Poster Session

3rd March, 2011

Nano-Materials

PM-1 *Synthesis, Structure Characterization, and Photoluminescence of New Family of Layered Rare-earth Hydroxides Rigidly Pillared by Sulfate*

Jianbo Liang NIMS, JAPAN

PM-2 *An alkali-metal ion extracted layered compound as a precursor for metastable phase synthesis: Low temperature conversion of $K_{0.8}Ti_{1.73}Li_{0.27}O_4$ into brookite*

Tadashi C. Ozawa NIMS, JAPAN

PM-3 *Controlled Alignment of Fullerene Nanowhiskers through Self-Assembly at Air-Water Interface*

Venkata Krishnan NIMS, JAPAN

PM-4 *Mechanical Tuning of Molecular Machines for Nucleoside Recognition at the Air-Water Interface by the Hand-Operating Nanotechnology*

Taizo Mori NIMS, JAPAN

PM-5 *Self-assembly and Reassembly of Molecular Nanowires of Trigeminal Porphyrins*

Jonathan P. Hill NIMS, JAPAN

PM-6 *Two-Dimensional Nanodots Formation through Interfacial Organization*

Keita Sakakibara NIMS, JAPAN

PM-7 *Development of Stress-responsive Polymeric Drug Carrier*

Hironori Izawa NIMS, JAPAN

PM-8 *Pyrazinacenes : Aza Analogues of Acenes*

Gary J. Richards NIMS, JAPAN

PM-9 *BN nanospheres as CpG ODN carrier for activation of toll-like receptor 9*

Chunyi Zhi NIMS, JAPAN

PM-10 *Single-Crystalline $In_2Ge_2O_7$ Nanobelts for High-Performance Deep-Ultraviolet Solar-Blind Photodetectors*

Liang Li NIMS, JAPAN

PM-11 *Graphene-like BN nanoribbons: fabrication and improved conductivity*

Haibo Zeng NIMS, JAPAN

PM-12 *Phonon-Assisted Electron Emission from Individual Carbon Nanotube Shell*

Xianlong Wei NIMS, JAPAN

PM-13 *Mechanical properties of boron nitride nanobamboos by in situ TEM: the influence of nanointerface geometry*

Dai-Ming Tang NIMS, JAPAN

PM-14 *Molecule Manipulation on Patterned-Polar Surface of Ferroelectric Crystals*

Kenji Kitamura NIMS, JAPAN

PM-15 *Artificial Design of Perovskite Superlattices using Perovskite Nanosheets.*

Bao-Wen Li NIMS, JAPAN

PM-16 *$Ba_4XTa_{10}O_{30}$, X = Co, Mg, Zn, and Ni: Novel Quantum Paraelectric Compounds*

Lin Wang NIMS, CHINA

PM-17 *Nanostructural Carbide-Derived Carbon (CDC) Synthesized in Solutions*

Chunfeng Hu NIMS, JAPAN

PM-18 *Photo-electrochemical reaction rate of dye-sensitized solar cells composed of textured photo-anode.*

Mamiko Kawakita NIMS, JAPAN

PM-19 *Fabrication and Analysis of Oriented $LiCoO_2$ Using Slip Casting in a Strong Magnet Field*

Hideto Yamada University of Tsukuba, JAPAN

PM-20 *Nano-particles Formed by Pulsed Discharge of Powders Sealed in Tubes*

Satoru Ishihara Nagaoka University of Technology, JAPAN

PM-21 *Synthesis, Characterization and Application of ZnO Nanoparticles Encapsulated in Ordered Mesoporous Carbon*

Ulka Suryavanshi Nagoya Institute of technology, JAPAN

PM-22 *Combination of organic and inorganic materials for novel nanocapsule design*

Elena Kozhunova Lomonosov Moscow State University, Russia

PM-23 *Self-assembly of porphyrin and PAMAM dendrimer into a narrow size distribution*

Oxana Vyshivannaya Moscow State University, Russia

Nano-System

PS-1 *Conductive Polymer Chain Wiring to a Functional Molecule via Chemical Soldering*

Yuji Okawa NIMS, JAPAN

PS-2 *Giant improvement of the performance of ZnO nanowire photodetectors by Au nanoparticles*

Kewei Liu NIMS, JAPAN

PS-3 *Synthesis and Characterization of Single Layer Graphene on Single Crystal Metal Surfaces*

