

List of Publications (2020)

Experiments Performed at NSRRC Beamlines

主導性之 SCI 論文

1. T. Billo, I. Shown*, A. K. Anbalagan, T. A. Effendi, A. Sabbah, F.-Y. Fu, C.-M. Chu, W.-Y. Woon, R.-S. Chen, C.-H. Lee*(李志浩), K.-H. Chen*(陳貴賢), and L.-C. Chen*(林麗瓊) , “A Mechanistic Study of Molecular CO₂ Interaction and Adsorption on Carbon Implanted SnS₂ Thin Film for Photocatalytic CO₂ Reduction Activity ”, Nano Energy **72** , 104717 (2020) . (I.F.=16.602) ★
2. M. A. Weret, C.-F. J. Kuo*(郭中豐), T. S. Zeleke, T. T. Beyene, M.-C. Tsai, C.-J. Huang, G. B. Berhe, W.-N. Su*(蘇威年), and B.-J. Hwang*(黃炳照) , “Mechanistic Understanding of the Sulfurized-poly(acrylonitrile) Cathode for Lithium-sulfur Batteries ”, Energy Storage Mater. **26** , 483 (2020) . (I.F.=16.28) ★
3. Z. Liu, Y. Sakai, J. Yang, W. Li, Y. Liu, X. Ye, S. Qin, J. M. Chen*(陳錦明), S. Agrestini, K. Chen, S.-C. Liao, S.-C. Haw(何樹智), F. Baudelet, H. Ishii(石井啟文), T. Nishikubo, H. Ishizaki, T. Yamamoto, Z. Pan, M. Fukuda, K. Ohashi, K. Matsuno, A. Machida, T. Watanuki, S. I. Kawaguchi, A. M. Arevalo-Lopez, C. Jin, Z. Hu, J. P. Attfield, M. Azuma*, and Y. Long*(龍有文) , “Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO₃ ”, J. Am. Chem. Soc. **142** , 5731 (2020) . (I.F.=14.612) ★
4. P. An, L. Wei, H. Li, B. Yang, K. Liu, J. Fu, H. Li, H. Liu, J. Hu, Y.-R. Lu(盧英睿), H. Pan, T.-S. Chan*(詹丁山), N. Zhang*(張寧), and M. Liu*(劉敏) , “Enhancing CO₂ Reduction by Suppressing Hydrogen Evolution with Polytetrafluoroethylene Protected Copper Nanoneedles ”, J. Mater. Chem. A **8** , 15936 (2020) . (I.F.=11.301) ★
5. G. B. Berhe, W.-N. Su*(蘇威年), L. H. Abrha, H. K. Bezabh, T. M. Hagos, T. T. Hagos, C.-J. Huang, N. A. Sahalie, B. A. Jote, B. Thirumalraj, D. Kurniawan, C.-H. Wang(王嘉興), and B. J. Hwang*(黃炳照) , “Garnet-PVDF Composite Film Modified Lithium Manganese Oxide Cathode and Sulfurized Carbon Anode from Polyacrylonitrile for Lithium-ion Batteries ”, J. Mater. Chem. A **8** , 14043 (2020) . (I.F.=11.301) ★
6. Y. Nikodimos, L. H. Abrha, H. H. Weldeyohannes, K. N. Shitaw, N. T. Temesgen, B. W. Olbasa, C.-J. Huang, S.-K. Jiang, C.-H. Wang, H.-S. Sheu(許火順), S.-H. Wu*(吳溪煌), W.-N. Su*(蘇威年), C.-C. Yang*(楊純誠), and B. J. Hwang*(黃炳照) , “A New High-Li⁺-conductivity Mg-doped Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solid Electrolyte with Enhanced Electrochemical Performance for Solid-state Lithium Metal Batteries ”, J. Mater. Chem. A **8** , 26055 (2020) . (I.F.=11.301) ★
