

NSRRC SCI Journal Publications 成果發表 - 期刊論文分類 (2010)

	Beamline Name	Open Since	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
BLs in Taiwan	01A1 SWLS-White X-ray (PRT 75%)	2005/05					1	1	2	3	5	3	6	21
	01B1 SWLS-X-ray Microscopy (PRT 75%)	2006/01							2	2	6	1	5	16
	01C1 SWLS-EXAFS	2004/09						2	3	5	5	7	4	26
	01C2 SWLS-X-ray Powder Diffraction	2004/09						2	9	15	16	24	25	91
	03A1 BM-(HF-CGM) Gas Phase/Photoluminescence	2003/05			4	1	3	5	5	10	10	10	8	56
	04B1 BM-(Seya) SRCD	1994/01	5	10	2	2	6	5	2	2		2	3	39
	05B1 EPU-Spin-polarized PES	2001/09			5	1	2	2	1		1			12
	05B2 EPU-PEEM	2003/05				2	3	5	2	1	2	1	2	18
	05B3 EPU-Soft X-ray Scattering	2005/05							2	1	1	3	2	9
	08A1 BM-(L-SGM) XPS, UPS	1994/01	6	3	3	5	4	5	8	7	6	6	5	58
	09A1 U5-SPEM	2001/09		2	2	4	3	5	11	8	3	9	1	48
	09A2 U5-Spectroscopy	2001/01		1	5	2	5	3	1	2	3	3		25
	11A1 BM-(Dragon) MCD, XAS (PRT 75%)	2000/05		1	7	9	13	14	14	8	8	12	9	95
	13A1 SW6-X-ray Scattering	2008/01									2	4	6	12
	13B1 SW6-Protein Crystallography	2005/09						1	10	8	24	40	44	127
	13C1 SW6-Protein Crystallography	2006/01									1	1	1	3
	14A1 BM-IR Microscopy	2005/05										1	5	6
	16A1 BM-Tender X-ray Absorption, Diffraction	1996/01	7	4	1	5	8	4	8	1	6	5	6	55
	17A1 W20-X-ray Powder Diffraction	2000/09		5	11	21	26	27	28	24	20	25	16	203
	17B1 W20-X-ray Scattering	1997/05	8	14	11	7	9	20	19	18	9	18	14	147
	17B2 W20-Protein X-ray Crystallography	2001/09			2	3	17	9	5	3	2			41
	17B3 W20-Small Angle X-ray Scattering	2006/01						6	6	17	9	20		58
	17C1 W20-EXAFS	1999/01	6	27	12	30	33	40	42	37	24	43	35	329
	18B1 BM-LIGA	1998/05	1	2	2	1	5	5	2	6	3		2	29
	19A1 BM-X-ray Lithography	1998/09			2		1			1				4
	19B1 Photon Stimulated Desorption	2004/09		2										2
	20A1 BM-(H-SGM) XAS	1994/01	17	25	10	21	17	24	14	22	14	15	13	192
	20B1 BM-X-ray Instrumentation (PRT 75%)	1998/05	1	2	1		1	1						6
	21A1 U9-(White Light) Chemical Dynamics (PRT 75%)	2003/05			2	2	6	3	10	7	8	3	2	43
	21A2 U9-(White Light) Photochemistry	2007/05									2	3	2	7
	21B1 U9-(CGM) Angle-resolved UPS	2003/05					1			2	6	1	5	15
	21B2 U9-Gas Phase	2004/09	2					1		1	2	1	2	9
	23A1 IASW-Small/Wide Angle X-ray Scattering	2009/05											11	11
	24A1 BM-(WR-SGM) XPS, UPS	2000/05		3	4	7	6	5	12	7	10	11	12	77
BLs in SP-8	SP12B1 BM-Materials X-ray Study	2001/09			2	2	2	6	5	7	3	4	5	36
	SP12B2 BM-Protein X-ray Crystallography	2003/05			1	14	3	18	19	7	2	4	10	78
	SP12UI U3.2-Inelastic X-ray Scattering	2003/09						5	6	6	7	4	15	43
Subtotal			53	101	89	139	175	224	248	238	220	284	276	2047
NSRRC Participated Research			6	14	11	6	17	13	19	12	36	42	30	206
Facility & Accelerator Related Research			10	11	13	6	6	5	7	11	2	5	6	82
Total			69	126	113	151	198	242	274	261	258	331	312	2335

