

List of Publications (2019)

Experiments Performed at NSRRC Beamlines

主導性之 SCI 論文

1. Z.-Z. Chen, L.-C. Wang, D. Manoharan, C.-L. Lee, L.-C. Wu(吳來錦), W.-T. Huang, E.-Y. Huang, C.-H. Su*(蘇家豪), H.-S. Sheu*(許火順), and C.-S. Yeh*(葉晨聖) , “Low Dose of X-ray-excited Long-lasting Luminescent Concave Nanocubes in Highly Passive Targeting Deep-seated Hepatic Tumors ”, *Adv. Mater.* **31** , 1905087 (2019) . (I.F.=25.809) ★
2. C.-Y. Lin, S.-S. Li, J.-W. Chang, H.-C. Chia, Y.-Y. Hsiao, C.-J. Su(蘇群仁), B.-J. Lian, C.-Y. Wen, S.-K. Huang, W.-R. Wu(吳璋儒), D.-Y. Wang, A.-C. Su, C.-W. Chen*(陳俊維), and U.-S. Jeng*(鄭有舜) , “Unveiling the Nanoparticle-seeded Catalytic Nucleation Kinetics of Perovskite Solar Cells by Time-resolved GIXS ”, *Adv. Funct. Mater.* **29** , 1902582 (2019) . (I.F.=15.621) ★
3. B. Thirumalraj, T. T. Hagos, C.-J. Huang, M. A. Teshager, J.-H. Cheng, W.-N. Su*(蘇威年), and B.-J. Hwang*(黃炳照) , “Nucleation and Growth Mechanism of Lithium Metal Electroplating ”, *J. Am. Chem. Soc.* **141** , 18612 (2019) . (I.F.=14.695) ★
4. J.-I. Lo*(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), and B.-M. Cheng*(鄭炳銘) , “Thermal Reaction and Luminescence of Long-lived N²D in N₂ Ice ”, *P. Natl. Acad. Sci. USA* **116** , 24420 (2019) . (I.F.=9.58) ★
5. X. Bu, C. L. Chiang, R. Wei, Z. Li, Y. Meng, C. K. Peng, Y. C. Lin, Y. Li, Y. G. Lin*(林彥谷), K. S. Chan, and J. C. Ho*(何頌賢) , “Two-dimensional Cobalt Phosphate Hydroxide Nanosheets: A New Type of High-performance Electrocatalysts with Intrinsic CoO₆ Lattice Distortion for Water Oxidation ”, *ACS Appl. Mater. Interfaces* **11** , 38633 (2019) . (I.F.=8.456) ★
6. T. T. Hagos, B. Thirumalraj, C.-J. Huang, L. H. Abrha, T. M. Hagos, G. B. Berhe, H. K. Bezabh, J. Cherng, S.-F. Chiu, W.-N. Su*(蘇威年), and B.-J. Hwang*(黃炳照) , “Locally Concentrated LiPF₆ in a Carbonate-based Electrolyte with Fluoroethylene Carbonate as a Diluent for Anode-free Lithium Metal Batteries ”, *ACS Appl. Mater. Interfaces* **11** , 9955 (2019) . (I.F.=8.456) ★
7. Y.-C. Lin, L.-C. Hsu, C.-Y. Lin, C.-L. Chiang, C.-M. Chou, W.-W. Wu, S.-Y. Chen*(陳三元), and Y.-G. Lin*(林彥谷) , “Sandwich-Nanostructured n-Cu₂O/AuAg/p-Cu₂O Photocathode with Highly Positive Onset Potential for Improved Water Reduction ”, *ACS Appl. Mater. Interfaces* **11** , 38625 (2019) . (I.F.=8.456) ★
8. S.-C. Huang, C.-C. Lin, C.-W. Hu, Y.-F. Liao*(廖彥發), T.-Y. Chen*(陳燦耀), and H.-Y. Chen*(陳翰儀) , “Vanadium-based Polyoxometalate as Electron/Ion Sponge for Lithium-ion Storage ”, *J. Power Sources* **435** , 226702 (2019) . (I.F.=7.467) ★
9. C.-F. J. Kuo*(郭中豐), M. A. Weret, H.-Y. Hung, M.-C. Tsai, C.-J. Huang, W.-N. Su*(蘇威年), B.-J. Hwang*(黃炳照) , “Sulfurized-poly(acrylonitrile) Wrapped Carbonesulfur Composite Cathode Material for High Performance Rechargeable Lithium-sulfur Batteries ”, *J. Power Sources* **412** , 670 (2019) . (I.F.=7.467) ★
10. C. Tsao, P.-T. Yu, C.-H. Lo, C.-K. Chang, C.-H. Wang*(王嘉興), Y.-W. Yang*(楊耀文), and J. C. C. Chan*(陳振中) , “Anhydrous Amorphous Calcium Carbonate (ACC) is Structurally Different from the Transient Phase of Biogenic ACC ”, *Chem. Commun.* **55** , 6946 (2019) . (I.F.=6.164) ★
11. M.-Y. Lin(林孟暉), T.-P. Huang(黃自平), P.-Z. Wu, C.-H. Chin(金之豪), and Y.-J. Wu*(吳宇中) , “Formation of Halogen-bearing Species. I. Irradiation of Methyl Fluorides in Carbon Monoxide Ice with VUV Light and Electrons ”, *Astrophys. J.* **880** , 132 (2019) . (I.F.=5.58) ★
12. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), and B.-M. Cheng*(鄭炳銘) , “Formation and Dissociation of N₃ in Icy N₂ with Far-ultraviolet Light ”, *Astrophys. J.* **877** , 27 (2019) . (I.F.=5.58) ★
13. K. Arumugam, H.-M. Chen, J.-H. Dai, M.-F. Gao, A. Goyal, M.-K. Lin, Y. Nakayama, T.-W. Pi(皮敦文), S. Metzd, T. A. Papadopoulos, H.-T. Jeng, and S.-J. Tang*(唐述中) , “Using Irradiation Effect to Study the Disparate Anchoring Stabilities of Polarorganic Molecules Adsorbed on Bulk and Thin-film Metal Surfaces ”, *Appl. Surf. Sci.* **493** , 1090 (2019) . (I.F.=5.155) ★
14. C.-J. Chang*(張棋榕), Y.-G. Lin*(林彥谷), P.-Y. Chao, and J.-K. Chen , “AgI-BiOI-graphene Composite

