1. Organic Layer Electronics – Organic Material and Interface

Poster No	ID	First Name	Last Name	Affiliation	Abstract Title
P001	A064	Yuji	Okawa	MANA, NIMS	Single Polymer Connection to Single Molecules and Metal Nanoclusters
P002	A099	Shinjiro	Yagyu	NIMS	Development of Band Diagram Measurement System in Air Condition
P003	A019	Hoon-Seok	Seo	International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials Science (NIMS)	Single-Electron Tunneling via Fluorinated Cu-phthalocyanine Molecules in a Metal-Insulator-Semiconductor Structure
P004	A049	Ryoma	Hayakawa	International Center for Materials Nanoarchitechtonics	Optically- and electrically-driven organic thin film transistors with diarylethene photochromic channel layers
P005	A048	Haruki	Yuga	NIMS, University of Tsukuba	Optical control of carrier transport in organic field effect transistor by photochromic diarylethene self-assembled monolayer
P006	A014	Yasushi	Ishiguro	NIMS	Optical Control of Polymeric Transistor with Photochromic Spiropyran Molecules
P007	A013	Yutaka	Wakayama	National Institute for Materials Science	Solid-state reactions in two-dimensional binary molecular assemblies
P008	A095	Tomoyasu	Ishidu	University of Tsukuba	STM investigation of alkali-intercalated [n]phenacenes monolayer
P009	A094	Masahiro	Yano	University of Tsukuba	K and Li Adsorption on Coronene layers on Different Substrates
P010	A060	Shigeaki	Obata	Toyohashi University of Technology	Molecular Dynamics Simulations of an Interface between Poly(3-hexylthiophene) and Self-Assembled Monolayer
P011	A061	Marina	Makarova	MANA, NIMS	Diacetylene Self-Assembled Monolayer as a Template for the Linear Arrangement of Ligand-Free Gold Nanoparticles
P012	A006	Syouhei	Nakamura	University of Hyogo	Conduction mechanism for DNA transistor
P013	A021	Kenji	Sakamoto	National Institute for Materials Science	6,13-bis(triisopropylsilylethynyl) pentacene field-effect transistors fabricated by a flow-coating method
P014	A038	Jianchen	Hu	MANA, NIMS	Fabrication of ITO-PEDOT:PSS-P3HT:PCBM Multilayer in One Step
P015	A033	Jian	Zhang	NIMS	Electrochromic Printing on Organic-Metallic Hybrid Polymer films
P016	A018	Taichi	Ikeda	NIMS	Supramolecular Thiophene Nanosheets

2. Ultra-Thin Film Technology

Poster No	ID	First Name	Last Name	Affiliation	Abstract Title
P017	A079	Michiko	Yoshitake	NIMS	Formation of Atomically Flat Ultra-thin Epitaxial Alumina Films on Metal Substrates
P018	A088	Nam	Nguyen	NIMS	Development of Nano-Scale Hydrogen Storage Layer for Nonvolatile Charge Trapping Memory Devices
P019	A056	Makoto	Watanabe	National Institute for Materials Science	Transparent Conducting ZnO Thin Films on Plastics by Atmospheric Plasma Deposition in Ambient Air
P020	A104	prasit	pattananuwat	University of Nagaoka	In-situ Electrochemical Synthesis of Nano-multilayers Polyaniline/Multiwall carbon nanotube/Tin oxide nanoparticles for Ammonia and Ethylene gas detection
P021	A059	Batu	Ghosh	MANA	Efficient Light emitting Group IV quantum dots and its optoelectronic applications
P022	A091	Rodrigo	Sato	NIMS	Dispersion of third order nonlinear optical susceptibility of Ag nanoparticles with different sizes
P023	A022	Lavanya	Thirugnanam	NIMS	Porous tubular rutile TiO2 nanofibers wrapped by Graphene : Synthesis, characterization and photocatalytic properties
P024	A057	Katsunori	Wakabayashi	National Institute for Materials Science (NIMS)	Theoretical Analysis on Carrier Mobility of Graphene Double Layer Structure
P025	A082	Lien	Hsieh	Department of Physics, National Chung Hsing University	Enhanced Raman Spectrum of Chemical Vapor Deposited Graphene on Sub-micrometer Membranes

