TS-1: 3D/In-Situ Electron Microscopy

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P001	A0002	Dai-Ming	Tang	NIMS	Exploring mechanics at nanometer scale by in situ transmission electron microscopy
P002	A0017	Emi	Kano	University of Tsukuba	*In-situ* TEM Observation of Cu Atoms in Graphene
P003	A0029	Dan	Lei	NIMS	In-situ TEM studies of all-solid-state rechargeable lithium-ion batteries
P004	A0064	Miyoko	Tanaka	NIMS	Characterization of metal clusters on clean $SrTiO_3$ surfaces of different orientations
P005	A0086	Daisuke	Morikawa	RIKEN	Chiral domain structure and chirality reversal by uniaxial stress on ferroelastic chiral crystal
P006	A0093	Takeshi	Sato	Hitachi High-Technologies Corporation	*In situ* observation of the Pt/C catalyst under the various reactant gas environments using a HF-3300 Cold FE-TEM
P007	A0100	Yoshihiro	Nemoto	NIMS	In-situ TEM observation of oxide material crystal growth
P008	A0101	Minghui	Song	NIMS	3D-TEM of a Newly Developed Polysulfone Nanoporous Polymer
P009	A0102	Nobuhiro	Ishikawa	NIMS	In-situ observation of Fe precipitation in iron-oxide caused by ceramics in TEM
P010	A0113	Yuya	Yamato	Keio University	Image analysis of platelets on an artificial material at the ultrastructural level by transmission electron microscopy
P011	A0117	Mariusz	Andrzejczuk	Warsaw University of Technology	3D characterization of surface modified LTO by STEM tomography
P012	A0058	Zac	Thollar	Tokyo Institute of Technology	Local electric field measurement of Ag particles using STEM cathodoluminescence
P013	A0059	Takazumi	Ohno	Tokyo Institute of Technology	Fabrication of Hexagonal Plasmonic Nanohole Array by Self-Assembly of Colloids
P014	A0060	Kenya	Yamashita	The University of Tokyo	STEM investigations of intrinsic interstitial sites in the close-packed LPSO-Mg alloys

TS-2: High Resolution Electron Microscopy

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P015	A0023	Tadahiro	Kawasaki	JFCC	Electrostatic Spherical-Aberration-Corrector using Annular and Circular Electrodes
P016	A0024	Mathieu	Kociak	CNRS	Quantum optics in an electron microscope
P017	A0025	Shujun	Ye	NIMS	Simple route to a widely applicable nano-sized amorphous carbon coating
P018	A0028	Shogo	Koshiya	NIMS	Direct observation of the dye for dye-sensitized solar cell by STEM
P019	A0032	Shunsuke	Yamashita	NIMS	Quantitative Atomic-Resolution Annular Dark-Field Imaging of Single-Layer Graphene
P020	A0036	Ovidiu	Cretu	NIMS	Structure and electronic properties of defects in hexagonal boron nitride characterized by HR-(S)TEM and EELS
P021	A0099	Haryo	Oktaviano	Tokyo Institute of Technology	Defective carbon nanotubes as non-metal and non-nitrogen doped ORR catalysts
P022	A0121	Takuro	Nagai	NIMS	Direct observation of atomic columns in a Bi-2223 superconducting wire by aberration-corrected STEM using a low accelerating voltage
P023	A0133	Jun	Kikkawa	NIMS	Quantitative Li mapping in $Li_x CoO_2$ by electron energy-loss spectroscopy