(Source: NSRRC Library, March 15, 2011)

Notes:

- (1). Publications not associated with specific beamlines are grouped into "NSRRC Participated Research" and "Facility & Accelerator Related Research".
- (2). Proceedings are not included in the table.
- (3). BL : Beamline
- (4). SCI : Science Citation Index

國家同步輻射研究中心提供其設施及實驗技術指導，給予國內外大學、工業界研究部門之用戶進行先進科學研究。上列為截至 2011 年 3 月 15 日止蒐集於本中心圖書室論文出版之統計資料。使用本中心光源進行實驗的論文，發表於 2010 年的 SCI 期刊論文共有 276 篇。因篇幅限制，第 11 頁至 12 頁僅彙整個別領域前 10% 的論文 (生命科學領域，I.F. > 6；自然科學領域，I.F. > 4.5)，依 I.F. 由高至低排序。

註：I.F. 為影響係數 (Impact Factor) 之縮寫。

生命科學領域之 SCI 論文

(SCI Publications of Biological Science)

前 10 % 的論文 (I.F. > 6)

1. T. Satoh, Y. Chen, D. Hu, S. Hanashima, K. Yamamoto, and Y. Yamaguchi, "Structural Basis for Oligosaccharide Recognition of Misfolded Glycoproteins by OS-9 in ER-associated Degradation", <i>Mol. Cell</i> 40 , 905 (2010).
2. M. Hernandez-Valladares, T. Kim, B. Kannan, A. Tung, A. H. Aguda, M. Larsson, J. A. Cooper, and R. C. Robinson, "Structural Characterization of a Capping Protein Interaction Motif Defines a Family of Actin Filament Regulators", <i>Nat. Struct. Mol. Biol.</i> 17 , 497 (2010).
3. H.-J. Wu, C.-W. Ho, T.-P. Ko, S. D. Popat, C.-H. Lin, and A. H.-J. Wang, "Structural Basis of α -fucosidase Inhibition by Iminocyclitols with Ki Values in the Micro- to Picomolar Range", <i>Angew. Chem. Int. Edit.</i> 49 , 337 (2010).
4. Y.-M. Chang, W.-Y. Jeng, T.-P. Ko, Y.-J. Yeh, C. K.-M. Chen, and A. H.-J. Wang, "Structural Study of TcaR and Its Complexes with Multiple Antibiotics from <i>Staphylococcus Epidermidis</i> ", <i>P. Natl. Acad. Sci. USA</i> 107 , 8617 (2010).
5. T.-H. Chang, F.-L. Hsieh, T.-P. Ko, K.-H. Teng, P.-H. Liang, and A. H.-J. Wang, "Structure of a Heterotetrameric Geranyl Pyrophosphate Synthase from Mint (<i>Mentha Piperita</i>) Reveals Intersubunit Regulation", <i>Plant Cell</i> 22 , 454 (2010).
6. N. BabuRajendran, P. Palasingam, K. Narasimhan, W. Sun, S. Prabhakar, R. Jauch, and P. R. Kolatkar, "Structure of Smad1 MH1/DNA Complex Reveals Distinctive Rearrangements of BMP and TGF- β Effectors", <i>Nucleic Acids Res.</i> 38 , 3477 (2010).
7. H.-M. Chu, T.-P. Ko, and A. H.-J. Wang, "Crystal Structure and Substrate Specificity of Plant Adenylate Isopentenyltransferase from <i>Humulus Lupulus</i> : Distinctive Binding Affinity for Purine and Pyrimidine Nucleotides", <i>Nucleic Acids Res.</i> 38 , 1738 (2010).
8. T.-J. Hsieh, T.-J. Yen, T.-S. Lin, H.-T. Chang, S.-Y. Huang, C.-H. Hsu, L. Farh, and N.-L. Chan, "Twisting of the DNA-binding Surface by a β -strand-bearing Proline Modulates DNA Gyrase Activity", <i>Nucleic Acids Res.</i> 38 , 4173 (2010).
9. W. W. L. Lam, E. J. Woo, M. Kotaka, W. K. Tam, Y. C. Leung, T. K. W. Ling, and S. W. N. Au, "Molecular Interaction of Flagellar Export Chaperone FliS and Cochaperone HP1076 in <i>Helicobacter Pylori</i> ", <i>FASEB J.</i> 24 , 4020 (2010).