Jianhua Gao NIMS, JAPAN

PS-4 *Fractal Atomic Switch Arrays: Functional Nanotechnology*

Adam Z. Stieg UCLA, USA

PS-5 Switching Kinetics of a Cu-Ta_2O_5-based Gapless-type Atomic Switch

Tohru Tsuruoka NIMS, JAPAN

PS-6 *Atomic switching behaviors based on ionic conductive metal oxides*

Kazuya Terabe NIMS, JAPAN

PS-7 *Half-Metallic Antiferromagnet $BaCrFeAs_2$*

Shu-Jun Hu NIMS, JAPAN

PS-8 *Nonlocal Entangled Electrons Manipulated by Josephson Current*

Zhi Wang NIMS, JAPAN

PS-9 *Study on the Optimal Condition for Strong THz Radiation from High-T_c Superconductor BSCCO*

Feng Liu NIMS, JAPAN

PS-10 *Synthesis and Physical Properties in Single Crystalline Iron Based Superconductor 122-systems*

Hisato Yamaguchi University of Tsukuba, JAPAN

PS-11 *Radiation mode characteristics in single crystalline Bi2212 rectangular mesa structures*

Takanari Kashiwagi University of Tsukuba, JAPAN

PS-12 *THz emission from a triangular mesa structure of Bi-2212 IJJs*

Kaveh Delfanazari University of Tsukuba, JAPAN

PS-13 *THz Imaging System by Using the Intrinsic Josephson Junction Emitter*

Manabu Tsujimoto University of Tsukuba, JAPAN

PS-14 *Observation of enhanced spin contrast by spin-polarized scanning tunneling microscopy/spectroscopy of antiferromagnetic Mn films on Fe(100)*

Puneet Mishra NIMS, JAPAN

PS-15 *Irreversible and Reversible Structural Deformation and Electromechanical Behavior of Carbon Nanohorns Probed by Conductive AFM*

Jianxun Xu NIMS, JAPAN

PS-16 *Development of nanoprobe sensor for single biomolecule detection with high spatial resolution*

Yoshitaka Shingaya NIMS, JAPAN

PS-17 *Adsorption of oligothiophenes on Cu(111): Formation of 1D molecular chains and films*

Toshiyuki Kakudate NIMS, JAPAN

PS-18 *Application of tuning fork probe for multiple-scanning-probe measurement in various environments*

Osamu Kubo NIMS, JAPAN

PS-19 *Biosensing Chips for immunointeractions at a Liquid-Liquid Interface*

Makoto Sawamura NIMS, JAPAN

PS-20 *Biolelectrical measurements by nanoscale probes*

Hiroyuki Tomimoto NIMS, JAPAN

PS-21 *Synthesis and Characterization of Boron Nitride Nanosheets Coatings*

Amir Pakdel University of Tsukuba, JAPAN

PS-22 *Transport properties of Andreev polarons in junction with superlattice structure*

Ryotaro Inoue Tokyo University of Science, JAPAN

PS-23 *Self-assembled InAs Quantum Dot coupled to Superconducting Quantum interference device*

Sunmi Kim NIMS, JAPAN

PS-24 *SQUID with Nb-Ru-Sr_2RuO_4 junctions*

Ryosuke Ishiguro Tokyo University of Science, JAPAN

PS-25 *Development of graphene-based superconducting quantum interference device*

Kohei Tsumura NIMS, JAPAN

PS-26 *Anisotropic transport in epitaxial graphene on 4H-SiC(0001)*

Hiromi Kuramochi NIMS, JAPAN

PS-27 *Device Configuration for High Mobility in Solution-processed Organic Single Crystals Field-effect Transistors*

Yun Li NIMS, JAPAN

PS-28 *Solution-Processable Organic Single Crystals with Bandlike Transport in Field-Effect Transistors*

Chuan Liu NIMS, JAPAN

PS-29 *Effect Of Ultrathin Oxide Interlayer On Organic Thin Film Semiconductor Transistor Device Performance.*

Peter Darmawan NIMS, JAPAN

PS-30 *Surface selective growth of organic single crystals by solvent vapor annealing*

Akichika Kumatani NIMS, JAPAN

PS-31 *Complementary-like logic inverts with semiconducting graphene channels*

Songlin Li NIMS, JAPAN

PS-32 *Effect of ambient air exposure on metal/organic contact in organic semiconductor devices*

Takeo Minari NIMS, JAPAN

PS-33 *Formation of Graphene on Insulator by Liquid Phase Epitaxy*

Hidefumi Hiura NEC, JAPAN

PS-34 *Improving Graphene Quality Formed by Gallium Flux Liquid Phase Epitaxy*

Michael V. Lee NIMS, JAPAN

PS-35 *Tunnel effect through gate-controlled p-i-n junction in semiconducting bilayer graphene*

Hisao Miyazaki NIMS, JAPAN

PS-36 *Hole Doping Leads to Magnetism in Nanographene*

Sudipta Dutta NIMS, JAPAN

PS-37 *Nanomechanical Detection of Antibiotic-Mucopeptide Binding and Superbug Drug Resistance on Cantilever Arrays*

