Appendix II

2007 Users' Research Reports

Users' Research Reports

First Author	Title	Page
01A1 SWLS - White X-ray (PRT)		
Chien, C.-C.（錢家琪）	In Vivo Monitoring the Circulation by Hard X-ray Microscope and Cell Images Obtained by High-Resolution Zone Plate X-ray Microscope	II-23
Wu, S.-H.（吳溪煌）	The In Situ Images of the Electrodes in $LiFePO_4$/MCMB Cells under Various Conditions	II-24
Lin, C.-K.（林中魁）	Characterization of Tungsten Oxide Nanomaterials Prepared by a Plasma Arc Gas Condensation Technique	II-250
Lin, C.-K.（林中魁）	Characterization of Spray Pyrolyzed Manganese Oxide Powders Deposited by Electrophoretic Deposition Technique	II-286
Tien, Y.-H.（田岳翰）	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288
01B1 SWLS - X-ray Microscopy (PRT)		
Żbik, M. S.	3-Dimensional Micro-Strucrural Study of Clay-LDHs Nano-Particle Complexation for Mineral Tailing Dewatering and Water Conservation	II-25
Chao, S.-C.（趙崧傑）	X-ray Tomography Study on Li-Ion Battery Electrodes	II-26
Chen, C.-S.（陳啟祥）	Structural Analysis for Marine Endosymbiosis in Corals	II-27
Chen, J.-H.（陳建樺）	Developing TXM 3D Imaging of Stardust Using Terrestrial Samples	II-28
Chen, J.-H.（陳建樺）	The 3D Tomographical and Chemical Imaging of Natural Photonic Crystal	II-29
Chou, Y.-M.（周祐民）	Gouge Internal Structures of the 1999 Chi-Chi Taiwan Seismic Faulting	II-30
Lin, Y.-C.（林允智）	3D Morphology Studies of $LiFePO_4$/Bacterial Cellulose Cathode Material by X-ray Microscopy	II-31
Peng, S.-E.（彭紹恩）	Application of Synchrotron Radiation-Based Nano-Transmission X-ray Microscopy (SR-nTXM) on Marine Animal-Plant Symbiosis	II-32
Song, Y.-F.（宋艷芳）	Structural Analysis of Collapsin Response Mediator Protein-1 by Utilizing Transmission X-ray Microscopy	II-33
Tanaka, H.（田中秀實）	Dynamic Mechanochemistry of Seismic Slip from Chelungpu Fault	II-34
Tung, K.-L.（童國倫）	Study on the 3D Pore Morphology of Membrane and Its Connectivity by X-ray Microtomography	II-35
Chien, C.-C.（錢家琪）	In Vivo Monitoring the Circulation by Hard X-ray Microscope and Cell Images Obtained by High-Resolution Zone Plate X-ray Microscope	II-23

First Author	Title	Page
01C1 SWLS - EXAFS		
Chang, C.-H.（張川修）	Structural Characterization of Novel Nanocomposite Catalysts for Fuel Cell Applications	II-36
Chang, S.-H.（張士浤）	In-Situ XAS Study: Formation Mechanism of PtPd Nanoclusters in PVP-Protected Ethylene Glycol System	II-37
Das, N. C.	XAFS Experiment on Zirconium Based Metallic Glasses	II-38
Dong, C.-L.（董崇禮）	Size Effect of CdSe Quantum Dots Studied by X-ray Absorption Spectroscopy	II-39
Fang, T.（方婷）	Revealing the Reaction Mechanisms of Tin-Based Anodes by In Situ X-ray Absorption Spectroscopy (BL-01C)	II-40
Lee, H.-Y.（李皇諭）	Structure and Support of Non-Precious-Metal Catalysts for PEFC Cathode	II-41
Lin, C.-J.（林進榮）	X-ray Absorption Spectra of Titanium-Containing Mesoporous SBA-15 Applied to CO_2 Photoreduction	II-42
Lin, K.-S.（林錕松）	Structural Characterization of Palladium Nanoparticles-Filled Carbon Nanotubes by XANES/EXAFS Spectroscopy	II-43
Sheu, H.-S.（許火順）	Pd Clusters on TiO_2-SiO_2, SiO_2, and Anatase TiO_2: Characterization and Catalysis	II-44
Tai, Y.-L.（戴佑理）	X-ray Absorption Spectroscopic Characterization of Pt-Ru Nanoparticles Reduced in Hydrogen and Carbon Monoxide	II-45
Tsai, P.-C.（蔡沛昌）	OH^- Absorption of Zn-Doped $LiNbO_3$ Single Crystals after Proton Exchange	II-46
Tseng, W.-M.（曾華民）	X-ray Absorption Spectroscopy Study of CdSe Nanoparticles	II-47
Wan, C.-C.（萬其超）	Long-Term Stability Study of Cu/Pd Nanoparticles	II-48
Wu, Y.-H.（吳宇瀚）	X-ray Diffraction and Absorption Studies of the Crystalline and Vitreous Phases of a Low Thermal Expansion Lithium Aluminosilicate Glass-Ceramics Doped with Transition Oxides	II-49
Hsu, C.-H.（徐嘉鴻）	Threading Dislocations in Domain-Matching Epitaxial Films of ZnO	II-185
Chen, S.-Y.（陳仕元）	X-ray Absorption Spectroscopic Studies on the Sulfur Environment of Sulfonic Functionalized SBA-15 Materials with Platelet Shape and Short Mesochannels	II-227
Chen, T.-Y.（陳燦耀）	Strain Induced Core-Shell Inversion on Bimetallic Pt-Ru Nanocrystallites	II-228
Fu, W.-T.（傅婉婷）	Morphology Evolution of $AuCl_3$ during Its Impregnation and the Activation of Au/Al_2O_3 Catalyst – EXAFS Analysis	II-234
Lee, M.-H.（李美嬅）	Structure and Characterizations of $Co_{rich\ core}$-$Pt_{rich\ shell}$/C Electrocatalyst for Oxygen Reduction Reaction Prepared by the Thermal Decomposition and Transmetalation Reactions	II-246
Liao, P.-Y.（廖珮芸）	Structural Investigation and Fading Mechanisms of Cathode Materials for Lithium-Ion Battery	II-248
Luo, Y.-C.（羅苡嘉）	CO Oxidation on Au-Ag Alloy Nano-Catalysts and the Kinetic Study under H_2-Rich Atmosphere	II-255
Lin, C.-K.（林中魁）	Characterization of Spray Pyrolyzed Manganese Oxide Powders Deposited by Electrophoretic Deposition Technique	II-286
Lin, K.-N.（林冠男）	XANES Study of Hybrid TiO_2/CNTs Nanomaterials at Different Temperature Effect	II-287
Tien, Y.-H.（田岳翰）	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288

First Author	Title	Page
01C2 SWLS – X-ray Powder Diffraction		
Chang, H.-H.（張顥薰）	Study on Dynamics of Structural Transformation during Charge/Discharge of $LiFePO_4$	II-50
Chang, S.-H.（張士浤）	In Situ XRD Investigation on Phase Transformation of CIGS Alloyed Compound during Heat Treatment	II-51
Chen, H.-M.（陳浩銘）	Local Structural Characterization of Gold Nanowires	II-52
Chen, S.-M.（陳思妙）	Ferromagnetic Interaction in a One-Dimentional Fe(II) Complex: $[Fe(\mu\text{-bpt})(\mu\text{-}COOC_5H_4N)]\cdot H_2O$	II-53
Cheng, L.-C.（鄭立琦）	Synchrotron Radiation X-ray Diffraction and Spectroscopic Ellipsometry Investigation of Si_3N_4 on Si for Sub-Micro Si-IC Applications	II-54
Chiang, F.-K.（蔣復國）	Investigation of $Dy(Mn_{1-x}Fe_x)O_3$ Multiferroic Perovskites	II-55
Hsu, S.-J.（許守仁）	Self-Assembly of Functionalized ZnO Nano-Particle/Rod Surface Modification via Hydrogen Bonding in Block Copolymer Containing H-Bonded Acceptor Emitters	II-56
Jhang, P.-C.（張佩琪）	Properties and Characterization of Nanoporous Materials(2)	II-57
Kung, J.（龔慧貞）	High Pressure X-ray Diffraction Study on $CaSnO_3$ Perovskite	II-58
Lee, J.-F.（李志甫）	Role of TiO_2 in Enhancing Sulfur Resistance of Supported Metal Catalysts (I): Structure of TiO_2 on Zeolite	II-59
Lin, C.-M.（林志明）	Phase Transitions in S-Doped InP under High-Pressure Studied by Angular-Dispersive X-ray Diffraction Method	II-60
Lin, C.-M.（林志明）	The Physical Properties of Lu_2O_3 under High-Pressure by X-ray Diffraction Method	II-61
Lin, Y.-S.（林育生）	The Studies of Novel Cathode and Anode Materials for Li Secondary Batteries	II-62
Sheu, H.-S.（許火順）	Structure Determination of Pentacene Derivative by Synchrotron Powder Diffraction Data	II-63
Tu, Y.-C.（杜怡君）	Crystal Structure of $(R_{2-x}Ca_x)Zr_2O_{7-0.5x}$ (R = Nd, Gd) Compounds	II-64
Wang, L.-C.（王律之）	Nanostructured Palladium Incorporated in MCM-41 Materials	II-65
Wu, M.-C.（吳明誠）	Synthesis of $In(OH)_3$ and In_2O_3 Nanomaterials Incorporating Au	II-66
Wu, S.-H.（吳溪煌）	Effects of Al^{3+} Ion Doping of the Lithium Iron Phosphate	II-67
Yu, W.-Y.（游文岳）	In-Situ Structural Investigations of Nanocrystalline Titania from Titanate Nanotubes	II-68
Sheu, H.-S.（許火順）	Pd Clusters on TiO_2-SiO_2, SiO_2, and Anatase TiO_2: Characterization and Catalysis	II-44
Wu, Y.-H.（吳宇瀚）	X-ray Diffraction and Absorption Studies of the Crystalline and Vitreous Phases of a Low Thermal Expansion Lithium Aluminosilicate Glass-Ceramics Doped with Transition Oxides	II-49
Jiang, J.-Y.（江峻諺）	Studies of the Capacity Fading in Li-Ion Battery	II-170
Lin, C.-J.（林進榮）	Effect of Water Content in Ethylene Glycol as Electrolyte for Fabrication of Anodic Titania Nanotubes: Synchrotron XRD Characterization	II-173
Hsu, C.-H.（徐嘉鴻）	Threading Dislocations in Domain-Matching Epitaxial Films of ZnO	II-185
Chen, T.-Y.（陳燦耀）	Strain Induced Core-Shell Inversion on Bimetallic Pt-Ru Nanocrystallites	II-228
Wu, M.-C.（吳明誠）	Synthesis and Optical Properties of $M_xZn_{1-x}O$ Nanosponge (M = Mn, Fe, Co, Ni)	II-267

