List of Publications (2025)

Experiments Performed at NSRRC Beamlines

主導性 之 SCIE 論文

1. Jiali Wang, Meng-Ting Liu, Chia-Shuo Hsu, You-Chiuan Chu, Yen-Fa Liao(廖彥發), Chih-Wen Pao(包志文), Ting-Shan Chan(詹丁山), Wei-Tsung Chuang(莊偉綜), Jeng-Lung Chen(陳政龍), Yu-Cheng Shao(邵禹成), Hirofumi Ishii(石井啟文), Nozomu Hiraoka(平岡望), Ching-Yu Chiang*(蔣慶有), and Hao Ming Chen*(陳浩銘), "*Resolving Dynamic Behavior of Electrocatalysts via Advances of Operando X-ray Absorption Spectroscopies: Potential Artifacts and Practical Guidelines*", Adv. Mater. **37**, 2418797 (2025). (I.F.=26.800)★

2. Sheng-Shong Wong(翁聖翔), Zhen-You Lin, Sheng-Zhu Ho, Chih-En Hsu, Ping-Hung Li, Ching-Yu Chen, Yen-Fu Huang, Kuo-En Chang, Yu-Chiang Hsieh, Chia-Hao Chen(陳家浩), Ming-Hao Lee, Ming-Wen Chu, Kuang-I Lin, Tse-Ming Chen, Yi-Chun Chen*(陳宜君), Hung-Chung Hsueh*(薛宏中), Cheng-Maw Cheng*(鄭澄懋), and Chung-Lin Wu*(吳忠霖), "*Epitaxial Ferroelectric Hexagonal Boron Nitride Grown on Graphene*", Adv. Mater. **37**, 2414442 (2025). (I.F.=26.800)★

3. Pei Xiong, Jiangtong Li, Zhihang Xu, Yashan Lin, Robert David Bennett, Yi Zhang, Wei-Min Tu, Ye Zhu, Yun-Liang Soo, Tai-Sing Wu*(吳泰興), and Molly Meng-Jung Li*(李孟蓉), "*Efficient Low-temperature Ammonia Cracking Enabled by Strained Heterostructure Interfaces on Ru-free Catalyst*", Adv. Mater. **37**, 2502034 (2025). (I.F.=26.800)★

4. Yiming Zhu, Jiaao Wang, Gregor Weiser, Malte Klingenhof, Toshinari Koketsu, Shangheng Liu, Yecan Pi, Graeme Henkelman, Xinyue Shi, Jiayi Li, Chih-Wen Pao(包志文), Min-Hsin Yeh, Wei-Hsiang Huang*(黃偉翔), Peter Strasser*, and Jiwei Ma*(馬吉偉), "*Ru Single Atoms and Sulfur Anions Dual-doped NiFe Layered Double Hydroxides for High-current-density Alkaline Oxygen Evolution Reaction*", Adv. Energy Mater. **15**, 2500554 (2025). (I.F.=26.000)★

5. Liheng Guan, Zhen Huang, Ting Zhu*(朱挺), Zhenyu Wang, Wei-Hsiang Huang*(黃偉翔), Chun-Chi Chang, Min-Hsin Yeh, Silvio Osella, Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "*Phase-controlled Pd-S Nanosheet Aerogels for Electrocatalytic Upgrading of Waste Plastics*", Adv. Funct. Mater. **35**, 2500254 (2025). (I.F.=19.000)★

6. Jin-Wei Kang, Hsu-Chen Cheng, Hsiang-Jung Chen, Shao-Chu Huang, Chih-Heng Lee, Chin-Lung Kuo, Sheng-Yu Yu, Heng-Liang Wu, Chia-Ching Lin, Chun-Han Kuo, Hao-Hsiang Chang, Chih-Wei Hu, Shu-Chih Haw*(何樹智), Hsin-Yi Tiffany Chen*(陳馨怡), and Han-Yi Chen*(陳翰儀), "*P_2-$Na_{0.61}Ca_{0.03}[Mg_{2/9}Cu_{1/9}Mn_{2/3}]O_2$ as a High-energy Oxygen Redox Cathode for Na-ion Batteries: Investigation of Cu Substitution and Ca Doping to Enhance Cycling Stability*", Adv. Funct. Mater. **35**, 2504642 (2025). (I.F.=19.000)★

7. Yung-Jing Xue, Chen-Yu Chang, Chieh-Ming Hung, Chi-Chun Tseng, Je-Wei Chang, Chun-Jen Su(蘇群仁), Chia-Lin Tsai, Han-Cheng Lu, Kuo-Hsiu Huang, Kuei-Yu Tai, Chien-Yi Ku, Chia-Shing Wu, Su-Ying Chien, Shang-Da Yang, Bing-Huang Jiang, Chih-Ping Chen, Pi-Tai Chou*(周必泰), U-Ser Jeng*(鄭有舜), and Yen-Ju Cheng*(鄭彥如), "*Side-chains Engineered Self-assembly of Ortho-benzodipyrrole-based Acceptors: Comprehensive Exploration of Structure-interface-photovoltaics Correlations*", Adv. Funct. Mater. **35**, e04705 (2025). (I.F.=19.000)★

8. Elango Balaji Tamilarasan, Yu-Chun Huang, Tripti Agnihotri, Tsung-I Yeh, Yosef Nikodimos*, Endalkachew Asefa Moges, Shadab Ali Ahmed, Rehbar Hasan, Ashok Vallal Saravanan, Bereket Woldegbreal Taklu, She-Huang Wu, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Probing Li_2S Activation Mechanism in Lithium-sulfur Batteries via Multimodal Operando Techniques*", ACS Energ. Lett. **10**, 6390 (2025). (I.F.=18.200)★

9. Tao Wang, Mingjie Zou, Dehe Zhang, Yu-Chieh Ku, Yawen Zheng, Shen Pan, Zhongqi Ren, Zedong Xu, Haoliang Huang, Wei Luo, Yunlong Tang, Lang Chen, Cheng-En Liu, Chun-Fu Chang(張春富), Sujit Das, Laurent Bellaiche, Yurong Yang*(楊玉榮), Xiuliang Ma*(馬秀良), Chang-Yang Kuo*(郭昌洋), Xingjun Liu*(劉興軍), and Zuhuang Chen*(陳祖煌), "*Large Enhancement of Properties in Strained Lead-free Multiferroic Solid Solutions with Strong Deviation from Vegard's Law*", Matter **8**, 101874 (2025). (I.F.=17.500)★

10. Shanquan Chen, Feng-Hui Gong, Xiaowen Li, Yu-Chieh Ku, Cheng-En Liu, Yiyang Nie, Yangyang Si, Shuai Yuan, Jingyu Lu, Hua-Jun Qiu, Kailong Hu, Kaikai Li, Yan Huang, Cheng-Yan Xu, Kelvin Hongliang Zhang, Yun-Long Tang, Lang Chen, Chun-Fu Chang, Zhiwei Hu, Sujit Das, Xiu Liang Ma*(馬秀良), Chang-Yang Kuo*(郭昌洋), and Zuhuang Chen*(陳祖煌), "*Unleashing Electrocatalytic Oxygen Evolution Activity: Engineering Spin States in Strained Correlated Oxides for Enhanced Performance*", ACS Nano **19**, 23647 (2025). (I.F.=16.000)★

11. Ying-Chi Chen, Li-Chan Chang, Yan-Ling Liu, Ming-Che Chang, Yin-Fen Liu, Po-Ya Chang(張博雅), Divinah Manoharan, Wen-Jyun Wang, Jia-Sin Chen, Hsueh-Chun Wang, Wen-Tai Chiu*(邱文泰), Wei-Peng Li*(李偉鵬), Hwo-Shuenn Sheu*(許火順), Wen-Pin Su*(蘇文彬), and Chen-Sheng Yeh*(葉晨聖), "*Redox Disruption Using Electroactive Liposome Coated Gold Nanoparticles for Cancer Therapy*", Nat. Commun. **16**, 3253 (2025). (I.F.=15.700) ★

12. C.-W. Chuang*, T. Kawakami, K. Sugawara, K. Nakayama, S. Souma, M. Kitamura, K. Amemiya, K. Horiba, H. Kumigashira, G. Kremer, Y. Fagot-Revurat, D. Malterre, C. Bigi, F. Bertran, F. H. Chang, H. J. Lin(林宏基), C. T. Chen(陳建德), T. Takahashi, A. Chainani*(查里), and T. Sato*, "*Spin-valley Coupling Enhanced High-TC Ferromagnetism in a Non-van Der Waals Monolayer Cr_2Se_3 on Graphene*", Nat. Commun. **16**, 3448 (2025). (I.F.=15.700)★

13. Jiayi Li, Yiming Zhu, Changyuan Li, Qian Zhang, Ju Rong, Shasha Guo, Nicolas Alonso-Vante, Long Yang, Min-Hsin Yeh, Wei-Hsiang Huang*(黃偉翔), Xiaohua Yu*(于曉華), Hongfei Cheng*(程洪飛), and Jiwei Ma*(馬吉偉), "*Boosting and Stabilizing Oxygen Evolution Reaction through Ru Single Atoms Anchored Amorphous $NiMoO_x$ Electrocatalyst*", Nat. Commun. **16**, 8827 (2025). (I.F.=15.700)★

14. Feng-Ze Tian, Wen-Jui Chang, Pei-Jung Liang, Yi-An Lai, Chia-Shuo Hsu, Sheng-Chih Lin, Yu-Hsin Chen, You-Chiuan Chu, Shih-Wen Huang*(黃詩雯), Hui-Lung Chen*(陳輝龍), and Hao Ming Chen*(陳浩銘), "*Charge Redistribution Dynamics in Chalcogenide-stabilized Cuprous Electrocatalysts Unleash Ampere-scale Partial Current Toward Formate Production*", Nat. Commun. **16**, 9426 (2025). (I.F.=15.700)★

15. Zehao Wang, Yucheng Guo, Hsiao-Yu Huang(黃筱妤), Fang Xie, Yuefei Huang, Bin Gao, Ji Seop Oh, Han Wu, Jun Okamoto(岡本淳), Ganesha Channagowdra(章古), Chien-Te Chen(陳建德), Feng Ye, Xingye Lu, Zhaoyu Liu, Zheng Ren, Yuan Fang, Yiming Wang, Ananya Biswas, Yichen Zhang, Ziqin Yue, Cheng Hu, Chris Jozwiak, Aaron Bostwick, Eli Rotenberg, Makoto Hashimoto, Donghui Lu, Junichiro Kono, Jiun-Haw Chu, Boris I. Yakobson, Robert J. Birgeneau, Guang-Han Cao, Atsushi Fujimori, Di-Jing Huang*(黃迪靖), Qimiao Si*, Ming Yi*, and Pengcheng Dai*, "*Spin excitations and flat electronic bands in a Cr-based kagome superconductor*", Nat. Commun. **16**, 7573 (2025). (I.F.=15.700)★

16. Shengjie Wei, Jiexin Zhu*(朱杰鑫), Xingbao Chen, Rongyan Yang, Kailong Gu, Lei Li*(李磊), Ching-Yu Chiang*(蔣慶有), Liqiang Mai*(麥立強), and Shenghua Chen*(陳聖華), "*Planar Chlorination Engineering Induced Symmetry-broken Single-atom Site Catalyst for Enhanced CO_2 Electroreduction*", Nat. Commun. **16**, 1652 (2025). (I.F.=15.700) ★

17. Xing Zhou, Chia-Yu Chang, Dongfang Yu, Kai Zhang, Zhi Li, Shi-Kai Jiang, Yizhou Zhu*(朱一舟), Yongyao Xia*(夏永姚), Bing Joe Hwang*(黃炳照), and Yonggang Wang*(王永剛), "*Li_2ZrF_6 Protective Layer Enabled High-voltage $LiCoO_2$ Positive Electrode in Sulfide All-solid-state Batteries*", Nat. Commun. **16**, 112 (2025). (I.F.=15.700)★

18. Dessalew Dagnew Alemayehu, Meng-Che Tsai*(蔡孟哲), Meng-Hsuan Tsai(蔡孟軒), Chueh-Cheng Yang(楊爵丞), Chun-Chi Chang(張俊棋), Chia-Yu Chang, Endalkachew Asefa Moges, Keseven Lakshmanan, Yosef Nikodimos, Wei-Nien Su*(蘇威年), Chia-Hsin Wang*(王嘉興), and Bing Joe Hwang*(黃炳照), "*Heterogeneous Interfaces of Ni_3Se_4 Nanoclusters Decorated on a Ni_3N Surface Enhance Efficient and Durable Hydrogen Evolution Reactions in Alkaline Electrolyte*", J. Am. Chem. Soc. **147**, 16047 (2025). (I.F.=15.600)★

19. Jiali Wang, Hui Ying Tan, Chia-Shuo Hsu, You-Chiuan Chu, Ching-Wei Chan, Kuan-Hsu Chen, Xuan-Rou Lin, Yi-Chun Lee, Hsiao-Chien Chen, and Hao Ming Chen*(陳浩銘), "*Adapting Atomic Configuration Steers Dynamic Half-occupied State for Efficient CO_2 Electroreduction to CO*", J. Am. Chem. Soc. **147**, 13027 (2025). (I.F.=15.600)★

20. Pei-Yu Chuang*(莊霈于), Jung-Chun-Andrew Huang*(黃榮俊), Ashish Atma Chainani*(查里), Hua-Shu Hsu, Yen-Fa Liao(廖彥發), Chang-Yi Sung, Chih-Hua Liu, Chien-Yu Liao, Chi-Hsuan Lee, and Ku-Ding Tsuei(崔古鼎), "*An "s-electron" Donor Band Driven Metallic Ferromagnetism in Co-doped ZnO Films*", Adv. Sci. **12**, e08148 (2025). (I.F.=14.100)★

21. Lian-Ming Lyu, Yu-Chung Chang, Han-Jung Li, Pei-En Wang, Ruei-Hung Juang, Ming-Yen Lu, Cheng-Shiuan Li, and Chun-Hong Kuo*(郭俊宏), "*Turning the Surface Electronic Effect Over Core-shell CoS_2-$Fe_xCo_{1-x}S_2$ Nanooctahedra Toward Electrochemical Water Splitting in the Alkaline Medium*", Adv. Sci. **12**, 2411622 (2025). (I.F.=14.100)★

22. Wei-Chung Pan, Cheng-Hung Luo, Wen-Ling Lin, Liu-Chun Wang, Divinah Manoharan, Po-Ya Chang(張博雅), Hwo-Shuenn Sheu*(許火順), Chen-Hao Yeh*(葉丞豪), Chia-Jui Yen*(顏家瑞), and Chen-Sheng Yeh*(葉晨聖), "*Enhanced Catalytic Cycle of Glucose Oxidation and Reactive Species with ROS and RHS Generation Mediated by Galvanic Engineering of Dual Atomic Sites on Covalent Organic Frameworks Demonstrating Synergistic Bimetal Tumor Treatment*", Adv. Sci. **12**, e00515 (2025). (I.F.=14.100)★

23. Gashahun Gobena Serbessa, Yosef Nikodimos, Bereket Woldegbreal Taklu, Semaw Kebede Merso, Zabish Bilew Muche, Berhanu Degagsa Dandena, Saravanan Ashok Vallal, Tsung-I Yeh, Felika Valencia, Yi-Fen Hung, Jui-Hung Hsu, Chi-Ming Lee, She-Huang Wu*(吳溪煌), Wei-Nien Su*(蘇威年), Chun-Chen Yang*(楊純誠), Bing Joe Hwang*(黃炳照), "*Stabilizing the Interface Between Li_6PS_5Cl Argyrodite Sulfide Solid Electrolyte and Li via In Situ Formed LiF-Li_3Bi Lithiophobic-lithiophilic Bifunctional Layer*", Energ. Environ. Mater. **76**, 104103 (2025). (I.F.=14.100)★

24. Song-Chi Chen, Shih-Wei Lin, Shao-Lun Chang, Ying-Rui Lu*(盧英睿), Chih-Jung Chen*(陳致融), "*Efficient H_2O_2 Electrosynthesis via Strategic Regulation of Sulfur Coordination in Single-atom Catalysts*", Chem. Eng. J. **521**, 166571 (2025). (I.F.=13.200)★

25. Abebe Taye Fenta, Yosef Nikodimos, Semaw Kebede Merso, Ayenew Meniber, Misganaw Adigo Weret, Kassie Nigus Shitaw, Bereket Woldegbreal Taklu, Felika Valencia, Tsung-I Yeh, Chia Lung Hsieh, Chia-Yu Chang, Ya-Jun Liu, Ching Ying Chen, Hsuan-Hsuan Su, She-Huang Wu, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Boosting Anode Interfacial Stability in All-solid-state Lithium Hybrid Batteries with MCMB-modified Stainless Steel Current Collector*", Chem. Eng. J. **510**, 161439 (2025). (I.F.=13.200)★

26. Chemeda Barasa Guta, Chia-Yu Chang, Fikiru Temesgen Angerasa, Baru Debtera Bejena, Habib Gemechu Edao, Woldesenbet Bafe Dilebo, Endalkachew Asefa Moges, Meng-Che Tsai*(蔡孟哲), Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Decisive Electrocatalyst of Oxyphilic Transition Metals with Bivalent Metal Perovskites: Localized Oxygen Confinement for Enhanced 2e-WOR in H_2O_2 Production*", Chem. Eng. J. **524**, 169336 (2025). (I.F.=13.200)★

27. Shih-Wei Lin, Song-Chi Chen, Ying-Rui Lu*(盧英睿), Chih-Jung Chen*(陳致融), "*Stepwise chemical-electrochemical cycles for decoupling modular biomass oxidation and hydrogen evolution*", Chem. Eng. J. **505**, 158764 (2025). (I.F.=13.200)★

28. Peng Liu, Jian-Rong Chen, Fei Du, Lian Duan, Wuqing Luo, Gen Chen, Xiaohe Liu, Renzhi Ma, Hongmei Li*(李紅梅), Ting-Shan Chan*(詹丁山), Min Liu, and Ning Zhang*(張寧), "*Interfacial Cation-driven Bond-length Engineering for Selective CO_2 Photoreduction to Syngas*", ACS Catalysis **15**, 20899 (2025). (I.F.=13.100)★

29. Cun Chen, Zhen Xu, Guangtong Hai*(海廣通), Wei-Hsiang Huang*(黃偉翔), Chih-Wen Pao(包志文), Hanjun Li, Kezhu Jiang, Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "*Tailoring the d-band Center of High-entropy Perovskite Oxide Nanotubes for Enhanced Nitrate Electroreduction*", Small **21**, 2407964 (2025). (I.F.=12.100)★

30. Zhen Huang, Ting Zhu*(朱挺), Hui Fu, Liheng Guan, Hanjun Li, Wei-Hsiang Huang*,(黃偉翔) Chun-Chi Chang, Min-Hsin Yeh, Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "*Lattice-strained Pd@Pd-Cu Core-shell Metallene Aerogels for Electrocatalytic Acetonitrile to Ethylamine*", Small **21**, e10244 (2025). (I.F.=12.100)★

31. Haoyun Wei, Chen Wang, Xiaolu Ye, Ling Gao, Tan Wang, Wei-Hsiang Huang*(黃偉翔), Cong Feng*(馮聰), Wei-Sheng Liao, Min-Hsin Yeh, Guo-Xing Miao, and Jing Fu*(傅婧), "*Surface Electric Field Shielding for Passivation-free Zinc Anode Dissolution in Alkaline Batteries*", Small **21**, 2502237 (2025). (I.F.=12.100)★

32. Po-Chih Chu, Sy-Yuan Kang, Mei-Ling Yu, Ya-Ping Liu, Yun-Hsuan Chen, Yi-Chun Hsu, Hyeonseok Lee, Ching-Yu Chiang*(蔣慶有), Hsun-Yun Chang, Wei-Hsuan Hung*(洪緯璿), and Wei-Chun Lin*(林煒淳), "*Ammonia Decomposition and Hydrogen Production via Novel FeCoNiCuMnO High-entropy Ceramic Catalysts*", npj Clean Water **8**, 92 (2025). (I.F.=11.400)★

33. Yu-Min Hu*(胡裕民), Nai-Yun Chen, Pei-Yu Chuang*(莊霈于), Chih-Ming Lin, Mon-Shu Ho, Phuoc Huu Le, Shu-Cyuan Wu, Chin-Hau Chia, Tai-Chun Han, Sheng-Rui Jian*(簡賸瑞), "*Structure-property Correlation and Resistive Switching Mechanism of Amorphous and Partially Crystalline Ta_2O_5 Memristors Revealed by In-situ XPS and XAS*", Mater. Today Phys. **59**, 101924 (2025). (I.F.=9.700)★

34. Shadab Ali Ahmed, Tripti Agnihotri, Ashok Ranjan, Chia-Yu Chang, Chun-Chi Chang, Rehbar Hasan, Yosef Nikodimos, Teklay Mezgebe Hagos, She-Huang Wu*(吳溪煌), Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Boosting Stability in Ni-rich Cathodes: a Synergistic Approach to Surface and Bulk Modifications for Advanced Lithium-ion Batteries*", J. Mater. Chem. A **13**, 14846 (2025). (I.F.=9.500)★

35. Yujie Cui, Yihong Liu, Jiayi Li, Haibin Ma, Tingting Pan, Hainan Wei, Xinyue Shi, Xiaoyan Zhou, Ping Zhang, Weixing Niu, Shengnan Sun, Menghao Yang, Wei-Hsiang Huang*(黃偉翔), Jiwei Ma, and Hongfei Cheng*(程洪飛), "*Synthesis of MnM-NC (M=Ga, In, Sn) Dual-singleatom Catalysts for Efficient Electrocatalytic Oxygen Reduction*", J. Mater. Chem. A **13**, 34447 (2025). (I.F.=9.500)★

36. Nut Thanasuwannakul, Chueh-Cheng Yang, Pantita Prapamonton, Chia-Hsin Wang*(王嘉興), Nguyet N. T. Pham*, and Yu-Hsu Chang*(張裕煦), "*Insight into the Oxygen Evolution Reaction Mechanism Catalyzed by Phosphate-*

substituted $FeCo_2O_4$ Nanosheets: Proton-coupled Electron Transfer Assisted Adsorbate Evolution Mechanism Investigated by in Situ NAP-XPS", J. Mater. Chem. A **13**, 29900 (2025). (I.F.=9.500)★

37. Chi-Chun Tseng, Li-Lun Yeh, Chen-Yu Chang, Ching-Li Huang, Chia-Lin Tsai, Yung-Jing Xue, Fang-Chung Chen, Chain-Shu Hsu, Ta-Ya Chu, Jianping Lu, U.-Ser Jeng*(鄭有舜), and Yen-Ju Cheng*(鄭彥如), "*A C_6F_5-functionalized Benzimidazole Acceptor Enabling Supramolecular Fluorinated Interactions for Enhanced Photovoltaic Performance and Thermal Stability*", J. Mater. Chem. A **13**, 20519 (2025). (I.F.=9.500)★

38. I-Chia Chiu*(邱奕嘉), Ching-Yu Chiang, Hsin-Ya Chang, Chia-Tzu Li, Hung-Yi Chi, Hsin-Chang Huang, Paichun Chang, Yun-Tse Wang, Ray Lee, I-Yu Tsao, Chao-Lung Chiang, Bor Kae Chang*(張博凱), Yan-Gu Lin*(林彥谷), Wei Hsuan Hung*(洪緯璿), "*Advanced High Entropy Oxides for Seawater Splitting*", Sustain. Mater. Technol. **45**, e01515 (2025). (I.F.=9.200)★

39. Kuan-Chang Wu, Je-Wei Chang, Yi-Chia Chen, Yu-Dian Chen, Jou-Chun Lin, Ying-Huang Lai, Chun-Jen Su*(蘇群仁), and Di-Yan Wang*(王迪彥), "*Unveiling the Mysterious Structure Growth of 2D and 3D All-inorganic Perovskite Nanocrystals in Solution Phase Dynamically by Using Small-wide Angle X-ray Scattering Spectroscopy*", Small Methods **9**, 2500065 (2025). (I.F.=9.100)★

40. Lammi Terefe Kitaba, Yosef Nikodimos, Semaw Kebede Merso, Bereket Woldegbreal Taklu, Gashahun Gobena Serbessa, Woldesenbet Bafe Dilebo, Tsung-I Yeh, Joshua Alexander Iskandar, Felika Valencia, Chia-Yu Chang, Chia Lung Hsieh, Shawn D. Lin*(林昇佃), She-Huang Wu*(吳溪煌), Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Overcoming Chemo-mechanical Instability at Silicon-solid Electrolyte Interfaces in Solid-state Batteries*", ACS Appl. Mater. Interfaces **17**, 60411 (2025). (I.F.=8.200)★

41. Chien-Lung Wang*(王建隆), Wei-Tsung Chuang*(莊偉綜), Mu-Tzu Lee, Yong-Rui Wang, Shih-Yong Chen, Hung-Ju Huang, Shao-Yuan Liu, Jhih-Min Lin(林智敏), Chun-Yu Chen(陳軍佑), Yao-Chang Lee(李耀昌), and U-Ser Jeng(鄭有舜), "*Deactivating Symmetry Breaking of a Soft Frank-Kasper Phase via Water-induced Conformational Ordering of a Shapeshifting Dendritic Amphiphile*", ACS Appl. Mater. Interfaces **17**, 31403 (2025). (I.F.=8.200)★

