

List of Publications (2023)

Experiments Performed at NSRRC Beamlines

主導性之 SCIE 論文

1. Luning Chen, Zhigang Song, Shuchen Zhang, Chung-Kai Chang(張仲凱), Yu-Chun Chuang(莊裕鈞), Xinxing Peng, Chaochao Dun, Jeffrey J. Urban, Jinghua Guo, Jeng-Lung Chen*(陳政龍), David Prendergast, Miquel Salmeron, Gabor A. Somorjai*, Ji Su*, "Ternary NiMo-Bi Liquid Alloy Catalyst for Efficient Hydrogen Production from Methane Pyrolysis", *Science* **381**, 857 (2023). (I.F.=56.900)★
2. Yanping Zhu, Ke Fan, Chia-Shuo Hsu, Gao Chen, Changsheng Chen, Tiancheng Liu, Zezhou Lin, Sixuan She, Liuqing Li, Hanmo Zhou, Ye Zhu, Hao Ming Chen*(陳浩銘), Haitao Huang*(黃海濤), "Supported Ruthenium Single-atom and Clustered Catalysts Outperform Benchmark Pt for Alkaline Hydrogen Evolution", *Adv. Mater.* **35**, 2301133 (2023). (I.F.=29.400)★
3. Vishal Jose, Viet-Hung Do, P Prabhu, Chun-Kuo Peng, San-Yuan Chen, Yingtang Zhou*(周英棠), Yan-Gu Lin*(林彥谷), and Jong-Min Lee*, "Activating Amorphous Ru Metallenes Through Co Integration for Enhanced Water Electrolysis", *Adv. Energy Mater.* **13**, 2301119 (2023). (I.F.=27.800)★
4. Misganaw Adigo Weret, Shi-Kai Jiang, Kassie Nigus Shitaw, Chia-Yu Chang, Teshager Mekonnen Tekaligne, Jeng-Chian Chiou, Sheng-Chiang Yang, Nigusu Tiruneh Temesgen, Yosef Nikodimos, She-Huang Wu, Chun-Chieh Wang(王俊杰), Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "Reviving Inactive Lithium and Stabilizing Lithium Deposition for Improving the Performance of Anode-free Lithium-sulfur Batteries", *ACS Energ. Lett.* **8**, 2817 (2023). (I.F.=22.000)★
5. Zixin Wu, Guifan Zeng, Jianhua Yin, Chao-Lung Chiang, Qinghua Zhang, Baodan Zhang, Jianken Chen, Yawen Yan, Yonglin Tang, Haitang Zhang, Shiyuan Zhou, Qingsong Wang, Xiaoxiao Kuai*(蒯笑笑), Yan-Gu Lin*(林彥谷), Lin Gu*(谷林), Yu Qiao*(喬羽), and Shi-Gang Sun, "Unveiling the Evolution of LiCoO₂ Beyond 4.6 V", *ACS Energ. Lett.* **8**, 4806 (2023). (I.F.=22.000)★
6. Yosef Nikodimos, Wei-Nien Su*(蘇威年), Kassie Nigus Shitaw, Shi-Kai Jiang, Ljalem Hadush Abrha, Misganaw Adigo Weret, Semaw Kebede Merso, Teklay Mezgebe Hagos, Chen-Jui Huang, Keseven Lakshmanan, Wei-Hsiang Huang(黃偉翔), Chia-Yu Chang, Jih-Min Lin(林智敏), She-Huang Wu, Chun-Chen Yang*(楊純誠), Bing Joe Hwang*(黃炳照), "Multifunctional Electrospun PVDF-HFP Gel Polymer Electrolyte Membrane Suppresses Dendrite Growth in Anode-free Li Metal Battery", *Energy Storage Mater.* **61**, 102861 (2023). (I.F.=20.400)★
7. Bereket Woldegbreal Taklu, Yosef Nikodimos, Hailemariam Kassa Bezabh, Keseven Lakshmanan, Teklay Mezgebe Hagos, Teshome Assefa Nigatu, Semaw Kebede Merso, Hung-Yi Sung, Sheng-Chiang Yang, She-Huang Wu, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "Air-stable Iodized-oxychloride Argyrodite Sulfide and Anionic Swap on the Practical Potential Window for All-solid-state Lithium-metal Batteries", *Nano Energy* **112**, 108471 (2023). (I.F.=17.600)★