First Author	Title	Page

03A1 BM – (HF-CGM) Gas Phase/Photoluminescence

Chan, T.-S.（詹丁山）	VUV and UV Study of Mn^{2+}-Doped $LiZnPO_4$: A Yellow-Green Phosphor for UV-LED	II-69
Jia, G.	New Luminescent Multiplet Terms in $KPb_2Cl_5:Er^{3+}$	II-70
Kuo, Y.-P.（郭玉萍）	Absorption Spectra in the Vacuum Ultraviolet Region of Methanol in Condensed Phases	II-71
Lee, T.-J.（李德茹）	Investigation of Pr^{3+} as a Sensitizer in Quantum-Cutting Fluoride Phosphors	II-72
Tanner, P. A.	Reassignment of Ce^{3+} 5D Energy Levels	II-73
Tanner, P. A.	Downconversion in $Cs_2NaErCl_6$	II-74
Tu, Y.-T.（涂雅婷）	Investigation of Quantum Cutting in Non-Fluoride Green-Emitting Phosphors via Down-Conversion	II-75
Wu, C. Y. R.（吳中榮）	EUV Resonance Fluorescence of the $c_4'(0)$ and $b'(1)$ States of N_2	II-76
Wu, C.-C.（吳佳蓁）	Luminescence of the Green-Emitting $Ca(La,Gd)_4(SiO_4)_3O:Tb^{3+}$ Phosphors with VUV Excitation	II-77

04B1 BM – (Seya) SRCD

Luo, J.-Y.（羅仁佑）	The Strong DC Field Effect on Autoionization of Calcium near 3D Threshold	II-78
Nee, J.-B.（倪簡白）	Absorption Spectrum of N_2 in 80-100 nm Wavelength Region	II-79
Wen, C.-R.（溫清榕）	Photon-Induced Dissociation Studies Using Synchrotron Radiation: CF_2Cl_2/Si(111) 7x7	II-80

05B2 EPU – PEEM

Chan, C. L.（詹承濂）	Electronic Structure of $VO_x[C_pN_qH_r]_n$ Nanowires	II-81
Chan, Y.-L.（陳悅來）	Impacts of Pentacene Spacer Layer to the Magnetic Properties of Organic Spin-Valve Studied by XPEEM	II-82
Jih, N.-Y.（紀乃友）	Magnetic Domains in Ferromagnet/Antiferromagnet Exchange Coupling System	II-83
Kuo, C.-C.（郭建成）	Enhanced Ferromagnetic States by Normal Metal Spacer	II-84
Kuo, S.-W.（郭書瑋）	Surface Alignment of PMDA-ODA Polyimide via Ion Beam Bombardment	II-85
Lin, K.-W.（林克偉）	The Investigation of the Magnetic Domain Behavior in Exchange Biased Thin Film Bilayers by Photoemission Electron Microscopy (PEEM)	II-86
Lin, Y.-C.（林楹璋）	Interfacial Properties and Coupling of Pentacene on Ni/Cu(100) Surface	II-103

05B3 EPU – Soft X-ray Scattering

Wadati, H.（和達大樹）	Electronic Structure of the $SrTiO_3/LaAlO_3$ Interface Revealed by Resonant Soft X-ray Scattering	II-87
Xie, B.-P.（謝斌平）	Soft X-ray Absorption Studies of Charge Ordering in Intercalated Triangular Lattice Systems	II-88

First Author	Title	Page
08A1 BM – (L-SGM) XPS, UPS		
Cheng, C.-P.（鄭秋平）	Formation of SiC Films via C_{60} Molecules as a Precursor	II-89
Ho, G. H.（鄭秀英）	Outgassing Study of Photoacid Generators at 13.5 nm	II-90
Wei, C.-H.（魏竟軒）	Interfacial Electronic Structure of LiF Deposited on PLED Materials by Synchrotron Radiation Photoemission	II-91
Wen, C.-R.（溫清榕）	PES Studies Using Synchrotron Radiation: CF_2Cl_2/Si(111) 7x7	II-92
Wen, C.-R.（溫清榕）	Photolysis Studies Using Synchrotron Radiation: $CFCl_3$/Si(111) 7x7	II-93
Wu, C.-I（吳志毅）	High Efficient Organic Light-Emitting Devise with MoO_x	II-94
Wu, C.-I（吳志毅）	Mechanisms of Enhanced Hole-Injection in Organic Light-Emitting Devices with MoO_3 Layers	II-107
09A1 U5 – SPEM (PRT)		
Chuang, C.-H.（莊程豪）	Light-Induced Chemical Modification in Nanostructued Co_3O_4	II-95
Huang, M.-L.（黃懋霖）	The Energy Band Parameters of ALD-Oxide/$In_xGa_{1-x}As$ Heterostructures	II-96
Shiu, H.-W.（許紘瑋）	Growth of Scandium Silicide on Si(111)-7×7 Reconstructed Surface	II-97
Skinner, W. M.	Chemical Imaging of Nanoporous Material Surfaces	II-98
Toyoshima, Y.（豐島安志）	Spatial Distribution of Local Schottky and Ohmic Junctions at ITO/*p*-GaN Interfaces Studied by Scanning Photoelectron Microscopy	II-99
Weng, C.-C.（翁志強）	Aliphatic Monomolecular Resists for Lithography Using Free Radical Dominant Plasma	II-100
Wu, C.-L.（吳忠霖）	Polarization-Induced Band Alignments at Anion- and Cation-Polar InN/GaN Interfaces	II-101
09A2 U5 – Spectroscopy		
Lee, T.-H.（李宗勳）	Modification of Aluminum/Polymer Interface in Organic Light Emitting Diodes by Introducing Ultrathin Organic Oxide Layer: The XPS Study	II-102
Lin, Y.-C.（林楹璋）	Interfacial Properties and Coupling of Pentacene on Ni/Cu(100) Surface	II-103
Peele, A. G.	Diffractive Imaging Using Soft X-rays	II-104
Pi, T.-W.（皮敦文）	High-Resoluion Core-Level Photoemission Study of the Mg:Ag/Tris(8-hydroxyquinolato) Aluminum Interface	II-105
Sartale, S. D.	Adsorption and Decomposition of Methanol on Au Nanoclusters Supported on a Thin Film of Al_2O_3/NiAl(100)	II-106
Wu, C.-I（吳志毅）	Mechanisms of Enhanced Hole-Injection in Organic Light-Emitting Devices with MoO_3 Layers	II-107
Chan, Y.-L.（陳悅來）	Impacts of Pentacene Spacer Layer to the Magnetic Properties of Organic Spin-Valve Studied by XPEEM	II-82
Kuo, S.-W.（郭書瑋）	Surface Alignment of PMDA-ODA Polyimide via Ion Beam Bombardment	II-85
Wei, C.-H.（魏竟軒）	Interfacial Electronic Structure of LiF Deposited on PLED Materials by Synchrotron Radiation Photoemission	II-91
Wu, C.-L.（吳忠霖）	Polarization-Induced Band Alignments at Anion- and Cation-Polar InN/GaN Interfaces	II-101

First Author	Title	Page

11A1 BM – (Dragon) MCD, XAS (PRT)