42. Fikiru Temesgen Angerasa, Endalkachew Asefa Moges, Chia-Yu Chang, Keseven Lakshmanan, Tesfaye Alamirew Dessie, Wei-Hsiang Huang, Habib Gemechu Edao, Woldesenbet Bafe Dilebo, Chemeda Barasa Guta, Chun-Chi Chang, Wei-Sheng Liao, Jung Shen, Nigus Gabbiye Habtu*, Meng-Che Tsai*(蔡孟哲), Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Selective Electrochemical Reduction of CO_2 to Ethanol on a Heteroatom-coordinated Dual-atom Catalyst of Fe/Cu-NC*", Chem. Mater. **37**, 2474 (2025). (I.F.=7.000)★

43. Yosef Nikodimos*, Bereket Woldegbreal Taklu, Chia-Yu Chang, Kassie Nigus Shitaw, Teklay Mezgebe Hagos, Zabish Bilew Muche, Siyanand Kumar Chaudhary, Gashahun Gobena Serbessa, Tsung-I Yeh, Semaw Kebede Merso, Shadab Ali Ahmed, Jia-Min Ke, Endalkachew Asefa Moges, Sheng-Chiang Yang, She-Huang Wu, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Unveiling the Chemical Stability and Solvent Compatibility of Halide Solid-state Electrolytes: Insights from Isothermal Calorimetric Titration and Synchrotron Spectroscopy*", Chem. Mater. **37**, 7622 (2025). (I.F.=7.000)★

44. Su Ling Cheng(鄭淑齡), Hung Wei Shiu(許紘瑋), Yu-Ling Lai(賴玉鈴), Kuang-Yen Chiu, Jeng-Han Wang*(王禎翰), Yi-Ying Chin*(秦伊瑩), Yu-Hsiang Hsieh, Li-Chung Yu, Wan-Ting Chen(陳琬婷), Tzu-Hung Chuang(莊子弘), Der-Hsin Wei(魏德新), Yao-Jane Hsu*(許瑤真), "*Magnetic Exchange Interaction at the Heterostructure of Tris(8-hydroxyquinoline)Iron with Different Coordination Symmetry and Valence States on Ni Ferromagnetic Surface*", Appl. Surf. Sci. **710**, 163903 (2025). (I.F.=6.900)★

45. Eunji Lim, Ha Heun Lee, Seungho Hong, Seungyeon Lee, Woohyun Cho, Jaeyoon Baik, Heejun Yang, Hyobin Yoo*, Ching-Yu Chiang*(蔣慶有), Suyeon Cho*, "*Laser-patterned 2D Transparent Amorphous Phase*", Appl. Surf. Sci. **696**, 162925 (2025). (I.F.=6.900)★

46. Sat Septian Dwitya, Kuen-Song Lin*(林錕松), Lee-Jene Lai*(賴麗珍), Ndumiso Vukile Mdlovu, Zi-Jing Lin*(林子敬), Chia-Chun Hsieh(謝嘉濬), Mo Da-Sang Hua(華莫達桑), "*Intracellular Trafficking of Nanostructured MOF-303 for Targeted Liver Cancer Therapy: A Study Using Soft X-ray Tomography*", Mater. Today Chem. **47**, 102793 (2025). (I.F.=6.700)★

47. Wan-Zhen Hsieh*(謝宛蓁), Pei-Tzu Lee, Cheng-Yu Lee, Yu-Hsuan Huang, Ching-Yu Chiang(蔣慶有), Cheng-En Ho*(何政恩), "*In-situ Synchrotron X-ray Study on Microstructure and Stress Evolutions of Electroplated Copper Upon Self-annealing*", J. Taiwan Inst. Chem. Eng. **174**, 106194 (2025). (I.F.=6.300)★

48. Li-Jie Liaw, Zi-Qi Liu, Muhammad Raheel, Po-Wei Chen, Sora Obinata, Po-Chun Chang, Po-Hsiang Hsu, Yung-Yuan Hsu, Takashi Kimura, Yu-Cheng Shao*(邵禹成), Wen-Chin Lin*(林文欽), "*Hydrogen Absorption-induced Rotation of*

Magnetic Anisotropy and Tunable Electrical Transport in FePd Alloy Thin Films", J. Alloy. Compd. **1014**, 178748 (2025). (I.F.=6.300)★

49. J. Okamoto(岡本淳), G. Shibata, Yu. S. Ponosov, H. Hayashi, K. Yamaura, H. Y.Huang(黃筱妤), A. Singh(辛艾蒙), C. T. Chen(陳建德), A. Tanaka, S. V. Streltsov*, D. J. Huang*(黃迪靖), and A. Fujimori*, "*Spin-orbit-entangled State of Ba_2CaOsO_6 Studied by O K-edge Resonant Inelastic X-ray Scattering and Raman Spectroscopy*", npj Quantum Mater. **10**, 44 (2025). (I.F.=6.200)★

50. Mei-Ching Yu*(余美靜), Xiang-Di Huang, Chin-Wei Kuo(郭晉維), Kai-Fu Zhang(張凱富), Ping-Chung Liang(梁秉中), U-Ser Jeng(鄭有舜), Pei-Yu Huang(黃佩瑜), Frederick Wai Keung Tam, and Yao-Chang Lee*(李耀昌), "*Developing a Label-free Infrared Spectroscopic Analysis with Chemometrics and Computational Enhancement for Assessing Lupus Nephritis Activity*", Biosensors-Basel **15**, 39 (2025). (I.F.=5.600)★

51. Tzu-Hung Chuang(莊子弘), Heng-Wen Wei(魏恒文), Wei-Sheng Chiu, Chuan-Che Hsu, Fan Zhang, Yaxing Li, Wei-Ting Hsu, Jyun-Syong Jhuang, Chengye Dong, Joshua A. Robinson, Yu-Chuan Lin, Der-Hsin Wei*(魏德新), and Chih-Kang Shih*(施至剛), "*Momentum Microscopy Investigation of the Local Band Structure of Monolayer WSe_2 Flakes: Toward Optoelectronic Device in Quantum Size*", ACS Appl. Nano Mater. **8**, 23164 (2025). (I.F.=5.500)★

52. Thi Thu Mai, Jin-Ji Dai, Ching-Yu Chiang*(蔣慶有), and Wu-Ching Chou*(周武清), "*Layer-wise Dislocation Distribution and Stress Evolution in a GaN-based High Electron Mobility Transistor Studied by X-ray Nanodiffraction*", ACS Appl. Nano Mater. **8**, 15187 (2025). (I.F.=5.500)★

53. Ying-Jen Shiu(許瑛珍), Bradley W. Mansel, Kuei-Fen Liao(廖桂芬), Ting-Wei Hsu(許庭瑋), Je-Wei Chang(張哲瑋), Orion Shih(施怡之), Yi-Qi Yeh(葉奕琪), Johannes Allwang, and U-Ser Jeng*(鄭有舜), "*Revealing the Solution Conformation and Hydration Structure of Type I Tropocollagen Using X-ray Scattering and Molecular Dynamics Simulation*", Biomacromolecules **26**, 449 (2025). (I.F.=5.400)★

54. Chia-Chun Lin, Suhendro Purbo Prakoso, Livy Laysandra, Ming-Hao Chang, Hai-I Jo, Yen-Ting Li, Kai-Lin Chen, Chun-Yu Chen(陳軍佑), Lewis M. Cowen, Eisuke Fujiwara, Audithya Nyayachavadi, Simon Rondeau-Gagné, Bob C. Schroeder, Shinji Ando, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin*(林智敏), and Yu-Cheng Chiu*(邱昱誠), "*Altering the Microstructure of Conjugated Polymers in Solution via Microwave Irradiation*", Macromolecules **58**, 7605 (2025). (I.F.=5.200)★

55. Tse-Fu Shen, Yu-Ju Chiang, Yi-Shiue Lin, Chen-Lin Liu*(劉振霖), Yu-Chiao Wang, Kuan-Yi Chou, Cheng-Cheng Tsai, and Wei-Ping Hu*(胡維平), "*Near-edge X-ray Absorption Fine-structure Spectra and Specific Dissociation of Phe-Gly and Gly-Phe*", Int. J. Mol. Sci. **26**, 2515 (2025). (I.F.=4.900)★

56. Mo Da-Sang Hua(華莫達桑), Yi-Hung Lin(林易弘), Chia-Chun Hsieh(謝嘉濬), Chang-Lin Chen(陳昶麟), and Zi-Jing Lin*(林子敬), "*Three Dimensional Visualization of Subcellular and Suborganellar Structures in Near-native Plant Cells by Synchrotron Soft X-ray Tomography*", Front. Plant Sci. **16**, 1705667 (2025). (I.F.=4.800)★

57. Shijin Duan, Hanjun Li, Zhen Huang, Liheng Guan, Ting Zhu*(朱挺), Wei-Hsiang Huang*(黃偉翔), Chun-Chi Chang, Min-Hsin Yeh, Nan Zhang*(張楠), and Tianxi Liu*(劉天西), "*Regulating d-band Center in Pt-Pd Metallene Aerogels for Enhanced Electrochemical Ethanol Reforming to Hydrogen*", Inorg. Chem. **64**, 22132 (2025). (I.F.=4.700)★

58. Biva Talukdar, Chia-Che Chang, Hsing-Ye Chen, Ruei-Hung Juang, Yu-Chung Chang, Cheng-Shiuan Li, Chun-Hong Kuo*(郭俊宏), "*Turning gas/Liquid Product Selectivity in Electrochemical CO_2 Reduction Reaction by Modulating CuPd Nanocages*", Mater. Chem. Phys. **344**, 131191 (2025). (I.F.=4.700)★

59. Bo-Hao Chen(陳柏豪), Satyaranjan Jena, Ya-Ju Chuang, Hsun-Yen Lin, Chih-Hsueh Li, Jyh Ming Wu, and Michael H. Huang*(黃暄益), "*$SrTiO_3$ Cubes and Truncated Rhombic Dodecahedra Exhibiting Large Lattice and Piezoelectric Variations*", J. Phys. Chem. Lett. **16**, 4921 (2025). (I.F.=4.600)★

60. Wen-Jian Huang(黃文建), Sheng-Lung Chou(周勝隆), Chih-Hao Chin(金之豪), Shu-Yu Lin, and Yu-Jong Wu*(吳宇中), "*Infrared Spectroscopic Identification of Mass-selected Benzonitrile Ions in Neon Matrices: Astrochemical Implications*", J. Phys. Chem. Lett. **16**, 5412 (2025). (I.F.=4.600)★

61. Tsung-Hsien Lee, Sheng-Lung Chou(周勝隆), Tzu-Ping Huang(黃自平), Chak-Ming Liu(廖澤銘), Chih-Hao Chin(金之豪), Meng-Yeh Lin(林孟曄), Hui-Fen Chen*(陳慧芬), and Yu-Jong Wu*(吳宇中), "*Spectroscopic Signatures of Interfacial Energy Transfer in MoS_2-based van der Waals Heterostructures Under Deep-UV Excitation*", RSC Adv. **15**, 37183 (2025). (I.F.=4.600)★

62. Carl Osby M. Mariano, Kuan-Hung Chen, Jessie Shiue, Hayato Yuzawa, Tohru Araki, Kumaravelu Thanigai Arul, Chung-Li Dong, Tung-Yuan Yung, Sue-Chi Hsu, Xingke Cai, Shang-Hsien Hsieh*(謝尚憲), and Cheng-Hao

Chuang*(莊程豪), "*Hexagonal BN Membranes Formation by Liquid-phase Synthesis: Insights from Scanning Transmission X-ray Microscopy*", APL Mater. **13**, 101118 (2025). (I.F.=4.500)★

63. Sheng-Lung Chou(周勝隆), Shu-Yu Lin, Yu-Hsin Wu, Tzu-Ping Huang(黃自平), Meng-Yeh Lin(林孟曄), Yin-Yu Lee(李英裕), Shih-Chang Weng*(翁世璋), Hui-Fen Chen*(陳慧芬), Yu-Jong Wu*(吳宇中), "*A Novel Method for Synthesis of Graphene Oxide Thin-film Utilizing Vacuum UV Exposure*", Opt. Mater. **160**, 116697 (2025). (I.F.=4.200)★

64. Sunny Saurabh(索拉布), Umeshwar Reddy Nallasani, Tzu-Chi Huang, Chun-Yen Lin, Yi-Chen Li(李奕辰), Yu-Hao Wu, Chien-Yu Lee(李建佑), Bo-Yi Chen(陳伯毅), Gung-Chian Yin(殷廣鈐), Mau-Tsu Tang(湯茂竹), Wu-Ching Chou*(周武清), Bi-Hsuan Lin*(林碧軒), "*Probing the Peculiar Emission Behaviors of c-Sapphire Wafer and β-Ga_2O_3/c-Sapphire via Hard X-ray Nanoprobe*", Opt. Mater. **163**, 116975 (2025). (I.F.=4.200)★

65. A. Singh(辛艾蒙), H. Y. Huang(黃筱妤), K. Tsutsui, T. Tohyama, S. Komiya, J. Okamoto(岡本淳), C. T. Chen(陳建德), A. Fujimori, and D. J. Huang*(黃迪靖), "*Bimagnon Dispersion of La_2CuO_4 Probed by Resonant Inelastic X-ray Scattering*", Sci. Rep. **15**, 34183 (2025). (I.F.=3.900)★

66. Akhilesh Kr. Singh*, Song Yang, Uddipta Kar, Guan-Ruei Chen, Shih-Chang Weng(翁世璋), Chia-Hung Hsu*(徐嘉鴻), and Wei-Li Lee*(李偉立), "*Evolution of the Structural Phase and Orientation in Ultrathin $SrRuO_3$ Film with $SrTiO_3$ Capping Layer*", Sci. Rep. **15**, 17841 (2025). (I.F.=3.900)★

67. Yi-Ting Yuan, Tzu-Ching Guo, Chu-Ya Wu, Yi-Qi Yeh(葉奕琪), Ching-Tse Wu, Shu-Yao Hsu, Zi-Wen Weng, Meng-Ru Ho, Shang-Te Danny Hsu, Yi-Chen Chen, Chuang-Rung Chang, Kuen-Phon Wu*(吳昆峯), U-Ser Jeng*(鄭有舜), and Shih-Che Sue*(蘇士哲), "*Filamentous Chemokine CCL5 Structure and the Functional Aspects*", Sci. Rep. **15**, 13552 (2025). (I.F.=3.900)★

68. Hao-Hsiang Jia, Yuki Nakata, Seigo Souma, Katsuaki Sugawara, Yang-Hao Chan, Cheng-Maw Cheng(鄭澄懋), Ming-Chang Chen, Takafumi Sato, Chih-Wei Luo(羅志偉), Ashish Chainani(查里), and Ping-Hui Lin*(林秉慧), "*Ultrafast relaxation dynamics and nonequilibrium processes in graphite*", Phys. Rev. B **111**, 195430 (2025). (I.F.=3.700)★

69. Heng-Yi Lin, Huan-Chang Lu, Chih-Hsuan Tsai, Hsueh-Ju Liu, Po-Weng Chung, Wei-Tsung Chuang*(莊偉綜), and Chien-Lung Wang*(王建隆), "*The Roles of Molecular Concavities in the Hierarchical Self-assembly of Giant Tetrahedra for CO_2 Uptake*", Chem.-Eur. J. **31**, e202403348 (2025). (I.F.=3.700)★

70. A. R. Shelke(阿畢吉), C. N. Kuo, Shishir K. Pandey, T. L. Nguyen, Y. X. Chen(陳宥勳), Y. T. Cheng, F. H. Chang(張凡修), M. Yoshimura(吉村政人), N. Hiraoka(平岡望), T. W. Pi(皮敦文), H. J. Lin(林宏基), C. T. Chen(陳建德), A. Fujimori, Priya Mahadevan, C. S. Lue, and A. Chainani*(查里), "*Electron Spectroscopy Study of Single-crystal CrTe*", Phys. Rev. B **111**, 085142 (2025). (I.F.=3.700)★

71. Yu-Chen Chung, Hsin-Fang Chang, Yu-Hsuan Hou, Chih-Chieh Wang*(王志傑), Shih-I Lu*(呂世伊), Gene-Hsiang Lee, Su-Ying Chien, Bo-Hao Chen(陳柏豪), and Yu-Chun Chuang*(莊裕鈞), "*Two Isoreticular 2D Zn(II) Coordination Polymers (CPs) Based on a Flexible Tripodal Thioether-based Pyridyl Ligand and Two V-shaped Dicarboxylate Ligands: Structural Characterization, CO_2 Uptakes, and Water Ad-/Desorption Isotherms*", Cryst. Growth Des. **25**, 7953 (2025). (I.F.=3.400)★

72. Nozomu Hiraoka*(平岡望), "*Cylindrically Bent Laue Analyzer in an X-ray Raman/Emission Spectrometer: Performance Tests and a Comparison with Spherically Bent Bragg Analyzers*", J. Synchrotron Radiat. **32**, 109 (2025). (I.F.=3.000)★

73. Chin-Wei Wang(王進威), Chorng-Shern Horng, and Andrew P. Roberts*, "*Ferrimagnetic Structure of 3C Pyrrhotite (Fe_7S_8) From Neutron Diffraction*", Geochem. Geophy. Geosy. **26**, e2025GC012470 (2025). (I.F.=3.000)★

74. Shu-Yu Lin, Sheng-Lung Chou(周勝隆), Wen-Jian Huang(黃文建), Chih-Hao Chin(金之豪), Chien-Ming Tseng*(曾建銘), and Yu-Jong Wu*(吳宇中), "*Visible Absorption Spectra of Mass-selected Cyanobenzene and Iso-cyanobenzene Cations in Solid Neon*", Phys. Chem. Chem. Phys. **27**, 25405 (2025). (I.F.=2.900)★

75. U-Ser Jeng*(鄭有舜), Jan Ilavsky*, Elliot Paul Gilbert*, Wei-Tsung Chuang*(莊偉綜), and Orion Shih*(施怡之), "*Introduction to the Special Issue Related to the 19th International Small Angle Scattering Conference (SAS2024)*", J. Appl. Crystallogr. **58**, 1513 (2025). (I.F.=2.800)★

76. Jia-Jhen Kang(康佳蓁), Zhih-Chen Huang, Li-Wen Tang, Chun-Jen Su(蘇群仁), Hua-De Gao, Hsien-Ming Lee*(李賢明), and U-Ser Jeng*(鄭有舜), "*Changes of the Lipid Membrane Structures Caused by Chain-length-dependent Doxorubicin Embedment in PEGylated Liposomes*", J. Appl. Crystallogr. **58**, 897 (2025). (I.F.=2.800)★

77. Orion Shih(施怡之), Yu-Chen Feng, Sashank Agrawal, Kuei-Fen Liao, Yi-Qi Yeh(葉奕琪), Je-Wei Chang 張哲瑋), Tsyr-Yan Yu*(余慈顏), and U-Ser Jeng*(鄭有舜), "*Differentiating the Solution Structures and Stability of Transthyretin Tetramer Complexed with Tolcapone and Tafamidis Using SEC-SWAXS and NMR*", J. Appl. Crystallogr. **58**, 1373 (2025). (I.F.=2.800)★

78. Song-Yu Tsai, Wen-Tsung Tseng, Jina-Hua Su, Yu-Hao Wang, Yi-Wei Chang, Chia-Hsin Wang(王嘉興), U-Ser Jeng(鄭有舜), Kuan-Yi Wu*(吳冠毅), Chien-Lung Wang*(王建隆), and Wei-Tsung Chuang*(莊偉綜), "*Optimal st-PMMA/C_{60} Helical Inclusion Complexes via Tunable Energy Landscapes for the Application of an Ag SERS-active Substrate*", J. Appl. Crystallogr. **58**, 553 (2025). (I.F.=2.800)★

79. Thuy Thien Ngan Vo, Yi-Wei Chang, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Chih-Chia Cheng, Ya-Sen Sun*(孫亞賢), and Wei-Tsung Chuang*(莊偉綜), "*Rheo-SAXS Study on Electrically Responsive Hydrogels with Shear-induced Conductive Micellar Networks for On-demand Drug Release*", J. Appl. Crystallogr. **58**, 909 (2025). (I.F.=2.800)★

80. Bing-Xuan Zhong, Lian-Tung Chen, Chia-Yun Lo, Po-Ya Chang(張博雅), Wei-Tsung Chuang*(莊偉綜), Chien-Lung Wang*(王建隆), "*Designing Extrinsic Porosity in Supramolecular Organic Frameworks: Structural Control with Giant Tetrahedral Molecules*", J. Chin. Chem. Soc. **72**, 1119 (2025). (I.F.=1.500)★

81. Sheng-Lung Chou(周勝隆), Chih-Hao Chin(金之豪), J. F. Ogilvie, and Yu-Jong Wu*(吳宇中), "*VUV Photolysis of Silane with Nitric Oxide in Solid Neon*", Low Temp. Phys. **51**, 406 (2025). (I.F.=0.800)★

合作性 之 **SCIE** 論文

1. Zhen Zhang, Zhichu Ren, Chia-Wei Hsu, Weibin Chen, Zhang-Wei Hong, Chi-Feng Lee, Aubrey Penn, Hongbin Xu, Daniel J. Zheng, Shuhan Miao, Yimeng Huang, Yifan Gao, Weiyin Chen, Hugh Smith, Yaoshen Niu, Yunsheng Tian, Ying-Rui Lu(盧英睿), Yu-Cheng Shao(邵禹成), Sipei Li, Hsiao-Tsu Wang, Iwnetim I. Abate, Pulkit Agrawal, Yang Shao-Horn, and Ju Li*, "*A Multimodal Robotic Platform for Multi-element Electrocatalyst Discovery*", Nature **647**, 390 (2025). (I.F.=48.500)☆

2. Ji Yang, Lorenz J. Falling, Siyang Yan, Biluan Zhang, Pragya Verma, Luke Daemen, Yongqiang Cheng, Xiao Zhao, Shuchen Zhang, Jeng-Lung Chen(陳政龍), Bingqing Yao, Shengdong Tan, Sudong Chae, Qian He, Slavomir Nemsak, Zili Wu, David Prendergast*, Yanbing Guo*(郭彥炳), Jiaxu Liu*(劉家旭), Miquel Salmeron*, and Ji Su*(蘇際), "*Formation of Hydrided Pt-Ce-H Sites in Efficient, Selective Oxidation Catalysts*", Science **388**, 514 (2025). (I.F.=45.800)☆

3. Jun Wang, Kang Liu, Wanru Liao, Yicui Kang, Hanrui Xiao, Yingkang Chen, Qiyou Wang, Tao Luo, Jiawei Chen, Hongmei Li, Ting-Shan Chan(詹丁山), Shanyong Chen, Evangelina Pensa, Liyuan Chai, Fangyang Liu, Liangxing Jiang, Changxu Liu, Junwei Fu, Emiliano Cortés, and Min Liu*(劉敏), "*Metal Vacancies in Semiconductor Oxides Enhance Hole Mobility for Efficient Photoelectrochemical Water Splitting*", Nat. Catal. **8**, 229 (2025). (I.F.=44.600)☆

4. Qilun Wang, Sung-Fu Hung, Kejie Lao, Xiang Huang, Fuhua Li, Hua Bing Tao*(陶華冰), Hong Bin Yang, Wei Liu, Weijue Wang, Yaqi Cheng, Nozomu Hiraoka(平岡望), Liping Zhang, Junming Zhang, Yuhang Liu, Jiazang Chen, Yinghua Xu, Chenliang Su, Jingguang G. Chen*, and Bin Liu*(劉彬), "*Breaking the Linear Scaling Limit in Multi-electron-transfer Electrocatalysis Through Intermediate Spillover*", Nat. Catal. **8**, 378 (2025). (I.F.=44.600)☆

5. Yen-Lin Huang*(黃彥霖), Ming Yuan Song, Chien-Min Lee, Yu-Wei Chen, Ching-Yu Chiang(蔣慶有), Shih-Hsiang Chou, Liang-Chao Hsu, Heng-Jui Liu, Guan-Long Chen, Shan-Yi Yang, Yao-Jen Chang, I-Jung Wang, Yu-Chen Hsin, Yi-Hui Su, Jeng-Hua Wei, Fen Xue, Shan X. Wang, and Xinyu Bao, "*A 64-kilobit Spin-orbit Torque Magnetic Random-access Memory Based on Back-end-of-line-compatible β-tungsten*", Nat. Electron. **8**, 794 (2025). (I.F.=40.900)☆

6. Che-Yi Lin*(林哲儀), Bo-Cia Chen, Yu-Chen Liu, Shang-Fu Kuo, Hsien-Chi Tsai, Yuan-Ming Chang*(張原銘), Chang-Yang Kuo(郭昌洋), Chun-Fu Chang, Jyun-Hong Chen, Ying-Hao Chu, Mahito Yamamoto, Chang-Hong Shen, Yu-Lun Chueh, Po-Wen Chiu, Yi-Chun Chen, Jan-Chi Yang*(楊展其), and Yen-Fu Lin*(林彥甫), "*Integration of Freestanding Hafnium Zirconium Oxide Membranes into Two-dimensional Transistors as a High-κ Ferroelectric Dielectric*", Nat. Electron. **8**, 560 (2025). (I.F.=40.900)☆