Photocatalysts with Enhanced Interfacial Charge Transfer and Photocatalytic H₂ Production Activity ”, Appl. Surf. Sci. **469**, 703 (2019) . (I.F.=5.155) ★

15. T.-T. Wang, P. Raghunathb, Y.-C. Lin, Y.-G. Lin*(林彥谷), and M.-C. Lin*(林明璋) , “Effective Hydrogenation of TiO₂ Photocatalysts With CH₃OH for Enhanced Water Splitting: A Computational and X-ray study ”, Appl. Surf. Sci. **488**, 546 (2019) . (I.F.=5.155) ★
16. T.-T. Huynh, M.-C. Tsai, C.-J. Pan, W.-N. Su*(蘇威年), T.-S. Chan(詹丁山), J.-F. Lee(李志甫), B.-J. Hwang*(黃炳照) , “Synergetic Electrocatalytic Activities Towards Hydrogen Peroxide: Understanding the Ordered Structure of PdNi Bimetallic Nanocatalysts ”, Electrochim. Commun. **101**, 93 (2019) . (I.F.=4.197) ★
17. S. C. Haw(何樹智), C. Y. Kuo*(郭昌洋), Z. Hu, J. W. Lin, J. M. Lee(李振民), K. T. Lu(盧桂子), C. H. Lee, H. J. Lin(林宏基), J. F. Lee(李志甫), C. W. Pao(包志文), A. Tanaka, L. H. Tjeng, C. T. Chen(陳建德), and J. M. Chen*(陳錦明) , “Single Antiferromagnetic Axis of Fe in Orthorhombic YMn_{0.5}Fe_{0.5}O₃ Films Observed by X-ray Magnetic Linear Dichroism ”, J. Alloy. Compd. **780**, 79 (2019) . (I.F.=4.175) ★
18. L. B. Young, C.-K. Cheng, K.-Y. Lin, Y.-H. Lin, H.-W. Wan, R.-F. Cai, S.-C. Lo, M.-Y. Li, C.-H. Hsu*(徐嘉鴻), J. Kwo*(郭瑞年), and M. Hong*(洪銘輝) , “Epitaxy of High-quality Single-crystal Hexagonal Perovskite YAlO₃ on GaAs(111)A Using Laminated Atomic Layer Deposition ”, Cryst. Growth Des. **19**, 2030 (2019) . (I.F.=4.153) ★
19. Y.-T. Cheng, H.-W. Wan, C.-P. Cheng*(鄭秋平), J. Kwo*(郭瑞年), M. Hong*(洪銘輝), and T.-W. Pi*(皮敦文) , “Microscopic Views of Atomic and Molecular Oxygen Bonding with epi Ge(001)-2×1 Studied by High-resolution Synchrotron Radiation Photoemission ”, Nanomaterials **9**, 554 (2019) . (I.F.=4.034) ★
20. B.-H. Lin*(林碧軒), X.-Y. Li, D.-J. Lin, B.-L. Jian, H.-C. Hsu, H.-Y. Chen, S.-C. Tseng, C.-Y. Lee, B.-Y. Chen, G.-C. Yin, M.-Y. Hsu, S.-H. Chang, M.-T. Tang, and W.-F. Hsieh*(謝文峰) , “Investigation of Cavity Enhanced XEOL of a Single ZnO Microrod by Using Multifunctional Hard X-ray Nanoprobe ”, Sci. Rep. **9**, 207 (2019) . (I.F.=4.011) ★