7. W.-C. Wang, S.-Y. Chen, Y.-W. Yang*(楊耀文), C.-S. Hsu*(許千樹), and K. Tajima* , “Face-on Reorientation of π-conjugated Polymers in Thin Films by Surface-segregated Monolayers ”, J. Mater. Chem. A **8** , 6268 (2020) . (I.F.=11.301) ★
8. C. Yan, C.-H. Wang*(王嘉興), M. Lin, D. Bhalothia, S.-S. Yang, G.-J. Fan, J.-L. Wang, T.-S. Chan, Y.-L. Wang, X. Tu, S. Dai, K.-W. Wang, J.-H. He, and T.-Y. Chen*(陳燦耀) , “Local Synergetic Collaboration Between Pd and Local Tetrahedral Symmetric Ni Oxide Enables Ultra-high-performance CO₂ Thermal Methanation ”, J. Mater. Chem. A **8** , 12744 (2020) . (I.F.=11.301) ★
9. C.-I. Lu, C.-H. Huang, K.-H. Ou Yang, K. B. Simbulan, K.-S. Li, F. Li, J. Qi, M. Jugovac, I. Cojocariu, V. Feyer, C. Tusche, M.-T. Lin, T.-H. Chuang, Y.-W. Lan*(藍彥文), and D.-H. Wei*(魏德新) , “Spontaneously Induced Magnetic Anisotropy in an Ultrathin Co/MoS₂ Heterojunction ”, Nanoscale Horiz. **5** , 1058 (2020) . (I.F.=9.927) ★
10. H.-C. Lu*(盧曉琪), J.-I. Lo(羅仁佑), Y.-C. Peng(彭鈺謙), S.-L. Chou(周勝隆), B.-M. Cheng*(鄭炳銘), and H.-C. Chang*(張煥正) , “Nitrogen-vacancy Centers in Diamond for High-performance Detection of Vacuum Ultraviolet, Extreme Ultraviolet, and X-rays ”, ACS Appl. Mater. Interfaces **12** , 3847 (2020) . (I.F.=8.758) ★
11. B.-J. Su(蘇竝堅), K.-W. Wang, C.-J. Tseng, C.-W. Pao(包志文), J.-L. Chen(陳政龍), K.-T. Lu(盧桂子), and J.-M. Chen*(陳錦明) , “High Durability of Pt₃Sn/Graphene Electrocatalysts Toward the Oxygen Reduction Reaction Studied with in Situ QEXAFS ”, ACS Appl. Mater. Interfaces **12** , 24710 (2020) . (I.F.=8.758) ★
12. T. T. Hagos, W.-N. Su*(蘇威年), C.-J. Huang, B. Thirumalraj, S.-F. Chiu, L. H. Abrha, T. M. Hagos, H. K. Bezabh, G. B. Berhe, W. A. Tegegne, J.-Y. Cherng, Y.-W. Yang(楊耀文), and B.-J. Hwang*(黃炳照) , “Developing High-voltage Carbonate-ether Mixed Electrolyte via Anode-free Cell Configuration ”, J. Power Sources **461** , 228053 (2020) . (I.F.=8.247) ★

13. B. A. Jote, T. T. Beyene, N. A. Sahalie, M. A. Weret, B. W. Olbassa, Z. T. Wondimkun, G. B. Berhe, C.-J. Huang, W.-N. Su*(蘇威年), and B. J. Hwang*(黃炳照) , “Effect of Diethyl Carbonate Solvent with Fluorinated Solvents as Electrolyte System for Anode Free Battery ”, *J. Power Sources* **461** , 228102 (2020) . (I.F.=8.247) ★
14. C.-S. Kuo, L.-M. Lyu, R.-F. Sia, H.-M. Lin, B. T. Sneed, C.-F. Chen, J. Chang, T.-W. Chiu, Y.-C. Chuang*(莊裕鈞), and C.-H. Kuo*(郭俊宏) , “Ultrathin Octahedral CuPt Nanocages Obtained by Facet Transformation from Rhombic Dodecahedral Core-shell Nanocrystals ”, *ACS Sustain. Chem. Eng.* **8** , 10544 (2020) . (I.F.=7.632) ★