7. Jin An Sam Oh, Zihan Yu, Chen-Jui Huang, Phillip Ridley, Alex Liu, Tianren Zhang, Bing Joe Hwang(黃炳照), Kent J. Griffith*, Shyue Ping Ong*, and Ying Shirley Meng*, "*Metastable Sodium Closo-hydridoborates for All-solid-state Batteries with Thick Cathodes*", Joule **9**, 102130 (2025). (I.F.=35.400)☆

8. Yan Wen, Changhong Zhan, Jiacheng Liu, Xinxin Zhuang, Siyu Liu, Tang Yang, Wenqiang Liu, Xiaozhi Liu, Cheng-Wei Kao(高振瑋), Yu-Cheng Huang(黃裕呈), Ting-Shan Chan(詹丁山), Zhiwei Hu, Dong Su, Jiajia Han, Nanjun

Chen*(陳南君), and Xiaoqing Huang*(黃小青), "*Zeolite-confined Cu Single-atom Clusters Stably Catalyse CO to Acetate at 1 A cm^{-2} Beyond 1,000 h*", Nat. Nanotechnol. **20**, 656 (2025). (I.F.=34.900)☆

9. Lebin Cai, Haoyun Bai, Jilong Li, Feng Xie, Kang Jiang, Ying-Rui Lu(盧英睿), Hui Pan, and Yongwen Tan*(譚勇文), "*Single-atom Tungsten Doping Induced Chemical-electrochemical Coupled Pathway on Ni(OH)$_2$ Enables Efficient Urea Electrooxidation*", Energ. Environ. Sci. **18**, 2415 (2025). (I.F.=30.800)☆

10. Yalei Fan, Jianfa Zhao, Jing Zhou, Wei-Hsiang Huang(黃偉翔), Jianqiu Zhu, Chang-Yang Kuo(郭昌洋), Shengjie Zhang, Chih-Wen Pao(包志文), Ting-Shan Chan(詹丁山), Yuxuan Zhang, Su-Yang Hsu, Jin-Ming Chen, Chien-Te Chen(陳建德), Changqing Jin, Liu Hao Tjeng, Jian-Qiang Wang*(王建強), Zhiwei Hu*(胡志偉), and Linjuan Zhang*(張林娟), "*Self-assembled Metal Cluster/Perovskite Catalysts for Efficient Acidic Hydrogen Production with an Ultra-low Overpotential of 62 mV and Over 1500 Hours of Stability at 1 A cm^{-2}*", Energ. Environ. Sci. **18**, 7527 (2025). (I.F.=30.800)☆

11. Jiacheng Liu, Yan Wen, Wei Yan, Zhongliang Huang, Xiaozhi Liu, Xuan Huang, Changhong Zhan, Yuqi Zhang, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu, Dong Su, Shunji Xie, Ye Wang, Jiajia Han*(韓佳甲), Haifeng Xiong*(熊海峰), Xiaoqing Huang*(黃小青), and Nanjun Chen*(陳南君), "*Single-atom Mediated Crystal Facet Engineering for the Exceptional Production of Acetate in CO Electrolysis*", Energ. Environ. Sci. , (2025). (I.F.=30.800)☆

12. Junfeng Luo, Gi-Hyeok Lee, Seongkoo Kang, Jiliang Zhang*(張吉亮), Chi-Liang Chen(陳啟亮), Chung-Kai Chang(張仲凱), Zheng-Yao Li, Ronghua Zeng, Hong Li, Jialu Li, Ruirui Zhao*(趙瑞瑞), Qifeng Zheng, and Yong-Mook Kang*, "*Mitigating Chemo-mechanical Heterogeneity of Ni-rich Layered Cathodes Through the Regulated Medium-range Order by Doping*", Energ. Environ. Sci. **18**, 4753 (2025). (I.F.=30.800)☆

13. Ho Ming Ng, Bosen Zou, Aleksandr Sergeev, Yuang Fu, Pok Fung Chan, Zefan Yao, Qingyuan Wang, Zhengkai Li, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Xiaotian Hu, Gang Li, Xinhui Lu, Kam Sing Wong, Zhi-Guo Zhang, Yiwang Chen, Wai-Yeung Wong*(黃維揚), Han Yu*(于涵), and He Yan*(顏河), "*Improved Efficiency and Stability of Outdoor and Indoor Organic Photovoltaics with Suppressed Voltage Loss via Alkoxylation on Dimeric Giant Acceptors Featured as Supramolecular Stabilizers*", Energ. Environ. Sci. **18**, 6587 (2025). (I.F.=30.800)☆

14. Vincent C. Wu, Erick A. Lawrence, Tianyu Li, Euan N. Bassey, Chia-Yu Chang, Bing Joe Hwang(黃炳照), Pierre-Etienne Cabelguen, and Raphaele J. Clement*, "*High Energy Density and Micrometer-sized d^0-free Disordered Rocksalt Cathodes*", Energ. Environ. Sci. **18**, 8918 (2025). (I.F.=30.800)☆

15. Linjie Zhang, Yimeng Cai, Yanghua Li, Chen Sun, Yi Xiao, Yibing Yang, Dechao Chen, Dongdong Xiao, Chi-Feng Lee, Yunjian Wang, Shiqiang Feng, Hsiao-Tsu Wang, Yu-Cheng Shao(邵禹成), Ting-Shan Chan(詹丁山), Hirofumi Ishii(石井啟文), Nozomu Hiraoka(平岡望), Xiuyun Wang, Jun Luo, and Lili Han*(韓麗麗), "*Unlocking High-current-density Nitrate Reduction and Formaldehyde Oxidation Synergy for Scalable Ammonia Production and Fixation*", Energ. Environ. Sci. **18**, 2804 (2025). (I.F.=30.800)☆

16. Ching-Wei Tung, Wei Zhang*(蔣偉), Tai Ying Lai, Jiali Wang, You-Chiuan Chu, Guan-Bo Wang, Chia-Shuo Hsu, Yen-Fa Liao(廖彥發), Nozomu Hiraoka(平岡望), Hirofumi Ishii(石井啟文), Xiao Cheng Zeng*(曾曉成), Hao Ming Chen*(陳浩銘), "*Spin Crossover-driven Diiron Electrocatalyst Boosts Sustainable Water Oxidation*", Nat. Sustain. **8**, 793 (2025). (I.F.=27.100)☆

17. Dechao Chen, Yimeng Cai, Yi Xiao, Chengqiang Wang, Yong Li, Ke Ma, Dongdong Xiao, Hsiao-Tsu Wang, Chi-Feng Lee, Linjie Zhang, Hirofumi Ishii(石井啟文), Yu-Cheng Shao(邵禹成), Nozomu Hiraoka(平岡望), Lili Han*(韓麗麗), Xueming Liu*(劉學明), and Huolin L. Xin, "*Electrosynthesis of Urea on High-density Ga-Y Dual-atom Catalyst via Cross-tuning*", Adv. Mater. **37**, 2420593 (2025). (I.F.=26.800)☆

18. Yan Chen, Zheng Tang, Zuoqing Liu, Wei-Hsiang Huang(黃偉翔), Min-Hsin Yeh, Chih-Wen Pao(包志文), Huanhuan Tao, Mingkai Xu, Zhongliang Dong, Lingjie Yuan, Mingjie Pu*, Bowen Li, Guangming Yang, Yufeng Guo, Zhiwei Hu, and Yinlong Zhu*(朱印龍), "*Toward the Ideal Alkaline Hydrogen Evolution Electrocatalyst: a Noble Metal-free Antiperovskite Optimized with A-site Tuning*", Adv. Mater. **37**, 2504607 (2025). (I.F.=26.800)☆

19. Yang Cheng*, Hanshen Huang, Junyu Tang, Joseph Lanier, Katelyn Lazareno, Hao-Kai Chang, Shang-Jui Chiu(邱上睿), Chao-Yao Yang, Fengyuan Yang, Ran Cheng, and Kang L. Wang*, "*Observation of Real-time Spin-orbit Torque Driven Dynamics in Antiferromagnetic Thin Film*", Adv. Mater. **37**, 2417240 (2025). (I.F.=26.800)☆

20. Daqin Guan, Hengyue Xu, Yu-Cheng Huang(黃裕呈), Chao Jing, Yoshihiro Tsujimoto, Xiaomin Xu, Zezhou Lin, Jiayi Tang, Zehua Wang, Xiao Sun, Leqi Zhao, Hanwen Liu, Shangheng Liu, Chien-Te Chen(陳建德), Chih-Wen Pao(包志文), Meng Ni, Zhiwei Hu*(胡志偉), and Zongping Shao*(邵宗平), "*Operando Studies Redirect Spatiotemporal*

Restructuration of Model Coordinated Oxides in Electrochemical Oxidation", Adv. Mater. **37**, 2413073 (2025). (I.F.=26.800)☆

21. Gang Sun, Hsiao-Tsu Wang*(王孝祖), Chi-Fang Lee, Qingjun Zhu, Lijun Gao, Shang-Hsien Hsieh(謝尚憲), Yu-Cheng Shao(邵禹成), Hirofumi Ishii(石井啟文), Jigang Zhou*, Jian Wang*, and Zhenbo Wang*(王振波), "*Visualization of Thermal-induced Degradation Pathways of High-Ni Cathode: a Comparative Study in Solid Chloride and Liquid Electrolytes*", Adv. Mater. **37**, e10392 (2025). (I.F.=26.800)☆

22. Qun Wang, Jinxin Chen, Shiya Chen, Dingyanyan Zhou, Yutong Du, Yujin Ji*(紀玉金), Yutian Xiong, Jia Ke, Wenxiang Zhu, Yue Wang, Dongdong Gao, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Yang Sun, Youyong Li, Mingwang Shao, Zhiwei Hu(胡志偉), Xiaoqing Huang*(黃小青), and Qi Shao*(邵琪), "*2D Metastable-phase Hafnium Oxide Triggers Hydrogen Spillover for Boosting Hydrogen Production*", Adv. Mater. **37**, 2415978 (2025). (I.F.=26.800)☆

23. Xunlu Wang, Jiacheng (Jayden) Wang, Huashuai Hu, Congling Yin, Lo-Yueh Chang(張羅嶽), Ye Zhu, Jiacheng Wang*(王家成), and Minghui Yang*(楊明輝), "*Harnessing Spin-lattice Interplay in Metal Nitrides for Efficient Ammonia Electrosynthesis*", Adv. Mater. **37**, 2504505 (2025). (I.F.=26.800)☆

24. Zhongqiang Wang, Qi Kang, Yuwei Chen, Xueying Zheng, Yangyang Huang*(黃洋洋), Shu-Chih Haw(何樹智), Haifeng Wang, Zhiwei Hu*(胡志偉), Wei Luo*(羅巍), "*Extended-life SiO_x/C||Ni-rich NCM Batteries Enabled by Inner Helmholtz Plane Modulation with a Self-assembled Monolayer*", Mater. Sci. Eng. R-Rep. **163**, 100948 (2025). (I.F.=26.800)☆

25. Tong Wu, Xingyu Wang, Qin Yang, Bingqing Wang, Ruoou Yang, Shin-An Chen(陳興安), Lo-Yueh Chang(張羅嶽), Sibo Wang, Fuqiang Huang*(黃富強), Ziyun Wang*, and Yanwei Lum*, "*Modulating Single-atom Pt Coordination for Enhanced Low-temperature Ammonia Fuel Cell Electrocatalysis*", Adv. Mater. **37**, e08371 (2025). (I.F.=26.800)☆

26. Ziwei Xiang, Ying-Rui Lu(盧英睿), Linghu Meng, Jiao Lan, Feng Xie, Shanqiang Gao, Jilong Li, Min Luo*(羅琳), Ming Peng*(彭鳴), and Yongwen Tan*(譚勇文), "*Active Hydrogen Enrichment on Cu_6Sn_5-type High Entropy Intermetallics for Efficient Nitrate Reduction Reaction*", Adv. Mater. **37**, 2501886 (2025). (I.F.=26.800)☆

27. Zhenjie Zhang, Yixin Li, Xi Shen, Lu Yang, Chu Zhang, Yuan Liu, Bowen Wang, Chang-Yang Kuo(郭昌洋), Shu-Chih Haw(何樹智), Chien-Te Chen(陳建德), Chi-Wen Pao(包志文), Hsiao-Yu Huang(黃筱妤), Di-Jing Huang(黃迪靖), Jiangwei Ju, Jun Ma, Zhiwei Hu, Yurui Gao*(高玉瑞), Xuefeng Wang*(王雪鋒), Richeng Yu, Zhaoxiang Wang*(王兆翔), and Liquan Chen, "*Breaking the Vicious Spiral to Suppress Oxygen Loss in Li-rich Oxide Cathode Materials*", Adv. Mater. **37**, 2505724 (2025). (I.F.=26.800)☆

28. Yin'an Zhu, Fei Wu, Xiaozan Zhang, Yichao Lin*(林貽超), Linjuan Zhang, Ting-Shan Chan(詹丁山), Qiuju Zhang*(張秋菊), and Liang Chen*(陳亮), "*Engineering Lattice Distortion in Ruthenium Oxide Enables Robust Acidic Water Oxidation via Direct O-O Coupling*", Adv. Mater. **37**, 2500449 (2025). (I.F.=26.800)☆

29. Yan Chen, Zuoqing Liu, Bin Chen, Wei-Hsiang Huang(黃偉翔), Zheng Tang, Mingkai Xu, Min-Hsin Yeh, Chih-Wen Pao(包志文), Mingjie Pu*, Guangming Yang, Yufeng Guo, Zhiwei Hu, and Yinlong Zhu*(朱印龍), "*A-site Cation Deficiency in Antiperovskites for Precisely Accelerating the Volmer Step of Alkaline Hydrogen Evolution*", Adv. Energy Mater. **15**, e03319 (2025). (I.F.=26.000)☆

30. Yalei Fan, Xubin Ye, Jing Zhou, Dabiao Lu, Chang-Yang Kuo(郭昌洋), Yu-Cheng Huang(黃裕呈), Ting-Shan Chan(詹丁山), Chien-Te Chen(陳建德), Youwen Long*(龍有文), Jian-Qiang Wang*(王建強), Zhiwei Hu*(胡志偉), and Linjuan Zhang*(張林娟), "*Combined In Situ X-ray Spectroscopic and Theoretical Study on Trimetal Synergistic Enhancement of Water Oxidation*", Adv. Energy Mater. **15**, 2404599 (2025). (I.F.=26.000)☆

31. Shih-Ting Kao, Ching-Chieh Hsu, Shao-Huan Hong, U-Ser Jeng(鄭有舜), Chia-Hsin Wang(王嘉興), Shih-Huang Tung, and Cheng-Liang Liu*(劉振良), "*Host-guest Complexation of α-cyclodextrin and Triiodide Ions for Enhanced Performance of Ionic Thermoelectric Capacitors*", Adv. Energy Mater. **15**, 2405502 (2025). (I.F.=26.000)☆

32. Gang Sun, Dan Nie, Qingjun Zhu, Lijun Gao, Yi-Hung Chang, Han Liu, Jiayi Yang, Yang Ren, Yu-Cheng Shao, Hirofumi Ishii(石井啟文), Xulei Sui*(隋旭磊), PanPan Wang*(王攀攀), Hsiao-Tsu Wang*(王孝祖), and Zhenbo Wang*(王振波), "*Sn-mediated Local Atomic Ordering Enhances Reversible Anionic Redox Activity in Cation-disordered $Li_{1.3}Mn_{0.4}Nb_{0.3}O_2$ Cathodes*", Adv. Energy Mater. **15**, 2500217 (2025). (I.F.=26.000)☆

33. Mayur Chaudhary, Aswin Kumar Anbalagan, Kai-Wei Chuang, Sumayah Shakil Wani, Zi-Liang Yang, Bo-Chao Huang, Shaham Quadir, Chieh-Ting Chen, Ruei-Hong Cyu, Bushra Rehman, Ming-Jin Liu, Ching-Yu Chiang(蔣慶有), Li-Chyong Chen, Kuei-Hsien Chen, Peter V. Sushko, Chih-Hao Lee, Ya-Ping Chiu, Yu-Lun Chueh*(闕郁倫), "*Phase*

Transition in Two-dimensional Mono-layer (1L)-molybdenum Disulfide Induced by Atomic S-basal Plane Gliding via Synchrotron X-ray Monochromatic Beam Radiation for Superior Electronic Performance", Mater. Today **84**, 28 (2025). (I.F.=22.000)☆

34. Weijian Duan, Yanyan Chen, Yihui Zhu, Li Tian, Wenxiao Zheng, Hengyi Fu, Jeng-Lung Chen(陳政龍), Yu-Jung Lin, Jason Chun-Ho Lam, Yang Lei, Chunhua Feng*(馮春華), "*Synergistic Effects of Co Single Atoms and Co Nanoparticles for Electrocatalytic Nitrate-to-ammonium Conversion in Strongly Acidic Wastewater*", Appl. Catal. B-Environ. Energy **363**, 124812 (2025). (I.F.=21.100)☆

35. Hao Zhang, Chao Jing, Xiaolu Xiong, Shujuan Wang, Xin You, Yujing Guo, Chang-Yang Kuo(郭昌洋), Hong-Ji Lin(林宏基), Chien-Te Chen(陳建德), Jian-Qiang Wang*(王建強), Zhiwei Hu*(胡志偉), Linjuan Zhang*(張林娟), "*Porous NiFe Alloy with Self-repair Surface Layer for Superior Industrial Water Electrolysis*", Appl. Catal. B-Environ. Energy **379**, 125697 (2025). (I.F.=21.100)☆

36. Shuwei Li, Yixin Li, Zhenjie Zhang, Xi Shen, Hongxiang Ji, Zepeng Liu, Zilin Hu, Haibo Wang, Hao Yu, Zhiwei Hu, Shu-Chih Haw(何樹智), Chien-Te Chen(陳建德), Qingyu Kong, Yurui Gao*(高玉瑞), Xuefeng Wang*(王雪鋒), Richeng Yu*(禹日成), Zhaoxiang Wang*(王兆翔), Liquan Chen, "*Interplays Between TM Migration, Cation Mixing and Oxygen Defects and Their Impacts on Degradation of Layer-structured Oxide Cathode Materials*", Energy Storage Mater. **79**, 104337 (2025). (I.F.=20.200)☆

37. Gaige Zhang, Changchun Ye, Tan Li*(李坦), Shumin Liu, Wei-Hsiang Huang(黃偉翔), Zhaoxi Chen, Xiaochao Ren, Jiajin Lin, Jin Yang, Yongcai Qiu, Guangxu Chen*(陳光需), "*Quenching-induced Fe Doping on Spent Cathode Materials Enhances the Oxygen Evolution Reaction Performance*", Energy Storage Mater. **80**, 104430 (2025). (I.F.=20.200)☆

38. Guolei Cai, Guikai Zhang, Yifan Li, Leilei Wang, Shuai Xie, Jing Zhang, Ying-Rui Lu(盧英睿), Ting-Shan Chan(詹丁山), Xianghua Kong, Xiaojun Wu, Song Jin*(金松), Junling Lu*(路軍嶺), and Hengxing Ji*(季恒星), "*Structural Sensitivity of Atomically Dispersed Catalysts in Electrocatalytic Reactions for Lithium-sulfur Batteries*", Adv. Funct. Mater. **35**, 2501600 (2025). (I.F.=19.000)☆

39. Jianlong Cong, Zuyang Hu, Le Hu, Tongjiang Li, Haijin Ji, Zihan Long, Yuxin Fan, Zhipeng Wen, Yu-Chang Lin(林佑錩), Henghui Xu, Zhen Li, Shunning Li*(李舜寧), Feng Pan, and Yunhui Huang*(黃云輝), "*Electrolyte Engineering with Asymmetric Spatial Shielding Effect for Aqueous Zinc Batteries*", Adv. Funct. Mater. **35**, 2424423 (2025). (I.F.=19.000)☆

40. Kuo-Hsiu Huang, Chi-Chun Tseng, Chia-Lin Tsai, Yung-Jing Xue, Han-Cheng Lu, Chia-Fang Lu, Yung-Yung Chang, Ching-Li Huang, I-Jui Hsu, Yu-Ying Lai, Yang-Pei Zheng, Bing-Huang Jiang, Chih-Ping Chen, Su-Ying Chien, U-Ser Jeng(鄭有舜), Chain-Shu Hsu, and Yen-Ju Cheng*(鄭彥如), "*Highly Crystalline Selenium-substituted C-shaped Ortho-benzodipyrrole-based A-D-A-type Nonfullerene Acceptor Enabling Solution-processed Single-crystal-like Thin Films for Air-stable, High-mobility N-type Transistors*", Adv. Funct. Mater. **35**, 2419176 (2025). (I.F.=19.000)☆

41. Chih-Yi Lin, Zong Ying He, Jui-Tai Lin, Chun-Wei Chang, Yueh-Chun Hsiao, Shang-Cheng Lin, Yi Chen, Yu-Mei Huang, Shin-Chiao Lee, Chih-Wen Pao(包志文), Kun-Han Lin, Alexander J. Cowan, and Tung-Han Yang*(楊東翰), "*Atomically Mixed High-entropy-alloy Nanoframes with 3D Subnanometer-thick Electrocatalytic Surfaces*", Adv. Funct. Mater. **35**, 2505927 (2025). (I.F.=19.000)☆

42. Linjie Zhang, Man Li, Chen Sun, Hsiao-Tsu Wang, Yi Xiao, Ke Ma, Yimeng Cai, Cheng-You Lee, Yu-Cheng Shao(邵禹成), Chia-Hsin Wang(王嘉興), Shuwen Zhao, Hirofumi Ishii(石井啟文), Nozomu Hiraoka(平岡望), Xiuyun Wang, Chih-Wen Pao(包志文), and Lili Han*(韓麗麗), "*A Hydrazine-water Galvanic Cell-inspired Self-powered High-rate Hydrogen Production via Overall Hydrazine Electrosplitting*", Adv. Funct. Mater. **35**, 2420163 (2025). (I.F.=19.000)☆

43. Chen-Jui Huang, Jin An Sam Oh, Marta Vicencio, Tianchen Hu, Hedi Yang, James N. Burrow, Yen-Fang Song(宋艷芳), Gung-Chian Yin(殷廣鈐), Pavel Shevchenko, Kamila M. Wiaderek, Bing Joe Hwang, and Ying Shirley Meng*, "*X-ray Micro-computed Tomography for Structural Analysis of All-solid-state Battery at Pouch Cell Level*", ACS Energ. Lett. **10**, 3459 (2025). (I.F.=18.200)☆

44. Ci Lin, Tsung-Yi Chen(陳琮宜), Tao Zhou, Yingqiang Wu, Ching Kit Tommy Wun, Weicheng Chen, Han-Yi Chen, Vincent Tung, Zhengxiao Guo, Tsz Woon Benedict Lo*(勞子桓), Liang Cai*(蔡亮), Yida Deng*(鄧意達), and Philip C. Y. Chow*(周慈勇), "*Regulating the Oxygen Evolution Mechanism Through In Situ Reconstruction of Ru-modified Manganese Oxybromide*", ACS Energ. Lett. **10**, 2641 (2025). (I.F.=18.200)☆

45. Pengfei Zhao, Yue Huang, Pengfei Li, Niyorjyoti Sharma, Billy J. Murdoch, Andrew Rogers, Chia-Hsin Wang(王嘉興), Surbhi Sharma, Zhizheng Wu, Jinkai Chen, Tao Sun, Jintao Lei, Amit Kumar*, Navneet Soin*, "*Why Not Inorganic*

Ferroelectrics: Harnessing the Pyroelectric Charges for Triboelectric Nanogenerators", Nano Energy **141**, 111046 (2025). (I.F.=17.100)☆

46. Jinxin Chen, Wenxiang Zhu, Mengling Zhang, Hao Yang, Mengjie Ma, Jie Wu, Penghao Li, Dongdong Gao, Qun Wang, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu*(胡志偉), Zhenhui Kang*(康振輝), Mingwang Shao*(邵名望), and Qi Shao*(邵琪), "*A New Phase Indium Tin Oxide (ITO) Activated Selective CO_2 Reduction into Formate for Underwater Antifouling Glass*", Angew. Chem. Int. Edit. **64**, e202513052 (2025). (I.F.=16.900)☆

47. Shanyong Chen, Tao Luo, Jingyu Wang, Jiaqi Xiang, Xiaoqing Li, Chao Ma, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), You-Nian Liu, and Min Liu*(劉敏), "*Tuning Proton Affinity on Co-N-C Atomic Interface to Disentangle Activity-Selectivity Trade-off in Acidic Oxygen Reduction to H_2O_2*", Angew. Chem. Int. Edit. **64**, e202418713 (2025). (I.F.=16.900)☆

48. Wei Chen, Jiaxin Chen, Chongyang Ma, Mengwei Han, Ming Yang, Yu-Cheng Huang(黃裕呈), Yandong Wu, Yiming Jiang, Ruiqi Wang, Tehua Wang, Ying-Rui Lu(盧英睿), Yuqin Zou*(鄒雨芹), and Shuangyin Wang*(王雙印), "*Synergistic Mechanism for Unconventional Anodic Reaction of Aldehyde Oxidation for Hydrogen Production*", Angew. Chem. Int. Edit. **64**, e202425258 (2025). (I.F.=16.900)☆