自然科學領域之 SCI 論文

(SCI Publications of Physical Science)

前 10 % 的論文 (I.F. > 4.5)

1. P. C. Jhang, N. T. Chuang, and S. L. Wang, "Layered Zinc Phosphates with Photoluminescence and Photochromism: Chemistry in Deep Eutectic Solvents", <i>Angew. Chem. Int. Edit.</i> 49 , 4200 (2010).
2. C.-S. Lee, C.-H. Lin, S.-L. Wang, and K.-H. Lii, "[Na ₇ U ^{IV} O ₂ (U ^{VO}) ₂ (U ^{VVI} O ₂) ₂ Si ₄ O ₁₆]: A Mixed-valence Uranium Silicate", <i>Angew. Chem. Int. Edit.</i> 49 , 4254 (2010).
3. I. Grigoraviciute, M. Karppinen, T. S. Chan, R. S. Liu, J. M. Chen, O. Chmaissem, and H. Yamauchi, "Electronic Structures, Hole-doping, and Superconductivity of the s=1, 2, 3, and 4 Members of the (Cu,Mo)-12s2 Homologous Series of Superconductive Copper Oxides", <i>J. Am. Chem. Soc.</i> 132 , 838 (2010).
4. K. Oka, M. Azuma, W.-T. Chen, H. Yusa, A. A. Belik, E. Takayama-Muromachi, M. Mizumaki, N. Ishimatsu, N. Hiraoka, M. Tsujimoto, M. G. Tucker, J. P. Attfield, and Y. Shimakawa, "Pressure-induced Spin-state Transition in BiCoO ₃ ", <i>J. Am. Chem. Soc.</i> 132 , 9438 (2010).
5. Y.-C. Chen, D.-C. Lee, T.-Y. Tsai, C.-Y. Hsiao, J.-W. Liu, C.-Y. Kao, H.-K. Lin, H.-C. Chen, T. J. Palathinkal, W.-F. Pong, N.-H. Tai, I.-N. Lin, and I.-M. Chiu, "Induction and Regulation of Differentiation in Neural Stem Cells on Ultrananocrystalline Diamond Films", <i>Biomaterials</i> 31 , 5575 (2010).
6. S.-F. Peng, C.-J. Su, M.-C. Wei, C.-Y. Chen, Z.-X. Liao, P.-W. Lee, H.-L. Chen, and H.-W. Sung, "Effects of the Nanostructure of Dendrimer/DNA Complexes on Their Endocytosis and Gene Expression", <i>Biomaterials</i> 31 , 5660 (2010).
7. Y. J. Wu, M. Y. Lin, S. L. Chou, H. F. Chen, H. C. Lu, H. K. Chen, and B. M. Cheng, "Photolysis of Ethyne in Solid Neon and Synthesis of Long-chain Carbon Clusters with Vacuum-ultraviolet Light", <i>Astrophys. J.</i> 721 , 856 (2010).
8. Y.-L. Chan, Y.-J. Hung, C.-H. Wang, Y.-C. Lin, C.-Y. Chiu, Y.-L. Lai, H.-T. Chang, C.-H. Lee, Y. J. Hsu, and D. H. Wei, "Magnetic Response of an Ultrathin Cobalt Film in Contact with an Organic Pentacene Layer", <i>Phys. Rev. Lett.</i> 104 , 177204 (2010).
9. H. K. Mao, E. L. Shirley, Y. Ding, P. Eng, Y. Q. Cai, P. Chow, Y. Xiao, J. Shu, R. J. Hemley, C. Kao, and W. L. Mao, "Electronic Structure of Crystalline ⁴ He at High Pressures", <i>Phys. Rev. Lett.</i> 105 , 186404 (2010).

