS, JAPAN
- PM-17 *Tailoring Nanolayered Ti₃SiC₂ Ceramic in a Strong Magnetic Field*
Chunfeng Hu NIMS, JAPAN
- PM-18 *Electrochemical evaluation of anatase TiO₂ polycrystalline aggregations with different crystalline orientations*
Mamiko Kawakita NIMS, JAPAN
- PM-19 *Fabrication of highly oriented GaN nanopillars using Inductively coupled plasma reactive ion etching (ICP-RIE) technique*
Subhabrata Dhar Indian Institute of Technology Bombay, INDIA
- PM-20 *The effect of the environment on the photoluminescence of silica nanostructures*
Anindya Dutta Indian Institute of Technology Bombay, INDIA

Nano-System

- PS-1 *Application of Multiple-Scanning-Probe Force Microscope to Nanoscale Electrical Measurement*
Osamu Kubo NIMS, JAPAN
- PS-2 *In vitro Nanobiometrology of Living Cells*
Hiromi Kuramochi NIMS, JAPAN
- PS-3 *Optical Properties and Room-temperature Ferromagnetism of Indium-doped ZnO Nanowires*
Kewei Liu NIMS, JAPAN
- PS-4 *Rate-Limiting Processes Determining the Switching Time in a Ag₂S Atomic Switch*
Alpana Nayak NIMS, JAPAN
- PS-5 *Spin propagation in the geometry of the scanning tunneling microscope*
Makoto Sakurai NIMS, JAPAN
- PS-6 *Scanning nanoprobe for single molecule detection in liquid*
Yoshitaka Shingaya NIMS, JAPAN
- PS-7 *Application of end-active nano-probe to biological measurements*
Hiroyuki Tomimoto NIMS, JAPAN
- PS-8 *An Electrochemical Atomic Switch Based on Solid Polymer Electrolytes*

Shouming Wu NIMS, JAPAN

PS-9 *Competition Growth of Graphene Films and Carbon Nanowires on Pt(111) Surface*

Jian-Hua Gao NIMS, JAPAN

PS-10 *The resistive switching memory devices based on Ag-Ge-O solid electrolytes*

Hongxuan Guo NIMS, JAPAN

PS-11 *Half-Metallic Antiferromagnet of Hole-doped Perovskite Cuprate*

Shu-jun Hu NIMS, JAPAN

PS-12 *Emission of Terahertz Electromagnetic Waves from Cuprate Superconductors*

Shizeng Lin NIMS, JAPAN

PS-13 *Transport and Magnetic measurements in superconductor $Ba_{1-x}Y_xFe_2As_2$*

Tomoki Goya University of Tsukuba, JAPAN

PS-14 *Fabrication and Physical Properties of Rare-earth 123 based Whiskers*

Shinya Hashimoto University of Tsukuba, JAPAN

PS-15 *Emission characteristics from intrinsic Josephson junction Bi2212 mesa structures.*

T. Kashiwagi University of Tsukuba, JAPAN

PS-16 *Study on Shape Effects of THz Radiation from Bi-2212*

Manabu Tsujimoto University of Tsukuba, JAPAN

PS-17 *Self-assembly and thickness dependent transformation of epitaxial Au(111) thin films on striped Ag substrates*

Puneet Mishra NIMS, JAPAN

PS-18 *Sensing Immunointeraction of CEA by Reaction Stage on a Chip*

Makoto Sawamura NIMS, JAPAN

PS-19 *One-dimensional surface states on periodic stripe arrays of Ag films*

Takashi Uchihashi NIMS, JAPAN

PS-20 *Conductivity of single wall carbon nanohorns*

Jianxun Xu NIMS, JAPAN

PS-21 *Superconducting Characteristics of SQUID based on Graphite*

Yasushi Doda NIMS, JAPAN

PS-22 *Multiple Andreev Reflection In SQUID with self-assembled InAs Quantum Dot*

R. Ishiguro Tokyo Univ. of Science, JAPAN

PS-23 *Gate control of SQUID coupled with self-assembled InAs Quantum Dot*

Sunmi KIM NIMS, JAPAN

PS-24 *Spin-polarized Current Injection and Detection on p-InMnAs / n-InAs / Nb Junctions*