Burnus, T.	X-ray Absorption Study of Co and Mn Valence State in $LaMn_{0.5}Co_{0.5}O_3$	II-108
Chang, B.-C.（張炳章）	The Oxygen K-Edge XANES of $RuSr_2Rcu_2O_8$ (R = Rare Earths)	II-109
Chen, C.-L.（陳啟亮）	The Investigation of the Structure Distortion in the Single Crystals of $Sr_2Yru_{1-x}Cu_xO_6$	II-110
Chen, Y.-S.（陳佑昇）	The Study of Structural and Magnetic Transition from Epitaxial Fe/Pt Multilayers to Ordered FePt Thin Films under Annealing	II-111
Hsu, F.-C.（徐豐麒）	The Valence States and Structure Symmetry of V and Cr in Spinel $LiTi_{2-x}M_xO_4$(M= V or Cr) Studied by X-ray Absorption Spectroscopy	II-112
Huang, J.-H.（黃景弘）	Analysis of X-ray Magnetic Circular Dichroism for Monodisperse Fe_3O_4 Nanoparticles	II-113
Huang, P.-H.（黃柏翔）	Coexistence of Exchange-Bias Fields and Vertical Magnetization Shifts in ZnCoO/NiO System	II-114
Lai, C.-H.（賴志煌）	Co-Existence of Biquadratic and Unidirectional Anisotropy in IrMn/CoFe/FeO_x/CoFe Films	II-115
Suga, S.（菅滋正）	Nanostructures and Nanomagnetism in bcc Co Thinfilms on Au(001) Investigated by XMCD	II-116
Tsao, T.-M.（曹崇銘）	Formational Mechanism of Red Soils in Linkuo Terrace: Physicochemical Properties of Inorganic and Organic Nanoparticles Determined by EXAFS Techniques	II-177
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285

13B1 SW6 – Protein Crystallography

Amiraslanov, I.	Identification of CD46 Binding Sites within the Adenovirus Serotype 35 Fiber Knob	II-117
Cairns, J. R. K.	Structural and Functional Studies of Rice Beta-Glucosidase (II)	II-118
Chan, H.-C.（詹秀倩）	Crystal Structure of MppR in the Biosynthesis of Antibiotic Mannopeptimycin	II-119
Chang, Y.-W.（張毅偉）	Structural Studies of DnaD Protein N-Terminal Domain from *Geobacillus kaustophilus HTA426* by X-ray Crystallography	II-120
Chen, K. H.-C.（陳皇州）	The Structure Biology Studies of Metallic Membrane Protein: Particulate Methane Monooxygenase from Methylococcus Capsulatus (Bath)	II-121
Hsieh, T.-J.（謝東儒）	Structural Analysis of the C-Terminal Domain of Bacterial DNA Gyrase	II-122
Jeng, W.-Y.（鄭文義）	Crystal Structure of IcaR, A Repressor of the TetR Family Implicated in Biofilm Formation in *Staphylococcus epidermidis*	II-123
Kumar, A.	Structural Determination of the Mutant Proteins of the Nucleotide Binding Subunit of the A_1A_0 ATP Synthase	II-124
Li, Y.-C.（李宜靜）	Structural Basis for Prostacyclin Biosynthesis	II-125
Liaw, S.-H.（廖淑惠）	Genomic Studies of the Cytidine Deaminase Superfamily: From Mononucleotide to RNA (DNA)-Editing Deaminases	II-126
Liu, Y.-C.（劉祐禎)	Crystal Structure of the Glycopeptide Hexose Oxidase Dbv29 in the Biosynthesis of A40926	II-127

First Author	Title	Page
Lu, L.-Y.（呂陸宜）	Identification and Characterization of Two Amino Acids Critical for the Substrate Inhibition of Human Dehydroepiandrosterone Sulfotransferase (SULT2A1)	II-128
Robinson, R. C.	Actin-Binding Proteins	II-129
Wang, W.-C.（王雯靜）	X-ray Crystallographic Study of *Helicobacter pylori* Aminodeoxychorismate Lyase and Shikimate Kinase (HpSK) Inhibitors	II-130
Wang, Y.-T.（王宜婷）	Redesign a Non-Specific Endonuclease	II-131
Wu, M.-Y.（吳明玥）	A 2.0 Å Structure of GMI, a Member of the Fungal Immunomodulatory Protein Family from Ganoderma Microsporum	II-132
Wu, S.-Y.（伍素瑩）	Structure-Based Drug Design	II-133
Tung, J.-Y.（董容羽）	Crystal Structures of Liand Bound Starch Binding Domain of *Rhizopus Oryzae* Glucoamylase	II-137
Chin, K.-H.（秦可欣）	The Crystal Structure of XC1258 from *Xanthomonas campestris*: A Putative Nit Protein with an Arsenic Adduct in the Active Site	II-326

13C1 SW6 – Protein Crystallography

Chen, L.-T.（陳立慈）	Structural and Functional Analyses of Five Conserved Positively Charged Residues in the L1 and N-Terminal DNA Binding Motifs of Archaeal RadA Protein	II-134
Huang, P.-T.（黃柏蒼）	Expression, Purification and Crystallization of Human Thrombomodulin Domains	II-135
Shi, Z.（石仲浩）	Crystal Structure of *Escherichia coli* Polynucleotide Phosphorylase	II-136
Tung, J.-Y.（董容羽）	Crystal Structures of Liand Bound Starch Binding Domain of *Rhizopus Oryzae* Glucoamylase	II-137
Amiraslanov, I.	Identification of CD46 Binding Sites within the Adenovirus Serotype 35 Fiber Knob	II-117
Chan, H.-C.（詹秀倩）	Crystal Structure of MppR in the Biosynthesis of Antibiotic Mannopeptimycin	II-119
Chang, Y.-W.（張毅偉）	Structural Studies of DnaD Protein N-Terminal Domain from *Geobacillus kaustophilus HTA426* by X-ray Crystallography	II-120
Chen, K. H.-C.（陳皇州）	The Structure Biology Studies of Metallic Membrane Protein: Particulate Methane Monooxygenase from Methylococcus Capsulatus (Bath)	II-121
Hsieh, T.-J.（謝東儒）	Structural Analysis of the C-Terminal Domain of Bacterial DNA Gyrase	II-122
Kumar, A.	Structural Determination of the Mutant Proteins of the Nucleotide Binding Subunit of the A_1A_0 ATP Synthase	II-124
Li, Y.-C.（李宜靜）	Structural Basis for Prostacyclin Biosynthesis	II-125
Liaw, S.-H.（廖淑惠）	Genomic Studies of the Cytidine Deaminase Superfamily: From Mononucleotide to RNA (DNA)-Editing Deaminases	II-126
Liu, Y.-C.（劉祐禎）	Crystal Structure of the Glycopeptide Hexose Oxidase Dbv29 in the Biosynthesis of A40926	II-127
Wang, W.-C.（王雯靜）	X-ray Crystallographic Study of *Helicobacter pylori* Aminodeoxychorismate Lyase and Shikimate Kinase (HpSK) Inhibitors	II-130
Wu, S.-Y.（伍素瑩）	Structure-Based Drug Design	II-133
Wu, M.-Y.（吳明玥）	A 2.0 Å Structure of GMI, a Member of the Fungal Immunomodulatory Protein Family from Ganoderma Microsporum	II-132
Chin, K.-H.（秦可欣）	The Crystal Structure of XC1258 from *Xanthomonas campestris*: A Putative Nit Protein with an Arsenic Adduct in the Active Site	II-326

First Author	Title	Page
14A1 BM – IR Microscopy		
Chen, C.-S.（陳啟祥）	Effect of *N*-Acetylcysteine on Tissue Compositional Changes during Coral Germ Layers Separation: The Analysis Using Synchrotron Radiation-Based Fourier Transform Microspectroscopy	II-138
Hackett, M.	Investigating the Biochemical Mechanisms of Cerebral Malaria Using SR-FTIR Spectroscopic Mapping	II-139
Huang, P.-Y.（黃佩瑜）	A Study of Oral Epidermoid Carcinoma Cell Line Using Synchrotron-Based Infrared Microspectroscopy	II-140
Huang, P.-Y.（黃佩瑜）	A Study of Human Oral Cavity Cancer Tissues Using Synchrotron-Based Infrared Microspectroscopy	II-141
Lee, C.-F.（李政峰）	Measurement of Human Cancerous and Noncancerous Tissues by Advance Synchrotron FTIR	II-142
Lee, C.-F.（李政峰）	Diagnostic Application of SRFTIR Spectroscopy: Human Liver Cancer Case Study	II-143
Lee, C.-F.（李政峰）	Identification the Spectrum Variations in Mammalian Tissues by Synchrotron Radiation Fourier Transform Infrared Microscopy	II-144
Lin, Y.-C.（林允智）	Electrochemical Infrared Investigations of Ruthenium Stability between Platinum-Ruthenium Alloy Nanoparticles and Bulk Material	II-145
Liu, C.-J.（劉啟人）	Monitor of X-ray Activation of TiO_2 Nanoparticles for CT26 Cells Therapy by SR-FTIR	II-146
Marshall, C. P.	Application of SR-FTIR Microspectroscopy to Biological Samples	II-147
Peng, S.-E.（彭紹恩）	Application of Synchrotron Radiation-Based Infrared Microspectroscopy (SR-IMS) on Marine Animal-Plant Symbiosis	II-148
Wu, Y.-H.（吳宇瀚）	X-ray Diffraction and Absorption Studies of the Crystalline and Vitreous Phases of a Low Thermal Expansion Lithium Aluminosilicate Glass-Ceramics Doped with Transition Oxides	II-49
16A1 BM - Tender X-ray Absorption, Diffraction		
Chang, B.-C.（張炳章）	The Ru Electron Configuration of $RuSr_2EuCu_2O_8$	II-149
Hocking, R. K.	Fe and S K-Edge XAS Study of the Reactivity of Monosulfidic Black Ooze and Related Compounds	II-150
Hsu, I-J.（許益瑞）	Application on Biological System with Sulfur K-edge X-ray Absorption Spectroscopy	II-151
Jhang, P.-C.（張佩琪）	Properties and Characterization of Nanoporous Materials(1)	II-152
Jiang, W.-T.（江威德）	Sulfur K-edge EXAFS Analysis of Synthetic Schwertmannites and Natural Schwertmannite from the Chinkuashih Acid Mine Drainage Area, Northern Taiwan	II-153
Lin, K.-S.（林錕松）	XANES/EXAFS Study of Sulfur Ligand-Binding with Copper Metal Complexes for Mechanisms Relevant to β-amyloid Oxidation and Alzheimer's Disease	II-154
Lin, K.-S.（林錕松）	XANES/EXAFS Characterization of Heavy Metal Bioaccumulated in Contaminated Oysters (*Crassostrea gigas*) on P or S Ligand-Binding Sites	II-155
Louh, R.-F.（駱榮富）	Fabrication of ZnS and ZnO Thin Films via Chemical Bath Deposition for CIGS Thin Film Solar Cell Applications	II-156