15. C.-W. Tung, C.-H. Hou, H.-T. Lin, Y. Zheng, Y.-P. Huang, Y.-F. Liao(廖彥發), J.-J. Shiue, and H. M. Chen*(陳浩銘) , “In Situ Observation of Electrodeposited Bimetallic p-Si Micropillar Array Photocathode for Solar-driven Hydrogen Evolution ”, *Solar RRL* **4** , 2000028 (2020) . (I.F.=7.527) ★
16. Y. Yu, J. Du, T. S. Chan*(詹丁山), and C. Jing*(景傳勇) , “Core-shell AuFe@FeO_x-CFC as Electrochemical Sensor for Trace Antimony Analysis ”, *Sensor. Actuat. B-Chem.* **319** , 128322 (2020) . (I.F.=7.1) ★
17. I.-M. Lin, C.-M. Chou(周哲民), M.-C. Li, R.-H. Guo, C.-K. Lee, H.-J. Li, Y.-W. Chiang*(蔣西旺), Y.-H. Lin(林易弘), Y.-C. Lee(李耀昌), C.-J. Su(蘇群仁), U.-S. Jeng(鄭有舜), and W.-T. Chuang*(莊偉綜) , “Superhelices with Tunable Twisting Power Directed from Supramolecular Pairing of Focal Asymmetry in Achiral Dendron-jacketed Block Copolymers ”, *J. Mater. Chem. C* **8** , 1923 (2020) . (I.F.=7.059) ★
18. T.-L. Chen, H.-C. Chen, Y.-P. Huang, S.-C. Lin, C.-H. Hou, H.-Y. Tan, C.-W. Tung, T.-S. Chan*(詹丁山), J.-J. Shyue, and H. M. Chen*(陳浩銘) , “In Situ Unraveling of the Effect of the Dynamic Chemical State on Selective CO₂ Reduction upon Zinc Electrocatalysts ”, *Nanoscale* **12** , 18013 (2020) . (I.F.=6.895) ★
19. F. H. Hsu, S. Y. Hsu, C. W. Pao(包志文), J. L. Chen(陳政龍), C. L. Chen(陳啟亮), J. M. Chen*(陳錦明), and K. T. Lu*(盧桂子) , “Electrochemical properties and mechanism of CoMoO₄@NiWO₄ Core-shell Nanoplates for High-performance Supercapacitor Electrode Application Studied via in Situ X-ray Absorption Spectroscopy ”, *Nanoscale* **12** , 13388 (2020) . (I.F.=6.895) ★
20. H.-W. Kuo(郭鴻偉), C.-J. Lin, H.-Y. Do, R.-Y. Wu, C.-M. Tseng, K. Kumar, C.-L. Dong, and C.-L. Chen*(陳啟亮) , “Electronic and Atomic Structure of TiO₂ Anatase Spines on Sea-urchin-like Microspheres by X-ray Absorption Spectroscopy ”, *Appl. Surf. Sci.* **502** , 144297 (2020) . (I.F.=6.182) ★
21. T.-T. Wang, C.-L. Chiang, Y.-C. Lin, V. Srinivasadesikan, M.-C. Lin*(林明璋), and Y.-G. Lin*(林彥谷) , “KSCN-activation of Hydrogenated NiO/TiO₂ for Enhanced Photocatalytic Hydrogen Evolution ”, *Appl. Surf. Sci.* **511** , 145548 (2020) . (I.F.=6.182) ★
22. J.-W. Wu, C.-H. Chen(陳家浩), C.-J. Lin, K. Kumar, Y.-R. Lu(盧英睿), S. Y. H. Liou, S.-Y. Chen, D.-H. Wei, C.-L. Dong, and C.-L. Chen*(陳啟亮) , “Improved Photocatalytic Efficacy of TiO₂ Open Nanotube Arrays: A View by XAS ”, *Appl. Surf. Sci.* **527** , 146844 (2020) . (I.F.=6.182) ★
23. T. T. Wang, Y. C. Lin, M. C. Lin*(林明璋), and Y. G. Lin*(林彥谷) , “Au-assisted Methanol-hydrogenated Titanium Dioxide for Photocatalytic Evolution of Hydrogen ”, *Catal. Today* **358** , 143 (2020) . (I.F.=5.825) ★