P026	A087	Kohei	Tsumura	Department of Applied Physics, Tokyo University of Science	Fabrication and Characterization of Graphene-based Superconducting Device
P027	A083	Takahiro	Mori	National Institute of Advanced Industrial Science and Technology	Fabrication Processes of Two-Dimensional MoS2 Channel Transistors
P028	A007	Karthik	Krishnan	Japan Advanced Institute of Science and Technology	Proton Transport Property of Polyimide Thin Films on Quartz Substrate
P029	A055	Martin	Elborg	NIMS	GaNAs/AlGaAs as a candidate material for Intermediate Band Solar Cell research
P030	A067	Sudipta	Dutta	ICYS, WPI-MANA, NATIONAL INSTITUTE FOR MATERIALS SCIENCE	Interacting Spins in Honeycomb Ribbons with Zigzag Edges

5. Advanced Fusion Materials : New Functionality by Cooperative Organic/Inorganic Compositions

Poster No	ID	First Name	Last Name	Affiliation	Abstract Title
P031	A003	Xuebin	Wang	International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)	High-Throughput Synthesis of Graphenes and White Graphenes
P032	A015	Seungjun	Oh	International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba 305-0044, Japan	Uniform ordering of ZnO nanorods and near-atmospheric pressure nitrogen plasma treatment for improving ZnO-P3HT hybrid photovoltaic devices performance
P033	A072	Lakshminarayanan	Piramuthu	NATIONAL INSTITUTE FOR MATERIALS SCIENCE (NIMS)	Secondary Structures of Metal-Organic Complex Arrays
P034	A017	Chengjun	Pan	Polymer Materials Unit, Advanced Key Technologies Division, NIMS	A Versatile Core Skeleton for Highly Emissive Conjugated Polymers in the Solid-State
P035	A029	Ryo	Shomura	NIMS	Stepwise Charge Carrier Generation within Isolated Planar Polythiophene
P036	A030	Debabrata	Payra	NIMS	Biomimetic multi-functional polymer coatings for metal substrates
P037	A032	Soichiro	Ogi	National Institute for Materials Science	FRET Donor-Acceptor Molecules Featuring “Universal Joint”-Shaped Architecture
P038	A068	Satoshi	Sumi	NIMS	Electrical and Magnetic Properties in Organic Ionic Semiconductor:TTFCOONH3Ph
P039	A001	hiroaki	isago	NIMS	Organic or Inorganic? Phthalocyanines Bearing Pnictogen as the Central Element as Powerful Electron-Acceptors Absorbing Visible-Near-Infrared light
P040	A034	Hiroyo	Segawa	NIMS	Localized surface plasmon assisted nano patterning of TiO2 hybrid materials
P041	A016	Hidenobu	Nakao	National Institute for Materials Science	SERS Spectroscopy and SERS Imaging of Metallic Nanofibers Prepared by Evaporation-Induced Self-Assembly with DNA
P042	A062	Yuka	Kobayashi	NIMS	Thermopower of Proton-Hole Mixed Conductor, TTFCOONH4
P043	A065	Jin	Kawakita	National Institute for Materials Science	Electrical characteristics of conducting polymers as ohmic contact material for downsized semiconductor devices
P044	A071	Kento	Fujii	NIMS	Metal/Polymer Composite for Advanced Electrical Wiring of Flexible Electronics
P045	A075	Takeshi	Terauchi	NIMS	Fabrication of Thin Films with Self-doped Organic Conductors
P046	A039	Rakesh	Pandey	NIMS, Tsukuba	Humidity Responsive High Ionic Conductivity of Organic-metallic Hybrid Polymers
P047	A047	Naomi	Yamamoto	NIMS	Synthesis of surface-modified CeO2 nanoparticles using supercritical water
P048	A050	Ryuta	Takahashi	University of Tsukuba	Changes in Optical Properties of Organic-Inorganic Hybrid Layered Perovskite with Azobenzene by Photoisomerization
P049	A053	Minori	Taguchi	Chuo university	Design of novel photo-functional nanomaterial using reverse micelle method
P050	A063	Jinjia	Xu	Organic Materials Group, NIMS	Phosphorescence from Pure Organic Fluorene Derivative in Solution at Room Temperature