Nozomi Nishizawa NIMS, JAPAN

PS-25 *Characterization of Graphene on Insulator by Scanning Electron Microscope*

Hidefumi Hiura NIMS, JAPAN

PS-26 *Controlled charge injection barrier at the metal/organic semiconductor interface in*

organic field effect transistors with double-layered electrode

Akichika Kumatani NIMS, JAPAN

PS-27 *Low operating bias and enhanced voltage gain in graphene inverters with high capacitive-efficiency top gate*

Songlin Li NIMS, JAPAN

PS-28 *Self-Organized Phase Separation Organic Field-Effect Transistors (OFETs)*

Chuan Liu NIMS, JAPAN

PS-29 *Frequency response characteristics of capacitance and flat band voltage in metal-insulator-semiconductor structures based on pentacene films*

Xubing Lu NIMS, JAPAN

PS-30 *All-solution-processed assembly of organic field-effect transistor arrays*

Takeo Minari NIMS, JAPAN

PS-31 *Graphene p-n junction controlled by dielectric gate coupling*

Hisao Miyazaki NIMS, JAPAN

PS-32 *ZnO nanobuilding blocks: Relating the optical and magnetic properties*

M. Aslam Indian Institute of Technology Bombay, INDIA

PS-33 *Nanoscale Band-Gap Imaging and Photoluminescence Spectroscopy of Individual Quantum Dots in GaN/InGaN Quantum Well LEDs*

Arindam Chowdhury Indian Institute of Technology Bombay, INDIA

PS-34 *Structure and Electronic Properties of Self-Assembled Si-in-Si(001) Nanowire.*

James Owen University of Geneva, SWITZERLAND

PS-35 *Atomic Force Microscope-Induced Direct Deposition of Semiconductor Nanostructures*

Jessica Torrey University of Washington, USA

Nano-Green

PG-1 *Novel $Ba_{0.5}Sr_{0.5}(Co_{0.8}Fe_{0.2})_{1-x}Ti_xO_{3-\delta}$ ($x=0, 0.05, 0.1, 0.2$) cathode materials for proton-conducting SOFCs*

Lei Bi NIMS, JAPAN

PG-2 *Effect on structural and electrochemical properties of Sr substituted $PrBaCo_2O_{5+d}$ cathode for intermediate-temperature solid oxide fuel cells*

Edoardo Magnone NIMS, JAPAN

PG-3 *CeO₂/PLGA nanocomposites for regenerative medicine: Stem cell alignment induced by nanoparticle arrangement*

Corrado Mandoli NIMS, JAPAN

PG-4 *Proton Conductivity of Y-doped Barium Zirconate Thin Films*

Daniele Pergolesi NIMS, JAPAN

PG-5 Improved sinterability and electrochemistry properties of yttrium doped barium zirconate with the aid of lithium compounds

Ziqi Sun NIMS, JAPAN

PG-6 *A first-principles investigation of cerium oxide surface properties*

Marco Fronzi University of Sydney, AUSTRALIA

Nano-Bio

PB-1 *Conformation of Gomesin and its analogues, upon SDS monomers and micelles addition, studied by circular dichroism and fluorescence spectroscopies.*

Patricia Targon Campana Universidade de São Paulo, Brazil

PB-2 *Conformational stability of Manganese Superoxide Dismutase from the Filamentous Fungus Trichoderma reesei*

Daniel Zanetti de Florio Universidade Federal do ABC, Brazil

PB-3 *Generation of scaffoldless human cardiac patches using adult cardiac progenitor cells*

G. Forte Università di Roma "Tor Vergata", Italia

PB-4 *Three-dimensional scaffolds reproducing cardiac stem cell niche in vitro*

S. Pagliari Università di Roma "Tor Vergata", Italia

PB-5 *Label-free impedimetric detection of Single Nucleotide Polymorphism correlated to kidney disease*

Alessandra Bonanni NIMS, JAPAN

PB-6 *Intracellular glucose sensing using chimeric transcriptional regulator protein*

Tomohiko Yamazaki NIMS, JAPAN

PB-7 *Design of Enzyme/Polymer Complex for the Improvement of Heat Resistance of Enzymes*

Sumon Ganguli University of Tsukuba, JAPAN

PB-8 *Sol-Gel in PEGylated nanogel for the preparation of silica nanodots in nanogel*