8. P Prabhu, Viet-Hung Do, Chun Kuo Peng, Huimin Hu, San-Yuan Chen, Jin-Ho Choi*, Yan-Gu Lin*(林彥谷), and Jong-Min Lee*, "Oxygen-bridged Stabilization of Single Atomic W on Rh Metallenes for Robust and Efficient pH-universal Hydrogen Evolution", *ACS Nano* **17**, 10733 (2023). (I.F.=17.100)★
9. Nai-Chi Chen(陳乃齊), Chun-Hsiung Wang, Masato Yoshimura, Yi-Qi Yeh(葉奕琪), Hong-Hsiang Guan(管泓翔), Phimonphan Chuankhayan, Chien-Chih Lin(林建志), Pei-Ju Lin(林佩儒), Yen-Chieh Huang(黃彥杰), Soichi Wakatsuki, Meng-Chiao Ho*(何孟樵), and Chun-Jung Chen*(陳俊榮), "Structures of Honeybee-infecting Lake Sinai Virus Reveal Domain Functions and Capsid Assembly with Dynamic Motions", *Nat. Commun.* **14**, 545 (2023). (I.F.=16.600)★
10. Chia-Shuo Hsu, Jiali Wang, You-Chiuan Chu, Jui-Hsien Chen, Chia-Ying Chien, Kuo-Hsin Lin, Li Duan Tsai, Hsiao-Chien Chen, Yen-Fa Liao(廖彥發), Nozomu Hiraoka(平岡望), Yuan-Chung Cheng*(鄭原忠), and Hao Ming Chen*(陳浩銘), "Activating Dynamic Atomic-configuration for Single-site Electrocatalyst in Electrochemical CO₂ Reduction", *Nat. Commun.* **14**, 5245 (2023). (I.F.=16.600)★
11. Jiao Lan, Zengxi Wei, Ying-Rui Lu(盧英睿), DeChao Chen, Shuangliang Zhao, Ting-Shan Chan*(詹丁山), and Yongwen Tan*(譚勇文), "Efficient Electrosynthesis of Formamide from Carbon Monoxide and Nitrite on a Ru-dispersed Cu Nanocluster Catalyst", *Nat. Commun.* **14**, 2870 (2023). (I.F.=16.600)★

12. Chun-Kuo Peng, Yu-Chang Lin, Chao-Lung Chiang, Zhengxin Qian, Yu-Cheng Huang, Chung-Li Dong, Jian-Feng Li*(李劍鋒), Chien-Te Chen, Zhiwei Hu*(胡志偉), San-Yuan Chen*(陳三元), and Yan-Gu Lin*(林彥谷), "Zhang-rice Singlets State Formed by Two-step Oxidation for Triggering Water Oxidation Under Operando Conditions", *Nat. Commun.* **14**, 529 (2023). (I.F.=16.600)★
13. Jiali Wang, Chia-Shuo Hsu, Tai-Sing Wu(吳泰興), Ting-Shan Chan*(詹丁山), Nian-Tzu Suen, Jyh-Fu Lee(李志甫), and Hao Ming Chen*(陳浩銘), "In Situ X-ray Spectroscopies Beyond Conventional X-ray Absorption Spectroscopy on Deciphering Dynamic Configuration of Electrocatalysts", *Nat. Commun.* **14**, 6576 (2023). (I.F.=16.600)★
14. Shengjie Wei, Yibing Sun, Yun-Ze Qiu, Ang Li, Ching-Yu Chiang*(蔣慶有), Hai Xiao*(尚海), Jieshu Qian*(錢杰書), and Yadong Li*(李亞棟), "Self-carbon-thermal-reduction Strategy for Boosting the Fenton-like Activity of Single Fe-N₄ Sites by Carbon-defect Engineering", *Nat. Commun.* **14**, 7549 (2023). (I.F.=16.600)★
15. Jeng-Lung Chen(陳政龍), Sheng-Yuan Feng, Chih-Jung Lu, Jing-Fang Huang*(黃景帆), "Janus Ru/RuO₂ Nano-boomerangs on Carbon as pH-universal Electrocatalysts with Bifunctional Activity toward the Hydrogen/Oxygen Evolution Reaction", *Chem. Eng. J.* **468**, 143761 (2023). (I.F.=15.100)★