First Author	Title	Page
Ma, C.（馬陳燕）	X-ray Absorption Near-Edge Structure Spectroscopy Research on Electronic Structures and Magnetic Properties of $(Fe_{1-x}Ni_x)_2P$	II-157
Ray, S. C.	Electronic Structure of $PbZr_{0.52}Ti_{0.48}O_3$ Thin Films by X-ray Absorption Spectroscopy	II-158
Saines, P. J.	Valence States in Double Perovskites	II-159
Wang, C.-H.（王長海）	X-ray Absorption of Nanocrystal PEG Coated Ag and Gold Nanoparticles	II-160
Liu, C.-J.（劉啟人）	Monitor of X-ray Activation of TiO_2 Nanoparticles for CT26 Cells Therapy by SR-FTIR	II-146
Hsu, H.-C.（許秀菁）	Formation of Bone Cement in the Beginning 24 Hours by X-ray Sychrotron Beam	II-186
Chen, S.-Y.（陳仕元）	X-ray Absorption Spectroscopic Studies on the Sulfur Environment of Sulfonic Functionalized SBA-15 Materials with Platelet Shape and Short Mesochannels	II-227
Lin, C.-K.（林中魁）	Characterization of Tungsten Oxide Nanomaterials Prepared by a Plasma Arc Gas Condensation Technique	II-250
Liu, L.-J.（劉禮榮）	Dose Dependent Structural Properties of Fe Ion Implanted $CuInSe_2$ Thin Film	II-254
Wang, W.-C.（王偉丞）	X-ray Absorption Spectroscopy Study of $Fe_2VSi_{1-x}Al_x$	II-265
Yu, W.-Y.（游文岳）	Preparation of Nanocrystalline Titania from Titania Nanotube: X-ray Absorption Spectroscopic Studies and Application to Dye-Sensitized Solar Cells	II-271
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285
Lin, C.-K.（林中魁）	Characterization of Spray Pyrolyzed Manganese Oxide Powders Deposited by Electrophoretic Deposition Technique	II-286
Lin, K.-N.（林冠男）	XANES Study of Hybrid TiO_2/CNTs Nanomaterials at Different Temperature Effect	II-287
Tien, Y.-H.（田岳翰）	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288
Chen, S.-Y.（陳松裕）	Feasibility Study of Wide-Angle Incidence X-ray Waveguides Prepared by Micro-/Nano-Technology	II-321

17A1 W20 – X-ray Powder Diffraction

Chen, H.-H.（陳秀慧）	Studies of Self-Assembled Supra-Structures of H-Bonded Superdiscs and Macrocyclic Liquid Crystals by X-ray Diffraction	II-161
Chen, H.-H.（陳秀慧）	Powder X-ray Diffraction Studies of Self-Assembled Supra-Structures of H-Bonded Superdiscs and Helical Discotic Liquid-Crystalline Hexabenzocoronenes	II-162
Chen, S.-Y.（陳仕元）	*In-Situ* XRD Studies on the Self-Assembly Process of Organic Functionalized SBA-15 Mesoporous Materials with Platelet Shape and Short Mesochannels	II-163
Chen, Y.-C.（陳宜群）	In-Situ XRD Study of Charge/Discharge Dynamic Characteristic of $LiFePO_4$ for Lithium Battery	II-164
Cheng, C.-F.（鄭吉豐）	Green Technology Synthesis of SBA-15 Nanoporous Material and Its Application in Chromatographic Column	II-165
Chu, C.-Y.（朱哲毅）	Morphology and Crystallization Behavior of the Binary Blend of Crystalline-Amorphous Diblock Copolymers	II-166

First Author	Title	Page
Feng, Z.-C.（馮哲川）	Synchrotron Radiation X-ray Diffraction and X-ray Photoelectron Spectroscopy Investigation on Si-Based Structures for Sub-Micron Si-IC Applications	II-167
Hu, C.-C.（胡哲嘉）	Characterization of Metal Oxides Serving as Photocatayst for Water Splitting under Light Illumination	II-168
Hwang, B.-J.（黃炳照）	Investigation of Reaction between Cu_2Se and In_2Se_3 during Temperature Ramping by In-Situ X-ray Diffraction	II-169
Jiang, J.-Y.（江峻諺）	Studies of the Capacity Fading in Li-Ion Battery	II-170
Kao, H.-M.（高憲明）	^{13}C CPMAS NMR as a Versatile and Quantitative Tool for Determination of Mercury Adsorption Capacity in Thiol-Functionalized Mesoporous Silica SBA-1	II-171
Lee, C.-H.（李志勛）	Growth and Structural Characteristics of GaN/Nano Thickγ-Al_2O_3/Si(111)	II-172
Lin, C.-J.（林進榮）	Effect of Water Content in Ethylene Glycol as Electrolyte for Fabrication of Anodic Titania Nanotubes: Synchrotron XRD Characterization	II-173
Lu, J.-T.（盧榮堂）	Ionic Liquid Crystals Derived from 4-Alkoxypyridines	II-174
Ong, C.-W.（王志偉）	Dibenzo[a,c]phenazine with Six Long Alkoxy Chains to Probe Optimization of Mesogenic Behavior	II-175
Sahu, D.	Study of Nano-Structural Arrangement in Supramolecular Liquid Crystals	II-176
Tsao, T.-M.（曹崇銘）	Formational Mechanism of Red Soils in Linkuo Terrace: Physicochemical Properties of Inorganic and Organic Nanoparticles Determined by EXAFS Techniques	II-177
Wang, C.-C.（王志傑）	Assemblies of Two New Metal-Organic Frameworks Constructed from Cd(II) with 2,2'-Bipyrimidine and Cyclic Oxocarbon Dianions $C_nO_n^{2-}$ (n =4, 5)	II-178
Wang, L.-Y.（王怜詠）	H-Bonded Banana-Shaped Liquid Crystals Containing Bis-Pyridyl Acceptors	II-179
Wang, S.-L.（王尚禮）	Effect of Nitrate Orientation in Mg/Al Layered Double Hydroxides on Their Selective Binding of Toxic Organic Contaminants–A Case Study on 2,4-D	II-180
Wu, M.-L.（吳美玲）	Higher-Order Organization of Silicate Platelets in Polymer/Layered Silicate Nanocomposites Studied by Synchrotron X-ray Scattering	II-181
Wu, Y.-S.（吳育勳）	Study Poly-3-Hexylthiophene Thin Film Orientation by GIWAXS	II-182
Yu, F.-C.（俞方正）	Banana Mesogens with Halogen Substituent at Central and Terminal Ring	II-183
Wu, Y.-H.（吳宇瀚）	X-ray Diffraction and Absorption Studies of the Crystalline and Vitreous Phases of a Low Thermal Expansion Lithium Aluminosilicate Glass-Ceramics Doped with Transition Oxides	II-49
Hsu, S.-J.（許守仁）	Self-Assembly of Functionalized ZnO Nano-Particle/Rod Surface Modification via Hydrogen Bonding in Block Copolymer Containing H-Bonded Acceptor Emitters	II-56
Lin, Y.-S.（林育生）	The Studies of Novel Cathode and Anode Materials for Li Secondary Batteries	II-62
Wu, S.-H.（吳溪煌）	Effects of Al^{3+} Ion Doping of the Lithium Iron Phosphate	II-67
Yu, W.-Y.（游文岳）	In-Situ Structural Investigations of Nanocrystalline Titania from Titanate Nanotubes	II-68
Chen, Y.-S.（陳佑昇）	The Study of Structural and Magnetic Transition from Epitaxial Fe/Pt Multilayers to Ordered FePt Thin Films under Annealing	II-111
Hsu, C.-H.（徐嘉鴻）	Threading Dislocations in Domain-Matching Epitaxial Films of ZnO	II-185
Lee, C.-H.（李志勛）	Structural Investigation of MBE Grown Yttrium-Doped HfO_2 Heterostructure	II-189

