Poster Session March 1st & 2nd

ICYS Researcher

PIR-1	Nanosheets of Boron-Carbon-Nitrogen System: Synthesis, Supercapacitor, and
	Composite Yes Big Many (10)(0 MANA NIMO)
DID 2	Xue-Bin Wang (ICYS-MAMA, NIMS)
PIR-2	Analytical Models for the Interpretation of Nanomechanical Sensing Signals
DVD 2	Gaku Imamura (ICYS-MAMA, NIMS)
PIR-3	Dynamic Control of Cellular Alignment Using Shape-memory Cell Culture Platform
	Koichiro Uto (ICYS-MAMA, NIMS)
PIR-4	Computational design of novel nanocarbon materials from bottom-up approach
	Thanh Cuong Nguyen (ICYS-MAMA, NIMS)
PIR-5	Nanoscale mapping of luminescence centers in CdS nanowires
	Ovidiu Cretu (ICYS-MAMA, NIMS)
PIR-6	Acceleration of Steel Corrosion in Reinforced Concrete by Enhancing Oxygen Supply Kotaro Doi (ICYS-RCSM, NIMS)
DID 7	
PIR-7	Continuous deposition of boron-doped diamond multilayers by plasma-enhanced CVD
DID 0	Alexandre Fiori (ICYS-MAMA, NIMS)
PIR-8	High-Resolution Printing of Flexible Organic Thin-Film Transistors
	Xuying Liu (ICYS-Namiki, NIMS)
PIR-9	Efficient and accurate first-principles method for modeling phonon anharmonicity and
	thermal conductivity
	Terumasa Tadano (ICYS-MI ² I, NIMS)
PIR-10	Fundamental properties of plastics made of polyelectrolyte complexes
	Gaulthier Rydzek (ICYS-MAMA, NIMS)
PIR-11	Charge-order-driven ferroelectricity in molecular conductors from first principles
	Takao Tsumuraya (ICYS-Namiki, NIMS)
PIR-12	Development of Regioregular Polythiophene with Hydrogen-Bonding Imidazolyl
	Groups
	Kazuhiko Nagura (ICYS-Sengen, NIMS)
PIR-13	Robust superconductivity of atomic-layer indium under in-plane magnetic fields
	Shunsuke Yoshizawa (ICYS-MAMA, NIMS)
PIR-14	Capacitance spectroscopy on quantum hetero structure embedded Intermediate Band
	Solar Cells
	Martin Elborg (ICYS-Sengen, NIMS)
PIR-15	Organic and Inorganic Neuromorphic Nanowire Arrays
	Curtis O'Kelly (ICYS-MAMA, NIMS)
PIR-16	Nanocrystalline NiTi stable at high temperatures via grain boundary segregation
	Aslan Ahadi (ICYS-Sengen, NIMS)
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Next-generation coatings and adhesives inspired by extraordinary adaptation of marine PIR-17 organisms Debabrata Payra (ICYS-Sengen, NIMS) PIR-18 Squaraine derivatives for organic (opto)electronic applications: crystal growth, photophysics and their role in macro- and nano-scale device performance James Ryan (ICYS-GREEN, NIMS) PIR-19 Surface Temperature Dependence of H₂ Ortho-Para Conversion on Amorphous Solid Water Hirokazu Ueta (ICYS-Sengen, NIMS) PIR-20 Improved Performance of Lithium-Oxygen Batteries by Forming Heteroatom Incorporated Lithium Peroxide as Discharged Products Shoichi Matsuda (ICYS-GREEN, NIMS) Nano-Materials PM-1 CL/EBIC/TEM Study of Nb-doped SrTiO₃ Single Crystal Jun CHEN (WPI-MANA, NIMS) PM-2 Redoxable Cation Intercalation/Deintercalation in Two-Dimensional Layered MnO₂ Nanostructures for High-Rate Electrochemical Energy Storage Pan Xiong (WPI-MANA, NIMS) Phase Behavior of Water Soluble Porphyrins PM-3 Jan Labuta(WPI-MANA, NIMS) PM-4 Mechanically Induced Opening-Closing Action of Binaphthyl Molecule Taizo Mori (WPI-MANA, NIMS) PM-5 Conformation manipulation of binaphthyl-dimer with a low temperature scanning tunneling microscope We-Hyo Soe (CEMES-CNRS) PM-6 Insights into the exfoliation mechanism of lepidocrocite titanate obtained via a homologous series of tetraalkylammonium cations **Tosapol Maluangnont** (College of KMITL Nanotechnology) PM-7 Control of molecular machines at interfaces Waka Nakanishi (WPI-MANA, NIMS) PM-8 Interface Bonding Prediction Software Michiko Yoshitake(WPI-MANA, NIMS) PM-9 **Band Diagram Characterization System** Shinjiro Yagyu (WPI-MANA, NIMS) PM-10 Biodegradable, stretchable, transparent supramolecular networked films Helen Parker (WPI-MANA, NIMS) PM-11 Bottom-up Fabrication of Porous Carbon Nanosheet Amit Dalui(WPI-MANA, NIMS)