21. S.-C. Liao, S. C. Haw*(何樹智), C. Y. Kuo(郭昌洋), H. Guo, H. B. Vasili, S. M. Valvidares, A. Komarek, H. Ishii(石井啟文), S. A. Chen(陳興安), H. J. Lin(林宏基), A. Tanaka, T. S. Chan(詹丁山), L. H. Tjeng, C. T. Chen(陳建德), Z. Hu, and J. M. Chen*(陳錦明) , “Valence-state and Spin-state Transition of Co in LaCo_{0.5}Rh_{0.5}O₃”, Phys. Rev. B **99**, 075110 (2019) . (I.F.=3.736) ★
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23. B.-H. Lin*(林碧軒), Y.-H. Wu, T.-S. Wu, Y.-C. Wu, X.-Y. Li, W.-R. Liu*(劉維仁), M.-T. Tang, and W.-F. Hsieh , “Hard X-ray Nanoprobe and Time-resolved XEOL to Observe Increasing Luminescence of ZnO and GaN Epitaxial Structures ”, Appl. Phys. Lett. **115**, 171903 (2019) . (I.F.=3.521) ★
24. M.-T. Lee(李明道), W.-C. Hung, and H. W. Huang*(黃惠文) , “Rhombohedral Trap for Studying Molecular Oligomerization in Membranes: Application to Daptomycin ”, Soft Matter **15**, 4326 (2019) . (I.F.=3.399) ★
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26. W.-R. Liu*(劉維仁), C.-W. Pao(包志文), D. W. Yu, Y.-Y. Chin*(秦伊瑩), W.-B. Wu(吳文斌), H.-J. Lin(林宏基), S.-C. Haw(何樹智), C.-H. Chu(朱家宏), T.-Y. Chao, H.-C. Hsu, J.-M. Chen(陳錦明), C.-H. Hsu(徐嘉鴻), W.-F. Hsieh, and C.-T. Chen(陳建德) , “Defect Induced Ferromagnetic Ordering in Epitaxial Zn_{0.95}Mn_{0.05}O Films on Sapphire(0001) ”, J. Phys.-Condens. Mat. **31**, 485708 (2019) . (I.F.=2.711) ★
27. M.-Y. Lin(林孟暉), T.-P. Huang(黃自平), P.-Z. Wu, C.-H. Chin(金之豪), and Y.-J. Wu*(吳宇中) , “Infrared Spectra of the 1-Methylvinoxide Radical and Anion Isolated in Solid Argon ”, J. Phys. Chem. A **123**, 4750 (2019) . (I.F.=2.641) ★
28. P.-I. Tsai, T.-N. Lam, M.-H. Wu, K.-Y. Tseng, Y.-W. Chang, J.-S. Sun, Y.-Y. Li, M.-H. Lee, S.-Y. Chen, C.-K. Chang(張仲凱), C.-J. Su(蘇群仁), C.-H. Lin(林碧軒), C.-Y. Chiang(蔣慶有), C.-S. Ku(古慶順), N.-T. Tsou, S.-J. Shih, C.-C. Wang*(王俊杰), and E. W. Huang*(黃爾文) , “Multi-scale Mapping for Collagen-regulated Mineralization in Bone Remodeling of Additive Manufacturing Porous Implants ”, Macromol. Chem. Phys. **230**, 83 (2019) . (I.F.=2.622) ★
29. S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), and B.-M. Cheng*(鄭炳銘) , “Electronic

