Poster Session

27th February, 2013

ICYS Researcher

PIR-1 *Adjusting interlayer-space of layered-double-hydroxide at Sub-Ångström precision based on homogeneous*

Shinsuke Ishihara (ICYS-MANA Researcher, NIMS)

PIR-2 *Roles of trichomes with silica particles on the surface of a leaf in Aphananthe aspera*

Hiroyuki Takeda (ICYS-Sengen Researcher, NIMS)

PIR-3 *Control of order of phase transition by distortion effect in frustrated spin system*

Ryo Tamura (ICYS-Sengen Researcher, NIMS)

PIR-4 *Carrier scattering mechanism in MoS_2 atomic sheets*

Song-Lin Li (ICYS-MANA Researcher, NIMS)

PIR-5 *Characterization of pentacene-C_{60} on $Ti0_2$(101) by simultaneous STM/AFM*

Ce'sar Moreno (ICYS-Sengen Researcher, NIMS)

PIR-6 *Revealing the anomalous tensile properties of WS_2 nanotubes by in situ transmission electron microscopy*

Dai-Ming Tang (ICYS-MANA Researcher, NIMS)

PIR-7 *Synthesis of mesoporous titania thin films and its application to organic-inorganic hybrid solar cells*

Norihiro Suzuki (ICYS-Sengen Researcher, NIMS)

PIR-8 *Micromagnetic simulations of magnetization reversals in Nd-Fe-B permanent magnets*

Hossein Sepehri-Amin (ICYS-Magne Researcher, NIMS)

PIR-9 *An ultra-bright and monochromatic electron point source enabled by nanotechnology*

Han Zhang (ICYS-Sengen Researcher, NIMS)

PIR-10 *Single-layer graphene growth on single crystal Pt(111) substrate*

Jianhua Gao (ICYS-Sengen Researcher, NIMS)

PIR-11 *Self assembled monolayer (SAM): surface without bulk*

Hicham Hamoudi (ICYS-MANA Researcher, NIMS)

PIR-12 *Oxygen tracer diffusion in Ba-Fe-based perovskite*

Ken Watanabe (ICYS-MANA Researcher, NIMS)

PIR-13 *Micelles, gels and sheets: creating order from disorder in hydrophobic amphiphiles*

Martin Hollamby (ICYS-Sengen Researcher, NIMS)

Nano-Materials

PM-1 *Highly emissive thermoformable conjugated polymers: a benefit of lacking $\pi-\pi$ stacking*

Chengjun Pan （Polymer Materials Unit, NIMS）

PM-2 *Phosphorescence from pure organic fluorene derivative in solution at room temperature*

Jinjia Xu （Polymer Materials Unit, NIMS）

PM-3 *Exploration of mid-temperature alkali-metal ion extraction from layered compounds using polytetrafluoroethylene and alkali-metal ion extracted layered compounds as precursors for metastable phase synthesis*

Tadashi Ozawa （MANA, NIMS）

PM-4 *Synthesis and FRET properties of alternating donor–acceptor copolymer featuring orthogonally arrayed transition dipoles along polymer backbone*

Soichiro Ogi （Polymer Materials Unit, NIMS）

PM-5 *Controlled growth of patterned WO_2 nanowire arrays on ITO glass substrate*

Fei Liu （Sun Yat-sen University）

PM-6 *Utilization of multiwalled boron nitride nanotubes for the reinforcement of lightweight aluminum and aluminum alloy ribbons*

Maho Yamaguchi （MANA, NIMS）

PM-7 *A first principles study of electronic and elastic properties in borides*

Ryoji Sahara （Tohoku University）

PM-8 *A cyanurate gel derived from two different hydrogen-bonding Interactions in a binary system:evidence for the driving forces in gel formation.*

Sung Ho Jung （Gyeongsang National University）

PM-9 *Luminescent metal-organic framework-functionalized graphene oxide nanocomposites and reversible detection of high explosives*

Ji Ha Lee （Gyeongsang National University）

PM-10 *Synthesis of highly active and thermally stable nanostructured Pt/Clay materials by clay mediated In situ reduction*

Dharmesh Varade （Kawamura Institute of Chemical Research）

PM-11 *A large family of polar materials in $BiGaO_3$-Based perovskites*

Alexei A. Belik （MANA Independent Scientist, NIMS）

PM-12 *A new lead-free $RbBiNb_2O_7$ ferroelectric with high curie temperature*

Bao-Wen Li （MANA, NIMS）

PM-13 *Mechanistic Study on Topochemical Transformation of Redoxable Transition-metal Hydroxides*

Renzhi Ma (MANA Scientist, NIMS)

PM-14 *Study of electron spin resonance for $EuFe_2(As_{1-x}P_x)_2$ single crystals.*

