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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_{2}Ge_{2}O_{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  $\text{Ba}_x\text{XTa}_{10}\text{O}_{30}$, $X = \text{Co, Mg, Zn, and Ni}: \text{Novel Quantum Paraelectric Compounds}$

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

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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$_2$O$_5$-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  Bioelectrical measurements by nanoscale probes

Hiroyuki Tomimoto  NIMS, JAPAN
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Amir Pakdel University of Tsukuba, JAPAN

Transport properties of Andreev polarons in junction with superlattice structure
Ryotaro Inoue Tokyo University of Science, JAPAN

Self-assembled InAs Quantum Dot coupled to Superconducting Quantum interference device
Sunmi Kim NIMS, JAPAN

SQUID with Nb-Ru-Sr2RuO4 junctions
Ryosuke Ishiguro Tokyo University of Science, JAPAN

Development of graphene-based superconducting quantum interference device
Kohei Tsumura NIMS, JAPAN

Anisotropic transport in epitaxial graphene on 4H-SiC(0001)
Hiromi Kuramochi NIMS, JAPAN

Device Configuration for High Mobility in Solution-processed Organic Single Crystals Field-effect Transistors
Yun Li NIMS, JAPAN

Solution-Processable Organic Single Crystals with Bandlike Transport in Field-Effect Transistors
Chuan Liu NIMS, JAPAN

Effect Of Ultrathin Oxide Interlayer On Organic Thin Film Semiconductor Transistor Device Performance.
Peter Darmawan NIMS, JAPAN

Surface selective growth of organic single crystals by solvent vapor annealing
Akichika Kumatani NIMS, JAPAN

Complementary-like logic inverts with semiconducting graphene channels
Songlin Li NIMS, JAPAN

Effect of ambient air exposure on metal/organic contact in organic semiconductor devices
Takeo Minari NIMS, JAPAN

Formation of Graphene on Insulator by Liquid Phase Epitaxy
Hidefumi Hiura NEC, JAPAN

Improving Graphene Quality Formed by Gallium Flux Liquid Phase Epitaxy
Michael V. Lee NIMS, JAPAN

Tunnel effect through gate-controlled p-i-n junction in semiconducting bilayer graphene
Hisao Miyazaki NIMS, JAPAN

Hole Doping Leads to Magnetism in Nanographene
Sudipta Dutta  NIMS, JAPAN
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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

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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 TiO₂ Films

Shufang Zhang  NIMS, JAPAN
PG-4  Efficient Light Scattering of Rutile TiO₂ Nanorods for Dye-sensitized Solar Cell Application

Masatoshi Yanagida  NIMS, JAPAN
PG-5  Effects of Al-introduction into LiCoO₂ 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 BaZrO₃ films

Lei Bi  NIMS, JAPAN
PG-10  Electrical Property of the Thin-film Co-doped Ceria

Shobit Omar  NIMS, JAPAN
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   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 TiO₂ Nanocrystals
   Hua Tong  NIMS, JAPAN

PG-16  Facile Synthesis of Rhombic Dodecahedral AgX/Ag₃PO₄ (X=Cl, Br, I) Hetero-crystals with Enhanced Photocatalytic Properties and Stabilities
   Yingpu Bi  NIMS, JAPAN

PG-17  A first principle investigation of  ZrO₂-CeO₂ 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

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-kB 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 Chonpathompikulert  University of Tsukuba, JAPAN

MANA Independent Scientist

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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$_3$
ICYS Researcher

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       Tsuda Shunsuke  NIMS, JAPAN
PIR-2  Phosphorus-Doped Polymeric Carbon Nitride Solids
       Zhai Tianyou  NIMS, JAPAN
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       Fatin Hajjaj  NIMS, JAPAN
PIR-5  Single-Electron Tunneling via Molecular Dots Embedded in a Metal-Insulator-Semiconductor Structure
       Hisanori Ueki  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$_3$Fe$_2$O$_6$F
       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
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       Antonio S. Torralba  NIMS, JAPAN
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       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