49. Jingwei Cui, Bingyi Du, Xiuqi Jin, Zhenghui Huang, Xiaosong Peng, Wenjie Li, Wei Li*(李巍), Yu-Cheng Huang(黃裕呈), Ying-Rui Lu(盧英睿), Chaoji Chen, and Hongbing Deng*(鄧紅兵), "*Activating Co^{2+}/Co^{3+} Redox Couple Mediated-electrooxidation of 5-hydroxymethyl Furfuryl Under Low Potentials*", Angew. Chem. Int. Edit. **64**, e202513396 (2025). (I.F.=16.900)☆

50. Jia Ke, Wenxiang Zhu, Yujin Ji*(紀玉金), Jinxin Chen, Chenchen Li, Yue Wang, Qun Wang, Wei-Hsiang Huang(黃偉翔), Zhiwei Hu, Youyong Li, Qi Shao*(邵琪), and Jianmei Lu*(路建美), "*Optimizing Acidic Oxygen Evolution Reaction via Modulation Doping in Van der Waals Layered Iridium Oxide*", Angew. Chem. Int. Edit. **64**, e202422740 (2025). (I.F.=16.900)☆

51. Jiayi Li, Xiaohua Yu, Wei-Hsiang Huang(黃偉翔), Qian Zhang, Kai Wei, Xiaoyan Zhou, Yiming Zhu, Xuepeng Zhong, Min-Hsin Yeh, Nicolas Alonso-Vante, and Jiwei Ma*(馬吉偉), "*Multi-step Screening-guided Core-shell RuO_2@TaO_x Nanorods Electrocatalyst for Acidic Oxygen Evolution Reaction*", Angew. Chem. Int. Edit. **64**, e202511750 (2025). (I.F.=16.900)☆

52. Shangheng Liu, Xiaocan Wang, Wei-Hsiang Huang(黃偉翔), Qiugen Zhang, Jiajia Han, Yingtian Zhang, Chih-Wen Pao(包志文), Zhiwei Hu, Yong Xu*(徐勇), and Xiaoqing Huang*(黃小青), "*Solvation Effect-determined Mechanisms of Cation Exchange Reactions for Efficient Multicomponent Nanocatalysts*", Angew. Chem. Int. Edit. **64**, e202418248 (2025). (I.F.=16.900)☆

53. Siyu Liu, Shangheng Liu, Jingliang Bao, Zhongliang Huang, Licheng Wei, Nanjun Chen, Zhiwei Hu, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Qingyu Kong, Jiajia Han*(韓佳甲), Leigang Li*(李雷剛), and Xiaoqing Huang*(黃小青), "*Optimized Adsorption of H_{ad} and OH_{ad} over Amorphous $SrRuPtO_xH_y$ Nanobelts towards Efficient Alkaline Fuel Cell Catalysis*", Angew. Chem. Int. Edit. **64**, e202421013 (2025). (I.F.=16.900)☆

54. Jhair A. Peña Prada, Tatiana A. Huertas Navarro, Stephanie L. Chua, Alejandro M. Granados, Chih-Wen Pao(包志文), Alejandro M. Fracaroli*, and Nicholas M. Bedford*, "*Degradation of Glyphosate to Benign N-formyl Glycine Using MOF-808 Nanocrystals*", Angew. Chem. Int. Edit. **64**, e202424540 (2025). (I.F.=16.900)☆

55. Huanhuan Tao, Shaohuan Hong, Wei-Hsiang Huang(黃偉翔), Bin Chen, Yiyuan Yang, Zhongliang Dong, Mingkai Xu, Bowen Li*(李博聞), Min-Hsin Yeh, Chih-Wen Pao(包志文), Zhe Jia, Zhiwei Hu, Feng Gong*(鞏峰), Yinlong Zhu*(朱印龍), and Wanlin Guo, "*Rare-earth Regulated Bond Polarizability in Layered Cuprates for Promoted Surface Reconstruction Toward C_{2+} Electrosynthesis*", Angew. Chem. Int. Edit. **64**, e202518058 (2025). (I.F.=16.900)☆

56. Zhenyuan Teng, Ying Tu, Nan Jian, Qitao Zhang, Ying-Rui Lu(盧英睿), Laiquan Li, Zhijun Cao, Yanhui Ao*(敖燕輝), Mingkai Liu, Yan Yan, Jing Wang, Huan Wu, Teruhsia Ohno, Jianmei Lu*(路建美), Chenliang Su*(蘇陳良), and Bin Liu*(劉彬), "*Visible-light-driven Selective Mineralization of Organohalides on Spatially Close Au Single-atom and Nanocluster Neighbors Over Poly(Heptazine Imides)*", Angew. Chem. Int. Edit. **64**, e202507654 (2025). (I.F.=16.900) ☆

57. Meng Wang, Chenxi Luo, Ziyu Mi, Yu-Chia Chang, Yu-Ting Chueh, Ping Luo, Mingsheng Zhang, Jiguang Zhang, Ruoou Yang, Qin Yang, Sibo Wang, Shuo Chen, Jinfeng Jia, Wan Ru Leow, Zainul Aabdin, Sung-Fu Hung(洪崧富), and Yanwei Lum*(林彥瑋), "*Triple-phase Boundaries Enable Selective Urea Production From Simulated Flue Gas in a Zero-gap Electrolyzer*", Angew. Chem. Int. Edit. **64**, e202505987 (2025). (I.F.=16.900)☆

58. Licheng Wei, Yuanting Dong, Wei Yan, Yuqi Zhang, Changhong Zhan, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu, Haixin Lin, Yong Xu*(徐勇), Hongbo Geng*(耿洪波), and Xiaoqing Huang*(黃小青), "*Hollow Pt-encrusted RuCu Nanocages Optimizing OH Adsorption for Efficient Hydrogen Oxidation Electrocatalysis*", Angew. Chem. Int. Edit. **64**, e202420177 (2025). (I.F.=16.900)☆

59. Jiahui Yang, Wei Wei, Chengxi Zhou, Hui Yan, Hangxin Che, Leiduan Hao, Xinyi Tan*(譚心怡), Alex W. Robertson, Tai-Sing Wu(吳泰興), Yun-Liang Soo, Ao Tang*(唐翱), and Zhenyu Sun*(孫振宇), "*High-stable All-iron Redox Flow Battery with Innovative Anolyte Based on Steric Hindrance Regulation*", Angew. Chem. Int. Edit. **64**, e202414452 (2025). (I.F.=16.900)☆

60. Nan Zhang, Yizhen Chen, Xu Li, Chih-Wen Pao(包志文), Jiankang Zhao*(趙建康), Bruce C. Gates, and Jie Zeng*(曾杰), "*Contrasting Atomically Dispersed Metal Catalysts Supported on CeO_x Nanoislands with Various Ligand Environments Including Chloride*", Angew. Chem. Int. Edit. **64**, e202507545 (2025). (I.F.=16.900)☆

61. Zhiqi Zhang*(張志琦), Jiapeng Liu, Shangqian Zhu, Yuhao Wang, Jian Wang, Minhong Xu, Jie Zhao, Zheng Wang, Dewang Zeng, Jianrong Zeng, Yufei Song, Chih-Wen Pao(包志文), Zhiwei Hu, Jongwoo Lim, Rui Xiao, Minhua Shao, and Francesco Ciucci*, "*Dizygotic Atomic Platinum and Palladium on Carbon for High-performance Ethanol and Methanol Electro-oxidation*", Angew. Chem. Int. Edit. **64**, e202502348 (2025). (I.F.=16.900)☆

62. Tian Zhao, Jilu Zhang, Kai Wang, Yao Xiao*(肖遥), Qin Wang, Longfei Li, Jochi Tseng, Meng-Cheng Chen, Jian-Jie Ma, Ying-Rui Lu(盧英睿), Ishii Hirofumi(石井啟文), Yu-Cheng Shao(邵禹成), Xiaoxian Zhao*(趙孝先), Sung-Fu Hung, Yaqiong Su, Xiaoke Mu, and Weibo Hua*(滑緯博), "*Exploring the Mechanism of Surface Cationic Vacancy Induces High Activity of Metastable Lattice Oxygen in Li- and Mn-rich Cathode Materials*", Angew. Chem. Int. Edit. **64**, e202419664 (2025). (I.F.=16.900)☆

63. Yu-Ching Chen, Yin-Song Liao, Po-Han Chen, Jyh-Pin Chou, Cheng-Kuo Tsai, Yi-Dong Lin, Yan-Gu Lin(林彥谷), Yu-Ren Peng, and Jyh Ming Wu*(吳志明), "*Direct and Sustainable Ammonia Synthesis from Air and Water with Sulfur-deficient MoS_2 Piezocatalysts*", ACS Nano **19**, 36602 (2025). (I.F.=16.000)☆

64. Zhaoxi Chen, Gaige Zhang, Huayue Yang, Yun Zhao, An Pei, Peng Wang, Jin Yang, Junxi Zhang, Peilin Sun, Haohang Qin, Junzheng Zhan, Jian Peng, Wei-Hsiang Huang(黃偉翔), Linan Zhou, and Guangxu Chen*(陳光需), "*$LiCoO_2$-derived Ni-doped Catalysts for Electrochemical Upcycling of Polyethylene Terephthalate Waste to Formic Acid*", ACS Nano **19**, 26572 (2025). (I.F.=16.000)☆

65. Haoliang Huang, Yifeng Wang, Shengjie Zhang, Yu-Cheng Huang(黃裕呈), Ying-Rui Lu(盧英睿), Chi-Liang Chen(陳啟亮), Jingyuan Ma, Zhiwei Hu*(胡志偉), Jian-Qiang Wang*(王建強), and Linjuan Zhang*(張林娟), "*Role of Bi Adatoms in Bi@Pd Nanoparticles for Electrochemical CO_2 Reduction*", ACS Nano **19**, 15509 (2025). (I.F.=16.000)☆

66. Heng Liu, Long Yang, Ting Shen, Changyuan Li, Te Kang, Huanhuan Niu, Wei-Hsiang Huang(黃偉翔), Chun-Chi Chang, Menghao Yang, Guozhong Cao*, and Chaofeng Liu*(劉超峰), "*Distorting Local Structures to Modulate Ligand Fields in Vanadium Oxide for High-performance Aqueous Zinc-ion Batteries*", ACS Nano **19**, 9132 (2025). (I.F.=16.000)☆

67. Feifei Zhang, Shaohuan Hong, Ruixi Qiao, Wei-Hsiang Huang(黃偉翔), Zheng Tang, Jiayi Tang, Chih-Wen Pao(包志文), Min-Hsin Yeh, Jie Dai, Yu Chen, Jun Lu, Zhiwei Hu, Feng Gong*(鞏峰), Yinlong Zhu*(朱印龍), and Huanting Wang*, "*Boosting Alkaline Hydrogen Evolution by Creating Atomic-scale Pair Cocatalytic Sites in Single-phase Single-atom-ruthenium-incorporated Cobalt Oxide*", ACS Nano **19**, 11176 (2025). (I.F.=16.000)☆

68. Haijuan Zhang, Hengyue Xu, Jie Chen, Daqin Guan*, Zhiwei Hu, Xiaomin Xu, Zezhou Lin, Hainan Sun, Xiao Sun, Jiayi Tang, Chih-Wen Pao(包志文), Chien-Te Chen(陳建德), Wei Zhou, Chunchang Wang, Youmin Guo*(郭友敏), and Zongping Shao*(邵宗平), "*Self-optimized Interfacial Co-O-Ru Motifs of Hollow Nanotube Composites Trigger Interfacial Lattice Oxygen Participation and Diffusion*", ACS Nano **19**, 25917 (2025). (I.F.=16.000)☆

69. Li Du, Gaojie Xu*(許高潔), Chenghao Sun, Yu-Han Zhang, Huanrui Zhang*(張煥瑞), Tiantian Dong*(董甜甜), Lang Huang, Jun Ma, Fu Sun, Chuanchuan Li, Xiangchun Zhuang, Shenghang Zhang, Jiedong Li, Bin Xie, Jinzhi Wang, Jingwen Zhao, Jiangwei Ju, Zhiwei Hu, Fan-Hsiu Chang(張凡修), Chang-Yang Kuo(郭昌洋), Chien-Te Chen(陳建德), André Hilger, Ingo Manke, Shanmu Dong, and Guanglei Cui*(崔光磊), "*Smart Gel Polymer Electrolytes Enlightening High Safety and Long Life Sodium Ion Batteries*", Nat. Commun. **16**, 2979 (2025). (I.F.=15.700)☆

70. Zunmin Guo, Feng Li, Yurou Celine Xiao, Sung-Fu Hung, Ying-Rui Lu(盧英睿), Amir Foroozan, Jieyuan Liu, Siyu Sonia Sun, Shijie Liu, Yuxuan Che, Qiyou Wang, Min Liu, Cai Wang, Yuke Li, Kang-Shun Peng, Yu-Cheng Liu, Mengyang Fan, Zahra Azimi Dijvejin, Panagiotis Papangelakis, Yong Wang, Ali Shayesteh Zeraati, Kai Han, Paul

Corbett, Drew Higgins, Rui Kai Miao*, and David Sinton*, "*Efficient Amino-acid-based Reactive Capture of CO_2 via Nickel Molecular Catalyst*", Nat. Commun. **16**, 10373 (2025). (I.F.=15.700)☆

71. Jingrong Hou, Tsung-Yi Chen, Mohamed Ait Tamerd, Jie Liu, Wei-Hsiang Huang(黃偉翔), Mohammed Hadouchi, Yiming Zhu, Xinyue Shi, Shasha Guo, Menghao Yang, Yongchao Shi, Mingxue Tang, and Jiwei Ma*(馬吉偉), "*Activating Fast and Reversible Sodium Storage in NASICON Cationic Defect Sites Through Fluorine Doping*", Nat. Commun. **16**, 2910 (2025). (I.F.=15.700)☆

72. I-Ting Kao, Rui-Tong Kuo, Shang-Cheng Lin, Yun-Shan Tsai, Lu-Yu Chueh, Chun-Wei Chang, Kuan-Fang Lee, Liang-Ching Hsu(許良境), Jui-Tai Lin, Chia-Ying Wu, Chih-Wen Pao(包志文), Yung-Tin Frank Pan, Hong-Kang Tian*(田弘康), and Tung-Han Yang*(楊東翰), "*Exploring a Bimetallic Catalyst Family for Hydrogen Oxidation with Insights into Superior Activity and Durability*", Nat. Commun. **16**, 10504 (2025). (I.F.=15.700)☆

73. Pawan Kumar, Hongguang Zhang, Asfaw G. Yohannes, Jiu Wang, Ali Shayesteh Zeraati, Soumyabrata Roy, Xiyang Wang, Karthick Kannimuthu, Abdelrahman M. Askar, Kristen A. Miller, Kexin Ling, Muflih Adnan, Sung-Fu Hung, Jian-Jie Ma, Wei-Hsiang Huang(黃偉翔), Dhwanil Trivedi, Maria Molina, Heng Zhao, Angel A. Martí, Adam F. G. Leontowich, George K. H. Shimizu, David Sinton, Michael M. Adachi, Yimin A. Wu, Pulickel M. Ajayan, Samira Siahrostami*, Jinguang Hu*, and Md Golam Kibria*, "*Isolated Iridium Oxide Sites on Modified Carbon Nitride for Photoreforming of Plastic Derivatives*", Nat. Commun. **16**, 2862 (2025). (I.F.=15.700)☆

74. Jingxuan Li, Shiqing Deng, Liyang Ma, Yangyang Si, Chao Zhou, Kefan Wang, Sizhe Huang, Jiyuan Yang, Yunlong Tang, Yu-Chieh Ku, Chang-Yang Kuo(郭昌洋), Yijie Li, Sujit Das, Shi Liu*(劉仕), and Zuhuang Chen* (陳祖煌), "*Enhancing Ferroelectric Stability: Wide-range of Adaptive Control in Epitaxial HfO_2/ZrO_2 Superlattices*", Nat. Commun. **16**, 6417 (2025). (I.F.=15.700)☆

75. Mengyu Li, Yimin Jiang, Wei Chen*(陳維), Yucheng Huang(黃裕呈), Yingrui Lu(盧英睿), Leitao Xu, Shengkai Li, Yandong Wu, Zhongcheng Xia, Ruiqi Wang, Shuangyin Wang, and Yuqin Zou*(鄒雨芹), "*Internal Lattice Oxygen Sites Invert Product Selectivity in Electrocatalytic Alkyne Hydrogenation Over Copper Catalysts*", Nat. Commun. **16**, 3884 (2025). (I.F.=15.700)☆

76. Yan Li, Lijun Lu, Xueyu Jiang, Dali Yang, Jeng-Lung Chen(陳政龍), Abhishek Dutta Chowdhury, Wu Li*(李武), Xianglin Pei*(裴響林), and Aiwen Lei*(雷愛文), "*Dynamic Boron-doping Switched Chitin-based Single-atom Pt Catalyst for Chemo-selective Hydrogenation*", Nat. Commun. **16**, 2296 (2025). (I.F.=15.700)☆

77. Wanru Liao, Jun Wang, Yao Tan, Xin Zi, Changxu Liu, Qiyou Wang, Li Zhu, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), Hongmei Li, Yali Zhang, Kang Liu, Chao Cai, Junwei Fu, Beidou Xi*(席北斗), Emiliano Cortés*, Liyuan Chai, and Min Liu*(劉敏), "*Near-unity Nitrate to Ammonia Conversion via Reactant Enrichment at the Solid-liquid Interface*", Nat. Commun. **16**, 5715 (2025). (I.F.=15.700)☆

78. Zuoqing Liu, Ruixi Qiao, Desheng Feng, Jin Zhou, Haosong Di, Yuesheng Bai, Dongliang Liu, Nai Shi, Wei-Hsiang Huang(黃偉翔), Min-Hsin Yeh, Chih-Wen Pao(包志文), Zhiwei Hu, Guangming Yang*(楊廣明), Yuxiao Lin*(林雨瀟), Zhixin Luo, Ran Ran, Wei Zhou, Yinlong Zhu, and Zongping Shao*(邵宗平), "*Strategic Atomic Trapping at Heterointerfaces for Protonic Ceramic Cells*", Nat. Commun. **16**, 10405 (2025). (I.F.=15.700)☆

79. Yuxuan Lu, Feng Yue, Tianyang Liu, Yu-Cheng Huang(黃裕呈), Feng Fu*(付峰), Yu Jing*(荊宇), Hengquan Yang*(楊恒權), and Chunming Yang*(楊春明), "*Size-effect Induced Controllable Cu^0-Cu^+ Sites for Ampere-level Nitrate Electroreduction Coupled with Biomass Upgrading*", Nat. Commun. **16**, 2392 (2025). (I.F.=15.700)☆

80. Xinyue Shi, Wei-Hsiang Huang(黃偉翔), Ju Rong, Minghui Xie, Qingbo Wa, Ping Zhang, Hainan Wei, Huangyu Zhou, Min-Hsin Yeh, Chih-Wen Pao(包志文), Jie Wang, Zhiwei Hu, Xiaohua Yu*(于曉華), Jiwei Ma*(馬吉偉), and Hongfei Cheng*(程洪飛), "*Revealing and Modulating Catalyst Reconstruction for Highly Efficient Electrosynthesis of Ammonia*", Nat. Commun. **16**, 6161 (2025). (I.F.=15.700)☆

81. Dongjoon Song, Suheon Lee, Zecheng Shen, Woobin Jung, Wonjun Lee, Sungkyun Choi, Wonshik Kyung, Saegyeol Jung, Cheng-Maw Cheng(鄭澄懋), Junyoung Kwon, S. Ishida, Y. Yoshida, Seung Ryong Park, H. Eisaki, Yao Wang*, Kwang-Yong Choi*, and C. Kim*, "*Interplay Between Hole Superconductivity and Quantum Critical Antiferromagnetic Fluctuations in Electron-doped Cuprates*", Nat. Commun. **16**, 2764 (2025). (I.F.=15.700)☆

82. Jiayi Tang, Daqin Guan, Hengyue Xu, Leqi Zhao, Ushtar Arshad, Zijun Fang, Tianjiu Zhu, Manjin Kim, Chi-Wen Pao(包志文), Zhiwei Hu(胡志偉), Junjie Ge, and Zongping Shao*(邵宗平), "*Undoped Ruthenium Oxide as a Stable Catalyst for the Acidic Oxygen Evolution Reaction*", Nat. Commun. **16**, 801 (2025). (I.F.=15.700)☆

83. Luqi Wang, Sung-Fu Hung, Sheng Zhao, Yue Wang, Suwan Bi, Shaoxiong Li, Jian-Jie Ma, Chenchen Zhang, Ying Zhang, Linlin Li*(李林林), Tsung-Yi Chen(陳琮宜), Han-Yi Chen, Feng Hu*(胡峰), Yuping Wu, and Shengjie

Peng*(彭生杰), "*Modulating the Covalency of Ru-O Bonds by Dynamic Reconstruction for Efficient Acidic Oxygen Evolution*", Nat. Commun. **16**, 3502 (2025). (I.F.=15.700)☆

84. Mengjun Wang, Jun Jia, Jing Xia, Chun-Kuo Peng, Jinxin He, Yueming Qiu, Yuting He, Le Gao, Fei Xue, Yan-Gu Lin(林彥谷), Guowu Zhan, Yuzheng Guo*(郭宇錚), Xiaoqing Huang*(黃小青), and Yong Xu*(徐勇), "*CO_2 Hydrogenation to HCOOH Catalyzed by Aqueous Pd Needle Assembly*", Nat. Commun. **16**, 6454 (2025). (I.F.=15.700)☆

85. Qiyou Wang, Tao Luo, Xueying Cao, Yujie Gong, Yuxiang Liu, Yusen Xiao, Hongmei Li, Franz Gröbmeyer, Ying-Rui Lu(盧英睿), Ting-Shan Chan(詹丁山), Chao Ma, Kang Liu, Junwei Fu, Shiguo Zhang, Changxu Liu, Zhang Lin, Liyuan Chai, Emiliano Cortes*, and Min Liu*(劉敏), "*Lanthanide Single-atom Catalysts for Efficient CO_2-to-CO Electroreduction*", Nat. Commun. **16**, 2985 (2025). (I.F.=15.700)☆

86. Xubin Ye, Yunyu Yin, Yingying Cao, Zhiyu Liao, Xiao Wang, Min Liu, Qianqian Wang, Zhao Pan, Zhiwei Hu, Hong-Ji Lin(林宏基), Chien Te Chen(陳建德), Chih-Wen Pao(包志文), Philippe Ohresser, Lucie Nataf, François Baudelet, Wenyun Yang, Jinbo Yang, Jinguang Cheng, Pu Yu, Xianggang Qiu, Yi-feng Yang, Tao Xiang , and Youwen Long*(龍有文), "*High-temperature Ferrimagnetic Order Triggered Metal-to-insulator Transition in $CaCu_3Ni_2Os_2O_{12}$*", Nat. Commun. **16**, 3746 (2025). (I.F.=15.700)☆

87. Long-Ji Yuan, Zhen-Yu Miao, Xu-Lei Sui*(隋旭磊), Chi-Feng Lee, Qi Li, Mei-Jie Yin, Li-Xiao Shen, Ying-Rui Lu(盧英睿), Zi-Gang Zhao, Yu-Zhe Liu, Lin-Sheng Zhu, Wei Gong, Wen-Liang Feng, Hsiao-Tsu Wang*(王孝祖), Guo-Xu Zhang*(張國旭), and Zhen-Bo Wang*(王振波), "*Janus Effect of FeCo Dual Atom Catalyst with Co as Active Center in Acidic Oxygen Reduction Reaction*", Nat. Commun. **16**, 7198 (2025). (I.F.=15.700)☆

88. Kejun Chen, Pengfei Ou, Maoqi Cao, Linlin Wu, Kang Liu, Lihong Jing*(荊莉紅), Adrián Pinilla-Sánchez, Ziwen Mei, Junwei Fu, Hongmei Li, Wenzhang Li, Kaizhi Gu, Xusheng Zheng, Ting-Shan Chan(詹丁山), Cheng-Wei Kao(高振瑋), Changxu Liu, F. Pelayo García de Arquer, Sen Yang, Tianfu Wang, Juan Zhang*(張娟), Liyuan Chai, Zhang Lin, Min Liu*(劉敏), and Buxing Han*(韓布興), "*Flexibility-induced Robustness in Molecular Catalysts for Electrocatalytic CO_2 Reduction*", J. Am. Chem. Soc. **147**, 34019 (2025). (I.F.=15.600)☆

89. Tianxiang Chen, Yunong Li, Ping-Luen Ho, Kwan Chee Leung, Jinjie Liu, Ching Kit Tommy Wun, Zehao Li, Chiu Chung Tang, Shogo Kawaguchi, Tai-Sing Wu(吳泰興), Yun-Liang Soo, Jun Yin*(殷駿), Shik Chi Edman Tsang*(曾適之), and Tsz Woon Benedict Lo*(勞子桓), "*Unraveling the Nuclearity Effect of Atomically Choreographed Triatom Cu_3 Clusters Supported on Zeolites*", J. Am. Chem. Soc. **147**, 17170 (2025). (I.F.=15.600)☆