Takanari Kashiwagi （University of Tsukuba）

PM-15 *Design and analysis of the radiation pattern for the high-T_c superconducting THz source*

Manabu Tsujimoto （University of Tsukuba）

PM-16 *Morphology-controlled nonwetting properties of BN nanostructure films*

Amir Pakdel (MANA, NIMS)

Nano-System

PS-1 *Charge carrier generation and transportation along single planar polythiophene*

Kazunori Sugiyasu （Polymer Materials Unit, NIMS）

PS-2 *Peptide-based neuromorphic nanostructures*

Rhiannon Creasey （MANA, NIMS）

PS-3 *A guideline to estimate the phase transition density of thin plate-like nanoparticles*

Hitomi Nomura （Institute for Molecular Science）

PS-4 *Approaching an inherent transport in atomically thin MoS_2 on crystalline hexagonal boron nitride substrates*

Mei Yin Chan （MANA, NIMS）

PS-5 *Towards atomically precise manufacturing*

James Hugh Gervase Owen (Zyvex Labs)

PS-6 *Energy-dependent phase-shift of electrons scattered in 2D subband states*

Katsumi Nagaoka (MANA, NIMS)

PS-7 *Effects of dynamics of molecule and surface plasmons on light emission Induced by scanning tunneling microscopy*

Kuniyuki Miwa (Osaka University)

PS-8 *Tunability of bilayer graphene junctions using a novel bandgap engineering*

Alex Aparecido Ferreira (MANA, NIMS)

PS-9 *Selective adsorption of thiol molecules to sulfur vacancies on MoS_2(0001), and repair of the vacancies via s-c dissociation*

Marina Makarova (MANA, NIMS)

PS-10 *An improved MCMC of Heisenberg-model as an example of reduced usage of FFT*

Kazuhito Shida (IMR, Tohoku University)

PS-11 *Anomalous behavior of supercurrent in ultra-small Josephson junction, and its application*

Daisuke Sakuma (Tokyo University of Science)

PS-12 *Spectroscopic STM studies of Pt-porphyrin molecules on Cu(111)*

Puneet Mishra (MANA, NIMS)

PS-13 *Joule's law for charge injection understanding in organic transistors*

Yong Xu (MANA, NIMS)

PS-14 *Transport property of interface between domains of epitaxial CVD graphene*

Yui Ogawa (Kyushu University)

PS-15 *Superconducting quantum interference devices based on Sr_2RuO_4*

Ryosuke Ishiguro (Tokyo University of Science)

PS-16 *Field-induced quantum dots in graphene mesoscopic structures*

Satoshi Moriyama (MANA Independent Scientist, NIMS)

PS-17 *Magnetic properties of multicomponent superconductors with time-reversal symmetry breaking*

Yuki Takahashi (MANA, NIMS)

PS-18 *Proposal for manipulation of Majorana fermions in topological superconductors towards quantum computation*

Qifeng Liang (Theoretical physics unit, NIMS)

PS-19 *Development of compact multiple scanning probe force microscope for electrical measurement of neuromorphic nanodevice*

Yoshitaka Shingaya (MANA Scientist, NIMS)

PS-20 *Superconducting characteristics of Si(111)-($\sqrt{7}\times\sqrt{3}$)-In covered with phthalocyanines*

Shunsuke Yoshizawa (MANA, NIMS)

PS-21 *AgX@CNHox hybrid film as an inorganic neuromorphic system*

Jianxun Xu (MANA, NIMS)

PS-22 *Comprehensive developments of nanomechanical sensors; MSS*

Genki Yoshikawa (MANA Independent Scientist, NIMS)

PS-23 *Low-temperature, fully-printed organic electronics using novel Au nanoparticle electrodes*

Takeo Minari (MANA Independent Scientist, NIMS)

PS-24 *Vibrational spectroscopic study on adsorption state of CO on Ag(001)*

Ryuichi Arafune (MANA Independent Scientist, NIMS)

PS-25 *Theoretical and experimental studies of atomic switch networks for reservoir computing*

Adam Stieg (UCLA)

Nano-Power

PP-1 *Synthesis of highly Li-ion conductive $Li_{3}xLa_{2}/_{3-x}TiO_{3}$ epilayers by composition control*
Tsuyoshi Ohnishi (MANA Scientist, NIMS)

PP-2 *Synthesis of $LiCoO_{2}$ epitaxial thin film on single crystal $SrTiO_{3}$ substrates by sol-gel method*
Taeri Kwon (MANA, NIMS)

PP-3 *Theoretical Study of Gas Storage Materials based on Clathrate Hydrate*
Hiroshi Mizuseki (IMR, Tohoku University)