and Vibrational Absorption Spectra of NH₂ in Solid Ne ”, ACS Omega **4**, 2268 (2019) . (I.F.=2.584) ★

30. Y.-W. Tsai(蔡一葦), Y.-Y. Chang(張櫻議), J.-J. Lee(李之釗), W.-C. Liu, Y.-H. Wu, W.-R. Liu(劉維仁), H.-Y. Liu, K.-Y. Lee, S.-C. Weng(翁世璋), H.-S. Sheu(許火順), M.-S. Chiu(邱茂森), Y.-Y. Lee(李英裕), C.-H. Hsu(徐嘉鴻), and S.-L. Chang*(張石麟), “Time-resolved X-ray Reflection Phases of the Nearly Forbidden Si(222) Reflection Under Laser Excitation ”, J. Synchrotron Radiat. **26**, 819 (2019) . (I.F.=2.452) ★
31. A. W. Kahsay, K. B. Ibrahim, M.-C. Tsai, M. K. Birhanu, S. A. Chala, W.-N. Su*(蘇威年), and B.-J. Hwang*(黃炳照) , “Selective and Low Overpotential Electrochemical CO₂ Reduction to Formate on CuS Decorated CuO Heterostructure ”, Catal. Lett. **149**, 860 (2019) . (I.F.=2.372) ★
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33. Y.-J. Chiang, W.-C. Huang, C.-K. Ni, C.-L. Liu*(劉振霖), C.-C. Tsai, and W.-P. Hu*(胡維平) , “NEXAFS Spectra and Specific Dissociation of Oligo-peptide Model Molecules ”, AIP Advances **9**, 085023 (2019) . (I.F.=1.579) ★
34. S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), Y.-C. Peng(彭鈺謙), H.-C. Lu, B.-M. Cheng*(鄭炳銘), and J. F. Ogilvie* , “Emission Spectra of Atomic and Molecular Nitrogen from Photolysis of Ammonia in Solid Neon ”, AIP Advances **9**, 055311 (2019) . (I.F.=1.579) ★
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36. C.-C. Wang*(王志杰), S.-Y. Ke, Y.-F. Hsieh, S.-T. Huang, T.-H. Wang, G.-H. Lee, and Y.-C. Chuang*(莊裕鈞) , “Water De/Adsorption Associated with Single-crystal-to-single-crystal Structural Transformation of a Series of Two-dimensional Metal-organic Frameworks, [M(bipy)(C₄O₄)(H₂O)₂] · 3H₂O (M=Mn(1), Fe(2), and Zn(3), and bipy=4,4'-bipyridine) ”, J. Chin. Chem. Soc.-Taip. **66**, 1031 (2019) . (I.F.=1.188) ★
37. P.-J. Wu*(吳品鈞), Y. P. Stetsko, and M.-T. Hsieh , “Dependence of Tetrahedral Bond Lengths on the Surface Passivation and Stacking-fault Density of CdSe Nanocrystals ”, J. Nano Res. **57**, 58 (2019) . (I.F.=0.589) ★