90. Yulin Deng, Xiaoyong Mo, Samuel Kin-Man Lai, Shu-Chih Haw(何樹智), Ho Yu Au-Yeung*(歐陽灝宇), and Edmund C. M. Tse*(謝俊銘), "*Mechanical and Covalent Tailoring of Copper Catenanes for Selective Aqueous Nitrate-to-ammonia Electrocatalysis*", J. Am. Chem. Soc. **147**, 14316 (2025). (I.F.=15.600)☆

91. Yuting He, Shiyun Xiong, Zhongliang Huang, Guodong Qi, Xiaoqing Li, Xiaozhi Liu, Jun Xu, Dong Su, Zhiwei Hu, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Shuangli Yang, Mingshu Chen, Yong Xu*(徐勇), and Xiaoqing Huang*(黃小青), "*Ultradurable Regenerative Propane Dehydrogenation Catalyst by Fluorination-induced Confining and Positioning*", J. Am. Chem. Soc. **147**, 38404 (2025). (I.F.=15.600)☆

92. Anna Herlihy, Wei-Tin Chen, Clemens Ritter, Yu-Chun Chuang(莊裕鈞), and Mark S. Senn*, "*Interplay Between Jahn-Teller Distortions and Structural Phase Transitions in Ruddlesden-Poppers*", J. Am. Chem. Soc. **147**, 7209 (2025). (I.F.=15.600)☆

93. Chih-Ying Huang, Hsin-An Chen, Wei-Xuan Lin, Kuan-Hung Chen, Yu-Chang Lin(林佑錩), Tai-Sing Wu(吳泰興), Chia-Che Chang(張嘉哲), Chih-Wen Pao(包志文), Wei-Tsung Chuang(莊偉綜), Jyh-Chyuan Jan(詹智全), Yu-Cheng Shao(邵禹成), Nozomu Hiraoka(平岡望), Jau-Wern Chiou, Pai-Chia Kuo, Jessie Shiue, Deepak Vishnu S. K, Raman Sankar, Zih-Wei Cyue, Way-Faung Pong*(彭維鋒), and Chun-Wei Chen*(陳俊維), "*In Situ Identification of Spin Magnetic Effect on Oxygen Evolution Reaction Unveiled by X-ray Emission Spectroscopy*", J. Am. Chem. Soc. **147**, 13286 (2025). (I.F.=15.600)☆

94. Shaoxiong Li, Sheng Zhao, Sung-Fu Hung, Liming Deng, Luqi Wang, Fuke Shi, Ao Dong, Ying Zhang, Tsung-Yi Chen(陳琮宜), Feng Hu, Linlin Li, Seeram Ramakrishna, Yuping Wu, and Shengjie Peng*(彭生杰), "*Oxophilic Sites Mediated Dynamic Oxygen Replenishment to Stabilize Lattice Oxygen Catalysis in Acidic Water Oxidation*", J. Am. Chem. Soc. **147**, 33770 (2025). (I.F.=15.600)☆

95. Yanzhuo Li, Jianfa Zhao, Shengjie Zhang, Yalei Fan, Chang-Yang Kuo(郭昌洋), Yu-Chieh Ku, Ting-Shan Chan(詹丁山), Cheng-Wei Kao(高振瑋), Yu-Cheng Huang(黃裕呈), Chien-Te Chen(陳建德), Shu-Chih Haw(何樹智), Changqing Jin, Hongbin Zhao, Daixin Ye*(葉代新), Chao Jing*(靜超), Zhiwei Hu*(胡志偉), and Linjuan Zhang*(張

林娟), "*Hexavalent Ru Catalyst with Both Lattice Oxygen and Metal Ion Mechanisms Coactive for Water Oxidation*", J. Am. Chem. Soc. **147**, 26854 (2025). (I.F.=15.600)☆

96. Cheng-Chieh Lin, Shao-Ku Huang, Wei-Ni Tseng, Chun-Jen Su(蘇群仁), Chao-Ching Huang, Chih-Ying Huang, Cheng-Yu Yu, Man-Hong Lai, Jia-Yuan Sun, Yu-Chiang Chao, Hua-Shu Hsu, Chih-Wei Luo, Yu-Ming Chang, Chia-Chun Chen*(陳家俊), and Chun-Wei Chen*(陳俊維), "*Chirality-regulated Spin-polarization of Perovskite Nanoplates for Photocatalytic CO_2 Reduction Reaction*", J. Am. Chem. Soc. **147**, 40347 (2025). (I.F.=15.600)☆

97. Renfeng Liu, Wenjing Tu, An Pei*(裴安), Wei-Hsiang Huang(黃偉翔), Yanyan Jia*(賈妍艷), Peng Wang, Daoru Liu, Qiqi Wu, Qizhen Qin, Weiwei Zhou, Linan Zhou, Keyou Yan, Yun Zhao*(趙云), and Guangxu Chen*(陳光需), "*Low-voltage Electrooxidation of Benzyl Alcohol to Benzoic Acid Enhanced by PtZn-ZnO_x Interface*", J. Am. Chem. Soc. **147**, 10339 (2025). (I.F.=15.600)☆

98. Wenjie Luo, Kang Liu, Tao Luo, Junwei Fu, Hang Zhang, Chao Ma, Ting-Shan Chan(詹丁山), Cheng-Wei Kao, Zhang Lin, Liyuan Chai, Michelle L. Coote, and Min Liu*(劉敏), "*Promoting C-F Bond Activation for Perfluorinated Compounds Decomposition via Atomically Synergistic Lewis and Brønsted Acid Sites*", J. Am. Chem. Soc. **147**, 7391 (2025). (I.F.=15.600)☆

99. An Pei, Ruikuan Xie, Lihua Zhu*(朱麗華), Fengshun Wu, Zinan Huang, Yongyu Pang, Yu-Chung Chang(張又中), Guoliang Chai*(柴國良), Chih-Wen Pao(包志文), Qingsheng Gao*(高慶生), Congxiao Shang, Guang Li, Jinyu Ye, Huaze Zhu, Zhiqing Yang, and Zhengxiao Guo*(郭正曉), "*Methanol-enhanced Low-cell-voltage Hydrogen Generation at Industrial-grade Current Density by Triadic Active Sites of Pt_1-Pd_n-$(Ni,Co)(OH)_x$*", J. Am. Chem. Soc. **147**, 3185 (2025). (I.F.=15.600)☆

100. Maocai Pi, Junye Yang, Jie Zhang, Xubin Ye, Xiao Wang, Lunhua He, Zhiwei Hu(胡志偉), Chien-Te Chen(陳建德), Chang-Yang Kuo(郭昌洋), Zhao Pan, Yao Shen*(沈瑶), and Youwen Long*(龍有文), "*Observation of Robust Compressed CuO_6 Octahedra and Exotic Spin Structure in $CaCuFe_2O_5$*", J. Am. Chem. Soc. **147**, 4403 (2025). (I.F.=15.600)☆

101. Qihao Sha, Tianshu Gao, Li Yan, Wei-Hsuan Hung, Ching-Yu Chiang(蔣慶有), Daojin Zhou*(周道金), Bin Liu*(劉彬), Yun Kuang*, and Xiaoming Sun*(孫曉明), "*Lattice Oxygen Mechanism Induced on Nickel Sites by Cl^- Adsorption for Efficient Seawater Oxidation Reaction*", J. Am. Chem. Soc. **147**, 20716 (2025). (I.F.=15.600)☆

102. Sixuan She, Changsheng Chen, Ke Fan, Gao Chen, Yanping Zhu, Daqin Guan, Yu-Cheng Huang(黃裕呈), Hsiao-Chien Chen, Zezhou Lin, Hon Fai Wong, Liuqing Li, Ye Zhu, Chi Wah Leung, Yuen Hong Tsang*(曾遠康), and Haitao Huang*(黃海濤), "*Optimizing the Ru Catalyst-support Interaction via Tunnel Size of MnO_2 Support for Enhanced Acidic Water Oxidation*", J. Am. Chem. Soc. **147**, 24392 (2025). (I.F.=15.600)☆

103. Miyuki Shinoda, Koki Matsunoshita, Masanobu Nakayama, Satoshi Hiroi, Koji Ohara, Masaki Abe, Nozomu Ishiguro, Yukio Takahashi, Gen Hasegawa, Naoaki Kuwata, Tsukasa Iwama, Takuya Masuda, Kosuke Suzuki, Hirofumi Ishii(石井啟文), Yu-Cheng Shao(邵禹成), Daisuke Shibata, Akinori Irizawa, Toshiaki Ohta, Itsuki Konuma, Teppei Ohno, Yosuke Ugata, and Naoaki Yabuuchi*, "*Activation of Anionic Redox for Stoichiometric and Li-excess Metal Sulfides through Structural Disordering: Joint Experimental and Theoretical Study*", J. Am. Chem. Soc. **147**, 26238 (2025). (I.F.=15.600)☆

104. Jingwen Sun, Yi-An Lai, Jiangtian Sun, Yifan Du, Brandon J. Jolly, Hongyuan Sheng, Tai Ying Lai, Hao Ming Chen(陳浩銘), Cyrille Costentin, Matthew Nava*, and Chong Liu*, "*Automated Electroanalysis Accelerates the Discovery of Concerted Proton-electron Transfer*", J. Am. Chem. Soc. **147**, 28993 (2025). (I.F.=15.600)☆

105. Ruijie Yi, Xiaoyong Mo, Hei Tung Yau, Tao Zhou, Zhengxiao Guo, Shu-Chih Haw(何樹智), and Edmund C. M. Tse*(謝俊銘), "*Interlayer Expansion Enables Electrochemical Domino C-N Coupling for Formaldoxime Formation in Aqueous Media*", J. Am. Chem. Soc. **147**, 32809 (2025). (I.F.=15.600)☆

106. Yaqiong Zeng, Jian Zhao, Shifu Wang, Weijue Wang, Ying-Rui Lu(盧英睿), Shibo Xi, Wei Xu, Yoshitaka Yoda, Ryo Masuda, Xuning Li*(李旭寧), Yanqiang Huang*(黃延強), Bin Liu*(劉彬), and Tao Zhang, "*Unraveling the Dynamic Low-spin State Evolution of Single-Fe-atom Sites for Efficient CO_2 Electroreduction*", J. Am. Chem. Soc. **147**, 42539 (2025). (I.F.=15.600)☆

107. Jie Zhang, Xubin Ye, Xiao Wang, Zhao Pan, Maocai Pi, Shuai Tang, Cheng Dong, Chien-Te Chen(陳建德), Jin-Ming Chen(陳錦明), Chang-Yang Kuo(郭昌洋), Zhiwei Hu, Xi Shen*(沈希), Xiaohui Yu, Yao Shen, Richeng Yu, and Youwen Long*(龍有文), "*Realization of Intrinsic Colossal Magnetoresistance in $Pb(Pb_{1/3}Hg_{2/3})_3Mn_4O_{12}$: An A Site-ordered Quadruple Perovskite Oxide*", J. Am. Chem. Soc. **147**, 12644 (2025). (I.F.=15.600)☆

108. Yuqi Zhang, Tingting Fan, Xia-Guang Zhang*(張霞光), Zhou Chen, Zhiwei Hu, Ting-Shan Chan(詹丁山), Xiaodong Yi*(伊曉東), and Xiaoqing Huang*(黃小青), "*Sulfur Vacancy Boosts Light-driven C-N Coupling in Upcycling of Polylactic Acid to Alanine*", J. Am. Chem. Soc. **147**, 22589 (2025). (I.F.=15.600)☆

109. En Zhao, Jordi Morales-Vidal, Yue Yang, Sharon Mitchell, Yinlong Zhu, Zhiwei Hu(胡志偉), Jin-Ming Chen(陳錦明), Shu-Chih Haw(何樹智), Ting-Shan Chan(詹丁山), Ziyi Fan, Zhu-Jun Wang*, Núria López*, Javier Pérez-Ramírez*, and Zupeng Chen*(陳祖鵬), "*Diatomic Palladium Catalyst for Enhanced Photocatalytic Water-donating Transfer Hydrogenation*", J. Am. Chem. Soc. **147**, 2029 (2025). (I.F.=15.600)☆

110. Yiming Zhu, Wei-Hsiang Huang(黃偉翔), Xinyue Shi, Shangheng Liu, Mohamed Ait Tamerd, Menghao Yang, Jiayi Li, Min-Hsin Yeh, Chun-Chi Chang, Hongfei Cheng, and Jiwei Ma*(馬吉偉), "*Spatial Confinement Synthesis of Platinum Group Metal Single-atom Alloy Catalysts for Acidic Hydrogen Evolution*", J. Am. Chem. Soc. **147**, 45893 (2025). (I.F.=15.600)☆

111. Hao-Wen Liu, Hsi Chen, Shiki Thi, Pei-Jane Yu, Jeng-Lung Chen(陳政龍), Chih-Wen Pao(包志文), Po-Ya Chang(張博雅), Shu-Chih Haw(何樹智), Yen-Fa Liao(廖彥發), Yu-Cheng Shao(邵禹成), Gung-Chian Yin(殷廣鈐), Yen-Fang Song(宋艷芳), Senthil-Kumar Parthasarathi, Yu-Ting Weng, Nae-Lih Wu*(吳乃立), "*High-capacity Ni-rich Composite Cathodes Having Chemically Fused Interface with Li_3InCl_6 Electrolyte Towards Low-pressure Operating All-solid-state Li-ion Batteries*", Compos. Pt. B-Eng. **293**, 112133 (2025). (I.F.=14.200)☆

112. Aswin Kumar Anbalagan*, Weng-Kent Chan, Ming-Hsuan Wu, Fang-Chi Hu, Hsin-Hao Chiu, Amr Sabbah, Mayur Chaudhary, Shivam Gupta, Kai-Wei Chuang, Ashish Chhaganlal Gandhi, Ching-Yu Chiang(蔣慶有), Huang-Ming Tsai(蔡煌銘), Shu-Chih Haw(何樹智), Kirankumar Venkatesan Savunthari, Hong-Ji Lin(林宏基), Li-Chyong Chen, Kuei-Hsien Chen, Nyan-Hwa Tai, Yu-Lun Chueh, Sheng Yun Wu, Hsin-Yi Tiffany Chen*(陳馨怡), Andrew L. Walter*, and Chih-Hao Lee*(李志浩), "*Revealing Robust Room Temperature Ferromagnetism in Gd-doped Few-layered MoS_2 Thin Films*", Adv. Sci. **12**, e10366 (2025). (I.F.=14.100)☆

113. Ting-Hsin Hu, Cheng-Yu Wu, Zong Ying He, Yi Chen, Liang-Ching Hsu(許良鏡), Chih-Wen Pao(包志文), Jui-Tai Lin, Chun-Wei Chang, Shang-Cheng Lin, Rachel Osmundsen, Lee Casalena, Kun Han Lin, Shan Zhou, and Tung-Han Yang*(楊東翰), "*Unconventional Hexagonal Close-packed High-entropy Alloy Surfaces Synergistically Accelerate Alkaline Hydrogen Evolution*", Adv. Sci. **12**, 2409023 (2025). (I.F.=14.100)☆

114. Tianxing Wang, Tian (Leo) Jin*(金田), Zhiping Liu, Jingtao Wang, Yue Gong, Ming Ma, Jie Chen*(陳杰), Shaohua Shen, Rongqian Wu, Yu-Cheng Huang(黃裕呈), Ying Rui Lu(盧英睿), Yi Lyu*(呂毅), and Xiaofei Liu*(劉曉菲), "*Electronic Microenvironment Regulation of Bismuth-salophen Single-site Catalysts for Enhanced Selectivity in CO_2 Electrolysis to Formic Acid*", Adv. Sci. **12**, e02061 (2025). (I.F.=14.100)☆

115. Zhen-Li Yan, Tzu-Ming Hsu, Chien-Hsin Wu, Jean-Sebastien Benas, Ying-Chi Huang, Wei-Cheng Chen, Bi-Hsuan Lin(林碧軒), Mei-Hsin Chen, Ja-Hon Lin, Hsinhan Tsai, Chu-Chen Chue, Chihaya Adachi*, Ru-Jong Jeng*(鄭如忠), and Chi-Ching Kuo*(郭霽慶), "*Flexible Mechanical Response Device With Optical Logic Emission Enabled by Synergistic Crystallization Engineering of Ester Polymer and Perovskite*", Adv. Sci. **12**, e08812 (2025). (I.F.=14.100)☆

116. Dinesh Bhalothia, Che Yan, Yawei Wu, Jui-Cheng Kao, Yu-Chieh Lo, Haolin Li, Nozomu Hiraoka(平岡望), Hirofumi Ishii(石井啟文), Yen-Fa Liao(廖彥發), Sheng Dai*(戴升), Chen-Hao Wang, Alice Hu, Jyh-Pin Chou, Po-Chun Chen*(陳柏均), Tsan-Yao Chen*(陳燦耀), "*Local Collaboration Between Oxygen Vacancy, Palladium and Platinum Trimer Triggers Exceptional Performance in the Alkaline Fuel Cell*", Chem. Eng. J. **522**, 167605 (2025). (I.F.=13.200)☆

117. Hepsiba Niruba Catherine, Deblina Roy, Tsung-Yi Chen(陳琮宜), Wei-Hsiang Huang, Ruey-An Doong*(董瑞安), "*Engineered Nickel Single-atom Catalysts on 2H-MoS_2 for Enhanced Photoelectrocatalytic Hydrogen Production from Water Splitting under Neutral Conditions*", Chem. Eng. J. **525**, 170512 (2025). (I.F.=13.200)☆

118. Ching-Shiun Chen*(陳敬勳), Tse-Ching Chen, Kai-Lin Chiu, Cheng-Rong Hsing, Li-Yu Wang, Chia-Min Yang, Chih-Wen Pao(包志文), Chi-Liang Chen(陳啟亮), "*Highly Active Cu-embedded in Magnetic Carbon Nanofibers for the Reduction of 4-nitrophenol*", Chem. Eng. J. **505**, 159103 (2025). (I.F.=13.200)☆

119. Hsi Chen, Hao-Wen Liu, Yu-Cheng Lu, Pei-Jane Yu, Cheng-Hung Liao, Chun-Chieh Wang(王俊杰), Ting-Shan Chan(詹丁山), Hwo-Shuenn Sheu(許火順), Po-Ya Chang(張博雅), Jeng-Lung Chen(陳政龍), Shu-Chih Haw(何樹智), Gung-Chian Yin(殷廣鈐), Yen-Fang Song(宋艷芳), Chih-Wen Pao(包志文), Nae-Lih Wu*(吳乃立), "*Realizing Practical Use of $LiNiO_2$ Cathode in Halide-based All-solid-state Lithium Metal Batteries*", Chem. Eng. J. **519**, 165314 (2025). (I.F.=13.200)☆

120. Kung-Hsing Chen, Mia Rinawati, Sofiannisa Aulia, Ling-Yu Chang, Yen-Shou Chiu, Chia-Yu Chang, Kuan-Jung Chen, Wei-Hsiang Huang(黃偉翔), Wei-Nien Su, Min-Hsin Yeh*(葉旻鑫), "*Enabling Highly Selective H_2O_2 Electrosynthesis on Graphene-based Electrode by P-doped Carbon Nitride Quantum Dots for Self-antibiofouling Dissolved Oxygen Sensor via 2-electron Oxygen Reduction Reaction*", Chem. Eng. J. **519**, 164999 (2025). (I.F.=13.200)☆

121. Liang Cheng, Yucun Zhou, Linghong Luo*(羅凌虹), Leying Wang*(王樂瑩), Xu Xu, Daqin Guan, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu, Jing Zhou, Shaorong Wang, Zongping Shao*(邵宗平), "*Mutual Dissolution and Exsolution Enables Superior Coking Resistance of Cermet Fuel Electrode*", Chem. Eng. J. **505**, 159587 (2025). (I.F.=13.200)☆

122. Yen-Shuo Chiu, Mia Rinawati, Ling-Yu Chang, Sofiannisa Aulia, Ping-Chen Shi, Shu-Chih Haw(何樹智), Wei-Hsiang Huang(黃偉翔), Ni Luh Wulan Septiani, Brian Yuliarto, Min-Hsin Yeh*(葉旻鑫), "*High-dielectric TiO_2-mediated g-C_3N_4 Enhanced Self-polarized PVDF Hybridized Film for Highly Sensitive Wearable Triboelectric Pressure Sensors*", Chem. Eng. J. **511**, 161807 (2025). (I.F.=13.200)☆

123. Berhanu Degagsa Dandena, Liang-Ting Wu, Tsung-I Yeh, Chia-Yu Chang, Jyh-Chiang Jiang, Dah-Shyang Tsai, Martin Ihrig, Gashahun Gobena Serbessa, Sheng-Chiang Yang, Keseven Lakshmanan, Hwo-Shuenn Sheu(許火順), Chia-Hsin Wang(王嘉興), She-Huang Wu, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Intrinsically-ductile Argyrodite Solid Electrolytes to Improve the Performance of All-solid-state Lithium Batteries*", Chem. Eng. J. **512**, 162450 (2025). (I.F.=13.200)☆

124. Chia-Wen Lai, Chung-Yen Lin, Meng-Chen Tsai, Wei-Jung Chen, Chia-Chun Hsieh(謝嘉濬), Zi-Jing Lin(林子敬), Li-Jiuan Shen, Ying-Lien Chen, Lee-Jene Lai(賴麗珍), Shu-Hwa Chen*(陳淑華), Yang-Hsin Shih*(施養信), "*From AI to Action: Antimicrobial Peptides Engineered by Generative Adversarial Networks (GANs)-A Novel Approach to Combat Resistant Bacteria*", Chem. Eng. J. **519**, 164905 (2025). (I.F.=13.200)☆

125. Yin-Ti Lai, Chiung-Han Chen, Ming-Hsuan Yu, Hsing-Yu Kuo, I-Chih Ni, Bi-Hsuan Lin(林碧軒), Hobeom Kim, Chi-Ching Kuo, Yu-Jung Lu, Chu-Chen Chueh*(闕居振), "*Dual Functionality of Carbazole-based Phosphonic Acid Molecular Additives Realizes Efficient Hole Transport Layer-free Perovskite Light-emitting Diodes*", Chem. Eng. J. **504**, 158876 (2025). (I.F.=13.200)☆

126. Cheng-Hung Liao, Yu-Ting Weng, Senthil-Kumar Parthasarathi, Hsi Chen, Shu-Jui Chang, Guan-Yi Liu, Tsung-Yu Yu, Chih-Wen Pao(包志文), Ting-Shan Chan(詹丁山), Wei-Tsung Chuang(莊偉綜), Chun-Chieh Wang(王俊杰), Ru-Jong Jeng, Nae-Lih Wu*(吳乃立), "*A Li-ion Permeable Poly(Phenylene Ether-ether-Sulfone) Interphase to Address Interfacial Instability and Structural Degradation of Ni-rich NCM Cathodes in Poly(Ethylene Oxide)-based All-solid-state Li-ion Batteries*", Chem. Eng. J. **523**, 168677 (2025). (I.F.=13.200)☆

127. Cheng-Yuan Lin, Jhe-Wei Chang, Meng-Hao Lin, Kuan-Chu Wu, Shao-Huan Hong, Jhih-Min Lin(林智敏), Chung-Wei Kung*(龔仲偉), Cheng-Liang Liu*(劉振良), "*Carbon Nanotube/Two-dimensional Metal-organic Framework Composites with Enhanced Thermoelectric Performances for Thermoelectric Generators*", Chem. Eng. J. **521**, 166861 (2025). (I.F.=13.200)☆

128. Laurien Merinda, Rio Akbar Yuwono, Fu-Ming Wang*(王復民), Nae-Lih Wu*(吳乃立), Citra Deliana Dewi Sundari, Chusnul Khotimah, Han-Pin Hsieh, Jeng-Kuei Chang, Shu-Chih Haw(何樹智), Chih-Wen Pao(包志文), Jeng-Lung Chen(陳政龍), Qunjie Xu, Yunwen Wu, Chi-Liang Chen(陳啟亮), Ting-Shan Chan(詹丁山), "*An Investigation of Localized Entropy Driven Cathode Electrolyte Interphase to a One-step Complete Deprotonation of Ethylene Carbonate on Ni-rich Layered Material of Lithium-ion Battery*", Chem. Eng. J. **525**, 170703 (2025). (I.F.=13.200)☆

129. Hyun Sik Moon, Yu-Jeong Yang, Getasew Mulualem Zewdie, Geon Youn, Yi-An Chen, Yu-Peng Chang, Kai-Chi Hsiao, Ting-Han Lin, Yi-Dong Lin, Jun Kue Park, Jucheol Park, Yan-Gu Lin(林彥谷), Ming-Chung Wu, Yung-Jung Hsu, Hyeyoung Shin*, Si-Young Choi*, Kijung Yong*, "*Tailoring Cu_3N_x Clusters on TiO_2 Nanosheets to the Sub-nanometric Scale for Enhancing NH_3 Photosynthesis*", Chem. Eng. J. **515**, 163915 (2025). (I.F.=13.200)☆