First Author	Title	Page
Lee, C.-H.（李志勛）	Growth and Structural Characteristics of GGO/GaN(001)	II-190
Nieh, C.-W.（聶君文）	Nano-Meter Thick Single Crystal Y_2O_3 Films Epitaxially Grown on Si (111) with Structures Approaching Perfection	II-192
Lin, C.-Y.（林靜儀）	In-Situ X-ray Diffraction/Scattering Study of Mesoporous Silica Nanoparticles	II-213
Lin, T.-L.（林滄浪）	Small-Angle X-ray Scattering Studies of the Interaction of Amyloid Peptide Monomers with DPPC Oligo-Lamellar Vesicles	II-214
Lin, T.-L.（林滄浪）	X-ray Scattering and Reflectivity Studies on the Absorption of DNA by Mixed Lipid/Diblockcopolymer Liposomes and Monolayers	II-215
Chen, T.-Y.（陳燦耀）	Strain Induced Core-Shell Inversion on Bimetallic Pt-Ru Nanocrystallites	II-228
Lin, C.-K.（林中魁）	Characterization of Tungsten Oxide Nanomaterials Prepared by a Plasma Arc Gas Condensation Technique	II-250
Liu, L.-J.（劉禮榮）	Dose Dependent Structural Properties of Fe Ion Implanted $CuInSe_2$ Thin Film	II-254
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285
Lin, C.-K.（林中魁）	Characterization of Spray Pyrolyzed Manganese Oxide Powders Deposited by Electrophoretic Deposition Technique	II-286
Lin, K.-N.（林冠男）	XANES Study of Hybrid TiO_2/CNTs Nanomaterials at Different Temperature Effect	II-287
Tien, Y.-H.（田岳翰）	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288

17B1 W20 – X-ray Scattering

Chen, S.-K.（陳士堃）	Surface Roughness, Mass Density and Ordering Evolution in *In-Situ* Annealed FePt Thin Films	II-184
Hsu, C.-H.（徐嘉鴻）	Threading Dislocations in Domain-Matching Epitaxial Films of ZnO	II-185
Hsu, H.-C.（許秀菁）	Formation of Bone Cement in the Beginning 24 Hours by X-ray Sychrotron Beam	II-186
Huang, T.-W.（黃子文）	Charge Density Waves Orderings in $LiCu_2O_2$ Single Crystal Studied by X-ray Scattering	II-187
Huang, Y.-F.（黃一芳）	Morphology Dependent Charge Transport in MEH-PPV Films	II-188
Lee, C.-H.（李志勛）	Structural Investigation of MBE Grown Yttrium-Doped HfO_2 Heterostructure	II-189
Lee, C.-H.（李志勛）	Growth and Structural Characteristics of GGO/GaN(001)	II-190
Lee, H.-Y.（李信義）	Structural Studies of Sputtered $La_{0.7}Sr_{0.3}MnO_3/LaNiO_3$ Superlattices	II-191
Nieh, C.-W.（聶君文）	Nano-Meter Thick Single Crystal Y_2O_3 Films Epitaxially Grown on Si (111) with Structures Approaching Perfection	II-192
Tan, B. Y.-J.（譚言正）	RXS Study of the Verwey Transition in Epitaxial Magnetite Film	II-193
Wu, Y.-H.（吳宇瀚）	X-ray Diffraction and Absorption Studies of the Crystalline and Vitreous Phases of a Low Thermal Expansion Lithium Aluminosilicate Glass-Ceramics Doped with Transition Oxides	II-49

First Author	Title	Page
Chen, Y.-S.（陳佑昇）	The Study of Structural and Magnetic Transition from Epitaxial Fe/Pt Multilayers to Ordered FePt Thin Films under Annealing	II-111
Lin, T.-L.（林滄浪）	Small-Angle X-ray Scattering Studies of the Interaction of Amyloid Peptide Monomers with DPPC Oligo-Lamellar Vesicles	II-214
Lin, T.-L.（林滄浪）	X-ray Scattering and Reflectivity Studies on the Absorption of DNA by Mixed Lipid/Diblockcopolymer Liposomes and Monolayers	II-215
Liu, L.-J.（劉禮榮）	Dose Dependent Structural Properties of Fe Ion Implanted $CuInSe_2$ Thin Film	II-254
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285
Chen, S.-Y.（陳松裕）	Feasibility Study of Wide-Angle Incidence X-ray Waveguides Prepared by Micro-/Nano-Technology	II-321
Du, C.-H.（杜昭宏）	Study of the Spin/Charge/Orbital Ordering of Transition-Metal Oxides Using X-ray Scattering and Multiple X-ray Diffraction	II-322

17B3 W20 - Small Angle X-ray Scattering

Chang, C.-F.（張七鳳）	SAXS Studies on Human Branched-Chain Alpha-Ketoacid Dehydrogenase Complex	II-194
Chang, F.-C.（張豐志）	Hydrogen-Bonding Interactions Mediate the Phase Behavior of Blending Block Copolymers with Nanoparticles, Homopolymers and Block Copolymers	II-195
Chen, J.-H.（陳建宏）	Isothermal Crystallization Behavior and Morphology Development of Isotactic Polypropylene/Polyhedral Oligomeric Silsesquioxane Nanocomposites	II-196
Chen, J.-H.（陳建宏）	Self-Assembled Nanostructure and Morphology Development of Low Molecular Weight Polyethylene-block-Poly(ethylene oxide) Diblock Copolymer	II-197
Chen, S.-H.（陳守信）	Long Range Interactions of Apoferriten in Solutions Revealed by SAXS	II-198
Chiang, W.-S.（蔣瑋珊）	Self-Assembly of Comb-Coil Block Copolymers with Heteroarm Star Achitecture	II-199
Chiu, M.-Y.（邱茂源）	Using Grazing-Incidence Small-Angle X-ray Scattering and Wide-Angle X-ray Diffraction Simultaneously to Analyze the Nanoscale Phase Separation of Poly(3-hexylthiophene) and [6,6]-Phenyl-C_{61}-butyric Acid Methyl Ester in Heterojunction Solar Cells	II-200
Chung, T.-M.（鐘才明）	Transformation from Heterogeneous to Homogeneous Nucleation in 2D Confinement	II-201
Dai, C.-A.（戴子安）	Synthesis of Novel Block Copolymers Containing Regioregular Poly(3-hexyl thiophene) via Anionic Macroinitiation Method and Their Self-Assembly Behavior	II-202
Hong, P.-D.（洪伯達）	Dynamic Interplay between Phase Separation and Crystallization in a Poly(ε-Caprolactone)/Poly(ethylene glycol) Oligomer Blend	II-203
Hsu, I-J.（許益瑞）	Global and Local Structural Changes of Cytochrome-c Induced by Urea-Mediated Unfolding in Aqueous Solutions	II-204
Huang, C.-M.（黃清茂）	The Formation of Pseudo Single Crystal Structure by Self-Assembling of Lamellar Polystyrene-b-Poly(4-vinylpyridine) Diblock Copolymer, Hydrophilic CdSe Nanoparticles and Hydrophobic Au Nanoparticles	II-205