16. Shanquan Chen, Jhong-Yi Chang, Qinghua Zhang, Qiuyue Li, Ting Lin, Fanqi Meng, Haoliang Huang, Yangyang Si, Shengwei Zeng, Xinmao Yin, My Ngoc Duong, Yalin Lu, Lang Chen, Er-Jia Guo, Hanghui Chen, Chun-Fu Chang, Chang-Yang Kuo*(郭昌洋), and Zuhuang Chen*(陳祖煌), "Spin State Disproportionation in Insulating Ferromagnetic LaCoO₃ Epitaxial Thin Films", *Adv. Sci.* **10**, 2303630 (2023). (I.F.=15.100)★
17. Wan-Hsin Chen, Chin-Hsuan Chen, Guan-Hao Chen, Wei-Chuan Chen, Fu-Xiang Rikudo Chen, Pei-Jung Chen, Chun-Kai Ku, Chang-Tsan Lee, Naoya Kawakami, Jia-Ying Li, Iwao Matsuda, Wen-Hao Chang, Juhn-Jong Lin, Chien-Te Wu, Chung-Yu Mou, Horng-Tay Jeng*(鄭弘泰), Shu-Jung Tang*(唐述中), and Chun-Liang Lin*(林俊良), "Enhanced Superconductivity and Rashba Effect in a Buckled Plumbene-Au Kagome Superstructure", *Adv. Sci.* **10**, 2300845 (2023). (I.F.=15.100)★
18. Suh-Ciuan Lim(林淑娟), Chao-Lung Chiang, Chun-Kuo Peng, Wen-Bin Wu, Yu-Chang Lin, Yu-Ru Lin, Chi-Liang Chen*(陳啟亮), Yan-Gu Lin*(林彥谷), "Realizing the Bifunctional Electrocatalysis via Local Charge Rearrangement of α -CrOOH-modulated Co@CoMoO_x for Overall Water Splitting", *Chem. Eng. J.* **452**, 139715 (2023). (I.F.=15.100)★
19. Angelina Melanita Tarigan, Sofiannisa Aulia, Mia Rinawati, Ling-Yu Chang*(張玲毓), Yao-Sheng Cheng, Ching-Cheng Chang, Wei-Hsiang Huang*(黃偉翔), Jeng-Lung Chen(陳政龍), Heru Setyawan, and Min-Hsin Yeh*(葉旻鑫), "Tandem Surface Engineering of Graphene Quantum Dot-assisted Fluorinated NiFe Prussian Blue Analogue for Electrocatalytic Oxygen Evolution Reaction", *Chem. Eng. J.* **476**, 146754 (2023). (I.F.=15.100)★
20. Chia-Jui Chang, Yi-An Lai, You-Chiuan Chu, Chun-Kuo Peng, Hui-Ying Tan, Chih-Wen Pao(包志文), Yan-Gu Lin*(林彥谷), Sung-Fu Hung, Hsiao-Chien Chen, and Hao Ming Chen*(陳浩銘), "Lewis Acidic Support Boosts C-C Coupling in the Pulsed Electrochemical CO₂ Reaction", *J. Am. Chem. Soc.* **145**, 6953 (2023). (I.F.=15.000)★
21. Shen-Jing Ji, Li-Wen Cao, Peng Zhang, Guan-Bo Wang, Ying-Rui Lu, Nian-Tzu Suen*(孫念祖), Sung-Fu Hung*(洪崧富), and Hao Ming Chen*(陳浩銘), "Dealloying-induced Zeolite-like Metal Framework of AB₂ Laves Phase Intermetallic Electrocatalysts", *J. Am. Chem. Soc.* **145**, 17892 (2023). (I.F.=15.000)★
22. Bo-Hao Chen(陳柏豪), Gautam Kumar, Yu-Jung Wei, Hsueh-Heng Ma, Jui-Cheng Kao, Po-Jung Chou, Yu-Chun Chuang(莊裕鈞), I-Chia Chen, Jyh-Pin Chou, Yu-Chieh Lo, Michael H. Huang*(黃暄益), "Experimental Revelation of Surface and Bulk Lattices in Faceted Cu₂O Crystals", *Small* **19**, 2303491 (2023). (I.F.=13.300)★