TS-3: Advanced Probe Microscopy

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P024	A0003	Hidenobu	Nakao	NIMS	Fluorescence Imaging Spectroscopy of Pyrolytic DNA Nanofibers
P025	A0006	Adrian	Chlanda	Warsaw University of Technology	A hierarchical multi-scale approach to topography and mechanical characterization of biomaterial for tissue engineering applications
P026	A0018	Michal	Wozniak	Warsaw University of Technology	Electrospun fibers for tissue engineering – characterization by Quantitative NanoMechanics Atomic Force Microscopy
P027	A0034	Yoshiaki	Sugimoto	Osaka University	Atom Switch Assembled by Atom Manipulation
P028	A0039	Jo	Onoda	The University of Tokyo	(2*n* ×1) Reconstructions of TiO2(011) Elucidated by AFM and STM
P029	A0040	Kohei	Niki	Osaka University	Chemical Identification of Si and Ge atoms by AFM force spectroscopy
P030	A0047	Filip	Rozboril	NIMS	Identification of the Atomic Structure of Aluminium Chains on Si(100)
P031	A0049	Yuki	Noda	AIST	Piezoresponse force microscopy of ferroelectric 2-methylbenzimidazole thin films
P032	A0074	Akitoshi	Shiotari	The University of Tokyo	Tip-enhanced Raman spectroscopy of graphene nanoribbons on a gold surface
P033	A0096	Hiroaki	Kominami	Kyoto University	Nano-scale visualization of Z-DNA conformation by FM-AFM in liquids
P034	A0097	Shunsuke	Yoshizawa	NIMS	Josephson vortices in atomic-layer superconductor probed by scanning tunneling microscopy
P035	A0098	Kalpataru	Panda	University of Tokyo	Energy Dissipation of Tunneling Electrons as a Tool to Directly Detect Electron Emission Sites in Doped Ultrananocrystalline Diamond Films
P036	A0109	HIroshi	Imada	RIKEN	Atomic-scale luminescence measurement unveiling electron energy dissipation at a *p* -type GaAs(110) surface
P037	A0118	Kuniyuki	Miwa	RIKEN	Theoretical analysis of scanning tunneling microscope-induced light emission from molecular exciton and interface plasmons
P038	A0120	Zipeng	Cui	Kyoto University	Molecular-scale Imaging of 2D Streptavidin Crystals on Mica by FM-AFM
P039	A0122	Miyabi	Imai	The University of Tokyo	Energy-level alignment of a single molecule on the ultrathin insulating films with various thicknesses
P040	A0123	Kota	Iwata	Osaka University	Structure of Molecule Imaged by Atomic Force Microscopy at Room Temperature
P041	A0136	Shota	Kawahara	RIKEN	Adsorption structure of a MgPc on NaCl/Ag(111)
P042	A0087	Shotaro	Shimizu	Yokohama National University	Analysis of the surface states of epitaxial β-$FeSi_2$(100)/Si(001) thin films by scanning tunneling spectroscopy

TS-4: Microscopic Imaging of Spin and Magnetism

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P043	A0007	Xia	Sun	University of Science and Technology of China	Half Metallicity Recovery of Fe_3O_4(100) by Surface Modification
P044	A0016	Mitsunori	Kurahashi	NIMS	Spin dependent O_2 chemisorption on Ni(111)
P045	A0073	Masahiko	Suzuki	Osaka Electro-Communication University	Study of Magnetic Domain Structures of Co/Ni Multilayers with High Brightness and Highly Spin-Polarized Low Energy Electron Microscopy (SPLEEM)
P046	A0089	Andrew	Pratt	University of York	Antiferromagnetic Coupling at Organic Semiconductor/Ferromagnetic Interfaces
P047	A0009	Hirokazu	Ueta	NIMS	State-resolved Methane Reactivity on Pt(111) studied by Reflection Absorption Infrared Spectroscopy
P048	A0077	Seiji	Sakai	JAEA	Proximity-induced spin-polarization in graphene/magnetic oxides heterostructures