Manuel Vögtli University College London, UK

PS-38 *Nanoelectronics: Single strand DNA (ssDNA)- SET as a nano switch*

Vishal Sharma University of Jammu, INDIA

PS-39 *Metastable Phase Design for Nano-Functional or Structural Materials*

Choe Byung Hak Kangnung-Wonju National University, KOREA

Nano-Green

PG-1 *New hybrid materials containing cobalt particles and nitrogen-doped nanostructured carbon obtained by catalytic chemical vapour deposition route*

Aleksandra Pacula Polish Academy of Sciences, POLAND

PG-2 *Synthesis of metal nanostructures by electrochemical codeposition and dealloying*

Satoshi Tominaka NIMS, JAPAN

PG-3 *Effect of 4-tert-Butylpyridine on Quasi Fermi Level of Dye-Sensitized TiO_2 Films*

Shufang Zhang NIMS, JAPAN

PG-4 *Efficient Light Scattering of Rutile TiO_2 Nanorods for Dye-sensitized Solar Cell Application*

Masatoshi Yanagida NIMS, JAPAN

PG-5 *Effects of Al-introduction into $LiCoO_2$ on the electrode properties in solid-state lithium batteries*

Xiaoxiong Xu NIMS, JAPAN

PG-6 *Electro- and Photoelectrochemical Behaviors for Cesium Tungstate Nanosheet*

Kosho Akatsuka NIMS, JAPAN

PG-7 *Fabrication and ionic conducting properties of superlattices based on ceria and zirconia.*

Daniele Pergolesi NIMS, JAPAN

PG-8 *Tailored cathode materials for intermediate temperature SOFCs based on high temperature proton conductor electrolytes*

Emiliana Fabbri NIMS, JAPAN

PG-9 *A novel ionic diffusion strategy to fabricate high-performance anode-supported solid oxide fuel cells (SOFCs) with proton-conducting Y-doped $BaZrO_3$ films*

Lei Bi NIMS, JAPAN

PG-10 *Electrical Property of the Thin-film Co-doped Ceria*

Shobit Omar NIMS, JAPAN

PG-11 *Novel PLGA-In situ Ceria-Hydroxyapatite Nanocomposite Scaffolds for Bone Tissue Engineering Applications*

Rohit Khanna NIMS, JAPAN

PG-12 *Design of bio-organic/inorganic scaffolds with surface functionalization*

Tamaki Naganuma NIMS, JAPAN

PG-13 *Assessment of citotoxicity of functional nano-materials aimed to cancer treatment*

Claudia Carmignano NIMS, JAPAN

PG-14 *Fine Tuning The Architecture Of 3D PLLA Scaffolds Made By Directional Thermally Induced Phase Separation (TIPS) Method*

Corrado Mandoli NIMS, JAPAN

PG-15 *Visible Light Photoactivity from Electronic Coupling Assembly of TiO_2 Nanocrystals*

Hua Tong NIMS, JAPAN

PG-16 *Facile Synthesis of Rhombic Dodecahedral AgX/Ag_3PO_4 (X=Cl, Br, I) Hetero-crystals with Enhanced Photocatalytic Properties and Stabilities*

Yingpu Bi NIMS, JAPAN

PG-17 *A first principle investigation of ZrO_2-CeO_2 heterojunction properties*

Marco Fronzi NIMS, JAPAN

PG-18 *Zinc Ions in Cell Culture Media and Serum form Insoluble Zinc Nanoparticles*

Martin B. Duriska Monash University, Austraria

PG-19 **Jennifer Rupp** NIMS, JAPAN

Nano-Bio

PB-1 *"Smart" immunoconjugates for purification and enrichment in a microfluidic immunoassay*

John M. Hoffman University of Washington, USA, NIMS, JAPAN

PB-2 *Stepwise tissue development-mimicking matrices for the regulation of stem cell differentiation.*

Takashi Hoshiba NIMS, JAPAN

PB-3 *Integration of Light-induced pH-jump Reaction Into Smart Hydrogels For Their Spatial Shrinking Control*

Prapatsorn Techawanitchai University of Tsukuba, JAPAN

PB-4 *Immortalized cardiac stem cell lines: an invaluable tool to challenge scaffolds for cardiac tissue engineering*

Giancarlo Forte NIMS, JAPAN

PB-5 *Effects of branch number and chain Length of star-shape poly(ε-caprolactone) on elastic properties of the cross-linked films*

Swapan Kumar Saha NIMS, JAPAN

PB-6 *Corrosion Behavior of Hydroxyapatite-coated AZ31 Magnesium Alloy in Simulated Body Fluids*

Sachiko Hiromoto NIMS, JAPAN

PB-7 *Design of photo-crosslinkable and stimuli-responsive nanofiber mats for cell manipulation*

