

Poster Session
March 2nd, 2012

Nano-Materials

- PM-1** *High-pressure synthesis of new layered cobalt oxyfluoride $Sr_2CoO_{3+x}F_{1-x}$*
Yoshihiro Tsujimoto (ICYS-MANA Researcher, NIMS)
- PM-2** *Electron emission from individual graphene nanoribbons driven by an internal electric field*
Xianlong Wei (ICYS-MANA Researcher, NIMS)
- PM-3** *Tailor-made nanoferroelectric from perovskite nanosheets*
Bao-Wen Li (MANA, NIMS)
- PM-4** *Gene reverse transfection mediated by vertical fin silica film*
Qingmin Ji (MANA Scientist, NIMS)
- PM-5** *Layered rare-earth hydroxides: unique combination of rare-earth hosts and exchangeable anions*
Fengxia Geng (MANA, NIMS)
- PM-6** *Synthesis of boron nitride nanotubes and their potentials for light metal composite reinforcement*
Maho Yamaguchi (MANA, NIMS)
- PM-7** *Mechanical properties of Si nanowires as revealed by in situ transmission electron microscopy and molecular dynamics simulations*
Dai-Ming Tang (MANA, NIMS)
- PM-8** *Self-grown 3D bubble-networks of graphene and few-layered BN*
Xuebin Wang (MANA, NIMS)
- PM-9** *Local temperature measurement by a nanothermocouple assembled in TEM*
Naoyuki Kawamoto (MANA Scientist, NIMS)
- PM-10** *NMR detection of enantiomeric purity using achiral porphine derivatives.*
Jan Labuta (MANA, NIMS)
- PM-11** *Structural, optical and electronic properties of molecular superlattice*
Nobuya Hiroshiba (MANA, NIMS)
- PM-12** *Coercivity mechanism of Nd-Fe-B magnets studied by multi-scale characterizations and micro-magnetic simulations*
Hossein Sepehri-Amin (ICYS-Sengen Researcher, NIMS)
- PM-13** *Oriented cell growth guided with programmably degradable and non-toxic fullerene nanowhiskers*
Venkata Krishnan (MANA, NIMS)
- PM-14** *BiGaO₃-based perovskites: A large family of polar materials*
Alexei Belik (MANA Independent Scientist, NIMS)
- PM-15** *Nanomaterials by decomposition of coordination complexes*
Jonathan Patrick Hill (MANA Scientist, NIMS)
- PM-16** *Synthesis and characterization of carbon-doped boron nitride nanosheets*
Amir Pakdel (MANA, NIMS)
- PM-17** *Oxygen tracer diffusion in Ba-Fe-based perovskite*
Ken Watanabe (ICYS-MANA Researcher, NIMS)
- PM-18** *Advanced determination of the nanostructure in materials: the truth is out there*
Brian Richard Pauw (ICYS-Sengen Researcher, NIMS)
- PM-19** *Synthesis and transport properties of the topological insulator $Bi_{1.5}Sb_{0.5}Te_{1.8}Se_{1.2}$*
Pradip Das (University of Tsukuba)

- PM-20** *Synthesis of a forest of double/triple walled CNTs of uniform diameters by plasma enhanced CVD using monodisperse iron oxide nanoparticles*
Ankur Baliyan (Toyo University)
- PM-21** *Synthesis, characterization and self-assembly of Cu₂S nanocrystals*
Aby Cheruvathoor Poulose (Toyo University)