TS-5: Advanced Synchrotron Radiation Analysis

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P049	A0004	Kyle	McElhinny	University of Wisconsin-Madison	Large-wavevector phonon population anisotropy in silicon nanomembranes
P050	A0038	Hirofumi	Matsuhata	AIST	Grazing-incidence synchrotron X-ray topography for 4H-SiC power device technologies
P051	A0050	Chulho	Song	NIMS	Operando Structural Study of Li_2O_2 in Nonaqueous Li-Air Battery using Synchrotron X-ray Diffraction
P052	A0075	Wenyang	Zhao	NIMS	Energy-dispersive X-ray spectra observed by CCD camera
P053	A0081	Kenji	Sakurai	NIMS	X-ray fluorescence imaging of growing chemical patterns
P054	A0082	Kenji	Sakurai	NIMS	Realtime X-ray analysis of buried layers and interfaces
P055	A0083	Kenji	Sakurai	NIMS	Preparation of crystalline $BaTiO_3$ ultra thin films by polymerized complex route
P056	A0084	Takayuki	Iida	The University of Tokyo	Formation of Mixed Oxide Composites with Particular Structures by Mechanochemical Treatment and Their Utilization for Crystallizing Heteroatom-Rich Zeolites
P057	A0107	Osami	Sakata	NIMS	Application of hard X-ray photoelectron spectroscopy to observation of electronic states of nanoparticles and epitaxial oxide thin films
P058	A0110	Akari	Hatakeyama	The University of Tokyo	Structural study of $W_xV_{1-x}O_2$ nanorods using synchrotron X-ray powder diffraction
P059	A0112	Shintaro	Yasui	Tokyo Institute of Technology	Origin of Giant Piezoelectricity Measured by Time-resolved SXRD with Electric Field
P060	A0134	Kiliha	Katayama	Tokyo Institute of Technology	Growth and structural analysis of epitaxial orthorhombic $YO_{1.5}$-HfO_2 thin films
P061	A0137	Akifumi	Matsuda	Tokyo Institute of Technology	The effect of topmost surface structure of the surface of atomically stepped α-Al_2O_3 (0001) substrates on epitaxy of NiO (111) films and nano-materials
P062	A0142	Shinji	Kohara	NIMS	The structure of amorphous BiO_x and Bi_2O_3-GeO_2 revealed by total scattering measurements
P063	A0070	Jinxing	Jiang	NIMS	Instrumentation of X-ray reflection tomography technique: towards visualization of buried inhomogeneous interfaces of layered thin films
P064	A0145	Koji	Ohara	JASRI	Synchrotron X-ray scattering measurement at SPring-8
P065	A0071	Yohei	Onodera	Kyoto University	Structure of sulfide-based superionic conductors studied by Neutron and X-ray scattering
P066	A0146	Osami	Sakata	NIMS	Extension of a hard x-ray standing wave technique for commonly used substrates
P067	A0148	Masao	Kimura	KEK	Observation of heterogeneous reactions using XAFS, XRD and CT using synchrotron radiation

TS-6: Advanced Neutron Beam Analysis

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P068	A0005	Ekaterina	Pomjakushina	Paul Scherrer Institut	Neutron powder diffraction study of $Tm_2Mn_2O_7$ - pyrochlore obtained by yet another chemical route of synthesis
P069	A0015	Hiroaki	Mamiya	NIMS	Slow dynamics in a geometrically frustrated magnet $ZnFe_2O_4$
P070	A0020	Masashi	Hase	NIMS	Magnetic structure of quasi-one-dimensional frustrated antiferromagnet $Cu_3Mo_2O_9$
P071	A0048	Hiroaki	Mamiya	NIMS	In-situ observation of nano-precipitation in structural materials using small angle scattering
P072	A0051	Alexei	Belik	NIMS	Ferroelectricity Induced by Spin Helicity in Multiferroic In_2NiMnO_6
P073	A0053	Noriki	Terada	NIMS	Magnetic ordering and ferroelectricity in multiferroic *2H* -$AgFeO_2$: Comparison between hexagonal and rhombohedral polytypes
P074	A0072	Nozomu	Adachi	Toyohashi University of Technology	Nanoscale structural inhomogeneity of bulk metallic glass formed by high-pressure torsion investigated by small-angle scattering technique
P075	A0080	Kenji	Sakurai	NIMS	Visualization of buried interfaces by neutron reflection projections
P076	A0126	Hideaki	Kitazawa	NIMS	Neutron diffraction of the magnetic refrigerant material Ho_5Pd_2 under magnetic fields
P077	A0140	Naohito	Tsujii	NIMS	Neutron Powder Diffraction Study of $CuFeS_2$-based Thermoelectric Materials
P078	A0056	Agata	Kowalska	NIMS	Manufacturing and characterization of ODS austenitic steels