First Author	Title	Page
Huang, P.-T.（黃柏蒼）	Expression, Purification, and SAXS Analysis of Human Thrombomodulin Domains	II-206
Hung, W.-C.（洪偉清）	Interaction of Melittin with E. Coli Membrane: Role of Cardiolipin	II-207
Hwang, B.-J.（黃炳照）	Physical Properties of Pt-Cr/C Nanoparticles Synthesized by Thermal Decomposition and Ethylene Glycol Method as Investigated by Small-Angle X-ray Scattering	II-208
Jeng, U-S.（鄭有舜）	Anomalous Small Angle X-ray Scattering for the Distribution and Aggregation of the Gold Nanoparticles in a PS-b-P4VP Diblock Copolymer	II-209
Lee, C.-Y.（李淳毅）	Structural Investigations of Dilute Silica/Poly(Ethylene Oxide) Suspensions by Small Angle X-ray Scattering Measurements	II-210
Lee, M.-T.（李明道）	Gramicidin A Induced Membrane Thickness Change of Unilamellar Vesicles in Solution Determined by Small Angle X-ray Scattering at NSRRC	II-211
Leu, J.-P.（呂志鵬）	Pore Size/Distribution and Its Control of Ultra-Low K MSQ/Porogen Material Systems for < 22 nm Backend Interconnects in Microelectronic Applications	II-212
Lin, C.-Y.（林靜儀）	In-Situ X-ray Diffraction/Scattering Study of Mesoporous Silica Nanoparticles	II-213
Lin, T.-L.（林滄浪）	Small-Angle X-ray Scattering Studies of the Interaction of Amyloid Peptide Monomers with DPPC Oligo-Lamellar Vesicles	II-214
Lin, T.-L.（林滄浪）	X-ray Scattering and Reflectivity Studies on the Absorption of DNA by Mixed Lipid/Diblockcopolymer Liposomes and Monolayers	II-215
Ma, C.-H.（馬嘉泓）	Morphology of Nafion Membranes Prepared by Solutions Casting	II-216
Shiu, Y.-J.（許瑛珍）	A Modified Ising Model for the Thermodynamic Properties of Local and Global Protein Folding-Unfolding Observed by Circular Dichroism and Small-Angle X-ray Scattering	II-217
Su, C.-H.（ 蘇秋琿）	Investigation of Equilibrium Melting of Polyfluorenes by Kratky-Porod Approximation	II-218
Su, C.-H.（蘇秋琿）	Crystallinity Development in PFO: From Nanograins to Crystalline Lamellae as Revealed by In-Situ SAXS/WAXS/DSC	II-219
Sung, H.-W.（宋信文）	Internal Structure of Novel Nanoparticles Composed of Chitosan/DNA/ Poly-γ-Glutamic Acid	II-220
Wu, Y.-S.（吳育勳）	SAXS/WAXS/DSC Study on Poly-3-alkylthiophenes	II-221
Yang, I-K.（楊怡寬）	Kinetics of Microphase Transition and Ordered Phase Alignment of Block Copolymer under Flow	II-222
Yang, I-K.（楊怡寬）	The Melting Behavior of a Mixture of Poly(ε-caprolactone) and 8OCB	II-223
Zhang, H.	Photocatalytic Efficiency of TiO_2 Thin Films at Solid-Solid Interface	II-224
Lee, H.-Y.（李皇諭）	Structure and Support of Non-Precious-Metal Catalysts for PEFC Cathode	II-41
Hsu, S.-J.（許守仁）	Self-Assembly of Functionalized ZnO Nano-Particle/Rod Surface Modification via Hydrogen Bonding in Block Copolymer Containing H-Bonded Acceptor Emitters	II-56
Huang, Y.-F.（黃一芳）	Morphology Dependent Charge Transport in MEH-PPV Films	II-188
Chen, T.-Y.（陳燦耀）	Strain Induced Core-Shell Inversion on Bimetallic Pt-Ru Nanocrystallites	II-228

First Author	Title	Page
17C1 W20 – EXAFS		
Chang, B.-C.（張炳章）	The Cu Local Environment of Single Crystal $La_{2-x}Sr_xCuO_4$ (x = 0, 0.15) from K-edge Polarized X-ray Absorption Study	II-225
Chen, C.-L.（陳啟亮）	XANES Investigation of the Valance States of Cu and Ru in the Single Crystals of $Sr_2Yru_{1-x}Cu_xO_6$	II-226
Chen, S.-Y.（陳仕元）	X-ray Absorption Spectroscopic Studies on the Sulfur Environment of Sulfonic Functionalized SBA-15 Materials with Platelet Shape and Short Mesochannels	II-227
Chen, T.-Y.（陳燦耀）	Strain Induced Core-Shell Inversion on Bimetallic Pt-Ru Nanocrystallites	II-228
Chen, Y.-H.（陳育宏）	Organic Electrochemical Capacitor of $MnFe_2O_4$ with Li-Ion Electrolyte	II-229
Chen, Y.-N.（陳禹男）	X-ray Absorption Spectroscopy Study of Heusler Compounds $Ni_{2+x}Mn_{1-x}Ga$	II-230
Das, N. C.	XAFS Experiment on Composite Thin Films	II-231
Dong, C.-L.（董崇禮）	Electronic Structure of $CeCo_2$ Thin Films Studied by X-ray Absorption Spectroscopy	II-232
Fu, W.-C.（傅威程）	Transformations of Chromium Speciation Using Synchrotron Radiation Technique in Irrigation-Channel Sediments and Agricultural Soils	II-233
Fu, W.-T.（傅婉婷）	Morphology Evolution of $AuCl_3$ during Its Impregnation and the Activation of Au/Al_2O_3 Catalyst – EXAFS Analysis	II-234
Hsieh, H.-H.（謝輝煌）	Electronic Structure Study of Cu Doped SrHo 2116 Superconductor	II-235
Hsiung, T.-L.（熊東澧）	In Situ XANES Study of CuO/TiO_2 Thin Films during Photodegradation of Methylene Blue	II-236
Huang, H.-L.（黃心亮）	Speciation and Distribution of Copper and Zinc in MCM-41	II-237
Huang, Y.-J.（黃鈺軫）	The Characteristic Composition of Nanoparticles in the Ambient Air in Hsinchu Science Park in Taiwan	II-238
Hwang, B.-J.（黃炳照）	An Investigation of Structure Change in PtCo/C Bimetallic Nanoparticles during Acid Treatment	II-239
Jean, J.-S.（簡錦樹）	Molecular Understanding of the Mobility of Arsenic in the Sediments: An EXAFS and XANES Study	II-240
Jean, J.-S.（簡錦樹）	Effect of Humic Substances on Arsenic Release from Sediments into Groundwater of Bangladesh and Taiwan	II-241
Jiang, W.-T.（江威德）	Arsenate Sorption Mechanisms in Synthetic Schwertmannites and Natural Schwertmannite from the Chinkuashih Acid Mine Drainage Area, Northern Taiwan	II-242
Kao, W.-C.（高偉鈞）	Isolation, Purification and Characterization of Hemerythrin from *Methylococcus capsulatus* (Bath)	II-243
Kuo, H.-T.（郭慧通）	Enhancement of Capacity via Phase Transformation of $LiVOPO_4$ to $Li_3V_2(PO_4)_3$	II-244
Lee, J.-F.（李志甫）	Role of TiO_2 in Enhancing Sulfur Resistance of Supported Metal Catalysts (II): Correlation between Catalyst Structure and Catalytic Performance	II-245
Lee, M.-H.（李美燁）	Structure and Characterizations of $Co_{rich\ core}$-$Pt_{rich\ shell}$/C Electrocatalyst for Oxygen Reduction Reaction Prepared by the Thermal Decomposition and Transmetalation Reactions	II-246

First Author	Title	Page
Lee, M.-T.（李明宗）	In Situ X-ray Absorption Spectroscopic Studies of Anodically Deposited Binary Mn-Fe Mixed Oxides with Relevance to Pseudocapacitance	II-247
Liao, P.-Y.（廖珮芸）	Structural Investigation and Fading Mechanisms of Cathode Materials for Lithium-Ion Battery	II-248
Liao, P.-Y.（廖珮芸）	X-ray Absorption Fine-Structure Spectroscopy Study of Charge/Discharge Dynamic Characteristic of $LiFePO_4$ Crystalline Structure in Lithium Ion Battery	II-249
Lin, C.-K.（林中魁）	Characterization of Tungsten Oxide Nanomaterials Prepared by a Plasma Arc Gas Condensation Technique	II-250
Lin, K.-S.（林錕松）	Structural Characterization of Brain Zinc Metal Complexes of β-Amyloid Oxidation for Alzheimer's Disease by XANES/EXAFS Spectroscopy	II-251
Liu, C.-H.（劉政樺）	Removal Arsenate by Layered Double Hydroxides (LDH) from Aqueous Solutions	II-252
Liu, C.-J.（劉嘉吉）	Thermopower and Co K-edge Studies of Potassium Sodium Cobalt Oxyhydrates $Na_{0.33}K_{0.02}(H_2O)_{1.33}CoO_{2-\delta}$ and $Na_{0.07}K_{0.21}(H_2O)_{0.63}CoO_{2-\delta}$	II-253
Liu, L.-J.（劉禮榮）	Dose Dependent Structural Properties of Fe Ion Implanted $CuInSe_2$ Thin Film	II-254
Luo, Y.-C.（羅苡嘉）	CO Oxidation on Au-Ag Alloy Nano-Catalysts and the Kinetic Study under H_2-Rich Atmosphere	II-255
Nian, J.-N.（粘駿楠）	Structural Feature and Catalytic Performance of Cu Species Distributed over TiO_2 Nanotubes	II-256
Sheu, C.-F.（許朝富）	Application of X-ray Near-edge Absorption Spectroscopy on Fe(III) Spin Crossover Complexes	II-257
Soo, Y.-L.（蘇雲良）	Local Structures of Co in Co-Doped HfO_2 Studied by EXAFS	II-258
Su, W.-P.（蘇文彬）	XAS of $(M_{2-x}Li_{3x})Ti_2O_7$ (M = Gd, Y) Compounds	II-259
Tsai, H.-M.（蔡煌銘）	Experimental Examination of Phase Transition in FePt Films Produced by Low-Temperature Annealing	II-260
Tzou, Y.-M.（鄒裕民）	The Adsorption and Catalytic Transformations of Chromium on Mn Substituted Goethite	II-261
Wang, C.-K.（王俊凱）	Chemical Bonds and Structural Evolution of Electrochromic WO_3 Films during Electrochemical Cycles	II-262
Wang, K.-P.（王凱平）	Characterization of Metal Oxides Serving as Photocatalyic Electrodes for Water Splitting under Light Illumination	II-263
Wang, S.-L.（王尚禮）	Speciation and Distribution of Arsenic in Contaminated Soils in Guandu, Taipei	II-264
Wang, W.-C.（王偉丞）	X-ray Absorption Spectroscopy Study of $Fe_2VSi_{1-x}Al_x$	II-265
Wei, Y.-L.（魏玉麟）	XAS Study on the Cu and Cr Electronic States and Molecular Environments of Red-Shift Metal Compound-Doped TiO_2 Nanoparticles	II-266
Wu, M.-C.（吳明誠）	Synthesis and Optical Properties of $M_xZn_{1-x}O$ Nanosponge (M = Mn, Fe, Co, Ni)	II-267
Wu, S.-H.（吳溪煌）	Valance Variations of $LiMn_{0.95}Cr_{0.05}O_2$ Cathode Materials upon Charge/Discharge Cycling	II-268
Yang, C.-L.（楊青林）	Structure and Magnetic Property of Cyanide Bridged Molecular Square Chain	II-269
Yu, S. S.-F.（俞聖法）	The X-ray Absorption Spectroscopic Analysis of SoxR Transcriptional Factor from *Escherichia coli*	II-270