PP-4 *Flexible SnO_{2} hollow nanosphere film based high-performance ultraviolet photodetector*
Wei Tian （MANA, NIMS）

PP-5 *N-doped graphene-based sandwich papers as high-performance anodes for lithium-ion batteries*
Xi Wang （MANA, NIMS）

PP-6 *New trend of functional meso/nanoporous materials*
Yusuke Yamauchi (MANA Independent Scientist, NIMS)

PP-7 *Effect of pH and anion on the potential dependent adsorption of oxygen at a gold electrode surface studied by electrochemical quartz crystal microbalance*
Shengfu Tong (MANA, NIMS)

PP-8 *Role of nitrogen doped structures in fixation of molecular catalyst on Ti electrode prepared by chemical and thermal treatments for water splitting application*
Rohit Khanna (Chubu University)

PP-9 *Effect of trehalose on the stability of bilayer structure of DMPC in dehydration*
Ya Zhang (Hokkaido University)

PP-10 *A new approach for Ge nanoparticles to separate by emission color*
Naoto Shirahata (MANA Independent Scientist, NIMS)

PP-11 *Exploring photo-induced energy transfer dynamics on surfaces from Ultrafast Time-resolved SFG measurements*
Indrajit Bhattacharyya (MANA, NIMS)

PP-12 *First principles modelling for dye-sensitised solar cells*
David Bowler (University College London)

Nano-Life

PL-1 *Degradation behavior of a calcium phosphates-coated bioabsorbable magnesium alloy in a medium*

Sachiko Hiromoto (MANA Scientist, NIMS)

PL-2 *Defect engineering in single-crystal SnO_2 by the application of stress and voltage*

Makoto Sakurai (MANA Scientist, NIMS)

PL-3 *Tuning the properties of membrane-mimetic phosphorylcholine-substituted polysaccharides in thin films: An insight from optical and piezoelectric techniques*

Piotr Kujawa (Universite' de Montre'al)

PL-4 *Preparation of PVA micropatterns with nanometer thickness for regulation of stem cell functions*

Xinlong Wang (MANA, NIMS)

PL-5 *Single-walled carbon nanotubes functionalized with collagen for improved dispersibility and cellular uptake*

Hongli Mao (MANA, NIMS)

PL-6 *Detection of influenza viruses by Fluorescence based SPR - High performance sensing by RNA-aptamers/PEG hybridized sensor*

Lakshmipriya Thangavel (University of Tsukuba)

PL-7 *Synthesis of calcium phosphate/alginate core/shell nanoparticles (CaP@alginate) through pre-gel method as a pH-responsive drug carrier*

Kevin C.-W. Wu (National Taiwan University)

PL-8 *Highly stable PEGylated silica nanocomposite for high performance nanobiomaterials*

Md. Amran Hossain (University of Tsukuba)

PL-9 *Redox-active Injectable Gel (RIG) for Treatments of Local Inflammation: Carrageenan-Induced Arthritis*

Min Ley Pua (University of Tsukuba)

PL-10 *Interaction of redox nanoparticle with blood cells*

Madoka Shimizu (University of Tsukuba)

PL-11 *Design and construction of a novel redox scaffold preventing cellular differentiations*

Hiromu Ito (University of Tsukuba)

PL-12 *New PEGylation chemistry via newly designed glutalaldehyde-ended poly(ethylene glycol)*

Jinya Katamachi (University of Tsukuba)

PL-13 *Redox-Nanoparticle assisted delivery PPAR γ ligands for treatment of Prostate Cancer*

Sindhu Thangavel (University of Tsukuba)

PL-14 *Protection of NSAIDs-induced small intestinal inflammation by redox nanoparticle*

Sha Sha (University of Tsukuba)

PL-15 *PEGylated iron oxide nanoparticles for doxorubicin delivery*

Magdalena Maria Hałupka - Bryl (University of Tsukuba)

PL-16 *Redox-active nanoparticle as an adjuvant for chemotherapy enhances an activity of anticancer drug and suppresses its adverse effects*

Toru Yoshitomi (University of Tsukuba)

PL-17 *The effect of orally administered redox nanoparticles in colonic mucosa of mice with colitis*

Binh Long (University of Tsukuba)

PL-18 *Redox-active injectable gel for rheumatoid arthritis treatment*

Magdalena Bednarowicz (University of Tsukuba)

PL-19 *Controlling the surface physicochemical properties of the membrane-mimetic phosphorylcholine-substituted polysaccharide films*

Yiu Ting Richard Lau (MANA, NIMS)

PL-20 *Understanding of estradiol associated extranuclear nature by micropatterning method*

Baowen Qi (University of Montreal)

PL-21 *Design of boronic acid modified gold nanoparticles for targeting cancer cell surface*

Kosuke Kurosu (University of Tsukuba)