Nano-System

- PS-1** *Thickness-sensitive carrier transport in MoS₂ field-effect transistors*
Songlin Li (ICYS-Sengen Researcher, NIMS)
- PS-2** *Features of human memory observed in a Cu₂S gap-type atomic switch*
Alpana Nayak (MANA, NIMS)
- PS-3** *Formation of hexagonal graphite crystals embedded in films on silicon carbide*
Michael Vernon Lee (MANA, NIMS)
- PS-4** *Rate-determining factors in the tip-induced chain polymerization*
Yuji Okawa (MANA Scientist, NIMS)
- PS-5** *Direct formation of organic semiconducting single crystals by solvent vapor annealing on polymer base film*
Chuan Liu (MANA, NIMS)
- PS-6** *High performance thienoacene-based organic field-effect transistors with chemically doped contact*
Takeo Minari (MANA Scientist, NIMS)
- PS-7** *Patterned plate-like organic crystals from direct spin-coating for field-effect transistor arrays*
Yun Li (MANA, NIMS)
- PS-8** *New aspects of light emission from scanning tunneling microscope*
Makoto Sakurai (MANA Scientist, NIMS)
- PS-9** *Scattering mechanism in graphene grown through chemical vapor deposition*
Haisheng Song (MANA, NIMS)
- PS-10** *Random nano-gap architecture for label-free in situ broad-band antenna*
Chung Hoang (MANA, NIMS)
- PS-11** *Plasmons in reduced dimensions and on atomic to nano scale*
Tadaaki Nagao (MANA Group Leader, NIMS)
- PS-12** *Steady-state two-level population inversion using photonic crystals*
Hiroyuki Takeda (ICYS-Sengen Researcher, NIMS)
- PS-13** *Single-atomic-layer superconductor on a silicon surface*
Takashi Uchihashi (MANA Scientist, NIMS)
- PS-14** *Nanomechanical- profiling as marker for cancer drug sensitivity*
Shivani Sharma (UCLA, USA)
- PS-15** *Integration of photo-assisted atomic switches*
Takami Hino (MANA, NIMS)
- PS-16** *Spin and charge excitation spectrum of doped graphene nanoribbons*
Katsunori Wakabayashi (MANA Independent Scientist, NIMS)
- PS-17** *Direct-fabrication of plasmonic nanoparticles by top-down physical routes*
Jung-Sub Wi (ICYS-MANA Researcher, NIMS)
- PS-18** *AgOAc@CNHox hybrid film as an inorganic neuromorphic system*
Jianxun Xu (MANA, NIMS)

- PS-19** *Novel measurement for carcinoembryonic antigen-antibody interactions under an electric field with 100-nm-scale inter-electrode distance*
Makoto Sawamura (MANA, NIMS)
- PS-20** *Scanning tunneling spectroscopy of periodic stacking-fault arrays on Au films grown on striped Ag template*
Puneet Mishra (MANA, NIMS)
- PS-21** *Antenna sensing of surface phonon polaritons: Multipolar excitations and electromagnetic induced transparency*
Frank Neubrech (University of Heidelberg, GERMANY)
- PS-22** *Field-induced single-electron transport in graphene nanostructures*
Satoshi Moriyama (MANA Independent Scientist, NIMS)
- PS-23** *High energy resolution two photon photoemission spectroscopy*
Ryuichi Arafune (MANA Independent Scientist, NIMS)
- PS-24** *Electron transport of graphene measured by multiple-probe atomic force microscopes*
Osamu Kubo (MANA Scientist, NIMS)
- PS-25** *Ink-jet printed atomic switches based on polymer electrolytes*
Saumya R. Mohapatra (MANA, NIMS)
- PS-26** *AFM observation of morphological change induced by light irradiation on WO_x nanorods*
Yoshitaka Shingaya (MANA Scientist, NIMS)
- PS-27** *SQUIDS with Nb/Ru/Sr₂ RuO₄ junctions*
Ryosuke Ishiguro (Tokyo University of Science)

Nano-Green

- PG-1** *Advanced functional nanoporous/mesoporous materials*
Yusuke Yamauchi (MANA Independent Scientist, NIMS)
- PG-2** *High-performance anodes for lithium-ion batteries: N-doped graphene-SnO₂ sandwich paper, self-stacked Co₃O₄ nanosheets, coaxial Cu-Si@C arrays*
Xi Wang (MANA, NIMS)
- PG-3** *Plasmon enhanced nanorod hetero-junction solar cells*
Gui Han (MANA, NIMS)
- PG-4** *Li_{0.33}La_{0.55}TiO₃ epitaxial thin film growth on conductive single crystal substrate*
Tsuyoshi Ohnishi (MANA Scientist, NIMS)
- PG-5** *Preparation of LiCoO₂ epitaxial thin films by sol-gel method*
Taeri Kwon (MANA, NIMS)
- PG-6** *Water contamination effect on liquid acetonitrile / TiO₂ anatase (101) interface for durable dye-sensitized solar cell*
Masato Sumita (MANA, NIMS)
- PG-7** *Protonated carboxyl anchor for stable adsorption of N749 Ru dye on TiO₂ anatase (101) surface*
Keitaro Sodeyama (MANA, NIMS)
- PG-8** *Charge generation and recombination in dye-sensitized solar cells: The influence of molecular interactions on photo-excited states*
Xudong Yang (ICYS-Sengen Researcher, NIMS)
- PG-9** *High-performance solar-blind one-dimensional nanostructure photodetectors*
Tianyou Zhai (ICYS-MANA Researcher, NIMS)