TS-7: Advanced Solid-state NMR

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P079	A0076	Atsushi	Goto	NIMS	Dynamic nuclear polarization based on the optical pumping method in semiconductors
P080	A0104	Yugo	Tasei	Yokohama National University	Development of *in situ* microwave irradiation NMR spectroscopy for study of microwave chemistry
P081	A0111	Yuuki	Mogami	NIMS	Promotion of Cryo-coil MAS-NMR Probe Corresponding to the Multinuclear

TS-8: Materials Informatics by Advanced Characterization

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P082	A0008	Shinjiro	Yagyu	NIMS	Band Diagram Characterization System
P083	A0031	Akiko	Ogawa	National Institute of Technology, Suzuka College	Multifaceted Analysis for Understanding Biofouling under the Sea
P084	A0033	Hideki	Yoshikawa	NIMS	Factor analysis of angle-resolved REELS spectra for compound semiconductors toward building database of energy loss functions
P085	A0035	Michiko	Yoshitake	NIMS	Automatic Extraction of Numerical Data from Spectroscopic Graphs in PDF files
P086	A0045	Tokushi	Kizuka	University of Tsukuba	*In Situ* Transmission Electron Microscopy of 3000 K Class Heating Using Pulsed Electric Currents
P087	A0055	Mitsuaki	Nishio	NIMS	Quantification of electron microprobe analysis for Mg in MgGe alloy. *Reexamination of databases of mass absorption coefficients of MgKα*
P088	A0063	Bo	Da	NIMS	RMC Method for Deriving Optical Constants of Solids from REELS spectra
P089	A0091	Hong	Wang	NIMS	Advanced In Situ Multi-scale Characterization of High Strength CFRP Materials
P090	A0138	Lokesh	Agrawal	NIMS	Design of materials that programs itself: brain jelly for nested rhythm based computing
P091	A0141	Krystian	Kowiorski	Military University of Technology	A complementary method of interference in the study of optical parameters in the smectic liquid crystal.