PM-12	intentional Opening/Closing of Hole-in-Cube in Fullerene Crystal and Microscopic
	Recognition by Hole
	Partha Bairi (WPI-MANA, NIMS)
PM-13	Linker-Dependence of Association Chirality of Clothespin-Shaped Pd(II) Complexes
	Masaya Naito (Osaka University)
PM-14	Emission Enhancement Controlled by Association Chirality of Vaulted
	trans-Bis(iminoimidazolato)platinum(II) Complexes
	Ngoc Ha-Thu Le (Osaka University)
PM-15	Difference in exfoliation behaviors of layered perovskite niobate in aqueous solutions
	containing quaternary ammonium hydroxides
	Yeji Song (WPI-MANA, NIMS)
PM-16	Soft-Chromophoric Liquid Porphyrins: Engineering with Branched Alkyl Chains
	Avijit Ghosh (WPI-MANA, NIMS)
PM-17	Tuning Interlayer Coupling in Nanosheet Architectures for Artificial Multiferroics
	Muhammad Shuaib Khan (WPI-MANA, NIMS)
PM-18	Synthesis of Si biocompatible nanocrystals for bioimaging
	Thi Kim Dung Doan (Hochiminh City Institute of Physics)
PM-19	Superhydrophilicity and Antireflection of Hierarchically Nano-Porous Layer etched on a
	Silicate Glass
	Takuya Fujima (Tokyo City University)
PM-20	Moisture Sensor: Detection/Distinction of small aqua droplet
	Jin Kawakita (WPI-MANA, NIMS)
PM-21	Ionic elution and distribution in HNL glass by XPS
	Akihiro Nakada (Tokyo City University)
PM-22	Graphene Oxide and Coal Oxide as Novel Carbon-Based Proton Conductors
	Takaaki Taniguchi (WPI-MANA, NIMS)
PM-23	Transient Absorption Spectroscopy Analysis of Silver Nanocube Collective Acoustic
	Oscillations
	Tomas Tamulevicius (Kaunas University of Technology)
PM-24	Nearly Ideal Vertical Schottky Barrier Diodes of GaN for Power Devices
	Bing Ren (WPI-MANA, NIMS)
PM-25	Self-Assembly of Chiral Perylene Diimides
	Geraldine Echue (WPI-MANA, NIMS)
PM-26	'Polymeric micelle assembly' for synthesis of mesoporous Au films
	Cuiling Li (WPI-MANA, NIMS)
PM-27	Chemical Design of Functional Mesoporous Silica Materials for Environment-Related
	Utilizations
	Nagy Torad (Tanta University)

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PM-28	Functional Nanocomposites for Building Materials: Example of the collaboration
	between NIMS, CNRS and Saint-Gobain
	Maxence Wilmet (CNRS Saint-Gobain)
PM-29	SiO ₂ Encapsulates Ultra-Small Hexanulear Tantalum Halide Clusters (Ta ₆ Br ₁₂) ^{II} by
	Reverse Microemulsion Method
	Wanghui Chen (CNRS Saint-Gobain)