P051	A005	Przemyslaw	Gacia	Warsaw University of Technology	Simple route synthesis of nanostructured metal oxides
P052	A037	Yuki	Kasuya	NIMS MANA	Aligned Fullerene Nanowhiskers Substrate for Oriented Cell Growth
P053	A012	Agnieszka	Zielinska	NIMS-WUT Joint Graduate Program, NIMS	Self-assembly Control and Soft-Materialization of Magnetic Molecules
P054	A020	Judyta	Sienkiewicz	NIMS	Fabrication of Ti-Al intermetallic phases by heat treatment of Warm Sprayed precursor
P055	A077	Akiko	Yamamoto	NIMS	Control of biointerface formation onto Ti-based superelastic alloys by alloy composition
P056	A080	Agnieszka	Witecka	Biomaterials Unit, MANA, National Institute for Materials Science (NIMS)	Improvement of cytocompatibility of magnesium alloy ZM21 by surface modification
P057	A103	Tomasz	Plocinski	Warsaw University of Technology	Microstructural and microanalysis investigations of explosively welded 316L/commercially pure Ti plate in state before and after the post heat treatment

3. Nano-scale Characterization

Poster No	ID	First Name	Last Name	Affiliation	Abstract Title
P058	A086	Tomasz	Bolek	Warsaw University of Technology	Characterization and Cytotoxicity of Hydroxyapatite Nanoparticles
P059	A102	Kenji	Sakurai	National Institute for Materials Science	Realtime X-Ray Reflectometry
P060	A097	Masahiro	Goto	MANA/NIMS	Nanotribology of photoexcited pyrene molecules
P061	A058	Miyoko	Tanaka	National Institute for Materials Science	Structural and Morphological Studies of Ni Clusters on SrTiO3 Substrates by UHV-TEM/STM
P062	A004	Pawel	Zywicki	National Institute for Materials Science	Phase transformations and twinning in a beta-type Ti-30Nb-3Pd alloy
P063	A009	Michal	Wozniak	Warsaw University of Technology	Nano-scale Characterization of 3-Dimensional Hybrid Scaffolds for Bone Tissue Engineering
P064	A025	Takeshi	Sato	Application Development Dept. / Hitachi High-Technologies Corp.	In-situ SEM/STEM simultaneous observation of platinum catalysts in gas atmosphere using a 300kV Cold FE TEM
P065	A073	Miki	Tsuchiya	Hitachi High-Technologies Corporation	Cryo-FIB thinning and (S)TEM observation of liquid samples.
P066	A092	Hideaki	Kitazawa	National Institute for Materials Science	Cesium Distribution and Detection limit in Clay Mineral by TOF-SIMS
P067	A031	Yoko	Yamabe-Mitarai	NIMS	The effect of the third element on high temperature shape memory alloys
P068	A035	Yuki	Daimon	NIMS-MANA	Chitosan Derivative Carrier for Insulin Oral Delivery
P069	A100	Piotr	Spiewak	Warsaw University of Technology	An analysis of interfaces in copper/diamond composites fabricated by a powder metallurgical route
P070	A002	Brian	Pauw	International Center for Young Scientists	Easy Nano-scale Analysis with Small Angle Scattering
P071	A011	Hiroki	Wadati	University of Tokyo	Phase competitions in Pr0.5Ca0.5MnO3/La0.5Sr0.5MnO3 superlattices
P073	A040	Mrinal	Dutta	NIMS, MANA	Diameter-controlled growth and impurity doping of silver colloid-seeded silicon microwires to nanowires for the realization of solar cell material
P074	A027	Riku	Shibuya	University of Tsukuba	Identification of Lewis acid sites on defective graphite surfaces
P075	A036	Wataru	Oki	University of Tsukuba	Size control of Pt and Pd catalysts supported by graphene
P076	A041	Jiamei	Quan	University of Tsukuba	Dynamics of Normal-emission of CO2 Formed by the Thermal Decomposition of Formate