TS-9: GREEN Innovation by Operando Characterization

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P092	A0010	Toshihiro	Kondo	Ochanomizu University	*In situ* Structural Studies on Pt(111) Single-Crystal Electrode/Electrolyte Solution Interfaces
P093	A0012	Maya	Ueda	Ochanomizu University	Electrocatalytic Activities of Pt Layers Covered Ni Core-Shell Nanoparticles for Oxygen Reduction Reaction
P094	A0013	Ayumi	Shokai	Ochanomizu University	Construction of Flatly Adsorbed Porphyrin Molecular Layers on Single Crystal Si(111) and Au(111) Surfaces
P095	A0019	Hidenori	Noguchi	NIMS	Characterization of interfacial structure of photoenergy conversion systems by surface vibrational spectroscopy
P096	A0021	Tadahiro	Kawasaki	JFCC	Dynamic Observation of Colloidal Particle Motion in Water Droplets by Liquid Environmental TEM
P097	A0022	Tadahiro	Kawasaki	JFCC	Visualization of Active Site on Gold Nanoparticulate Catalyst by Windowed Environmental TEM
P098	A0026	Yohichi	Suzuki	AIST	Charge Carrier Dynamics on $La_5Ti_2CuS_5O_7$: Theoretical Analysis of Time-Resolved Diffuse Reflectance Spectroscopy
P099	A0027	Nana	Aoki	NIMS	Geometric and Electronic Structures of Electrochemically Li Inserted Si(111) Studied by Scanning Electron Microscopy, X-ray Diffraction, and Soft X-ray Emission Spectroscopy
P100	A0043	Masaaki	Yoshida	Keio University	Photoexcited Carrier Transfer to a MnO_x Water Oxidation Cocatalyst on a $SrTiO_3$ Photoelectrode Studied by In Situ X-ray Absorption Spectroscopy
P101	A0044	Yosuke	Mitsutomi	Keio University	Operando Observation of Nickel Oxide Cluster in Nickel–Borate Electrocatalyst for Water Oxidation by In Situ O K-edge X-ray Absorption Spectroscopy
P102	A0061	Shuo	Yang	NIMS	Application of Electrochemical Sum Frequency Generation Spectroscopy to Probe Electronic Structure at electrode/electrolyte Interface
P103	A0062	Hideki	Masuda	NIMS	KPFM measurement of all-solid-state LIB with *in situ* operation in Ar atmosphere
P104	A0066	Satoshi	Nihonyanagi	RIKEN	*in-situ* Electrochemical Vibrational Sum Frequency Generation Spectroscopy of $LiCoO_2$/Carbonate Interfaces
P105	A0068	Takanori	Koitaya	The University of Tokyo	Reaction of CO_2 on Cu(997) studied by ambient-pressure X-ray photoelectron spectroscopy
P106	A0069	Chikako	Sakai	NIMS	Imaging of Electrical Potential Distribution in Multilayer Ceramic Capacitors using Scanning Helium Ion Microscope
P107	A0088	Tetsuroh	Shirasawa	The University of Tokyo	Capturing Surface Structural Changes during Electrochemical Reaction Using Surface Rainbow X-ray Diffraction
P108	A0090	Kentaro	Tomita	NIMS	In situ Surface Enhanced Raman Spectroscopy Studies on the Discharge Products in a Dimethylsulfoxide-Based Li-O_2 Secondary Battery
P109	A0092	Katsuyoshi	Ikeda	Nagoya Institute of Technology	Plasmon enhanced surface observation of atomically defined model catalysts
P110	A0094	Masato	Kotsugi	Tokyo University of Science	Magnetic anisotropy of $L1_0$-type FeNi ordered alloy studied by opedando PEEM
P111	A0103	Andrii	Rednyk	NIMS	Investigation of methanol oxidation reaction on platinum oxide thin film catalyst