23. Chih-Hao Hsu, Wei-Hsiang Huang, Chin-Jung Lin, Chun-Hao Huang, Yi-Che Chen, Krishna Kumar, Yan-Gu Lin, Chung-Li Dong, Maw-Kuen Wu, Bing Joe Hwang, Wei-Nien Su, Shih-Yun Chen*(陳詩芸), and Chi-Liang Chen*(陳啟亮), "Description of Photodegradation Mechanisms and Structural Characteristics in Carbon@Titania Yolk-shell Nanostructures by XAS", *Small* **19**, 2203881 (2023). (I.F.=13.300)★
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25. Pongsatorn Patta, Ya-Yu Chen, Manjula Natesan, Chien-Lin Sung, Chueh-Cheng Yang, Chia-Hsin Wang*(王嘉興), Tsuyohiko Fujigaya*, and Yu-Hsu Chang*(張裕煦), "Investigation of Zn-substituted FeCo₂O₄ for the Oxygen Evolution Reaction and Reaction Mechanism Monitoring through In Situ Near-ambient-pressure X-ray Photoelectron Spectroscopy", *ACS Catalysis* **13**, 13434 (2023). (I.F.=12.900)★

26. Leiyu Chen, Chao-Lung Chiang, Guifan Zeng, Yonglin Tang, Xiaohong Wu, Shiyuan Zhou, Baodan Zhang, Haitang Zhang, Yawen Yan, Tingting Liu, Hong-Gang Liao, Chuanwei Wang*, Xiaoxiao Kuai*, Yan-Gu Lin*(林彥谷), Yu Qiao*(喬羽), Shi-Gang Sun, "Enhancing the Cycle-life of Initial-anode-free Lithium-metal Batteries by Pre-lithiation in Mn-based Li-rich Spinel Cathodes", *J. Mater. Chem. A* **11**, 11119 (2023). (I.F.=11.900)★
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28. Jinyue Shi, Cheng-Wei Kao, Jiao Lan, Kang Jiang, Ming Peng, Min Luo*, Ying-Rui Lu*(盧英睿), Shiguo Zhang*(張世國), and Yongwen Tan*(譚勇文), "Nanoporous PdIr Alloy for High-efficiency and Durable Water Splitting in Acidic Media", *J. Mater. Chem. A* **11**, 11526 (2023). (I.F.=11.900)★
29. Ying-Chiao Wang, Chun-Hao Chiang, Chun-Jen Su(蘇群仁), Je-Wei Chang, Chi-Ying Lin, Chia-Chun Wei, Shao-Ku Huang, Hiroaki Maeda, Wen-Bin Jian, U-Ser Jeng*(鄭有舜), Kazuhito Tsukagoshi*, Chun-Wei Chen*(陳俊維), and Hiroshi Nishihara*, "Terpyridine-zinc(II) Coordination Nanosheets as Modulators of Perovskite Crystallization to Enhance Solar Cell Efficiency", *J. Mater. Chem. A* **11**, 7077 (2023). (I.F.=11.900)★
30. Feng-Yi Wu, Hsin-Jung Tsai, Tsung-Ju Lee, Zih-Yi Lin, Kang-Shun Peng, Pei-Hsuan Chen, Nozomu Hiraoka, Yen-Fa Liao(廖彥發), Chih-Wei Hu, Shao-Hui Hsu, Ying-Rui Lu*(盧英睿), and Sung-Fu Hung*(洪崧富), "Copper-barium-decorated Carbon-nanotube Composite for Electrocatalytic CO₂ Reduction to C₂ Products", *J. Mater. Chem. A* **11**, 13217 (2023). (I.F.=11.900)★
31. Ro-Ya Liu*(劉若亞), Angus Huang, Raman Sankar, Joseph Andrew Hlevyack, Chih-Chuan Su, Shih-Chang Weng(翁世璋), Meng-Kai Lin, Peng Chen, Cheng-Maw Cheng(鄭澄懋), Jonathan D. Denlinger, Sung-Kwan Mo, Alexei V. Fedorov, Chia-Seng Chang, Horng-Tay Jeng*(鄭弘泰), Tien-Ming Chuang, and Tai-Chang Chiang*(江台章), "Dirac Nodal Line in Hourglass Semimetal Nb₃SiTe₆", *Nano Lett.* **23**, 380 (2023). (I.F.=10.800)★
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3.資料更新日期: 2024-01-10