24. S.-L. Chou(周勝隆), M.-Y. Lin(林孟暉), S.-Y. Lin(林書毓), W.-J. Huang(黃文建), T.-P. Huang(黃自平), Y.-C. Lee(李耀昌), and Y.-J. Wu*(吳宇中) , “Far-ultraviolet Absorption and Photoluminescence of Monolayer Graphene and Its Implications for Extended Red Emission ”, *Astrophys. J.* **901** , 103 (2020) . (I.F.=5.745) ★
25. 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. II. Irradiation of Chloromethane in Carbon Monoxide Ice with VUV Light and Electrons ”, *Astrophys. J.* **888** , 39 (2020) . (I.F.=5.745) ★
26. S.-K. Chen, H.-H. Guan(管泓翔), P.-H. Wu, L.-T. Lin, M.-C. Wu, H.-Y. Chang, N.-C. Chen(陳乃齊), C.-C. Lin(林建志), P. Chuankhayan, Y.-C. Huang(黃彥杰), P.-J. Lin, and C.-J. Chen*(陳俊榮) , “Structural Insights into the Histidine-containing Phosphotransfer Protein and Receiver Domain of Sensor Histidine Kinase Suggest a Complex Model in the Two-component Regulatory System in *Pseudomonas aeruginosa* ”, *IUCrJ* **7** , 934 (2020) . (I.F.=5.401) ★
27. M. Yoshimura, N.-C. Chen(陳乃齊), H.-H. Guan(管泓翔), P. Chuankhayan, C.-C. Lin(林建志), A. Nakagawa, and C.-J. Chen*(陳俊榮) , “Noncrystallographic Symmetry-constrained Map Obtained by Direct Density Optimization ”, *Acta Crystallogr. D* **76** , 147 (2020) . (I.F.=5.266) ★
28. S.-H. Wang, D. Shen, T.-W. Yang, I.-N. Chen, C.-H. Wang*(王嘉興), L.-M. Wang*(王立民) , “Large Positive Magnetoresistance with High Hall Mobility and Intercalation of Fe Dopants in the Quenched Bi₂Te₃ Single Crystals ”, *J. Alloy. Compd.* **844** , 156153 (2020) . (I.F.=4.65) ★

29. T. M. Hagos, T. T. Hagos, H. K. Bezabh, G. B. Berhe, L. H. Abrha, S.-F. Chiu, C.-J. Huang, W.-N Su*(蘇威年), H. Dai*, and B. J. Hwang*(黃炳照) , “Resolving the Phase Instability of a Fluorinated Ether, Carbonate-based Electrolyte for the Safe Operation of an Anode-free Lithium Metal Battery ”, *ACS Appl. Energy Mater.* **3** , 10722 (2020) . (I.F.=4.473) ★
30. N. A. Sahalie, Z. T. Wondimkun, W.-N. Su*(蘇威年), M. A. Weret, F. W. Fenta, G. B. Berhe, C.-J. Huang, Y.-C. Hsu, and B. J. Hwang*(黃炳照) , “Multifunctional Properties of Al_2O_3 /Polyacrylonitrile Composite Coating on Cu to Suppress Dendritic Growth in Anode-free Li-metal Battery ”, *ACS Appl. Energy Mater.* **3** , 7666 (2020) . (I.F.=4.473) ★
31. K.-A. Tsai, P.-Y. Hsieh, T.-H. Lai, C.-W. Tsao, H. Pan, Y.-G. Lin*(林彥谷), Y.-J. Hsu*(徐雍鑾) , “Nitrogen-doped Graphene Quantum Dots for Remarkable Solar Hydrogen Production ”, *ACS Appl. Energy Mater.* **3** , 5322 (2020) . (I.F.=4.473) ★
