

List of Publications (2024)

Experiments Performed at NSRRC Beamlines

主導性之 SCIE 論文

1. You-Chiuan Chu, Kuan-Hsu Chen, Ching-Wei Tung, Hsiao-Chien Chen, Jiali Wang*(王佳麗), Tsung-Rong Kuo*(郭聰榮), Chia-Shuo Hsu, Kuo-Hsin Lin, Li Duan Tsai, and Hao Ming Chen*(陳浩銘), "Dynamic (Sub)surface-oxygen Enables Highly Efficient Carbonyl-coupling for Electrochemical Carbon Dioxide Reduction", Adv. Mater. **36**, 2400640 (2024). (I.F.=26.800)★
2. Honggang Huang, Cun Chen, Chun-Chi Chang, Feili Lai, Shangheng Liu, Hui Fu, Yao Chen, Hanjun Li, Wei-Hsiang Huang*(黃偉翔), Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "Crystal-phase-engineered High-entropy Alloy Aerogels for Enhanced Ethylamine Electrosynthesis from Acetonitrile", Adv. Mater. **36**, 2314142 (2024). (I.F.=26.800)★
3. Jun Okamoto(岡本淳), Ru-Pan Wang, Yen-Yi Chu(朱晏誼), Hung-Wei Shiu(許紘瑋), Amol Singh(辛艾蒙), Hsiao-Yu Huang(黃筱妤), Chung-Yu Mou, Sukhito Teh, Horng-Tay Jeng, Kai Du, Xianghan Xu, Sang-Wook Cheong, Chao-Hung Du, Chien-Te Chen(陳建德), Atsushi Fujimori*, and Di-Jing Huang*(黃迪靖), "Giant X-ray Circular Dichroism in a Time-reversal Invariant Antiferromagnet", Adv. Mater. **36**, 2309172 (2024). (I.F.=26.800)★
4. Naifang Hu, Yu-Han Zhang, Yuan Yang, Hui Wu, Yuehui Liu, Congyi Hao, Yue Zheng, Deye Sun, Wenru Li, Jiedong Li, Zhiwei Hu, Ting-Shan Chan(詹丁山), Cheng-Wei Kao(高振瑋), Qingyu Kong, Xiaogang Wang, Shu-Chih Haw*(何樹智), Jun Ma*(馬君), and Guanglei Cui*(崔光磊), "Unraveling the Spatial Asynchronous Activation Mechanism of Oxygen Redox-involved Cathode for High-voltage Solid-state Batteries", Adv. Energy Mater. **14**, 2303797 (2024). (I.F.=26.000)★
5. Tripti Agnihotri, Tzu-Hsun Chu, Shi-Kai Jiang, Shadab Ali Ahmed, Ashok Ranjan, Elango Balaji Tamilarasan, Sheng-Chiang Yang, Teklay Mezgebe Hagos, Zabish Bilew Muche, Jyh-Chiang Jiang*(江志強), She-Huang Wu*(吳溪煌), Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "Multifunctional Fluorinated Phosphonate-based Localized High Concentration Electrolytes for Safer and High-performance Lithium-based Batteries", Energy Storage Mater. **73**, 103787 (2024). (I.F.=20.200)★
6. Berhanu Degagsa Dandena, Dah-Shyang Tsai, She-Huang Wu, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "Roles of Cation-doped Li-argyrodite Electrolytes on the Efficiency of All-solid-state-lithium Batteries", Energy Storage Mater. **69**, 103305 (2024). (I.F.=20.200)★
7. Tripti Agnihotri, Shadab Ali Ahmed, Elango Balaji Tamilarasan, Rehbar Hasan, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "Transitioning Towards Asymmetric Gel Polymer Electrolytes for Lithium Batteries: Progress and Prospects", Adv. Funct. Mater. **34**, 2311215 (2024). (I.F.=19.000)★
8. Yi-An Chen, Yuhi Nakayasu, Yu-Chang Lin, Jui-Cheng Kao, Kai-Chi Hsiao, Quang-Tuyen Le, Kao-Der Chang, Ming-Chung Wu, Jyh-Pin Chou, Chun-Wei Pao(包志文), Tso-Fu Mark Chang, Masato Sone, Chun-Yi Chen*(陳君怡), Yu-Chieh Lo*(羅友杰), Yan-Gu Lin*(林彥谷), Akira Yamakata*, and Yung-Jung Hsu*(徐雍鎣), "Double-hollow Au@CdS Yolk@Shell Nanostructures as Superior Plasmonic Photocatalysts for Solar Hydrogen Production", Adv. Funct. Mater. **34**, 2402392 (2024). (I.F.=19.000)★
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10. Yosef Nikodimos, Shi-Kai Jiang, Shing-Jong Huang, Bereket Woldegbreal Taklu, Wei-Hsiang Huang(黃偉翔), Gidey Bahre Desta, Teshager Mekonnen Tekaligne, Zabish Bilew Muche, Keseven Lakshmanan, Chia-Yu Chang, Teklay Mezgebe Hagos, Kassie Nigus Shitaw, Sheng-Chiang Yang, She-Huang Wu, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "Moisture Robustness of Li₆PS₅Cl Argyrodite Sulfide Solid Electrolyte Improved by Nano-level Treatment with Lewis Acid Additives", ACS Energ. Lett. **9**, 1844 (2024). (I.F.=18.200)★
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 14. Jiali Wang, Tai Ying Lai, Han-Ting Lin, Tsung-Rong Kuo*(郭聰榮), Hsiao-Chien Chen, Chun-Sheng Tseng, Ching-Wei Tung*(童敬維), Chia-Ying Chien, and Hao Ming Chen*(陳浩銘), "Light-induced Dynamic Activation of Copper/Silicon Interface for Highly Selective Carbon Dioxide Reduction", Angew. Chem. Int. Edit. **63**, e202403333 (2024). (I.F.=16.900)★
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 16. Yao Chen, Cun Chen, Wei-Hsiang Huang*(黃偉翔), Chih-Wen Pao(包志文), Chun-Chi Chang, Tingjie Mao, Juan Wang, Hui Fu, Feili Lai, Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "Charge Redistribution in High-entropy Perovskite Oxide Porous Nanotubes Boosts Nitrate Electroreduction to Ammonia", ACS Nano **18**, 20530 (2024). (I.F.=16.000)★
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24. Chemedha Barasa Guta, Habib Gemechu Edao, Woldesenbet Bafe Dilebo, Chia-Yu Chang, Fikiru Temesgen Angerasa, Endalkachew Asefa Moges, Yosef Nikodimos, Keseven Lakshmanan, Meng-Che Tsai*(蔡孟哲), Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "Novel Electrocatalyst with Abundant Oxygen Vacancies Enabling Efficient Two-electron Water Oxidation Reaction for H₂O₂ Synthesis", *Chem. Eng. J.* **500**, 156418 (2024). (I.F.=13.200)★
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Capturing and Regulating Key Intermediates for High-efficiency Oxygen Evolution Reactions", Small Methods **8**, 2301504 (2024). (I.F.=9.100)★

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Neutron Project

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