Young-Jin Kim NIMS, JAPAN

PB-8 *Manipulation of Stem Cell Function by Geometric Micropatterns*

Wei Song NIMS, JAPAN

PB-9 *Porous scaffolds with open surface pore structure for tissue engineering*

Hongxu Lu NIMS, JAPAN

PB-10 *Monitoring the Titanium Dioxide induced Inflammation by Modified Sensing Cells using NF-κB activation pathway*

Peng Chen NIMS, JAPAN

PB-11 *Development of a novel oligonucleotide carrier possessing reactive oxygen species scavenging ability*

Yutaka Ikeda University of Tsukuba, JAPAN

PB-12 *Scavenging in reactive oxygen species improves gene expression in polyplex supported gene delivery*

Kazuko Toh University of Tsukuba, JAPAN

PB-13 *Combination Nanotherapy –Drug Delivery by Antioxidative Nanocarrier*

Pennapa Chonpathompikunlert University of Tsukuba, JAPAN

MANA Independent Scientist

PIS-1 *Quantum Transport in Graphene Nanostructures*

Satoshi Moriyama NIMS, JAPAN

PIS-2 *Electronic and magnetic properties of graphene nanoribbons with edge modification*

Katsunori Wakabayashi NIMS, JAPAN

PIS-3 *A Novel Shortened Electrospun Nanofiber with "Concentrated" Polymer Brush*

Chiaki Yoshikawa NIMS, JAPAN

PIS-4 *Inelastic photoemission spectroscopy for surface vibrational analysis*

Ryuichi Arafune NIMS, JAPAN

PIS-5 *First-principles calculation study on redox reactivity of diamond(111)/water interface*

Yoshitaka Tateyama NIMS, JAPAN

PIS-6 *Strategical Design of Functional Mesoporous Materials toward Practical Applications*

Yusuke Yamauchi NIMS, JAPAN

PIS-7 *Spectroscopic study on $NaOsO_3$*

Tsuda Shunsuke NIMS, JAPAN

ICYS Researcher

PIR-1 *Recent Progresses on One-Dimensional CdS Nanostructures*

Zhai Tianyou NIMS, JAPAN

PIR-2 *Phosphorus-Doped Polymeric Carbon Nitride Solids*

Yuanjian Zhang NIMS, JAPAN

PIR-3 *Smart Magnetic Materials with non-Volatile Memory Effect*

Fatin Hajjaj NIMS, JAPAN

PIR-4 *Metal-Metal Interaction Induced Drastic Color Change by Simply Mixing of Pt- and Rh-Complexes*

Hisanori Ueki NIMS, JAPAN

PIR-5 *Single-Electron Tunneling via Molecular Dots Embedded in a Metal-Insulator-Semiconductor Structure*

Ryoma Hayakawa NIMS, JAPAN

PIR-6 *Physical Synthesis of Rationally Designed Plasmonic Nanoparticles*

Jung-Sub Wi NIMS, JAPAN

PIR-7 *Low temperature synthesis of a layered oxyfluoride Sr_3Fe_2O6F*

Yoshihiro Tsujimoto NIMS, JAPAN

PIR-8 *Synthesis and characterization of C_{60} microcrystals at liquid-liquid interface: Effects of solvents and antisolvents*

Lok Kumar Shrestha NIMS, JAPAN

PIR-9 *Recent developments in linear-scaling DFT convergence methods using Conquest: Applications to biomolecules in aqueous solution*

Antonio S. Torralba NIMS, JAPAN

PIR-10 *Production of Extended Single-Layer Graphene*

Mingsheng Xu NIMS, JAPAN

PIR-11 Photoelectron diffraction study on polar ZnO surface

Jesse Williams NIMS, JAPAN

PIR-12 *An Ubiquitous Element Strategy to Reduce the Use of Precious Metals in Thermal Barrier Coatings*

Rudder Wu NIMS, JAPAN

PIR-13 *Ultrabroad Near Infrared Photoluminescence from Bismuth Embedded Zeolites*

Hong-Tao Sun NIMS, JAPAN

PIR-14 *LaB_6 Single Nanowire Field Emitter: The Ideal Cold Electron Point Source*

Han Zhang NIMS, JAPAN

PIR-15 *Unipolar Assembly of ZnO Rods: Polarity Driven Collective Luminescence*

Ujjal K. Gautam NIMS, JAPAN

PIR-16 *Quantum dot sensitized solar cells*

Vaishali R. Shinde NIMS, JAPAN

PIR-17 *Demonstration of AlN/Diamond Heterostructure Field Effect Transistors*

Masataka Imura NIMS, JAPAN

PIR-18 **Zoe Schnepp** NIMS, JAPAN