First Author	Title	Page
Yu, W.-Y.（游文岳）	Preparation of Nanocrystalline Titania from Titania Nanotube: X-ray Absorption Spectroscopic Studies and Application to Dye-Sensitized Solar Cells	II-271
Chang, C.-H.（張川修）	Structural Characterization of Novel Nanocomposite Catalysts for Fuel Cell Applications	II-36
Das, N. C.	XAFS Experiment on Zirconium Based Metallic Glasses	II-38
Fang, T.（方婷）	Revealing the Reaction Mechanisms of Tin-Based Anodes by In Situ X-ray Absorption Spectroscopy (BL-01C)	II-40
Sheu, H.-S.（許火順）	Pd Clusters on TiO_2-SiO_2, SiO_2, and Anatase TiO_2: Characterization and Catalysis	II-44
Tai, Y.-L.（戴佑理）	X-ray Absorption Spectroscopic Characterization of Pt-Ru Nanoparticles Reduced in Hydrogen and Carbon Monoxide	II-45
Tsai, P.-C.（蔡沛昌）	OH-Absorption of Zn-Doped $LiNbO_3$ Single Crystals after Proton Exchange	II-46
Tseng, W.-M.（曾華民）	X-ray Absorption Spectroscopy Study of CdSe Nanoparticles	II-47
Wan, C.-C.（萬其超）	Long-Term Stability Study of Cu/Pd Nanoparticles	II-48
Chen, Y.-S.（陳佑昇）	The Study of Structural and Magnetic Transition from Epitaxial Fe/Pt Multilayers to Ordered FePt Thin Films under Annealing	II-111
Liu, C.-J.（劉啟人）	Monitor of X-ray Activation of TiO_2 Nanoparticles for CT26 Cells Therapy by SR-FTIR	II-146
Hocking, R. K.	Fe and S K-Edge XAS Study of the Reactivity of Monosulfidic Black Ooze and Related Compounds	II-150
Wang, C.-H.（王長海）	X-ray Absorption of Nanocrystal PEG Coated Ag and Gold Nanoparticles	II-160
Hsu, C.-H.（徐嘉鴻）	Threading Dislocations in Domain-Matching Epitaxial Films of ZnO	II-185
Huang, T.-W.（黃子文）	Charge Density Waves Orderings in $LiCu_2O_2$ Single Crystal Studied by X-ray Scattering	II-187
Lee, H.-Y.（李信義）	Structural Studies of Sputtered $La_{0.7}Sr_{0.3}MnO_3$/$LaNiO_3$ Superlattices	II-191
Nieh, C.-W.（聶君文）	Nano-Meter Thick Single Crystal Y_2O_3 Films Epitaxially Grown on Si (111) with Structures Approaching Perfection	II-192
Hsu, I-J.（許益瑞）	Global and Local Structural Changes of Cytochrome-c Induced by Urea-Mediated Unfolding in Aqueous Solutions	II-204
Hsu, S.-B.（許書斌）	To Synthesize and Analyze the Magnetic Iron/Manganese Nanoparticles	II-283
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285
Lin, K.-N.（林冠男）	XANES Study of Hybrid TiO_2/CNTs Nanomaterials at Different Temperature Effect	II-287
Tien, Y.-H.（田岳翰）	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288

First Author	Title	Page
18B1 BM - LIGA		
Cheng, S.-T.（鄭玄宗）	Nano-Fabrication of Fresnel Zone Plates by Using E-Beam and X-ray Lithography	II-272
Cheng, Y.-C.（鄭逸群）	Surface Quality Refinement in 3D X-ray Lithography	II-273
Lin, H.-M.（林勳銘）	Lithographic Effect of Synchrotron Irradiation on the DNQ/Novolak Type Photoresist	II-274
Peele, A. G.	X-ray Lithography for Lobster	II-275
Fu, C.-C.（傅建中）	Development of 3D Nano-Structure Exposure System with High Performance PZT Nano-Stage	II-276
19A1 BM - X-ray Lithography (PRT)		
Fu, C.-C.（傅建中）	Development of 3D Nano-Structure Exposure System with High Performance PZT Nano-Stage	II-276
Lo, T.-N.（羅宗男）	Combination of E-Beam Lithography and X-ray Lithography on the Fabrication of Thick Nanostructured Devices	II-277
Lin, H.-M.（林勳銘）	Lithographic Effect of Synchrotron Irradiation on the DNQ/Novolak Type Photoresist	II-274
20A1 BM - (H-SGM) XAS, XPS		
Chan, T.-S.（詹丁山）	Charge Compensation and Oxidation in $Na_xCoO_{2-\delta}$ and $Li_xCoO_{2-\delta}$ Studied by XANES	II-278
Chen, Y.-J.（陳裕仁）	Effect of Mn Impurities on the Superconductivity in $Na_xCoO_2 \bullet yH_2O$	II-279
Chuang, Y.-C.（莊裕鈞)	Soft X-ray Photochemistry at the $L_{2,3}$-edge in Fe^{II} Spin Crossover Compounds	II-280
Chung, Y.-L.（鍾瑜玲）	Fluorescence Enhancement for Alkaloids by Anions: Spectroscopic and Electrochemical Characterizations	II-281
He, J.-L.（何金龍）	Localized Interaction between the Magnetic Centers of $[Fe^{II}(\Delta)Fe^{II}(\Lambda)(ox)_2(Phen)_2]_n$	II-282
Hsu, S.-B.（許書斌）	To Synthesize and Analyze the Magnetic Iron/Manganese Nanoparticles	II-283
Hwang, B.-J.（黃炳照）	Soft X-ray Absorption Spectroscopy Studies on $NaNi_{0.5}Mn_{0.5}O_2$ Cathode Material by Ion Exchange	II-284
Liao, Y.-F.（廖彥發）	X-ray Study Magnetic Property and Nanostructure of the Co Doped ZnO Thin Film	II-285
Lin, C.-K.（林中魁）	Characterization of Spray Pyrolyzed Manganese Oxide Powders Deposited by Electrophoretic Deposition Technique	II-286
Lin, K.-N.（林冠男）	XANES Study of Hybrid TiO_2/CNTs Nanomaterials at Different Temperature Effect	II-287
Tien, Y.-H.（田岳翰)	Modification of Sol-Gel Manganese Oxide Films by Adding Active Carbon Powders for Supercapacitor Application	II-288
Yian, J.-H.（顏嘉興）	Hole Concentration of $(R_{1-x}Ca_x)Ba_2Cu_3O_{7-\delta}$ (R = Ho, Er, Tm, Yb) Superconductors	II-289

First Author	Title	Page
Chan, C. L.（詹承濂）	Electronic Structure of $VO_x[C_pN_qH_r]_n$ Nanowires	II-81
Chen, C.-L.（陳啟亮）	The Investigation of the Structure Distortion in the Single Crystals of $Sr_2YRu_{1-x}Cu_xO_6$	II-110
Chen, Y.-S.（陳佑昇）	The Study of Structural and Magnetic Transition from Epitaxial Fe/Pt Multilayers to Ordered FePt Thin Films under Annealing	II-111
Hsu, F.-C.（徐豐麒）	The Valence States and Structure Symmetry of V and Cr in Spinel $LiTi_{2-x}M_xO_4$(M= V or Cr) Studied by X-ray Absorption Spectroscopy	II-112
Liu, C.-J.（劉啟人）	Monitor of X-ray Activation of TiO_2 Nanoparticles for CT26 Cells Therapy by SR-FTIR	II-146
Ray, S. C.	Electronic Structure of $PbZr_{0.52}Ti_{0.48}O_3$ Thin Films by X-ray Absorption Spectroscopy	II-158
Wang, C.-H.（王長海）	X-ray Absorption of Nanocrystal PEG Coated Ag and Gold Nanoparticles	II-160
Chen, Y.-N.（陳禹男）	X-ray Absorption Spectroscopy Study of Heusler Compounds $Ni_{2+x}Mn_{1-x}Ga$	II-230
Kuo, H.-T.（郭慧通）	Enhancement of Capacity via Phase Transformation of $LiVOPO_4$ to $Li_3V_2(PO_4)_3$	II-244
Wang, W.-C.（王偉丞）	X-ray Absorption Spectroscopy Study of $Fe_2VSi_{1-x}Al_x$	II-265