合作性之 SCI 論文

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2. G. Chen, Y. Zhu, H. M. Chen, Z. Hu, S.-F. Hung, N. Ma, J. Dai, H.-J. Lin(林宏基), C.-T. Chen(陳建德), W. Zhou*(周嵬), and Z. Shao*(邵宗平) , “An Amorphous Nickel-iron-based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction ”, Adv. Mater. **31**, 1900883 (2019) . (I.F.=25.809) ★
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4. S. Liu, Z. Liu, X. Shen, X. Wang, S. C. Liao, R. Yu, Z. Wang*(王兆翔), Z. Hu, C. T. Chen(陳建德), X. Yu, X. Yang, L. Chen , “Li-Ti Cation Mixing Enhanced Structural and Performance Stability of Li-Rich Layered Oxide ”, Adv. Energy Mater. **9**, 1901530 (2019) . (I.F.=24.884) ★
5. C.-W. Tung, T.-R. Kuo*(郭聰榮), C.-S. Hsu, Y. Chuang, H.-C. Chen, C.-K. Chang(張仲凱), C.-Y. Chien, Y.-J. Lu(盧英睿), T.-S. Chan(詹丁山), J.-F. Lee(李志甫), J.-Y. Li, and H. M. Chen*(陳浩銘) , “Light-induced Activation of Adaptive Junction for Efficient Solar-driven Oxygen Evolution: In Situ Unraveling the Interfacial Metal-Silicon Junction ”, Adv. Energy Mater. **9**, 1901308 (2019) . (I.F.=24.884) ★
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7. S. Zhou, Y. Ma, G. Zhou, X. Xu, M. Qin, Y. Li, Y.-J. Hsu(許瑤真), H. Hu, G. Li, N. Zhao, J. Xu, and X. Lu*(路新慧) , “Ag-doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport ”, ACS

8. L. Chen*, P. Cheng, Z. Zhang, L. He, Y. Jiang, G. Li*, X. Jing, Y. Qin, M. Yin, T.-S. Chan(詹丁山), B. Hong, S. Tao, W. Chu, Z. Zhao, H. Ni, H. Kohlmann, and O. Oeckler*, “Reduced Local Symmetry in Lithium Compound $\text{Li}_2\text{SrSiO}_4$ Distinguished by an Eu^{3+} Spectroscopy Probe”, Adv. Sci. **6**, 1802126 (2019) . (I.F.=15.804) ☆
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10. C. Liao, B. Yang, N. Zhang*(張寧), M. Liu, G. Chen, X. Jiang, G. Chen, J. Yang, X. Liu*(劉小鶴), T.-S. Chan(詹丁山), Y.-J. Lu(盧英睿), R. Ma*(馬仁志), and W. Zhou , “Constructing Conductive Interfaces Between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction ”, Adv. Funct. Mater. **29**, 1904020 (2019) . (I.F.=15.621) ☆
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15. H. Wang, X. Xiao, S. Liu, C. L. Chiang, X. Kuai, C. K. Peng, Y. C. Lin, X. Meng, J. Zhao, J. Choi*, Y. G. Lin(林彥谷), J. M. Lee*, and L. Gao*(高立軍) , “Structural and Electronic Optimization of MoS_2 Edges for Hydrogen Evolution ”, J. Am. Chem. Soc. **141** , 18578 (2019) . (I.F.=14.695) ☆
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備註: 1. TLS 為 Taiwan Light Source 的縮寫，指國家同步輻射研究中心現有光源。

2. I.F. (Impact Factor) 以 2018 JCR (Journal Citation Reports) 為資料依據。

3. “★”表中心主導性論文(主導性論文指該論文中心同仁為第一作者或通訊作者);

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4. 資料更新日期: 2020/3/20