130. Thi Xuyen Nguyen, Chih-Heng Lee, Jun-Hong Sun, Chun-Kuo Peng, Wen-Hui Chu, Hamed Pourzolfaghar, Yu-Ru Lin, Muhammad Ghufron, Yuan-Yao Li, Yu-Hao Chang, Yan-Gu Lin(林彥谷), Hsin-Yi Tiffany Chen, Shih-Wen Tseng, Chia-Ying Su, Jyh-Ming Ting*(丁志明), "*Synergistic Modulation of Electronic Structure in High Entropy Perovskite Oxide for Enhanced Bifuntional Oxygen Evolution/Reduction Reactions and Its Mechanistic Insights via In-situ Analyses and Density Functional Theory Calculation*", Chem. Eng. J. **511**, 161731 (2025). (I.F.=13.200)☆

131. Zhong-En Shi, Yu-Fan Fu, Bo-Shun Peng, Ting-Chun Hung, Deebakkrishnan Ganesan, Rajendiran Balasaravanan, Shao-Huan Hong, Cheng-Liang Liu, Chun-Jen Su(蘇群仁), Ming-Chou Chen*(陳銘洲), Chih-Ping Chen*(陳志平), "*Tailoring Anchoring Functionalities of Self-assembled Materials for Efficient Wide-bandgap Perovskite Solar Cells*", Chem. Eng. J. **526**, 171321 (2025). (I.F.=13.200)☆

132. Nhu Anh Thi Than, Liang Ching Hsu, Yu-Hsien Chen, Kamonchanok Huangmee, Chun-Chieh Wang(王俊杰), Heng Yi Teah, Yu-Min Tzou, Yen-Lin Cho*(卓宴琳), Yu-Ting Liu*(劉雨庭), "*Anaerobic Fe(II) Bio-oxidation by Cyanidiophyceae to Enhance As(III) Removal: A Novel and Efficient Biological Material Toward Resilient Remediation*", Chem. Eng. J. **523**, 168303 (2025). (I.F.=13.200)☆

133. Gengsui Tian, Yao Chen*(陳瑤), Dingqin Hu, Peihao Huang, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Heng Liu, Seunglok Lee, Ke Yang, Tainan Duan, Xinhui Lu, Changduk Yang, Shirong Lu*(陸仕榮), Zeyun Xiao*(肖澤云), "*Tailoring Selenium Alkyl Chain-containing Small Molecule Donor Enables Efficient Ternary Solar Cells with Reduced Charge Recombination*", Chem. Eng. J. **513**, 163009 (2025). (I.F.=13.200)☆

134. Liping Ren, Kaini Zhang, Yu-Cheng Huang(黃裕呈), Ying Rui Lu(盧英睿), Hao Deng, Yan Ding, Chunying Chen, Bo Huang, Weibo Hua, Lin Fu, Xiaohui Zhao, Shaohua Shen, Jinjia Wei, and Jie Chen*(陳杰), "*Tailored Interatomic Interactions in High-entropy Alloys for Enhanced Electrocatalytic Hydrogen Evolution Reaction in Alkaline Water*", ACS Catalysis **15**, 11022 (2025). (I.F.=13.100)☆

135. Mizuki Sato, Keisuke Awaya, Masayuki Tsushida, Masato Machida, Nozomu Hiraoka(平岡望), and Junya Ohyama*, "*Rh K-edge High-energy-resolution Fluorescence-detected X-ray Absorption Near-edge Structure Spectroscopy Reveals Deactivated $RhAlO_x$ Structure in Aged Rh/γ-Al_2O_3 Catalyst*", ACS Catalysis **15**, 6466 (2025). (I.F.=13.100)☆

136. Qiyou Wang, Yusen Xiao, Feng Li, Yao Tan, Yuxiang Liu, Franz Gröbmeyer, Kang Liu, Junwei Fu, Hongmei Li, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), Rui-Kai Miao, Liyuan Chai, Emiliano Cortés*, and Min Liu*(劉敏), "*Engineering Interlayer Electric Fields to Enhance K^+ Insertion for Efficient Acidic CO_2 Reduction*", ACS Catalysis **15**, 15920 (2025). (I.F.=13.100)☆

137. Hao Zhang, Jinjie Liu, Zhihang Xu, Yuanzhi Bu, Tai-Sing Wu(吳泰興), Wei-Min Tu, Yun-Liang Soo, Cong Lin, Ye Zhu, Qiong Lei*(雷瓊), Jun Yin*(殷駿), and Tsz Woon Benedict Lo*(勞子桓), "*Tailoring Cu-based Nanoalloys for Highly Selective Electrochemical Urea Synthesis from CO_2 and Nitrate*", ACS Catalysis **15**, 8966 (2025). (I.F.=13.100)☆

138. Yuanjie Zheng, Qiqi Wu, Haonan Wang, Peng Wang, Wei-Hsiang Huang(黃偉翔), Yun Zhao, and Guangxu Chen*(陳光需), "*Selective Biomass Valorization in Neutral Electrolyte by Lowering the O_2 Activation Energy via Tandem Catalysis*", ACS Catalysis **15**, 18155 (2025). (I.F.=13.100)☆

139. Tse-Fu Huang, Kuei-Jhong Lin, Ying-Rang Zhuang, Yu-En Sun, Wei-Cheng Lin, Chun-Hao Li, Chien-Cheng Lin, En-Chi Chang, Chih-Li Chang, Yung-Ching Liu, Ling-Yu Hsu, Bing-Heng Li, Wan-Ling Chang, Pimjai Pimbaotham, Cheng-Yun Bai, Wei-Hsiang Huang(黃偉翔), Dung Chau Kim Hoang, Khanh Do Gia Huynh, Yi-Chan Huang, Chao-Yan Chung, Mohamed M. Elsenety, Chia-An Chang, Hsin-Ni Huang, Siriporn Jungsuttiwong, Chih-Wen Pao(包志文), Hsin-Lung Chen, Tien-Lin Wu, Chia-Chih Chang, Bo-Han Chen, Shang-Da Yang, Kun-Han Lin, "*Flexible, Nonfused Sulfone Functionalized Polymer with Enhanced Active Site Access for Photocatalytic Sacrificial Hydrogen Evolution*", Sci. Adv. **11**, eadx1629 (2025). (I.F.=12.500)☆

140. Zhongliang Huang, Qi Xiao, Tianyi Ding, Jing Xia*(夏靜), Changhong Zhan, Xiangmin Meng, Chih-Wen Pao(包志文), Zhiwei Hu, Wei-Hsiang Huang(黃偉翔), Yingru Wang, Nanjun Chen*(陳南君), Liang Cao*(曹亮), Xiaoqing Huang*(黃小青), "*Interfacial Metal-coordinated Bifunctional PtCo for Practical Fuel Cells*", Sci. Adv. **11**, eadt4914 (2025). (I.F.=12.500)☆

141. Po-Yuan Tsai, Tsai-Yu Chen, Wei-Tsung Chuang(莊偉綜), Shan-hui Hsu*(徐善慧), "*Self-assembled Chitosan-boronic Acid Hydrogel as Dynamic Crosslinker to Produce 3D-printable Glucose-sensitive Hydrogel*", Carbohydr. Polym. **363**, 123737 (2025). (I.F.=12.500)☆

142. Tao Wang, Fenghui Gong, Xue Ma, Shen Pan, Xian-Kui Wei, Chang-Yang Kuo(郭昌洋), Suguru Yoshida, Yu-Chieh Ku, Shuai Wang, Zhenni Yang, Sankalpa Hazra, Kelvin H. L. Zhang, Xingjun Liu, Yunlong Tang, Yin-Lian Zhu, Chun-Fu Chang, Sujit Das, Xiuliang Ma, Lang Chen, Bin Xu, Venkatraman Gopalan, Laurent Bellaiche, Lane W. Martin, Zuhuang Chen*(陳祖煌), "*Large Enhancement of Ferroelectric Properties of Perovskite Oxides via Nitrogen Incorporation*", Sci. Adv. **11**, eads8830 (2025). (I.F.=12.500)☆

143. Qingran Zhang, Yihao Shan, Jian Pan, Priyank Kumar, Mark J. Keevers, John Lasich, Gurpreet Kour, Rahman Daiyan, Ivan Perez-Wurf, Lars Thomsen, Soshan Cheong, Junjie Jiang, Kuang-Hsu Wu, Chao-Lung Chiang(江昭龍), Kristian Grayson, Martin A. Green, Rose Amal*, Xunyu Lu*, "*A Photovoltaic-electrolysis System with High Solar-to-hydrogen Efficiency Under Practical Current Densities*", Sci. Adv. **11**, eads0836 (2025). (I.F.=12.500)☆

144. Rui Zhao, Qi Wang, Yancai Yao*(么艷彩), Ruizhao Wang, Long Zhao, Zhiwei Hu, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), Wenhuai Li, Qian Zheng, Jiaxian Wang, Xingyue Zou, Kaiyuan Wang, Jie Dai*(戴潔), Xiang-Kui

Gu*(顧向奎), Lizhi Zhang*(張禮知), "*Pd single Atoms Guided Proton Transfer Along an Interfacial Hydrogen Bond Network for Efficient Electrochemical Hydrogenation*", Sci. Adv. **11**, eadu1602 (2025). (I.F.=12.500)☆

145. Shaikh Saddam Shoukat Ali, Shaheen A. Khan, Yi-Ting Tsai, Chi-Hsuan Lee, Yen-Fang Song(宋艷芳), Gung-Chian Yin(殷廣鈐), Chung-Kai Chang(張仲凱), Yu-Chun Chuang(莊裕鈞), Shing-Jong Huang, Chun-Wei Pao(包志文), Tsan-Yao Chen, and Mu-Huai Fang*(方牧懷), "*Supersaturation-driven Co-precipitation Enables Scalable Wet-chemical Synthesis of High-purity Na_3InCl_6 Solid Electrolyte for Sodium-ion Batteries*", Small **21**, e09165 (2025). (I.F.=12.100)☆

146. Samiksha Bajaj, Shang-Jui Chiu(邱上睿), Jia Wei Chen, Paul Albert Sino, Chih-Wen Yang, Chieh-Ting Chen, Ing-Shouh Hwang, Yan-Gu Lin(林彥谷), Ying Hao Chu, Yu-Lun Chueh, and Jyh Ming Wu*(吳志明), "*Quantitative Study of Reversible Nonvolatile VO_2 Thin Films Through Plasma Driven Phase Engineering Process*", Small **21**, 2408656 (2025). (I.F.=12.100)☆

147. Pok Fung Chan, Yongmin Luo, Haiyang Cheng, Xuezhou Wang, Ni Zhao, Jiaying Wu, Chun-Jen Su(蘇群仁), Jhih-Min Lin(林智敏), Hengkai Zhang, and Xinhui Lu*(路新慧), "*Ultra-thin Lead Sulfide Capping for Stabilizing Tin Halide Perovskite Solar Cells*", Small **21**, e06340 (2025). (I.F.=12.100)☆

148. Bin Chang, Chung-Hao Chen, Atsushi Yabushita, Tzu-Ching Lu, Ching-En Tsai, Ting-Yi Chu, Shaun Tan, Cheng-Si Tsao(曹正熙), Yu-Sheng Chu, Fang-Cheng Ou, and Kung-Hwa Wei*(韋光華), "*Ternary Blend Organic Photovoltaics with High Efficiency and Stability Through Energy Transfer and Molecular Packing Induced by an A-D-A Small Molecule*", Small **21**, 2500692 (2025). (I.F.=12.100)☆

149. Yao-Wen Chang, Yu-Chen Liu, Shih-Wen Huang, Jia-Yuan Sun, Sheng-Zhu Ho, Wen-Yen Tzeng, Chun-Chien Chiu, Yu-Chieh Ku, Puneet Kaur, Tim A. Butcher, Cinthia Piamonteze, Urs Staub, Yi-Chun Chen, Chun-Fu Chang, Chang-Yang Kuo(郭昌洋), Ying-Hao Chu, Armin Kleibert, Chih-Wei Luo, and Jan-Chi Yang*(楊展其), "*Correlated Magnetic and Electrical Phenomena in Epitaxially Weaved Manganite Lateral Homostructures*", Small **21**, 2411424 (2025). (I.F.=12.100)☆

150. Yu-Ming Chen, Yu-Ching Chen, Kuang-Yuan Tu, Yi-Dong Lin, Yan-Gu Lin(林彥谷), Hsun-Yen Lin, Samiksha Bajaj, and Jyh Ming Wu*(吳志明), "*Piezocatalysis-enabled High-efficiency Hydrogen Evolution with Single-atom Platinum on MoS_2 Nanoflowers*", Small **21**, e08162 (2025). (I.F.=12.100)☆

151. Shasha Guo, Mohamed Ait Tamerd*, Changyuan Li, Xinyue Shi, Menghao Yang, Jingrong Hou, Jie Liu, Mingxue Tang, Shu-Chih Haw(何樹智), Chien-Te Chen(陳建德), Ting-Shan Chan(詹丁山), Chang-Yang Kuo(郭昌洋), Zhiwei Hu, Long Yang*(楊龍), and Jiwei Ma*(馬吉偉), "*Activating Sodium Intercalation in Cation-deficient Fe_3O_4 Through Mo Substitution*", Small **21**, 2408212 (2025). (I.F.=12.100)☆

152. Jia-Kai Hu, Yu-Ju Lee, Cheng-Chieh Wu, Chi-Hung Lee, Chun-Ming Wu(吳浚銘), Hung-Cheng Wu, Kazuhiro Nawa, Katsuki Kinjo, Taku J. Sato, and Pai-Chun Wei*(魏百駿), "*Dual Crystal-liquid Thermal Transport Behavior in $MAPbCl_3$*", Small **21**, 2408773 (2025). (I.F.=12.100)☆

153. Wen-Tse Huang, Yi-Shin Chen, Yen-Huei Lin, Agata Lazarowska, Natalia Majewska, Sebastian Mahlik, Grzegorz Leniec, Hsiao-Yu Huang(黃筱妤), Amol Singh(辛艾蒙), Di-Jing Huang(黃迪靖), Pengfei Fu, Zewen Xiao*(肖澤文), and Ru-Shi Liu*(劉如熹), "*Rational Design of Organic Manganese Halides for High Quantum Efficiency and Stability*", Small **21**, 2501075 (2025). (I.F.=12.100)☆

154. Pinxian Jiang, Mohamed Ait Tamerd, Wei-Hsiang Huang(黃偉翔), Menghao Yang, Zhengkun Xie*(謝正坤), and Jiwei Ma*(馬吉偉), "*Rational Defect and Fluorine Chemistry in Tin Oxide Enables Reversible Na Intercalation with a Stable NaF-rich SEI Formation*", Small **21**, e06470 (2025). (I.F.=12.100)☆

155. Chia-Yu Lee, Ching-Chieh Hsu, Chia-Hsin Wang(王嘉興), U-Ser Jeng(鄭有舜), Shih-Huang Tung, Chi-Chang Hu, and Cheng-Liang Liu*(劉振良), "*Exploring Pyrazine-based Organic Redox Couples for Enhanced Thermoelectric Performance in Wearable Energy Harvesters*", Small **21**, 2407622 (2025). (I.F.=12.100)☆

156. Jui-Tai Lin, Yueh-Chun Hsiao, Chao Li, Ching-Yuan Tseng, Zong-Ying He, Adrian M. Gardner, Yi Chen, Chueh-Cheng Yang(楊爵丞), Chia-Hsin Wang(王嘉興), Shang-Cheng Lin, Xin-Xuan Lin, Chih-Yi Lin, Kun-Han Lin, Alexander J. Cowan*, and Tung-Han Yang*(楊東翰), "*Spectroscopic and Theoretical Insights Into High-entropy-alloy Surfaces and Their Interfaces with Semiconductors for Enhanced Photocatalytic Hydrogen Production*", Small **21**, 2503512 (2025). (I.F.=12.100)☆

157. Yun-Han Huang Lu, I-Lun Jen, Ching-Yu Chiang(蔣慶有), Wan-Zhen Hsieh(謝宛蓁), Gung-Chian Yin(殷廣鈐), Yen-Fang Song(宋艷芳), and Hsin-Jay Wu*(吳欣潔), "*Modulating Solid-solution Solubility to Enhance Thermoelectric*

Performance and Maintain Structural Stability in Phase-transition Silver Chalcogenides", Small **21**, 2401583 (2025). (I.F.=12.100)☆

158. Pandian Mannu, Ranjith Kumar Dharman, Ta Thi Thuy Nga, Athibala Mariappan, Yu-Cheng Shao(邵禹成), Hirofumi Ishii(石井啟文), Yu-Cheng Huang, Asokan Kandasami, Tae Hwan Oh*, Wu-Ching Chou, Chi-Liang Chen(陳啟亮), Jeng-Lung Chen(陳政龍), and Chung-Li Dong*(董崇禮), "*Tuning of Oxygen Vacancies in Co_3O_4 Electrocatalyst for Effectiveness in Urea Oxidation and Water Splitting*", Small **21**, 2403744 (2025). (I.F.=12.100)☆

159. Zhixing Mou, Yuewen Mu, Lijia Liu, Daili Cao, Shuai Chen, Wenjun Yan, Haiqing Zhou, Ting-Shan Chan(詹丁山), Lo-Yueh Chang(張羅嶽), Junjie Guo*(郭俊杰), and Xiujun Fan*(范修軍), "*Non-metal Silicon Single-atom Catalysts with Unsymmetrically Tetradentate O_3N_1 Moiety Enabling Ampere-level H_2O_2 Electrosynthesis*", Small **21**, 2504777 (2025). (I.F.=12.100)☆

160. Qiyou Wang, Yuxiang Liu, Yao Tan, Yusen Xiao, Liling Liao, Junwei Fu, Shilin Zhao, Hongmei Li, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), Haiqing Zhou, Feng Li, Liyuan Chai, Zhang Lin, Kang Liu*(劉康), and Min Liu*(劉敏), "*Enhanced Acidic CO_2-to-C_{2+} Reduction via Ionic Liquid Layer Modification*", Small **21**, 2412293 (2025). (I.F.=12.100)☆

161. Shu-Chi Wu, Shih-Ming Lin, Heng-An Lo, Shin-Yi Tang, Yu-Chieh Hsu, Yu-Ren Peng, Bing-Ni Gu, Yu-Ting Chen, Ying-Chun Shen, Tai-Sing Wu(吳泰興), Chung-Yu Chen, Hsaing-Ju Liao, Ling Lee, and Yu-Lun Chueh*(闕郁倫), "*Design of Electrolyte Using Deep Eutectic Solvents for High-performance Rechargeable Nickel-iodine Batteries*", Small **21**, 2412549 (2025). (I.F.=12.100)☆

162. Yuan Xiang, Ahmed Gamal AboElsood, Wei-Tsung Chuang(莊偉綜), Yu-Chueh Hung, and Yeo-Wan Chiang*(蔣酉旺), "*Engineering Precursor Localization via Solvency for Simultaneously Metallizing and Hollowing Bicontinuous Gyroid Structures*", Small **21**, 2505516 (2025). (I.F.=12.100)☆

163. Cheng-Chi Yang, Serhii Makovetskyi, Ya-Chu Yang, I-Ching Hsu, Sen-Hung Hsieh, Yao-Chang Lee(李耀昌), Shu-Chih Haw(何樹智), Fu-Te Tsai*(蔡富潯), and Wen-Feng Liaw*(廖文峯), "*Competitive Optimization of Interfacial Water Dissociation and Hydroxyl Reductive Desorption of MoCoNi-based Catalysts for Superior Alkaline Hydrogen Evolution*", Small **21**, 2503278 (2025). (I.F.=12.100)☆

164. Xin You, Hao Zhang, Xiaolu Xiong, Zhiwei Hu(胡志偉), Chang-Yang Kuo(郭昌洋), Fan-Hsiu Chang(張凡修), Chien-Te Chen(陳建德), Zhenya Li, Wenjie Bian, Chao Jing, Jian-Qiang Wang*(王建強), and Linjuan Zhang*(張林娟), "*In Situ Self-assembled 200 nm-depth Highly Active Layer Non-precious Metals Catalyst for Industrial Water Electrolysis*", Small **21**, 2408495 (2025). (I.F.=12.100)☆

165. Qi Zhang, Jing Zhou, Cheng-Wei Kao(高振瑋), Shanqiang Gao, Jilong Li, Ying-Rui Lu(盧英睿), Dingwang Yuan*(袁定旺), Nithyadharseni Palaniyandy, and Yongwen Tan*(譚勇文), "*Interfacial Electronic Interactions Induced by Self-assembled Amorphous RuCo Bimetallenes/MXene Heterostructures for Nitrate Electroreduction to Ammonia*", Small **21**, 2502635 (2025). (I.F.=12.100)☆

166. Han Li, Zhangyi Xu, Tsung-Yi Chen(陳琮宜), Fangyuan Meng, Hang Chen, Chengshuai Liu*(劉承帥), Guanglei Qiu, Chunhua Feng*(馮春華), "*Microbial Transformation of Fenton Sludge to Crystalline Iron Minerals with Fermentation-derived Phosphorous for Heavy Metal Immobilization*", J. Hazard. Mater. **495**, 139050 (2025). (I.F.=11.300)☆

167. Thi Hang Vu, Lam Nguyen Phan, Xu-Feng Luo(羅旭峯), Avi Arya, Thao Nguyen, Jeng-Kuei Chang, and Yu-Sheng Su*(蘇育陞), "*Exploring Mismatched Na^+ and Li^+ Electrolytes for $Li_4Ti_5O_{12}$ Spinel Anodes in Li-ion and Na-ion Batteries*", Small Struct. **6**, 2400623 (2025). (I.F.=11.300)☆

168. Lijuan Zeng, Guining Lu, Feng Jiang, Ying-Jie Zhang, Xiaohu Jin, Weilin Huang, Yu-Jung Lin, Jyh-Fu Lee(李志甫), Xiaoyun Yi*(易筱筠), Zhi Dan, "*Quantitative Prediction and Mechanistic Insights into Cu(II) Transport in Kaolinite-coated Sand Columns Affected by Ferrihydrite Nanoparticles*", J. Hazard. Mater. **495**, 139036 (2025). (I.F.=11.300)☆

169. Cheng-Han Tso, Chih-Hung Hsu, Jiali Wang, Po-Yi Lin, Huang-Teng Lin, Nozomu Hiraoka(平岡望), Ming-Kang Tsai*(蔡明剛), Chih-Hsin Chen*(陳志欣), and Hao Ming Chen*(陳浩銘), "*Medium Spin Fe^{III} Regulating the Peroxide Selectivity in the Heterogeneous Oxygen Reduction Reaction of Spin-polarized Fe-TAML Complexes*", Mater. Horizons **12**, 9808 (2025). (I.F.=10.700)☆

170. Zhen-Li Yan, Guan-De Wu, Chu-Chen Chueh, Ying-Chi Huang, Bi-Hsuan Lin(林碧軒), Jia-Hau Tsai, Mei-Hsin Chen, Zong-Liang Tseng, Ye Zhou*(周曄), Ru-Jong Jeng*(鄭如忠), and Chi-Ching Kuo*(郭霽慶), "*Framing Emission Gain Layers for Perovskite Lightemitting Diodes Using Polycaprolactone-silver Nanoparticles Featuring Forster Resonance Energy Transfer and Purcell Effects*", Mater. Horizons **12**, 935 (2025). (I.F.=10.700)☆

171. Tuan-Yue Lin, Bing-Xi Lee, Liang-Cheng Lo, Guan-Min Chen, I-Mao Chen, Hsin-I Tsai, Yu-Chen Liu, Yi-Wei Tsai(蔡一葦), Kang-Ching Chu(朱罡慶), Mau-Tsu Tang(湯茂竹), Bi-Hsuan Lin(林碧軒), Yu-Ze Chen*(陳雨澤), "*Suppressing Intergranular Corrosion and Uniformizing Zn Deposition for Highly Reversible Anode Toward High Zn Utilization Rate Aqueous Zn Ion Battery*", J. Energy Storage **118**, 116266 (2025). (I.F.=9.800)☆

172. Jirapha Pimoei, Wathanyu Kao-ian, Mongkol Tipplook, Teshima Katsuya, Suparada Kamchompoo, Siriporn Jungsuttiwong, Jeng-Lung Chen(陳政龍), Chih-Wen Pao(包志文), Pinit Kidkhunthod, Wanwisa Limphirat, Soorathep Kheawhom, Anongnat Somwangthanaroj*, "*Advancing Zinc-iodine Battery Performance with MgAl Layered Double Hydroxides on Carbon for Iodine Encapsulation*", J. Energy Storage **112**, 115504 (2025). (I.F.=9.800)☆

173. Tien-Hung Chen, Chung-Sheng Ni, Chi-Yu Lai, Sanna Gull, Yun-Chen Chu, Wen-Yang Jao, Chi-Chang Hu, Shih-Fu Liu, Chong-Chi Chi, Tsung-Yi Chen(陳琮宜), Jyh-Fu Lee(李志甫), Chih-Wen Pao(包志文), Jeng-Lung Chen(陳政龍), Han-Yi Chen*(陳翰儀), Jin-Hua Huang*(黃金花), "*Enhanced Oxygen Evolution and Power Density of Co/Zn@NC@MWCNTs for the Application of Zinc-air Batteries*", J. Colloid Interf. Sci. **679**, 119 (2025). (I.F.=9.700)☆

174. Yuhui Chen, Jun Li, Yiqing Chen, Ying Cheng, Xinxin Tian, Dongdong Xiao, Hsiao-Tsu Wang, Ying-Rui Lu(盧英睿), Linjie Zhang*(張林杰), Wenlie Lin*, Jun Luo, Lili Han*(韓麗麗), "*Nitrogen-doping-induced Electron Spin Polarization Activates Scandium Oxide as High-performance Zinc-air Battery Cathode*", J. Colloid Interf. Sci. **686**, 96 (2025). (I.F.=9.700)☆