- PG-10** *The size-dependent Mie's scattering effect on TiO₂ spheres for the superior photoactivity of H₂ evolution*
Hua Xu (MANA, NIMS)
- PG-11** *Synthesis of micromesoporous Zn₂GeO₄ photocatalyst by template-free route*
Ning Zhang (MANA, NIMS)
- PG-12** *Structure of interfacial water structure on (photo) energy conversion systems studied by sum frequency generation (SFG) spectroscopy*
Hidegori Noguchi (MANA Scientist, NIMS)
- PG-13** *Preparation of electrocatalysts from molecules by bottom-up methods*
Yukihisa Okawa (MANA, NIMS)
- PG-14** *The pH effect on oxygen reduction reaction at gold electrode surface analyzed by electrochemical quartz crystal microbalance*
Sheng-Fu Tong (MANA, NIMS)

Nano-Bio

- PB-1** *Hydroxyapatite-specific binding peptides*
Tomohiko Yamazaki (MANA Scientist, NIMS)
- PB-2** *Photoactivatable culture substrate for the assay of collective cell migration*
Jun Nakanishi (MANA Independent Scientist, NIMS)
- PB-3** *Nanothick hydrogel micropatterns for single cell manipulation*
Wei Song (MANA, NIMS)
- PB-4** *Preparation of 3D porous collagen scaffolds with micropatterned biological molecules*
Hwanhee Oh (MANA, NIMS)
- PB-5** *Development of nano-structured biomimetic autologous ECM scaffolds*
Hongxu Lu (MANA, NIMS)
- PB-6** *Proliferation and differentiation of stem cells on gradient micropatterned surface*
Naoki Kawazoe (MANA, Scientist NIMS)
- PB-7** *Poly(ethylene glycol)-b-Poly(acrylic acid) (PEG-b-PAAc) mediated signal enhancement for aptamer-protein interactions by surface plasmon fluorescence spectroscopy*
Lakshmi Priya Thangavel (University of Tsukuba)
- PB-8** *Development of nitroxide radical-containing nanoparticle for treatment of acute kidney injury*
Toru Yoshitomi (University of Tsukuba)
- PB-9** *Facile and quantitative synthesis of PEGylated oligonucleotides by newly designed solid-phase support*
Hirohichi Kawasaki (University of Tsukuba)
- PB-10** *Physiologically stable PEGylated Silica/Gold hybridized nanoparticles for high performance biomaterials*
Md. Amran Hossain (University of Tsukuba)
- PB-11** *Enhancement of therapeutic effect on ulcerative colitis by accumulation of redox nanoparticles in colonic mucosa*
Long Binh Vong (University of Tsukuba)
- PB-12** *Effects of nitroxide radical-containing nanoparticles suppress inflammation-induced edema and pain behavior in mice*
Pennapa Chonpathompikunlert (University of Tsukuba)
- PB-13** *Novel redox flower micelle for chronic inflammation treatments*
Min Ley Pua (University of Tsukuba)

- PB-14** *Redox-nanoparticle assisted delivery of combinational drugs for prostate cancer*
Sindhu Thangavel (University of Tsukuba)
- PB-15** *Oral administration of indomethacin-loaded redox nanoparticles for enhancement of bioavailability of indomethacin and suppression of its side effect*
Sa Sa (University of Tsukuba)
- PB-16** *PEG/Aptamer co-immobilized gold surface for high performance SAW sensing*
Seigo Miyachi (University of Tsukuba)
- PB-17** *Synthesis and application of a novel poly(ethylene glycol) possessing bivalent aldehyde for the branched PEGylation with a protein*
Jinya Katamachi (University of Tsukuba)
- PB-18** *Design of estradiol conjugated phosphorylcholine-chitosan for stem cell-based therapy of cardiovascular diseases*
Sayaka Toita (University of Montreal, CANADA)
- PB-19** *Synthesis of gold nanoparticles for plasmon-induced controlled release*
Fabien Perineau (University of Montreal, CANADA)
- PB-20** *Silica nanoformulation mediated disruption of vasculogenesis in medaka embryos - approach towards patho-angiogenic therapeutics*
Srivani Veerananarayanan (Toyo University)