Nano-System/Nano-Theory	Nano-System/Nano-Theory	
PS-1 Aero-Thermo-Dynamic Mass Analysis		
Kota Shiba (WPI-MANA, NIMS)		
PS-2 Helium separation of monolayer C ₂ N membrane under uniform strain		
Adisak Boonchun (Kasetsart University)		
PS-3 Large Magnetoresistance in Single Radical Molecule Junctions		
Ryoma Hayakawa (WPI-MANA, NIMS)		
PS-4 π -conjugated polymers for Ag ₂ S atomic switch based 'Tug of War'		
Carolin Lutz (WPI-MANA, NIMS)		
PS-5 Organic heterojunction for negative differential resistance transistor		
Kazuyoshi Kobashi (WPI-MANA, NIMS)		
PS-6 Neuromorphic Atomic Switch Networks for Natural Computing		
Kelsey Scharnhorst (University of California, Los Angeles)		
PS-7 Traffic Prediction Using Turing B-Type Atomic Switch Networks		
Adam Stieg (California NanoSystems Institute/University of California, L	_os	
Angeles)		
PS-8 Thin Film Transistor-based Memory with Molecular Dipole Moment		
Yesul Jeong (WPI-MANA, NIMS)		
PS-9 Organic field-effect transistor based Cs+ ion sensor		
Phan Tin Nguy (WPI-MANA, NIMS)		
PS-10 Fabrication and Characterization of hBN/Graphene/hBN Van Der Waals		
Heterostructure-Based Quantum Point Contact Devices		
Nurul Fariha Ahmad (WPI-MANA, NIMS)		
PS-11 Fabrication of heterostructures between Ti _{0.87} O ₂ ^{0.52-} and 1T-MoS ₂ nanosheets	s for	
enhanced photocatalytic hydrogen production activity		
Leanddas Nurdiwijayanto (WPI-MANA, NIMS)		
PS-12 Optically switchable transistors with diarylethene photochromic channel lay	/ers	
Jieun Koo(WPI-MANA, NIMS)		
PS-13 Observation of valley Hall effect in ballistic (hBN)/Graphene/hBN Heterostr	uctures	
Katsuyoshi Komatsu (WPI-MANA, NIMS)		
PS-14 Investigation of dynamic phenomena in polymer-coated Ag nanowire network	ork	
Rintaro Higuchi (WPI-MANA, NIMS)		

PS-15	Conduction through Thermosensitive Networks
	Rekha Goswami Shrestha (WPI-MANA, NIMS)
PS-16	Single-electron spin control in CMOS-compatible tunnel field-effect transistors
	(TFETS)
DC 17	Satoshi Moriyama (WPI-MANA, NIMS)
PS-17	Fluorine-Based Defect Termination for GaN Semiconductor Devices: Its
	Characteristics and First-Principle Calculations
D C 10	Asahiko Matsuda (WPI-MANA, NIMS)
PS-18	Interface characterization of Schottky and Ohmic metal/GaN contacts
D 0.40	Dominic Gerlach (WPI-MANA, NIMS)
PS-19	Thermodynamic and Thermoelectric Properties of Organic Dirac Fermion System
	Takako Konoike (WPI-MANA, NIMS)
PS-20	Effect of molecular packing density on bioinertness of self-assembled monolayers of
	methoxy-tri(ethylene-glycol)-terminated alkanethiols
	Syifa Asatyas (Tokyo Institute of Technology)
PS-21	Direct observation of hydrogen atom in a single molecule by atomic force microscopy
	Shigeki Kawai (WPI-MANA, NIMS)
PS-22	Photo-polymerization rate and selfsensitization of diacetylene self-assembled on
	h-BN nanosheets
	Elisseos Verveniotis (WPI-MANA, NIMS)
PS-23	Functionalized PANI network conductor towards future computation
	Qiao Li (WPI-MANA, NIMS)
PS-24	MP-AFM measurement of metal and polymer nanowires as basic components of
	neuromorphic network system
	Yoshitaka Shingaya (WPI-MANA, NIMS)
PS-25	Mapping Potential Distribution using bias voltage
	Karim Abdul (University of Tsukuba)
PS-26	Spin-texture inversion in image potential states of Ir(111) covered by graphene
	Ryuichi Arafune (WPI-MANA,NIMS)
PS-27	Spin-induced anomalous magnetoresistance at the hydrogen-terminated (100)
	diamond surface
	Takahide Yamaguchi (WPI-MANA,NIMS)
PS-28	Transport Properties of Hydrogen-Terminated Silicon Surface Controlled by
	Ionic-Liquid Gating
	Yosuke Sasama (WPI-MANA, NIMS/University of Tsukuba)
PS-29	Fullerene-based Superconducting Fibers and Wires
	Hiroyuki Takeya (WPI-MANA, NIMS)
PS-30	Spontaneous patterning of high-resolution electronic circuits
	Takeo Minari (WPI-MANA, NIMS)
PT-1	Electronic Band Structure of Various TiN/MgO Nanostructures
	Kazuaki Kobayashi (WPI-MANA, NIMS)