21A1 U9 - (White Light) Chemical Dynamics (PRT)

Lee, S.-H.（李世煌）	Site and Isotopic Effects on the Angular Anisotropy of Products in the Photodissociation of Ethene at 157 nm	II-290
Lee, S.-H.（李世煌）	Photodissociation Dynamics of Fluorobenzene (C_6H_5F) at 193 nm	II-291
Lu, Y.-J.（呂育儒）	Barrierless Reactions between Two Closed-Shell Molecules: Dynamics of F_2+CH_3SCH_3 Reaction	II-292

21A2 U9 - (White Light) Photochemistry

Chen, Y.-J.（陳裕榮）	VUV Photolysis of CO Ices - A Detailed Study Employing Different Light Sources	II-293
Wu, C. Y. R.（吳中榮）	Photolysis of Cosmic Ice Analogs in the VUV Region	II-294
Wu, Y.-J.（吳宇中）	Infrared Absorption Spectra of Vinyl Radical Isolated in Solid Ne	II-295

21B1 U9 - (CGM) Angle-Resolved UPS

Chang, W.-K.（張文凱）	2D Electronic Structures of Atomically Uniform Thin Film	II-296
Cheng, C.-M.（鄭澄懋）	The Angle-Resolved Photoemission Study for One-Dimensional Chain Cuprate $LiCu_2O_2$	II-297
Luh, D.-A.（陸大安）	Transition from Disorder to Order in Thin Metallic Films Studied with Angle-Resolved Photoelectron Spectroscopy	II-298
Ou, H.-W.（歐宏煒）	Angle-Resolved Photoemission Spectroscopy Study of Misfit Cobaltate $Bi_2Ba_{1.3}K_{0.6}Co_{2.13}O_y$	II-299
Ting, L.-C.（丁立中）	Rubidium Tungsten Bronze - Studied by Photoemission and X-ray Absorption	II-300

First Author	Title	Page
21B2 U9 - Gas Phase		
Chen, Y.-J.（陳俞融）	Photolysis of Naphthalene and Water Mixed Ice by EUV Photons	II-301
Lee, Y.-Y.（李英裕）	Autoionizing Rydberg Series (*np′, nf′*) of Ar Investigated by Stepwise Excitations with Lasers and Synchrotron Radiation	II-302
Luo, J.-Y.（羅仁佑）	The High Resolution Ionization Spectra of Ca near 3D Threshold under High DC Electric Field	II-303
Nee, J.-B.（倪簡白）	Excited State of N_2 in 40-80 nm Observed by Absorption and Fluorescence Excitation	II-304
Pan, W.-C.（潘婉君）	Photoionization Spectra of Atomic Sulfur from Photodissociation of Cyclic Sulfides at 193 nm Detected with Photoionization Mass Spectroscopy	II-305
Quinto-Hernandez, A.	Dissociative Photoionization of ClN_3 Using High-Resolution Synchrotron Radiation: The N–Cl Bond Energy in ClN_3	II-306
24A1 BM - (WR-SGM) XPS, UPS		
Buckley, A. N.	Modified Surface Layers of Reactive Materials	II-307
Chang, C.-H.（張仲翔）	NEXAFS Study of Orientational Ordering Effected by Rubbing in Pentacene/ Octadecyltrichlorosilane Thin Films	II-308
Chen, C.-T.（陳震東）	Thin PTCDA Films on Cu(111)	II-309
Gates, W. P.	Iron and Aluminium Site Occupancies in Hydrous 2:1 Layer Silicates: I. Iron	II-310
Gates, W. P.	Iron and Aluminium Site Occupancies in Hydrous 2:1 Layer Silicates: II. Aluminium	II-311
Hocking, R. K.	The Role of Surface and Bulk Structure of Iron Sulfides and Oxy-Hydroxides on the Chemistry of Acid Sulfate Soil Environments	II-312
Hu, W.-S.（扈衛山）	Azimuthal-Scan NEXAFS Study of the Oriented Growth of Crystalline Pentacene Films on Rubbed Crystalline Polymethylene	II-313
Hwang, B.-J.（黃炳照）	Size Effect on Pt D-Band Center	II-314
Lai, Y.-F.（賴易鋒）	Electronic Structure Determination for Composite Materials in Dye-Sensitized Solar Cells by Photoelectron Spectroscopy	II-315
Lin, J.-S.（林建勳）	Reactions of ICH_2COOH on Cu(100)	II-316
Liu, Y.-L.（劉昱麟）	Oxidation and Modification of NiAl(100)	II-317
Muir, B	A Study into the Effect of Plasma Processing Parameters and Post Deposition Treatments on Low Fouling Plasma Polymer Films	II-318
Wen, C.-R.（溫清榕）	Photon-Induced Reaction Study of SF_6 Adsorbed on Si(111)-7x7 Using Monochromatic Synchrotron Radiation	II-319
Yong, S. L.	XPS Investigation of Geopolymer Binder Structure	II-320
Cheng, C.-P.（鄭秋平）	Formation of SiC Films via C_{60} Molecules as a Precursor	II-89
Chung, Y.-L.（鍾瑜玲）	Fluorescence Enhancement for Alkaloids by Anions: Spectroscopic and Electrochemical Characterizations	II-281

First Author	Title	Page

SP12B1 BM - Materials X-ray Study

Chen, S.-Y.（陳松裕）	Feasibility Study of Wide-Angle Incidence X-ray Waveguides Prepared by Micro-/Nano-Technology	II-321
Du, C.-H.（杜昭宏）	Study of the Spin/Charge/Orbital Ordering of Transition-Metal Oxides Using X-ray Scattering and Multiple X-ray Diffraction	II-322
Du, C.-H.（杜昭宏）	Study of the Modulated Structures of Transition-Metal Oxides Using X-ray Scattering	II-323
Hwang, B.-J.（黃炳照）	Formation of Bimetallic Au-Ag Nanoclusters via the Ethyl Glycol Method	II-324
Lin, C.-M.（林志明）	The Physical Properties of Lu_2O_3 under High-Pressure by X-ray Diffraction and Absorption Method	II-325
Lin, C.-M.（林志明）	The Physical Properties of Lu_2O_3 under High-Pressure by X-ray Diffraction Method	II-61
Huang, T.-W.（黃子文）	Charge Density Waves Orderings in $LiCu_2O_2$ Single Crystal Studied by X-ray Scattering	II-187

SP12B2 BM - Protein X-ray Crystallography

Chin, K.-H.（秦可欣）	The Crystal Structure of XC1258 from *Xanthomonas campestris*: A Putative Nit Protein with an Arsenic Adduct in the Active Site	II-326
Chuang, Y.-C.（莊裕鈞）	Oblique Incidence Correction and Instrument Error Adjustment	II-327
Guo, R.-T.（郭瑞庭）	Bisphosphonates Target Multiple Sites in Both *Cis*- and *Trans*-prenyltransferases	II-328
Li, Y.-C.（李宜靜）	X-ray Crystallographic Studies of Prostacyclin Synthase	II-329
Chang, Y.-W.（張毅偉）	Structural Studies of DnaD Protein N-Terminal Domain from *Geobacillus kaustophilus HTA426* by X-ray Crystallography	II-120
Hsieh, T.-J.（謝東儒）	Structural Analysis of the C-Terminal Domain of Bacterial DNA Gyrase	II-122
Wang, W.-C.（王雯靜）	X-ray Crystallographic Study of *Helicobacter pylori* Aminodeoxychorismate Lyase and Shikimate Kinase (HpSK) Inhibitors	II-130
Wu, S.-Y.（伍素瑩）	Structure-Based Drug Design	II-133
Tung, J.-Y.（董容羽）	Crystal Structures of Liand Bound Starch Binding Domain of *Rhizopus Oryzae* Glucoamylase	II-137

SP12U1 U3.2 - Inelastic X-ray Scattering

Cai, Y.-Q.（蔡永強）	X-Ray Raman Scattering of Water near the Supercritical Point	II-330
Cai, Y.-Q.（蔡永強）	High-Resolution Non-Resonant Inelastic X-ray Scattering Studies of D-D Excitations in NiO	II-331
Chen, S.-Y.（陳松裕）	Competition between Cavity Response and Beam Focusing in Curved X-ray Cavity	II-332
Du, C.-H.（杜昭宏）	Study of the Dynamic and Static Electronic and Magnetic Structures in $NiS_{2-x}Se_x$ Using Inelastic and Elastic X-ray Scattering	II-333
Fujino, K.	Spin Transition of Ferric Iron in Mg-Perovskite by X-ray Emission	II-334

First Author	Title	Page
	Spectroscopy	
Fujiwara, H.	Momentum Dependence of the Charge Excitation for Pb-Doped Bi2212 Proved by Resonant Inelastic X-ray Scattering	II-335
Hiraoka, N.（平崗望）	Non-Resonant Inelastic X-ray Scattering Study of MnO	II-336
Lin, J.-F.	Electronic Structure of Hot Dense Water by Inelastic X-ray Raman Scattering	II-337
Xie, B.-P.（謝斌平）	Inelastic X-ray Scattering of Molecules in Gas Phase	II-338