10. W. W. Pai, H. T. Jeng, C.-M. Cheng, C.-H. Lin, X. Xiao, A. Zhao, X. Zhang, G. Xu, X. Q. Shi, M. A. V. Hove, C.-S. Hsue, and K.-D. Tsuei, "Optimal Electron Doping of a C_{60} Monolayer on Cu(111) via Interface Reconstruction", *Phys. Rev. Lett.* **104**, 036103 (2010).
11. S. Y. Lin, F. S. Lin, M. K. Chen, L. R. Tsai, Y. C. Jao, H. Y. Lin, C. L. Wang, Y. K. Hwu, and C. S. Yang, "One-pot Synthesis of Linear-like and Photoluminescent Polyethylenimines for Intracellular Imaging and siRNA Delivery", *Chem. Commun.* **46**, 5554 (2010).
12. S.-H. Chang, W.-N. Su, M.-H. Yeh, C.-J. Pan, K.-L. Yu, D.-G. Liu, J.-F. Lee, and B.-J. Hwang, "Structural and Electronic Effects of Carbon-supported Pt_xPd_{1-x} Nanoparticles on the Electrocatalytic Activity of Oxygen-reduction Reaction and on Methanol Tolerance", *Chem.-Eur. J.* **16**, 11064 (2010).
13. F. H. Lai, W. N. Su, L. S. Sarma, D. G. Liu, C. A. Hsieh, J. F. Lee, and B. J. Hwang, "Chemical Dealloying Mechanism of Bimetallic Pt-Co Nanoparticles and Enhancement of Catalytic Activity Toward Oxygen Reduction", *Chem.-Eur. J.* **16**, 4602 (2010).
14. B.-C. Tzeng, T.-Y. Chang, and H.-S. Sheu, "Reversible Phase Transformation and Luminescent Mechanochromism of Zn^{II} -based Coordination Frameworks Containing a Dipyridylamide Ligand", *Chem.-Eur. J.* **16**, 9990 (2010).
15. C. H. Huang, D. Gu, D. Zhao, and R. A. Doong, "Direct Synthesis of Controllable Microstructures of Thermally Stable and Ordered Mesoporous Crystalline Titanium Oxides and Carbide/Carbon Composites", *Chem. Mater.* **22**, 1760 (2010).
16. L. Karvonen, M. Valkeapaa, R.-S. Liu, J.-M. Chen, H. Yamauchi, and M. Karppinen, "O-K and Co-L XANES Study on Oxygen Intercalation in Perovskite $SrCoO_{3-\delta}$ ", *Chem. Mater.* **22**, 70 (2010).
17. R. A. Ricciardo, H. L. Cuthbert, P. M. Woodward, Q. Zhou, B. J. Kennedy, Z. Zhang, M. Avdeev, and L. Y. Jang, "Structure and Properties of $Sr_{1-x}Ca_xMn_{0.5}Ru_{0.5}O_3$ Perovskites: Using Chemical Pressure to Control Mn/Ru Mixed Valency", *Chem. Mater.* **22**, 3369 (2010).
18. J. Ting, B. J. Kennedy, Z. Zhang, M. Avdeev, B. Johannessen, and L. Y. Jang, "Synthesis and Structural Studies of the Transition-metal-doped Rh Perovskites $LaMn_{0.5}Rh_{0.5}O_3$ and $LaCu_{0.5}Rh_{0.5}O_3$ ", *Chem. Mater.* **22**, 1640 (2010).
19. C. Wang, L. Basit, Y. Khalavka, Y. Guo, F. Casper, T. Gasi, V. Ksenofontov, B. Balke, G. H. Fecher, C. Sonnichsen, Y. K. Hwu, J. J. Lee, and C. Felser, "Probing the Size Effect of $Co_2FeGa-SiO_2@C$ Nanocomposite Particles Prepared by a Chemical Approach", *Chem. Mater.* **22**, 6575 (2010).