175. Tatsuma Fujita, Megumi Matsuda, Po-Shen Lin, Che-An Chou, Jhih-Min Lin(林智敏), Cheng-Liang Liu*(劉振良), Tomoya Higashihara*, "*Improved Thermoelectric Performance of Phenylalkyl-substituted Polythiophene/Single-walled Carbon Nanotube Nanocomposites*", J. Colloid Interf. Sci. **699**, 138299 (2025). (I.F.=9.700)☆

176. Yubin Liu, Jiaqi Deng, Sijing Tan, Xun Ou, Junfeng Luo, Jiaxu Fang, Zaowen Zhao*(趙早文), Chi-Liang Chen(陳啟亮), Ronghua Zeng, Xiaoyang Zhang, Hong Li*(李紅), Jiliang Zhang, Ruirui Zhao*(趙瑞瑞), "*Achieving Stable Cathode-electrolyte Interface via In-situ Electrochemical Structural Rearrangement for High-voltage Layered Cathodes*", J. Colloid Interf. Sci. **699**, 138172 (2025). (I.F.=9.700)☆

177. Wen-Hsuan Lu, Yen-Lin Chen, Tsung-Yi Chen(陳琮宜), Hao-Hsiang Chang, Hung-Lin Chen, Ai-Yin Wang, Tsung-Chan Wu, Pei-I Wei, I-Sheng Wang, Wei Kong Pang*, Han-Yi Chen*(陳翰儀), "*High-entropy NASICON-type $Li_{1.3}Al_{0.4}Ti_{0.5}Zr_{0.5}Sn_{0.5}Ta_{0.1}(PO_4)_3$ with High Electrochemical Stability for Lithium-ion Batteries*", J. Colloid Interf. Sci. **684**, 109 (2025). (I.F.=9.700)☆

178. Chia-Chang Hsieh, Jun-Zhi Dai, Chun-Chuan Ni, Shih-Yen Wei, Min-Chun Tsai, Po-Yu Chen, Ling Fang, Ren-Hao Xie, Guan-Yu Chen, Gung-Chian Yin(殷廣鈐), and Ying-Chieh Chen*(陳盈潔), "*Prevascularized Hydrogel Enhancing Innervation and Repair of Full-thickness Volumetric Muscle Loss in Abdominal Wall Defects*", Adv. Healthc. Mater. **14**, 2402433 (2025). (I.F.=9.600)☆

179. Ming-Hsin Liu, Zhen-Jie Gao, Wei-Yung Huang, Chi-Hung Hsiao, Vincent Chen, Lee-Jene Lai(賴麗珍), Zi-Jing Lin(林子敬), Mo D.-S. Hua(華莫達桑), Chia-Chun Hsieh(謝嘉濬), Er-Yuan Chuang, Jiashing Yu*(游佳欣), and Ken-Tsung Wong*(汪根欉), "*New NIR-activated Organic Molecule-based Nanocomposite as an Efficient Sensitizer for Photothermal and Photodynamic Therapy of Cancer*", Adv. Healthc. Mater. **14**, 2404418 (2025). (I.F.=9.600)☆

180. Kai-Yuan Hsiao, Yi-Dong Lin, Yu-Ru Lin, Ching-Wei Chin, Chun-Hui Lin, Ruei-Hong Cyu, Yan-Gu Lin(林彥谷), Yu-Lun Chueh, and Ming-Yen Lu*(呂明諺), "*Atomic-scale Visualization of Single Atom Formation in Metal-organic Frameworks*", J. Mater. Chem. A **13**, 21077 (2025). (I.F.=9.500)☆

181. Jheng-Yi Huang, Kevin Iputera, Yen-Ting Lin, Yuan-Ting Hung, Yu-Shuo Liu, Yun-Ping Chang, Behrouz Bazri, Bo-Hong Liu(劉柏宏), Da-Hua Wei*(魏大華), Bih-Yaw Jin*(金必耀), and Ru-Shi Liu*(劉如熹), "*Exploring Dehydration Mechanisms and Conductivity Optimization in $Li_3InCl_6.xH_2O$ via in Situ Synchrotron Techniques*", J. Mater. Chem. A **13**, 2895 (2025). (I.F.=9.500)☆

182. Jing-Fang Huang*(黃景帆), Liang-Jhu Chen, Bo-Zhao Yang, and Jeng-Lung Chen(陳政龍), "*Spontaneous Deposition of High-density Pt Single Atoms on Oxides via Charge Polarization Between Oxides and Carbon*", J. Mater. Chem. A **13**, 13734 (2025). (I.F.=9.500)☆

183. Yu-Syuan Jheng, Ling-Chieh Lee, Shao-Huan Hong, Ching-Chieh Hsu, Qing-Bao Zheng, Chia-Hsin Wang(王嘉興), U-Ser Jeng(鄭有舜), Shih-Huang Tung, and Cheng-Liang Liu*(劉振良), "*Sustainable and Recyclable Ionogels for Ionic Thermoelectric Supercapacitor Application*", J. Mater. Chem. A **13**, 10655 (2025). (I.F.=9.500)☆

184. Bing-Huang Jiang, Zih-Ruei Huang, Chun-Jen Su(蘇群仁), Zhong-En Shi, Choon Kit Chan, Yu-Chih Hsu, Yang-Yen Yu*(游洋雁), and Chih-Ping Chen*(陳志平), "*High-efficiency All-polymer Ternary Blends Enable Exceptional Thermal Stability in Organic Photovoltaics*", J. Mater. Chem. A **13**, 27152 (2025). (I.F.=9.500)☆

185. Rohit R. Koli, I-Hua Tsai, Yu-Bin Huang, Chia-Hsin Wang(王嘉興), Bo-Hong Liu(劉柏宏), Raghunath Putikam, M. C. Lin, Eric Wei-Guang Diau*(刁維光), "*Development of Single Crystalline Al-doped ZnS Nanodiscs as Efficient Photocatalysts for H_2 Evolution Reaction*", J. Mater. Chem. A **13**, 34615 (2025). (I.F.=9.500)☆

186. Chun-Han Kuo, Po-Yen Huang, Ai-Yin Wang, Hao-Yu Liu, Hsu-Chen Cheng, Chih-Heng Lee, Cheng-Rong Hsing, Shu-Yu Chen, Chien-Hao Yeh, Hsiang-Jung Chen, Huaican Chen, Wen Yin, Jianyuan Wu, Chih-Wen Pao(包志文), Wang Hay Kan*(簡宏希), Hsin-Yi Tiffany Chen*(陳馨怡), and Han-Yi Chen*(陳翰儀), "*A Medium-entropy Garnet-type Oxide as a Solid Electrolyte with Enhanced Air Stability for Li-ion Batteries*", J. Mater. Chem. A **13**, 8608 (2025). (I.F.=9.500)☆

187. Koya Nishiyama, Yi-Tso Hsiao, Wei-Ni Wu, Jhih-Min Lin(林智敏), Shih-Huang Tung, Cheng-Liang Liu*(劉振良), and Tomoya Higashihara*, "*Controlled Synthesis of Alkylthio-substituted Poly(Thienylene Vinylene) and Its Carbon Nanotube Composites for Enhanced Thermoelectric performance*", J. Mater. Chem. A **13**, 3551 (2025). (I.F.=9.500)☆

188. Anggrahini Arum Nurpratiwi, Amit Kumar Sharma, Chia-Wei Chang, Chih-Wen Pao(包志文), Wei-Hsiang Huang(黃偉翔), and Yen-Hsun Su*(蘇彥勳), "*Single-atom Cobalt Catalysts Engineered on Tunable CNNO Nanosheets for Hydrogen Generation*", J. Mater. Chem. A **13**, 38807 (2025). (I.F.=9.500)☆

189. Cheng-Yen Wu, Chen-En Huang, An-Chi Luo, Wen-Hsuan Lu, Shao-Chu Huang, Yu-Ming Huang, Vanessa K. Peterson, Hao-Yu Liu, Chi-Liang Chen(陳啟亮), Ying-Rui Lu(盧英睿), Tsung-Yi Chen, Cheng-Zhang Lu*(陸成章), Wei Kong Pang*, and Han-Yi Chen*(陳翰儀), "*Enabling High-performance and High-ratecapability $Na_4MnV(PO_4)_3$ Sodium-ion Battery Cathodes Through Tuning the NASICON Framework*", J. Mater. Chem. A **13**, 2716 (2025). (I.F.=9.500)☆

190. Wei-Ni Wu, Koya Nishiyama, Chun-Yu Chen, Jhih-Min Lin(林智敏), Shih-Huang Tung, Tomoya Higashihara*, and Cheng-Liang Liu*(劉振良), "*Tuning the Nano-scale Aggregate Structure of Conjugated Block Copolymers for Enhanced Singlewalled Carbon Nanotube Dispersion and Thermoelectric Applications*", J. Mater. Chem. A **13**, 31542 (2025). (I.F.=9.500)☆

191. Ya-Ting Yang, Bo-Hao Chen(陳柏豪), Arnab Pal, Chih-Hsueh Li, Zong-Hong Lin, and Michael H. Huang* (黃暄益), "*Lattice Variations in $CaTiO_3$ Cubes and Cuboids and Their Use in Photocatalytic Benzimidazole Formation*", J. Mater. Chem. A **13**, 10475 (2025). (I.F.=9.500)☆

192. Jilu Zhang, Xinyue Zhai, Tian Zhao, Xiaoxia Yang, Qin Wang, Zhongjun Chen, Meng-Cheng Chen, Jian-Jie Ma, Ying-Rui Lu(盧英睿), Sung-Fu Hung(洪崧富), and Weibo Hua*(滑緯博), "*What Impact Does Ammonia Have on the Microstructure of the Precursor and the Electrochemical Performance of Ni-rich Layered Oxides?*", J. Mater. Chem. A **13**, 1181 (2025). (I.F.=9.500)☆

193. Wei-Cheng Chang, Maulik K. Patel, Wan-Zhen Hsieh(謝宛蓁), Ching-Yu Chiang(蔣慶有), Fan-Yi Ouyang*(歐陽汎怡), "*Synergistic Effect of Nanotwins and Compositional Entropy on the Radiation Resistance of CoCrFeNi Thin Films*", Acta Mater. **299**, 121420 (2025). (I.F.=9.300)☆

194. You Sub Kim, Taeuk Kang, Soon-Ku Hong, Jamieson Brechtl, Mikhail Lebyodkin, Yi-Hsuan Cheng, E-Wen Huang, Peter K. Liaw, Stefanus Harjo, Wu Gong, Ching-Yu Chiang(蔣慶有), Soo Yeol Lee*, "*Fundamental Mechanisms of Discontinuous Deformation in Metals for Cryogenic-environment Applications*", Acta Mater. **292**, 120970 (2025). (I.F.=9.300)☆

195. Hai-Dong Dai, Hua-Bin Sun*(孫華斌), Ya-Nan Jiang, Yu-Wei Chen, Xiao-Kai Ding, Chien-Te Chen(陳建德), Chang-Yang Kuo(郭昌洋), Zhi-Wei Hu, Lu-Lu Zhang*(張璐璐), and Xue-Lin Yang*(楊學林), "*Deciphering the Impact of Graphene Oxide Incorporation on Structural, Chemical, and Electrochemical Properties of $Na_2Fe(SO_4)_2$ Cathode Materials*", Nano Lett. **25**, 6855 (2025). (I.F.=9.100)☆

196. Berhanu Degagsa Dandena, Wei-Nien Su*(蘇威年), Dah-Shyang Tsai, Yosef Nikodimos, Bereket Woldegbreal Taklu, Hailemariam Kassa Bezabh, Gidey Bahre Desta, Sheng-Chiang Yang, Keseven Lakshmanan, Hwo-Shuenn Sheu(許火順), Chia-Hsin Wang(王嘉興), She-Huang Wu, and Bing Joe Hwang*(黃炳照), "*Li-Sb Alloy Formation Strategy to Improve Interfacial Stability of All-solid-state Lithium Batteries*", Small Methods **9**, 2400571 (2025). (I.F.=9.100)☆

197. Fei Dou, Yanfangchen Chang, Yanfei Zhang, Qian Li, Tsung-Yi Chen(陳琮宜), Yan Yan, Yangyang Sun, Xiaotian Guo, Chenhui Yin, Huijie Zhou, Han-Yi Chen, and Huan Pang*(龐歡), "*Improving Electron and Ion Transport in Nano-Si*

Anodes through Integration with Conductive Nano-metal-organic Frameworks", Nano Lett. **25**, 8915 (2025). (I.F.=9.100)☆

198. Thanigai Arul Kumaravelu*, Ta Thi Thuy Nga, Ramana Ramya J, Gajendiran J, Karthikeyan M, Wu-Ching Chou, Jeng-Lung Chen(陳政龍), Chi-Liang Chen(陳啟亮), Bi-Hsuan Lin(林碧軒), Chao-Hung Du, Ping-Hung Yeh, Asokan Kandasami, Ju-Hung Hsu, Chun-Chieh Wang, and Chung-Li Dong*(董崇禮), "*Bifunctional NiCo-CuO Nanostructures: A Promising Catalyst for Energy Conversion and Storage*", Small Methods **9**, 2401463 (2025). (I.F.=9.100)☆

199. Liangbin Liu, Yang Yang, Changhong Zhan, Zhongliang Huang, Jing Xia, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu, Wei Liu, Nanjun Chen*(陳南君), and Xiaoqing Huang*(黃小青), "*Geometrically Ordered Triangular-atom-unit Zn-PtCo Intermetallic for Highly Efficient and Durable Fuel Cells*", Nano Lett. **25**, 16203 (2025). (I.F.=9.100)☆

200. Chia-Yun Sung, Yu-Hao Tu, Le Thi Quynh, Ching-Min Su, Hung-Yi Wu, Lu-Hsing Chen, Kuo-Ping Chen, Wan-Zhen Hsieh(謝宛蓁), Ching-Yu Chiang(蔣慶有), Wen-Hui Sophia Cheng*(鄭文惠), and Ying-Hao Chu*(朱英豪), "*Ag Nanocrystals Intercalated Muscovite Mesocrystal for Large-scale 3D SERS*", Nano Lett. **25**, 11632 (2025). (I.F.=9.100)☆

201. Angelina Melanita Tarigan, Mia Rinawati, Sofiannisa Aulia, Ling-Yu Chang, Chia-Yu Chang, Wei-Nien Su, Shu-Chih Haw(何樹智), Wei-Hsiang Huang(黃偉翔), Heru Setyawan, and Min-Hsin Yeh*(葉旻鑫), "*Dual-driven Activation of High-valence States in Prussian Blue Analogues Via Graphene-quantum Dots and Ozone-induced Surface Restructuring for Superior Hydrogen Evolution Electrocatalyst*", Small Methods **9**, 2401708 (2025). (I.F.=9.100)☆

202. Jiajin Lin, Jin Yang, Tan Li*(李坦), Shuaiqi Zhao, Wei-Hsiang Huang(黃偉翔), Chi-Liang Chen(陳啟亮), Yun Zhao, Shumin Liu, Lin Gu, Leneng Yang, Yongcai Qiu, and Guangxu Chen*(陳光需), "*Surface Structure Engineering of PtCu Clusters Enhances the Performance of Propane Dehydrogenation*", Nano Res. **18**, 94907357 (2025). (I.F.=9.000)☆

203. Hitoshi Yamaoka*, Hiroshi Tanida, Eike F. Schwier, Yoshiya Yamamoto, Shiv Kumar, Masashi Arita, Kenya Shimada, Fumisato Tajima, Renta Onodera, Takashi Nishioka, Hirofumi Ishii(石井啟文), Nozomu Hiraoka(平岡望), and Jun'ichiro Mizuki*, "*Itinerant to Localized Heavy Electron Magnetism in $Ce(Ru_{1-x}Rh_x)_2Al_{10}$: A Direction-dependent Phase Diagram beyond the Doniach Phase Diagram*", Phys. Rev. Lett. **135**, 266503 (2025). (I.F.=9.000)☆

204. Quoc-Nam Bui, Chun-Jen Su(蘇群仁), Yian Tai*(戴襲), "*Phenethylammonium-induced edge Passivation for Regulated Growth of Dual-spacer Ruddlesden-popper Perovskite Films*", Mater. Today Energy **54**, 102055 (2025). (I.F.=8.600)☆

205. Yu-Syuan Jheng, Ching-Chieh Hsu, Shao-Huan Hong, Chi-Wei Hsu, Shiao-Wei Kuo, Chia-Hsin Wang(王嘉興), U-Ser Jeng(鄭有舜), Shih-Huang Tung, Cheng-Liang Liu*(劉振良), "*Impact of Halide Anions on Ionic Transport and Thermoelectric Properties of Polyvinyl Alcohol-based Eutectogel*", Mater. Today Energy **54**, 102105 (2025). (I.F.=8.600)☆

206. Pin-Hao Chen, Yen-Hua Chen*(陳燕華), Ming-Chih Hsieh, Yan-Wei Huang, Chien-Che Huang, Wei-Teh Jiang, Jey-Jau Lee(李之釗), Yao-Chang Lee(李耀昌), Hwo-Shuenn Sheu(許火順), "*Fault Materials and Creep Characteristics in Mudstone Areas: A Case Study of Chegualin Fault in Southwestern Taiwan*", Eng. Geol. **350**, 108020 (2025). (I.F.=8.400)☆

207. Chia-Yu Hsu, Nikolaos Kostoglou*, Christian Mitterer, Claus Rebholz, Chung-Kai Chang(張仲凱), Yu-Chun Chuang(莊裕鈞), Cheng-Yu Wang*(王誠佑), "*Enhanced Dehydrogenation and Regeneration Behavior of $LiBH_4$-$LiAlH_4$-$MgCl_2$ in Nanoporous Carbons*", Int. J. Hydrogen Energ. **106**, 712 (2025). (I.F.=8.300)☆

208. Utkarsh Shashank, Takafumi Tomoda, Arun Jacob Mathew, Garima Vashisht, Koki Imai, Yu Kusaba, Chung-Li Dong, Chi-Liang Chen(陳啟亮), Yoichi Horibe, Manabu Ishimaru, Hiroyuki Awano, Hironori Asada, and Yasuhiro Fukuma*, "*Giant Spin-orbit Torque Induced by Spin Hall Effect in Amorphous Pt(P) Alloys*", NPG Asia Mater. **17**, 15 (2025). (I.F.=8.300)☆

209. Yu-Chin Shen, Chun-Chi Chang, Dipti R. Sahu, Wen-Huei Chu, Chi-Liang Chen(陳啟亮), Wei-Nien Su, Jow-Lay Huang, Sheng-Chang Wang*(王聖璋), Yu-Min Shen*(沈祐民), "*Structural Evolution and Electrocatalytic Mechanism of Bimetallic Nickel-molybdenum/g-C_3N_4 Composites in Alkaline Hydrogen Evolution Reaction: XAS and Operando TEM Study*", Int. J. Hydrogen Energ. **190**, 152249 (2025). (I.F.=8.300)☆

210. Pei-Tung Chou, Cheng-Chia Kuo, Po-Yang Peng(彭柏洋), Ying-Rui Lu(盧英睿), Chi-Liang Chen(陳啟亮), and Yu-Chuan Lin*(林裕川), "*Redox-driven Exsolution and Dissolution Behavior of High-entropy Spinel Catalysts: A Comparative Study of $MnFeCoNiCuO_x$ and $MnCoNiCuZnO_x$*", ACS Appl. Mater. Interfaces **17**, 52315 (2025). (I.F.=8.200)☆

211. Man He, Chen Wang, Hua Yang, Dong-Ying Wu, Jey-Jau Lee(李之釗), Xuan Huang, Hao Shen, Fangwei Wang*(王芳衛), Maxim Avdeev*, and Wang Hay Kan*(簡宏希), "*High-entropy V-based Null Matrix Alloys-Short/Long-range Structural Features, Chemical Stabilities, and Mechanical Properties*", ACS Appl. Mater. Interfaces **17**, 24220 (2025). (I.F.=8.200)☆

212. Yu-Chun Huang, Shuto Yamamoto, Jung-Yao Chen, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Tomoya Higashihara*, and Yan-Cheng Lin*(林彥丞), "*Conjugated Multiblock Copolymers and Microcracked Gold Electrodes Applied for the Intrinsically Stretchable Field-effect Transistor*", ACS Appl. Mater. Interfaces **17**, 21521 (2025). (I.F.=8.200)☆

213. Jia Ke, Yujin Ji*(紀玉金), Da Liu, Jinxin Chen, Yue Wang, Youyong Li, Zhiwei Hu(胡志偉), Wei-Hsiang Huang(黃偉翔), Qi Shao*(邵琪), and Jianmei Lu*(路建美), "*Optimizing Acidic Oxygen Evolution with Manganese-doped Ruthenium Dioxide Assembly*", ACS Appl. Mater. Interfaces **17**, 13 (2025). (I.F.=8.200)☆

214. Ling-Chieh Lee, Shao-Huan Hong, Min-Su Kim, U-Ser Jeng(鄭有舜), Chia-Hsin Wang(王嘉興), Shih-Huang Tung, Keun Hyung Lee, and Cheng-Liang Liu*(劉振良), "*Enhanced Thermoelectric Performance of PVA-based Ionogels: Tailoring Crystallinity via Additives for Advanced Waste Heat Recovery*", ACS Appl. Mater. Interfaces **17**, 38545 (2025). (I.F.=8.200)☆

215. Heng Liu, Yuhao Li, Zhaoyang Nie, Yuang Fu, Zhaozhao Bi, Shengtian Zhu, Lu Chen, Guilong Cai, Pok Fung Chan, Luo Huang, Luhang Xu, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Guangye Zhang, Fei Huang, Wei Ma, Xian-Kai Chen, Yubin Ke*(柯于斌), Man Chung Tang*(鄧敏聰), and Xinhui Lu*(路新慧), "*Resolving Ternary Morphology for High-performance Thickness-insensitive Organic Solar Cells*", ACS Appl. Mater. Interfaces **17**, 66924 (2025). (I.F.=8.200)☆

216. Yu-Jhih Shen, Yung-Hsi Hsu, Yu-Chia Chang, Jian-Jie Ma, Kang-Shun Peng, Ying-Rui Lu(盧英睿), Shao-Hui Hsu, and Sung-Fu Hung*(洪崧富), "*Microenvironment Matters: Copper-carbon Composites Enable a Highly Efficient Carbon Dioxide Reduction Reaction to C_2 Products*", ACS Appl. Mater. Interfaces **17**, 9378 (2025). (I.F.=8.200)☆

217. Hsin-Chiao Wu, Yu-Wei Huang, Yu-Chang Lin(林佑錩), Chu-Hsin Yang, and Ta-Chung Liu*(劉大中), "*Enhanced Zn/ZnO Heterointerfaces via Pulsed-potential Electrochemical Reconstruction for Highly Selective CO_2 Reduction*", ACS Appl. Mater. Interfaces **17**, 56991 (2025). (I.F.=8.200)☆

218. Ping-Jui Yu, Pei-Zhen Yu, Wei-Cheng Chen, Hong Li, Bi-Hsuan Lin(林碧軒), Chi-Ching Kuo, Yan-Cheng Lin*(林彥丞), Redouane Borsali*, Wen-Chang Chen*(陳文章), "*Regulating the Perovskite Nanocrystal Allocations in Carbohydrate Block Copolymers through Architecture Engineering for Nonvolatile Phototransistor Memory*", Mater. Today Nano **29**, 100563 (2025). (I.F.=8.200)☆

219. Ping-Jui Yu, Wei-Cheng Chen, Ya-Shuan Wu, Bi-Hsuan Lin(林碧軒), Yan-Cheng Lin*(林彥丞), Redouane Borsali*, and Wen-Chang Chen*(陳文章), "*Oligosaccharide Block Copolymers with Branched Architectures and Channel Energy Level Optimizations for High-performance Floating Gate Phototransistor Memory*", ACS Appl. Mater. Interfaces **147**, 53837 (2025). (I.F.=8.200)☆

220. Shasha Guo, Mohamed Ait Tamerd, Jiayi Li, Jianwei Wu, Xinyue Shi, Chih-Wen Pao(包志文), Zhiwei Hu, Jiwei Ma*(馬吉偉), "*Fluorine Doping Induced Accelerated Li^+ Kinetics in Conversion-type Fe_3O_4 Anode*", J. Power Sources **656**, 238115 (2025). (I.F.=7.900)☆

221. Chia-Chieh Hsu, Siou-Ting Hu, Hao-Yu Liu, Chung-Sheng Ni, Ai-Yin Wang, Hsiang-Jung Chen, Tsung-Yi Chen(陳琮宜), Yen-Lin Chen, Lu-Yu Chueh, Yung-Tin Frank Pan, Tzu-Yin Liu*(劉姿吟), Han-Yi Chen*(陳翰儀), "*Iron- and Nitrogen-modified Trapa Natans Husk-derived Activated Carbon as Cathode Materials for Microbial Fuel Cells*", J. Power Sources **632**, 236269 (2025). (I.F.=7.900)☆