P079	A046	Kentaro	Watanabe	NIMS	Growth history of individual ZnO nanorod visualized by cathodoluminescence technique
P080	A069	Yujin	Cho	Nano Device Characterization Group, National Institute for Materials Science (NIMS)	Effect of Si3N4-doping on the structure and UV emission properties of AlN
P077	A042	Ronit	Prakash	NIMS	Grain Growth and Extended Defects in Cast Grown Multicrystalline Silicon
P078	A045	Bin	Chen	NIMS	Minority-carrier lifetime tuning through stacking fault defects in wide bandgap semiconductor
P081	A070	Yao	Yin	NIMS	Growth process of InGaN on GaN in epitaxial lateral overgrowth
P072	A023	Barbara	Horvath	NIMS	Adhesive Interface between Metal/Polymer Composite and Substrates for Advanced Electrical Wiring
P082	A054	Sachiko	Hiromoto	National Institute for Materials Science	Calcium phosphate coatings of bioabsorbable pure Mg and Mg-Al-Zn alloy with a novel chemical solution deposition method and degradation behavior in a medium
P083	A096	Fabien	Grasset	Univetsite de Rennes 1	EXTENDED INVESTIGATIONS ON Cs2[Mo6Br14]@SiO2 MULTIFUNCTIONAL NANOPARTICLES: PHYSICO-STRUCTURAL CHARACTERIZATIONS AND TOXICITY

4. Atomic Layer Deposition Technology and Its Application

Poster No	ID	First Name	Last Name	Affiliation	Abstract Title
P084	A051	Hideki	Murakami	Hiroshima Univ.	Characterization of Ultrathin Ta-oxide Films as an Interfacial Control Layer Formed on Ge(100) by ALD and Layer-by-Layer Methods
P085	A028	Guangjie	Yuan	The University of Tokyo	Formation of Highly Pure Metal Films by A Novel Atomic Layer Deposition using Metallocenes and NH2 radical
P086	A090	Yudai	Suzuki	The University of Tokyo	The role of gas-phase reactions during Co-CVD using amidinate precursor for ULSI-Cu liner application
P087	A093	Norifusa	Satoh	NIMS	Molecular Oxide Seamlessly Surrounded by Atomic Layer Deposition Oxide as Atomic-Level Precise Artificial Atom
P088	A052	Jiangwei	Liu	NIMS	Combination with Atomic Layer Deposition Technique for Fabrication of High-performance HfO2/diamond Metal-oxide-insulator Field Effect Transistors
P089	A043	Ryo	Kuriyama	Waseda University	Molecular Dynamics Study on Dipole Layer Formation at Al2O3/SiO2 Interface
P090	A044	Masahiro	Hashiguchi	Waseda University	Electrostatic Force Originated From the Dipole Layer at Al2O3/SiO2 Interface
P091	A076	Hyunju	Lee	Meiji University	Deposition Temperature and Post-Deposition Annealing Effects on the Interface Property of O3-Based ALD Aluminum Oxide on Crystalline Si
P092	A078	Norihiro	Ikeno	NIMS	Effect of Hydrogen Radical Post-Deposition Annealing on Si Surface Passivated by O3-Base ALD Al2O3
P093	A085	Kimihiko	Kato	Nagoya University	Function of Additional Element Incorporation for Tetragonal ZrO2 Formation
P094	A010	Takashi	Tsuchiya	NIMS	Investigation of an Electric Double Layer at Electrode/Gd-Doped CeO2 Oxide Ion Conductor Interface
P095	A081	Masayuki	Kimura	MANA Foyundry/NIMS	Electrical Characteristics of Anatase-TiO2 Films by ALD Process
P096	A084	Masayuki	Kimura	MANA/NIMS	Characterization of Al2O3 Films Grown by Plasma-Enhanced ALD Process
P097	A008	Alexandre	Fiori	NIMS	B and 13C Diamond ホエ-Structures for an Ultimate In-Depth Chemical Characterization
P098	A098	Takahiro	Shinada	AIST	Atomistic doping method for silicon and diamond nanoelectronics
P099	A101	Masatomo	Sumiya	NIMS	Development of non-polar light emitting devices from wruztite oxide and nitride hetero junction system
P100	A074	Kazuyoshi	Kobashi	Meiji University	Effects of Rutile TiO2 Interlayer formation on HfO2/Ge MOS device
P101	A024	Takahiro	Nagata	NIMS	Combinatorial synthesis of Cu/high-k oxide structure for nanoionics type ReRAM device application