Md. Amran Hossain University of Tsukuba, JAPAN

PB-9 *Specific Uptake of 5-Aminolevulinic Acid to Cancer Cell*

Shintarou Kugimiya University of Tsukuba, JAPAN

PB-10 *Preparation and Characterization of Highly Dispersible PEGylated Iron Oxide Nanoparticles*

Kodai Ujiie University of Tsukuba, JAPAN

PB-11 *Development of nitric oxide photogenerative polymer micelles*

Kazuhiro Yamaguchi University of Tsukuba, JAPAN

MANA Independent Scientist

- PIS-1 *Indium-Based Perovskites: a New Class of Near-Room-Temperature Multiferroics*
Alexei A. Belik NIMS, JAPAN
- PIS-2 *Impurity doping in silicon nanowires*
Naoki Fukata NIMS, JAPAN
- PIS-3 *Device Application of Organic-Metallic Hybrid Polymers for Electronic Paper*
Masayoshi Higuchi NIMS, JAPAN
- PIS-4 *Photoresponsive Biointerfaces for Engineering Cellular Functions*
Jun Nakanishi NIMS, JAPAN
- PIS-5 *Electronic structure of FeSe and its substitution effect*
Shunsuke Tsuda NIMS, JAPAN
- PIS-6 *Novel Optical Nano Sensing Systems and Those Applications to Biomedical Science*
Eriko Watanabe NIMS, JAPAN
- PIS-7 *Beyond Silica: New Chemical Design of Advanced Mesoporous Materials*
Yusuke Yamauchi NIMS, JAPAN
- PIS-8 *Suppression of Cell Adhesion on Well-defined "Concentrated" Polymer Brushes*
Chiaki Yoshikawa NIMS, JAPAN

ICYS Researcher

- PIR-1 *EBIC and TEM Investigations of Current Leakage Sites in High-k Gate Stacks*
Jun Chen NIMS, JAPAN
- PIR-2 *One-dimensional ZnS Nanostructures: From Synthesis to Application*
Xiaosheng Fang NIMS, JAPAN
- PIR-3 *One-dimensional titania-based photocatalysts using hydrothermal reaction for visible applications*
Mathieu Grandcolas NIMS, JAPAN
- PIR-4 *Three-dimensional Observation of Nanoparticles by Scanning Confocal Electron Microscopy*
Ayako Hashimoto NIMS, JAPAN
- PIR-5 *Implications of Unsaturated Carbon Bonds in Covalent Monolayers on Silicon*
Michael Lee NIMS, JAPAN
- PIR-6 *Microstructure and properties of NiTi alloys in response to surface mechanical attrition treatment (SMAT)*
Qingsong Mei NIMS, JAPAN
- PIR-7 *Engineering the properties of Heusler alloys for spintronic devices.*
Ammanabrolu Rajanikanth NIMS, JAPAN
- PIR-8 *Development of novel seed layer technique using 2D-nanosheets for high-quality film*

deposition

Tatsuo Shibata NIMS, JAPAN

PIR-9 *Templated synthesis and characterization of conductive polymeric nanowires*

Yasuhiro Shirai NIMS, JAPAN

PIR-10 *Biomaterials with Ordered Nanoporous Structures*

Pavuruli Srinivasu NIMS, JAPAN

PIR-11 *Specially Activated Nanoparticles for Near-Infrared Photonics*

Hong-Tao Sun NIMS, JAPAN

PIR-12 *Development of high field insert coils using coated conductors*

Davide Uglietti NIMS, JAPAN

PIR-13 *Determination of ZnO polarity using x-ray photoelectron diffraction*

Jesse Williams NIMS, JAPAN

PIR-14 *Energy Loss Mechanism in Dye Sensitized Solar Cell*

Xudong Yang NIMS, JAPAN

PIR-15 *Piezoresistive Cantilever Array Sensors*

Genki Yoshikawa NIMS, JAPAN

PIR-16 *Functional Carbon-Rich Materials for Sustainable Society*

Yuanjian Zhang NIMS, JAPAN

PIR-17 *Modified Hollow Mesoporous Spheres as Carriers for Drug Delivery*

Yufang Zhu NIMS, JAPAN