TS-10: General

Poster No.	ID	Given Name	Family Name	Affiliation	Abstract Title
P112	A0030	Carola	Schopf	University College Cork	Single Au nanorods for optical Hg detection
P113	A0046	Daniela	Iacopino	Tyndall National Institute	Sensing Applications of Au Nanorods and Au Nanorod Superstructures
P114	A0065	Antonio	Arcanjo de Araujo Melo	NIMS	Control of Direct Electron Transfer of Cytochrome c Employing Magnetoswitchable Electrode Interfaces
P115	A0078	Makoto	Nakagawa	Tokyo University of Science	Double-Helical Au Nanowires Synthesized Using a Hydrogel Template Composed of Two Organogelators
P116	A0116	Michael	Schmidt	University College Cork	Absence of Evidence ≠ Evidence of Absence: Statistical Analysis of Inclusions in Multiferroic Thin Films
P117	A0119	Muhammad Umar	Khan	Tyndall National Institute	Bloch Surface Waves Sensors: The Future in Bio-sensing?
P118	A0130	Jacek	Gosciniak	University College Cork	TiN for plasmonic applications
P119	A0132	Michele	Conroy	Tyndall National Institute	Site controlled RYG light emitting InGaN QDS on nano-tipped GaN rods
P120	A0144	Karen	Twomey	Tyndall National Insitute	Application of nanoporous structures for oxygen sensing and DNA detection
P121	A0147	Maria	Bardosova	University College Cork	Silica-based Nanocomposites infilled with Indium – Electrical and Magnetic Properties
P122	A0149	Lisa	Helen	University College Cork	Impedance Sensors for Biomedical and Bioassay Applications
P123	A0150	Gerard	Duffy	University College Cork	Rapid Monitoring of Caffeine for Application in Process Analytical Technology in the Food and Beverage Industry
P124	A0106	Viet-Giang	Truong	OIST Graduate University	Trapping and Manipulation of Micro-particles with Nanofibre and Optical Tweezers compact systems
P125	A0014	Yoshitaka	Matsushita	NIMS	Newer lab-based x-ray diffractometers in Materials Analysis Station, NIMS
P126	A0037	Rio	Kurimoto	NIMS	Design of Cellular-compatible Nano-interfaces Engineered by Polymer-peptide Combinations
P127	A0041	Anna	Jastrzebska	NIMS	Microstructure and mechanical properties of Ti-6Al-4Nb and Ti-10Al-4Nb alloys after plane strain compression test
P128	A0042	Norimichi	Watanabe	NIMS	Observation of Boron distribution in Ferritic Heat-Resistant Steels by TOF-SIMS
P129	A0054	Yoshihisa	Tanaka	NIMS	Deformation monitoring at different scales for detecting interface damage of CFRP by combining electron moire and digital image correlation (DIC) methods
P130	A0057	Izabela	Osica	NIMS / Warsaw University of Technology	Hybrid Inorganic-Organic Nanomaterials for Sensing of Volatile Biomarker
P131	A0079	Yohei	Kotsuchibashi	NIMS	A Temperature Responsive Micelle System for Efficient Drug Loading
P132	A0085	Sher	Alam	KEK (Collaborative Research)	Emergent Magnetism in Mesoporous Materials
P133	A0095	Yasuhiro	Nakagawa	NIMS	Immunosuppressive Effect of Apoptotic Cell Membrane Mimetic Materials
P134	A0105	Akiyoshi	Yamazaki	University of Tsukuba	Design of the High Resolution Ion Microbeam System for Analysis of Structural Materials on the 6 MV Tandem Accelerator at the University of Tsukuba
P135	A0108	Maciej	Giżyński	NIMS	Microstructure evolution of TiAl-based coatings manufactured by Warm Spray technique
P136	A0114	Kotaro	Takezawa	Keio University	Effects of source gas total flow rate change on characterization of nanocrystalline diamond films
P137	A0115	Naoya	Yamauchi	Keio univesity	Evaluation of solar cell characteristics of fluorinated diamond-like carbon
P138	A0124	Agnieszka	Witecka	NIMS	Influence of cells on corrosion behaviour of cast ZM21 magnesium alloy
P139	A0125	Akiko	Yamamoto	NIMS	Effects of extracting condition on the metal ion release from degradable Mg substrate for its biological safety evaluation
P140	A0127	Hideaki	Kitazawa	NIMS	TOF-SIMS and autoradiography study for cesium absorption to clay minerals
P141	A0129	Rodrigo	Sato	NIMS	Quantum size effects in the intrinsic third order nonlinear optical susceptibility of clusters: Ag nanospheres-silica glass composites
P142	A0135	Mutsuo	Uehara	Tokyo Institute of Technology	Phase Identification of Ca–Si Films prepared on (001) Al_2O_3 Substrates Using X-ray Diffraction Wide Area Reciprocal Space Mapping Method
P143	A0139	Yosuke	Hamasaki	Tokyo Institute of Technology	Stabilization of hexagonal $ReFeO_3$ (Re=Sc,In) films
P144	A0143	Brian	O'Rourke	AIST	The slow positron facility at AIST and applications of positrons to the characterization of structural materials
P145	A0151	Izumi	Mochizuki	KEK	The surface structure of Pt/Ge(001), Au/Ge(001) and TiO_2(110) surfaces determined by the TRHEPD analysis
P146	A0152	Ken	Wada	KEK	TRHEPD experiment station at KEK
P147	A0153	Toshio	Hyodo	KEK	Surface Structure Analysis with Total-reflection High-energy Positron Diffraction (TRHEPD)
P148	A0154	Joanna	Idaszek	Warsaw University of Technology	Investigation of Submicron Structure of Electrospun Core-Shell Fibers Using Confocal Laser Scanning Microscopy