PT-2	Role of dynamical symmetry in an effective time-independent Hamiltonian for a laser-driven system
D	Jun-ichi Inoue (WPI-MANA, NIMS)
PT-3	Sampling stress effects on B/P dopant atoms in Si-Ge core-shell nanowires Shereif Mujahed (WPI-MANA, NIMS/University College London)
Nano-P	Power
PP-1	Origin of the Emission Quantum Yields Enhanced by Alkane-Termination of
	Freestanding Silicon Nanocrystals
	Naoto Shirahata (WPI-MANA, NIMS)
PP-2	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted
	Metal-Organic Framework
	Huabin Zhang (WPI-MANA, NIMS)
PP-3	Acetylene bubble-propelled miniaturized devices: Towards in situ fuels
	Guo Sheng James Moo (Nanyang Technological University)
PP-4	Development of hierarchically porous ZnO based material for Thermoelectric
	application
	Raymond V.Rivera Virtudazo (WPI-MANA, NIMS)
PP-5	Cultivation of Unexplored Materials Accelerated by First-Principle Calculations and
	Materials Informatics
	Isao Ohkubo (WPI-MANA, NIMS)
PP-6	Organic π -type thermoelectric module patterned by photolithography
	Norifusa Satoh (WPI-MANA, NIMS)
PP-7	Uniform Wide-Angle Spray under a Vacuum Condition towards Multistep Inorganic
	Synthesis of Thin Films
	Norifusa Satoh (WPI-MANA, NIMS)
PP-8	Synthesis and characterization of the thermoelectric properties in the system
	$GdCu_1+_xTe_2$
	Jean-Baptiste Simon Vaney(WPI-MANA, NIMS)
PP-9	Synthesis, Characterization, and Device Fabrication of Al-Catalyzed SiNWs
	Wipakorn Jevasuwan (WPI-MANA, NIMS)
PP-10	High-efficiency silicon hybrid solar cells employing nanocrystalline Si quantum dots and
	Si nanotips for energy management
	Thiyagu Subramani (WPI-MANA, NIMS)
PP-11	Highly-Efficient Printable Hybrid Perovskite Solar Cells Enabled by an Easily Accessible
	n-Doped Fullerene Cathode Interfacial Layer
DD 15	Chih-Yu Chang (Feng Chia University)
PP-12	Sb Doped p-Type ZnO Nanowires for Optoelectronics
	Ken Pradel (WPI-MANA NIMS)