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21. E. D. Burton, S. G. Johnston, K. Watling, R. T. Bush, A. F. Keene, and L. A. Sullivan, "Arsenic Effects and Behavior in Association with the Fe(II)-catalyzed Transformation of Schwertmannite", *Environ. Sci. Technol.* **44**, 2016 (2010).
22. L. C. Hsu, S. L. Wang, Y. C. Lin, M. K. Wang, P. N. Chiang, J. C. Liu, W. H. Kuan, C. C. Chen, and Y. M. Tzou, "Cr(VI) Removal on Fungal Biomass of *Neurospora crassa*: the Importance of Dissolved Organic Carbons Derived from the Biomass to Cr(VI) Reduction", *Environ. Sci. Technol.* **44**, 6202 (2010).
23. C.-W. Chen, H.-Y. Chang, S.-L. Lee, I.-J. Hsu, J.-J. Lee, C.-H. Chen, and T.-Y. Luh, "Hexa-peri-hexabenzocoronene (HBC)-incorporated Single- and Double-stranded Polynorbornenes", *Macromolecules* **43**, 8741 (2010).
24. C.-Y. Chen, S.-H. Chan, J.-Y. Li, K.-H. Wu, H.-L. Chen, J.-H. Chen, W.-Y. Huang, and S.-A. Chen, "Formation and Thermally-induced Disruption of Nanowhiskers in Poly(3-hexylthiophene)/Xylene Gel Studied by Small-angle X-ray Scattering", *Macromolecules* **43**, 7305 (2010).
25. C.-Y. Chen, C.-S. Chang, S.-W. Huang, J.-H. Chen, H.-L. Chen, C.-I. Su, and S.-A. Chen, "Phase-separation-induced Gelation of Poly(9,9-dioctylfluorene)/Methylcyclohexane Solution", *Macromolecules* **43**, 4346 (2010).
26. S.-C. Chen, S.-W. Kuo, U. S. Jeng, C.-J. Su, and F.-C. Chang, "On Modulating the Phase Behavior of Block Copolymer/Homopolymer Blends via Hydrogen Bonding", *Macromolecules* **43**, 1083 (2010).
27. M.-Y. Chiu, U.-S. Jeng, M.-S. Su, and K.-H. Wei, "Morphologies of Self-organizing Regioregular Conjugated Polymer/Fullerene Aggregates in Thin Film Solar Cells", *Macromolecules* **43**, 428 (2010).
28. C.-Y. Chu, H.-L. Chen, M.-S. Hsiao, J.-H. Chen, and B. Nandan, "Crystallization in the Binary Blends of Crystalline-amorphous Diblock Copolymers Bearing Chemically Different Crystalline Block", *Macromolecules* **43**, 3376 (2010).
29. T.-M. Chung, T.-C. Wang, R.-M. Ho, Y.-S. Sun, and B.-T. Ko, "Polymeric Crystallization under Nanoscale 2D Spatial Confinement", *Macromolecules* **43**, 6237 (2010).
30. Y.-S. Sun, S.-W. Chien, and J.-Y. Liou, "Probing Relief Terraces in Destabilized Thin Films of an Asymmetric Block Copolymer with Grazing-incidence Small-angle X-ray Scattering", *Macromolecules* **43**, 7250 (2010).
31. Y.-S. Sun, S.-W. Chien, and P.-J. Wu, "Effects of Film Instability on Roughness Correlation and Nanodomain Ordering in Ultrathin Films of Asymmetric Block Copolymers", *Macromolecules* **43**, 5016 (2010).
32. L.-Y. Wang, H.-Y. Tsai, and H.-C. Lin, "Novel Supramolecular Side-chain Banana-shaped Liquid Crystalline Polymers Containing Covalent- and Hydrogen-bonded Bent Cores", *Macromolecules* **43**, 1277 (2010).