32. M. Hong*(洪銘輝), C.-K. Cheng , Y.-H. Lin, L. B. Young, R.-F. Cai, C.-H. Hsu*(徐嘉鴻), C.-T. Wu*(吳建霆), and J. Kwo*(郭瑞年) , “Epitaxy from a Periodic Y-O Monolayer: Growth of Single-crystal Hexagonal YAlO_3 Perovskite ”, *Nanomaterials* **10** , 1515 (2020) . (I.F.=4.324) ★
33. C.-M. Lin, A. K. Dwivedi, W.-T. Chuang*(莊偉綜), and H.-C. Lin*(林宏洲) , “Hierarchical Self-assembly of Supramolecular Polymer Complexes Mediated by Various Generations of Bent-core Mesogenic Dendrimers Hydrogen-bonded with Triblock Copolymer ”, *Polymer* **208** , 122880 (2020) . (I.F.=4.231) ★
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35. J.-R. Zhang, J.-J. Lee*(李之釗), C.-H. Su, M.-J. Tsai, C.-Y. Li, and J.-Y. Wu*(吳景雲) , “From Lamellar Net to Bilayered-lamella and to Porous Pillared-bilayer: Reversible Crystal-to-crystal Transformation, CO_2 Adsorption, and Fluorescence Detection of Fe^{3+} , Al^{3+} , Cr^{3+} , MnO_4^- , and $\text{Cr}_2\text{O}_7^{2-}$ in Water ”, *Dalton T.* **49** , 14201 (2020) . (I.F.=4.174) ★
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38. C. W. Chuang(莊茜雯), F. M. F. de Groot, Y. F. Liao(廖彥發), Y. Y. Chin, K. D. Tsuei, R. Nirmala, D. Malterre, and A. Chainani(查里) , “Hard X-ray Photoemission Spectroscopy of GdNi and HoNi ”, *Phys. Rev. B* **102** , 165127 (2020) . (I.F.=3.575) ★
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41. C.-C. Wang*(王志傑), W.-C. Yi, Z.-L. Huang, T.-W. Chang, W.-C. Chien, Y.-Y. Tseng, B.-H. Chen, Y.-C. Chuang*(莊裕鈞), and G.-H. Lee , “Synthesis, Structures, and Water Adsorption of Two Coordination Polymers Constructed by M(II) ($M=\text{Ni}(1)$ and $\text{Zn}(2)$) with 1,3-Bis(4-pyridyl)Propane (bpp) and 1,2,4,5-benzenetetracarboxylate (BT⁴⁻) Ligands ”, *Polymers* **12** , 2222 (2020) . (I.F.=3.426) ★
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45. Z. Li*(李志恒), C.-C. Wang*(王俊杰), M. Wang, C.-C. Chiang(江政誠), Y. Wang, X. Zheng, E.-W. Huang, K. Hsiao, and Z. Zhou , “Ultramicrostructural Reductions in Teeth: Implications for Dietary Transition from Nonavian Dinosaurs to Birds ”, *BMC Evol. Biol.* **20**, 46 (2020) . (I.F.=3.058) ★
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52. W.-H. Chang Chien, J.-Y. Huang, J.-X. Lin, Y.-F. Liao*(廖彥發), H.-W. Su, H.-L. Liang, S.-Y. Huang, Y.-D. Yao, and H.-S. Hsu*(許華書) , “Low Current Densities Toggle Optical Polarization Switching in Pt/Yttrium Iron Garnet Magnetic Heterostructures Using Energy Resolution ”, *Phys. Status Solidi-Rapid Res. Lett.* **14** , 2000223 (2020) . (I.F.=2.291) ★
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