PP-13	Al Plasmonics for plasmon-enhanced infrared spectroscopy
	Kai Chen (WPI-MANA, NIMS)
PP-14	Enhancement of Broadband Solar Light Absorption and Photocurrent Increase of C ₃ N ₄
	decorated by TiN and Carbon dots
	Satish Laxman Shinde (WPI-MANA, NIMS)
PP-15	All-ceramic microfibrous solar steam generator: TiN plasmonic nanoparticle-loaded
	transparent microfibers
	Kaur Manpreet (WPI-MANA, NIMS)
PP-16	Hot carrier excitation in titanium nitride for photoelectric and photothermal applications
	Satoshi Ishii (WPI-MANA, NIMS)
PP-17	Hole Array Perfect Absorbers for Spectrally Selective Infrared Detectors
	Duy Thang Dao (WPI-MANA, NIMS)
PP-18	Mn Substitution Effect on the Thermoelectric Properties of AlMgB ₁₄
	Yoshiki Endo (Tokyo City University)
Nano-Life	
PL-1	Gelatin Hydrogels with Different Stiffness for 3D Culture of Chondrocytes
FL-1	Xiaomeng Li (WPI-MANA, NIMS)
PL-2	The nanoconfiguration and density of ECM biochemical cues manipulate cell adhesion
TL-2	and motility
	Shimaa Abdelaleem (WPI-MANA, NIMS)
PL-3	Mesoporous Phospholipid Particle as a Drug Delivery Platform
rL-3	Kohsaku Kawakami(WPI-MANA, NIMS)
PL-4	Thermo/photo-sensitive star-shaped PNIPAm-based supramolecular systems
1 L-4	Xuewei Zhang (University of Montreal)
PL-5	Binding of Lipopolysaccharide and Cholesterol-Modified Gelatin on Supported Lipid
rL-J	Bilayers: Effect of Bilayer Area Confinement and Bilayer Edge Tension
	Chiho Kataoka (WPI-MANA, NIMS)
PL-6	High performance of newly designed silica-containing redox nanoparticles for oral
rL-0	delivery of poorly water-soluble drug to treat colon cancer
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DI 7	Binh Long Vong (University of Tsukuba/WPI-MANA, NIMS)
PL-7	Facile construction of anti-oxidative cell culture dish by atmospheric plasma
DI 0	Yutaka Ikeda (University of Tsukuba)
PL-8	Nanoencapsulation of Single Mammalian Cells by in situ Polymerization
DI O	Jianmin Yang (WPI-MANA, NIMS)
PL-9	Liquid Naphthalenes: Tuning the spectroscopic and liquid physical properties by
	regioisomerism Rhawari Marayar (MRI MANA NIMS)
DV 40	Bhawani Narayan (WPI-MANA, NIMS)
PL-10	Single-Dose Administration of Novel Redox Nanoradioprotector Extends the Life-Span
	of Whole-Body Irradiated Mice by Preventing Radiation-Induced Hematopoietic

	Syndrome
	Chitho Feliciano (University of Tsukuba)
PL-11	Fabrication of Arbitrarily shaped hydrogels using a self-healing template method
	Takeshi Sato (University of Tsukuba/WPI-MANA, NIMS)
PL-12	Fabrication of Smart Nanofiber Meshes for Kidney Failure Disease
	Ryo Takai (WPI-MANA, NIMS)
PL-13	Regulating Cellular Uptake of Gold Nanoparticles on Micropatterned Surfaces
	Xinlong Wang (WPI-MANA, NIMS)
PL-14	Development of cationic silica-containing redox nanoparticles for the prevention and
	treatment of bacterial infection in peritoneal dialysis patients
	Takuya Inagaki (University of Tsukuba)
PL-15	Preparation of Dexamethasone Incorporated Biphasic Calcium Phosphate
	Nanoparticles for Osteogenic Differentiation of Human Mesenchymal Stem Cells
	Ying Chen (WPI-MANA, NIMS)
PL-16	Design of Exenatide Loaded Redox-Active Injectable Gel as A Novel Anti-Diabetic Drug
	Sho Sakaue (University of Tsukuba)
PL-17	Role of lipid rafts (nanodomains) in unique apoptosis inducing activity of epidermal
	growth factor-gold nanoparticles conjugates
	Shota Yamamoto (WPI-MANA, NIMS)
PL-18	Glassy Bicontinuous Cubic Liquid Crystals for Nanostructured Solid Proton Conductive
	Materials.
	Tsubasa Kobayashi (Tokyo University of Agriculture and Technology)
PL-19	Identification of adsorbed proteins on self-assembled monolayers from serum using
	MALDI-ToF-MS
	Makoto Hirohara (Tokyo institute of technology)
PL-20	Engineered Antibody with Temperature-responsive Polymer for Biomarker Purification
	Naoto Nomura (WPI-MANA, NIMS)
PL-21	Design of Smart Nanofiber Meshes with Simultaneous Release of Heat and Drug for
	Combined Cancer Chemo/Thermo Therapy
	Eri Niiyama (University of Tsukuba)
PL-22	Investigation of Anti-inflammatory Effect of Apoptotic Cell Membrane Mimetic
	Nanomaterials
	Yasuhiko Nakagawa (WPI-MANA, NIMS)
PL-23	Map analysis of combinational effects between viscoelastic polymers and peptides for
	design of selective cell adhesion surface
	Rio Kurimoto (WPI-MANA, NIMS)
PL-24	Development of water absorptive nanofiber meshes for hemodialysis treatments
	Mirei Tsuge (WPI-MANA, NIMS)