222. E-Wen Huang*(黃爾文), Tu-Ngoc Lam*, Zachary H. Aitken, Mao-Yuan Luo, Nien-En Chiang, Yuh Sun, Jo-Chi Tseng, Ching-Yu Chiang(蔣慶有), Wan-Zhen Hsieh, Wen-Jay Lee, Yong-Wei Zhang, Peter K. Liaw, Che-Wei Tsai*(蔡哲瑋), "*Mixing-enthalpy Modulation on Phase Transformation in the Gradient Chemical Core/Shell High-entropy Shape-memory Alloys*", Mater. Des. **251**, 113623 (2025). (I.F.=7.900)☆

223. Thanigai Arul Kumaravelu*, Ta Thi Thuy Nga, Yu-Cheng Shao(邵禹成), Hirofumi Ishii(石井啟文), Jeng-Lung Chen(陳政龍), Chi-Liang Chen(陳啟亮), Chih-Wen PaoI 包志文), Yu-Cheng Huang(黃裕呈), Chao-Hung Du, Ping-Hung Yeh, Yu-Po Chen, Asokan Kandasami, Ching-Hsiang Chen, Wu-Ching Chou, Chung-Li Dong*(董崇禮), "*Structural Symmetry and Regular Octahedral Atomic Coordination in Nanostructured $NiMoO_3$ for Supercapacitor Electrode Applications*", J. Power Sources **658**, 238245 (2025). (I.F.=7.900)☆

224. Ming-Hsien Lin*(林明憲), Wei-Hsiang Huang(黃偉翔), Shao-Feng Chao, Min-Hsin Yeh, Nen-Wen Pu, "*Towards Stable Rechargeable Zinc-air Batteries: Synergistic Effect of PEI-based Hybrid Additives on Zinc Metal Anodes in the Alkaline Electrolyte Solution*", J. Power Sources **652**, 237678 (2025). (I.F.=7.900)☆

225. Yiping Xia, Tianbo Yu, Yubin Zhang*, Kesong Miao, Ching-Yu Chiang(蔣慶有), Dorte Juul Jensen, and Guohua Fan*(范國華), "*Activation of Unexpected Slip Systems in the Interface Affected Zone in Multilayered Aluminum*", Mater. Res. Lett. **13**, 963 (2025). (I.F.=7.900)☆

226. Kai-Po Chang, Zhi Xuan Law, Chuan-Bin Du, Chih-Wen Pao(包志文), Tsung-Yi Chen(陳琮宜), De-Hao Tsai*(蔡德豪), "*Methane-steam Reforming for Low-carbon Hydrogen Production Using Ni-Pd Bimetallic Nanoparticle Cluster*", Fuel **399**, 135683 (2025). (I.F.=7.500)☆

227. Meng-Hsuan Cheng, Hsiao-Hsuan Wang, Mo Da-Sang Hua(華莫達桑) , Hsuan-Fu Kuo, Zi-Jing Lin(林子敬), Chong-Chao Hsieh, Chih-Hsin Hsu, Chia-Yang Li m, Shu-Chi Wang, Yung-Hsiang Chen, Szu-Hui Wu, Wei-Lun Liu*(劉偉倫), Po-Len Liu*(劉博倫), "*Magnolol Facilitates Mitochondrial-peroxisome Dysfunction and Induces Oxeiptosis in Lung Cancer Cells Following Transfer via Tunneling Nanotubes*", Biomed. Pharmacother. **187**, 118126 (2025). (I.F.=7.500)☆

228. Ya-Ju Chuang, Arnab Pal, Bo-Hao Chen(陳柏豪), Satyaranjan Jena, Sreerag Suresh, Zong-Hong Lin*(林宗宏), and Michael H. Huang*(黃暄益), "*Synthesis of Shape-tunable $PbZrTiO_3$ Nanocrystals with Lattice Variations for Piezoelectric Energy Harvesting and Human Motion Detection*", Chem. Sci. **16**, 3285 (2025). (I.F.=7.400)☆

229. Tsai-En Ho, Yu-Chung Chang, Pei-En Wang, Shih-Yu Yuan, Lian-Ming Lyu, Cheng-Shiuan Li, Jeng-Lung Chen(陳政龍), and Chun-Hong Kuo*(郭俊宏), "*Boosting H_2 Evolution from Thermal NH_3 Decomposition by the Catalyst of Ru Quantum Dots on Mesoporous MgO Dendrite Networks*", ACS Sustain. Chem. Eng. **13**, 10563 (2025). (I.F.=7.300)☆

230. Thanigai Arul Kumaravelu, Xian-Teng Yu, Hsiao-Tsu Wang, Jian Wang, Sofia Ya Hsuan Liou, Li Cheng Kao, Wen-Ta Yang, Chen-Jie Yang, Ying-Rui Lu(盧英睿), Chi-Liang Chen(陳啟亮), Bi-Hsuan Lin(林碧軒), Da-Hua Wei*(魏大華), and Chung-Li Dong*(董崇禮), "*In Situ X-ray Spectroscopy Unveils Charge-driven CO Oxidation over Cu-TiO_2 Mesospheres*", ACS Sustain. Chem. Eng. **13**, 20451 (2025). (I.F.=7.300)☆

231. Yu-Hao Wang, Ching-Chieh Hsu, Shao-Huan Hong, Jian-Fa Ding, U-Ser Jeng(鄭有舜), Dun-Yen Kang, Shyh-Chyang Luo, Shih-Huang Tung, and Cheng-Liang Liu*(劉振良), "*A Dual-function Poly(Vinyl Alcohol) Hydrogel for Solar Water Production and Thermoelectric Energy Generation*", ACS Sustain. Chem. Eng. **13**, 4231 (2025). (I.F.=7.300)☆

232. Prakash C. Loni, Biqing Liang*(梁碧清), Ching-Yu Chiang(蔣慶有), Yao-Chang Lee(李耀昌), Jagat Rathod, Ci-Hong Ciou, Pei-Hua Wu, Wei-Hsin Chen, "*Enhanced Removal of Antimony, Arsenic and Cadmium by Bone Char in Co-contaminated Aqueous Systems: A Lattice Level Mechanistic Understanding*", J. Environ. Chem. Eng. **13**, 117281 (2025). (I.F.=7.200)☆

233. Masato Goto*, Kazunori Sato, Wei-Tin Chen, Wei-Hsiang Huang(黃偉翔), and Yuichi Shimakawa*, "*Robust Unusually High Valence Fe^{5+} State and Large Magnetic Interaction Change in the Double Perovskites $La_{2-x}Ca_xLiFeO_{6-0.5x}$*", Chem. Mater. **37**, 2008 (2025). (I.F.=7.000)☆

234. Shantanu Singh, Boyang Zhao, Christopher E. Stevens, Gokul M. Anilkumar, Mythili Surendran, Tzu-Chi Huang, Bi-Hsuan Lin(林碧軒), Joshua R. Hendrickson, and Jayakanth Ravichandran*, "*Crystal Growth of Chalcogenides and Oxy-chalcogenides Using Chloride Exchange Reaction*", Chem. Mater. **37**, 9144 (2025). (I.F.=7.000)☆

235. Yu-Sheng Hsiao*(蕭育生), Jen-Hsien Huang, Shih-An Liu, Jui-Hsiung Huang, Lin-Yang Weng, Sheng-Wei Liao, Chih-Wei Hu(胡芝瑋), Wei Kong Pang, Shih-Chieh Hsu*, Huei Chu Weng*(翁輝竹), Yu-Ching Huang*(黃裕清), "*Designing Core-shell $LiNi_{0.5}Mn_{1.5}O_4$-based Cathode Materials with Enhanced Rate Capability and Improved Cycling Stability*", Appl. Surf. Sci. **684**, 161892 (2025). (I.F.=6.900)☆

236. Muhammad Yusuf Fakhri, Wei-Ching Lai, Bhawna Jarwal, Wan-Zhen Hsieh, Yu-Hsiang Tseng(曾昱翔), Thi-Thong Ho, Khasim Saheb Bayikadi, Suneesh M. Valiyaveettil, Peramiyan Ganesan, Ching-Yu Chiang(蔣慶有), Li-Chyong Chen*(林麗瓊), Kuei-Hsien Chen*(陳貴賢), "*Enhanced low-temperature Thermoelectric Properties in Textured Polycrystalline SnS Co-doped with Na and Ag*", J. Alloy. Compd. **1018**, 179124 (2025). (I.F.=6.300)☆

237. Riza Ariyani Nur Khasanah, Chi-Hung Lee, Hsi-Lien Hsiao, Tsong-Shin Lim, Po-Ya Chang(張博雅), Hwo-Shuenn Sheu(許火順), Rike Yudianti, Forest Shih-Sen Chien*(簡世森), "*Physicochemical Responses at a Cu_2O/Electrolyte Interface to Electrostatic and Electrochemical Potentials in Photocatalytic Water Oxidation*", Surf. Interfaces **66**, 106548 (2025). (I.F.=6.300)☆

238. Yu-Hsuan Lin*(林裕軒), Cheng-Chung Chen, Yan-Hua Chen, Yu-Shiuan Huang, Bi-Hsuan Lin(林碧軒), U-Ser Jeng(鄭有舜), Shu-Chih Haw(何樹智), Chun-Jen Su(蘇群仁), Lo-Yueh Chang(張羅嶽), Hsien-Hsu Hsieh*(謝獻旭), Han-Wei Chang*(張漢威), "*Fluorine-free Anodized TiO_2 Nanotube Arrays for Photoelectrochemical H_2O_2 Sensing: Role of Anatase-rutile Phase Transformation*", Surf. Interfaces **74**, 107719 (2025). (I.F.=6.300)☆

239. Hung-Chi Lo, Jie-Dong Hu, Che-Min Chou(周哲民), Chun-Yu Chen(陳軍佑), Jhih-Min Lin(林智敏), Chin-Wen Chen, Chien-Lung Wang, Wei-Tsung Chuang(莊偉綜), Kuan-Yi Wu*(吳冠毅), "*Enhancing Mechanical Properties of Wet-spun PEDOT: PSS Conductive Fibers via Molecular Weight Engineering of PSS*", Eur. Polym. J. **235**, 114085 (2025). (I.F.=6.300)☆

240. Zhichuan Zheng, Ning Sun, Xian He, Bohan Deng, Chih-Wen Pao(包志文), Wei-Hsiang Huang(黃偉翔), Hongyi Liu, Ruyue Wang*(王濡岳), Runze Yu*(于潤澤), Ming Lei , Kai Huang*(黃凱), "*Designing Quenching-driven Crystalline-amorphous High-entropy Oxide/Hydroxide Heterostructures for Efficient Oxygen Evolution Reaction*", J. Alloy. Compd. **1032**, 181112 (2025). (I.F.=6.300)☆

241. Yu-Chieh Hsu, Wen-Chun Shih, Ying-Chun Shen, Ling Lee, Chieh-Ting Chen, Tzu-Yi Yang, Yi-Jen Yu, Ching-Yu Chiang(蔣慶有), Shang-Jui Chiu(邱上睿), and Yu-Lun Chueh*(闕郁倫), "*Controllable CVD Growth of Monolayered WS_2 From Triangular Flakes toward Wafer-scale Thin Film by Precise Design of Growth Environment*", Adv. Mater. Technol. **10**, e00292 (2025). (I.F.=6.200)☆

242. Yu-Qi Huang, Chieh-Ting Chen, Wei-Han Chen, Hsin-Ya Sung, K. M. M. D. K. Kimbulapitiya, Tzu-Wen Kuo, Chen-Chi Wang, Ching-Yu Chiang(蔣慶有), Yu-Chieh Hsu, Yu-Ren Peng, Hao-Chung Kuo, Wen-Wei Wu, Ying-Hao Chu*(朱英豪), and Yu-Lun Chueh*(闕郁倫), "*Self-assembled $NiSe_2$-$SnSe_2$ Heterostructures From NiO-SnO_2 Films by Plasma-assisted Selenization Process With Efficient Performance of Bifunctional Devices*", Adv. Mater. Technol. **10**, e00707 (2025). (I.F.=6.200)☆

243. S. Yun, C.-F. Chang, S.-H. Chen, C.-Y. Kuo(郭昌洋), L. H. Tjeng, and A. C. Komarek*, "*Direct observation of V-trimers in the Crystal Structure of $LiVO_2$*", Commun. Chem. **8**, 202 (2025). (I.F.=6.200)☆

244. Bo-Rong Huang, Pei-Kai Hsu, Alexandre Gloter*, Chi-Liang Chen(陳啟亮), Jenn-Ming Song, and Shih-Yun Chen*(陳詩芸), "*Modulating the Optical Properties of Carbon Quantum Dots Through Cerium Doping to Boost the Photocatalytic Efficiency of Titanium Dioxide Composites*", Adv. Sustain. Syst. **9**, e00283 (2025). (I.F.=6.100)☆

245. Yi-Hao Chiu, Mia Rinawati, Ling-Yu Chang, Sofiannisa Aulia, Chieh Li, Ping-Chen Shi, Kuan-Jung Chen, Wei-Hsiang Huang(黃偉翔), Hitoshi Mizuguchi, and Min-Hsin Yeh*(葉旻鑫), "*Promoting the Signal Reliability of Non-invasive Biosensors via a N-doped Graphene Quantum Dot Modified Prussian Blue Analogue Protective Layer for Glucose Monitoring*", J. Mater. Chem. B **13**, 7381 (2025). (I.F.=5.700)☆

246. Yu-Chen Chen, Po-Yu Li, Chung-Wei Kung, Jhe-Wei Chang, Cheng-Wei Kao(高振瑋), Chi-Ching Kuo*(郭霽慶), Wei-Ren Liu*(劉偉仁), "*Near-infrared-emitting $(Gd_{1-y}Nd_y)_3(Ga_{1-x}Cr_x)_5O_{12}$ Glass Ceramic Phosphors for Light-emitting Diodes*", Ceram. Int. **51**, 22488 (2025). (I.F.=5.600)☆

247. Tzu Hsuan Chiang*(江姿萱), Si-Rong Xu, Yu-Si Chen, Han-Wei Chang, Tzu-Chi Huang, Jin-Ming Chen(陳錦明), "*A Nanoparticle Metal Schiff Bases Synthesis by Amine Curing Agents Reacts with Waste PET Plastic to Enhance Alkaline Water Electrolysis*", Electrochim. Acta **524**, 146010 (2025). (I.F.=5.600)☆

248. Sofiannisa Aulia, Ling-Yu Chang, Hsuan-Hsuan Su, Mia Rinawati, Ping-Chen Shi, Ming-Hsien Lin, Wei-Hsiang Huang(黃偉翔), Heru Setyawan, Bing Joe Hwang(黃炳照), and Min-Hsin Yeh*(葉旻鑫), "*Core-shell-architected Active Sites from a Prussian Blue Analogue Enable Bifunctional Oxygen Electrocatalysis for High-performance Rechargeable Zinc-air Batteries*", ACS Appl. Energy Mater. **8**, 7283 (2025). (I.F.=5.500)☆

249. Yi-Hao Chiu, Mia Rinawati, Ling-Yu Chang, Yi-Ting Guo, Kuan-Jung Chen, Hsiang-Chih Chiu, Zong-Hong Lin, Wei-Hsiang Huang(黃偉翔), Shu-Chih Haw(何樹智), and Min-Hsin Yeh*(葉旻鑫), "*Carbon Nitride Quantum Dots/Polyaniline Nanocomposites for Non-invasive Glucose Monitoring Using Wearable Sweat Biosensor*", ACS Appl. Nano Mater. **8**, 2340 (2025). (I.F.=5.500)☆

250. Yu-Bin Huang, Yen-Ken Li, Shivaraj B. Patil, Di-Yan Wang, U-Ser Jeng(鄭有舜), and Ying-Huang Lai*(賴英煌), "*Plasmon-enhanced Electrochemical CO_2 Reduction on Dendritic Gold Nanostructures with High Selectivity and Turnover Frequency*", ACS Appl. Energy Mater. **8**, 10458 (2025). (I.F.=5.500)☆

251. Yu-Che Huang, Liang-Ching He, Kuan-Yu Yeh, Kuan-Bo Lin, Hui-Ting Liu, Shang-Jui Chiu(邱上睿), Yan-Gu Lin(林彥谷), Yi-Wei Tsai(蔡一葦), Jhih-Min Lin(林智敏), Sen-Hao Chang, Tsung-Mu Wu, Kris Ke-Hsien Lin, Shin-Yuan Wang, Chao-Hsin Chien, Chun-Liang Lin, Shu-Jui Chang*, Edward Yi Chang*(張翼), and Chenming Hu*(胡正

明), "*Large-period van der Waals Epitaxy of Au on MoS_2 at Room Temperature: Moiré-engineered Interfaces for Nanoelectronics*", ACS Appl. Nano Mater. **8**, 18208 (2025). (I.F.=5.500)☆

252. Satyaranjan Jena, Bo-Hao Chen(陳柏豪), Hsun-Yen Lin, Vandana Meena, Wan-Fang Chang, Jyh Ming Wu, and Michael H. Huang*(黃暄益), "*$ZnSn(OH)_6$ Nanocubes and Octahedra Displaying Facet-dependent Behaviors for Use in Piezocatalysis*", ACS Appl. Nano Mater. , (2025). (I.F.=5.500)☆

253. Selvadharshini Karuppuchamy, Thanigai Arul Kumaravelu, Ta Thi Thuy Nga, Chi-Liang Chen(陳啟亮), Ting-Shan Chan(詹丁山), Chung-Li Dong, Deepak Arumugam, Shankar Ramasamy, Mani Govindasamy, Chih-Yu Kuo*(郭志宇), and Selvaraju Thangavelu*, "*Tailored Cobalt Single Atoms on Strong Metal-support Interactions Drive the Tandem Bifunctional Electrocatalytic Overall Water Splitting*", ACS Appl. Energy Mater. **8**, 11099 (2025). (I.F.=5.500)☆

254. Naveen Karuppusamy, Shaktivel Manavalan, Shen Ming Chen*, Bih-Show Lou*(駱碧秀), Sung Mi Jung, Ta Thi Thuy Nga, Pandian Mannu, Chung Li Dong, Ying Li, Chih-Min Wang*(王志銘), Yeh-Fang Duann*(段葉芳), Chi-Liang Chen(陳啟亮), and Jyh-Wei Lee, "*Zerovalent Fe Atom-enriched Fe_3C@C Electrocatalysts for Selective Heavy Metals Sensing*", ACS Appl. Nano Mater. **8**, 18018 (2025). (I.F.=5.500)☆

255. Po-Shen Lin, Katsuki Yaginuma, Yu-Chuan Liu, Jhih-Min Lin(林智敏), Shih-Huang Tung, Hidetoshi Matsumoto, Minoru Ashizawa*, and Cheng-Liang Liu*(劉振良), "*Synthesis and Thermoelectric Properties of Nickel Tetrathiolate Metallopolymers*", ACS Appl. Energy Mater. **8**, 13499 (2025). (I.F.=5.500)☆

256. Yu-Chen Liu, Kuan-Hsueh Lin, Shang-Jui Chiu, Jey-Jau Lee(李之釗), Yan-Gu Lin(林彥谷), Shih-Kang Lin*(林士剛), "*Critical Lattice Strain for Electromigration-Revisiting the Blech Critical Product*", Mater. Charact. **228**, 115384 (2025). (I.F.=5.500)☆

257. Yu-Hung Cheng, Ting-Wei Chang, Taiki Nishimura, Yi-Cheng Lai(賴以晟), Chun-Jen Su(蘇群仁), Jane Wang, Takuya Isono*, Toshifumi Satoh*, and Hsin-Lung Chen*(陳信龍), "*Accessing Frank-Kasper Phases via Blending of Architecturally Distinct and Sustainable Sugar-based Block Co-oligomers*", Macromolecules **58**, 8686 (2025). (I.F.=5.200)☆

258. Che-Yi Chu*(朱哲毅), Tzu-Yun Lin, Wen-Sheng Chiu, Ya-Ting You, Chih-Chung Chen, Sheng-Jie Lin, Hsuan-Min Wang, Ying-Jie Wang, Chun-Jen Su(蘇群仁), and U-Ser Jeng(鄭有舜), "*A New Method for Fabrication of the Oriented Double Gyroid Phase in Diblock Copolymers Hybridized with an Extremely Low Content of Magnetic Nanoparticles by Low-intensity Magnetic Fields*", Macromolecules **58**, 5955 (2025). (I.F.=5.200)☆

259. Selvaraj Nagarajan, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), Chun-Yu Chen(陳軍佑), and Eamor M. Woo*(吳逸謨), "*Peculiar Poly(ε-caprolactone) Periodic-dendritic Aggregates: Architecture and Assembly Mechanism Probed Using X-ray Microbeam*", Macromolecules **58**, 1562 (2025). (I.F.=5.200)☆

260. Aditya Sahare, Yu-Hsuan Lin, Chun-Yu Chen(陳軍佑), and Hsin-Lung Chen*(陳信龍), "*Thermally Induced Distortion of the Hexagonal Close-packed Lattice of Block Copolymer Micelles*", Macromolecules **58**, 4689 (2025). (I.F.=5.200)☆

261. Yi-Ting Guo, Mia Rinawati, Ling-Yu Chang*(張玲毓), Chieh Li, Ching-Ju Ho, Ping-Chen Shi, Kuan-Jung Chen, Wei-Hsiang Huang(黃偉翔), Hitoshi Mizuguchi, and Min-Hsin Yeh*(葉旻鑫), "*Fine-tuning the Ni/Co Ratio to Elucidate the Coordination Structure-activity Relationship of MOF-derived Bimetallic Layered Double Hydroxides for Highly Sensitive Enzyme-free Lactate Biosensors*", Nanoscale **17**, 20207 (2025). (I.F.=5.100)☆

262. Anupriya Singh, Yi-Chia Chen*(陳奕嘉), Kuan-Chang Wu, Yu-Ying Shih, Tzu-Chi Huang, Wei-Lon Wei, Yu-Dian Chen, Priyadarshini H. Nagaraju, Jou-Chun Lin, Bi-Hsuan Lin(林碧軒), Mau-Tsu Tang(湯茂竹), and Di-Yan Wang*(王迪彥), "*Pioneering Nucleation for Stable Ultraviolet-to-deep-blue Illuminating Two-dimensional Perovskite Nanoplates by Using Saturated Salt Solution*", Nanoscale **17**, 15204 (2025). (I.F.=5.100)☆

263. Ya-Sen Sun*(孫亞賢), Bo-Cheng Zhao, Orion Shih(施怡之), Chun-Yu Chen(陳軍佑), Chun-Jen Su(蘇群仁), and Jhih-Min Lin(林智敏), "*Tunable Formation of Two-dimensional Nanostructures and Complex Crystals via Lead(II) Bromide Complexation and Inclusion Crystallization with Polystyrene-block-poly (Ethylene oxide) in 1,3,5-trimethylbenzene*", Nanoscale **17**, 24208 (2025). (I.F.=5.100)☆

264. Hao-Chun Yang, Guan-Long Zeng, Su-Ying Chien, Shao-An Hua, Yuta Onohara, Martin Cigl, Alexej Bubnov, Jey-Jau Lee(李之釗), Damian Pociecha, Krzysztof A. Bogdanowicz, Agnieszka Iwan, Petra Vankatova, Vera Hamplova, Kingo Uchida, Yasutaka Kitagawa, Hiroyuki Yoshida, and Hsiu-Hui Chen*(陳秀慧), "*Photo-active Dithienylcyclopentene-derived Room Temperature Nematics*", J. Mater. Chem. C **13**, 7484 (2025). (I.F.=5.100)☆

265. Chun-Che Huang, Han-Wei Chen, Jo-Wei Allison Hsieh, Yen-Chun Lin, Yi-Pei Li, Chunxian Chen, Yen-Fang Song(宋艷芳), Gung-Chian Yin(殷廣鈐), Te-Lun Mai, Ying-Chung Jimmy Lin*(林盈仲), and Yuan-Kai Tu*(杜元

凱), "*Transcriptomic Analysis of Peaches and Nectarines Reveals Alternative Mechanism for Trichome Formation*", BMC Plant Biol. **25**, 620 (2025). (I.F.=4.800)☆

266. Thanigai Arul Kumaravelu, Jeng-Lung Chen(陳政龍), Chi-Liang Chen(陳啟亮), Shih-Yun Chen, Da-Hua Wei, Shih-Hsien Chen, Ta Thi Thuy Nga, Wu-Ching Chou, and Chung-Li Dong*(董崇禮), "*Electronic Structural Modulation for CO-CO_2 Conversion of Copper-modified Nanoceria Studied by In Situ X-ray Absorption Spectroscopy*", Inorg. Chem. **64**, 5375 (2025). (I.F.=4.700)☆

267. Chen-Fu Lin, Ya-Shuan Wu, Wei-Cheng Chen, Bi-Hsuan Lin(林碧軒), Yan-Cheng Lin*(林彥丞), Chi-Ching Kuo*(郭霽慶), and Wen-Chang Chen*(陳文章), "*Boosting the Photoresponse of Transistor Memory Utilizing the Ferroelectric Polarization Effect of Polyfluorene/PVDF-based Copolymer Blends*", ACS Appl. Electron. Mater. **7**, 1068 (2025). (I.F.=4.700)☆

268. Kai-Chun Lo, Cheng-Wei Kao(高振瑋), Ting-Shan Chan(詹丁山), Chen-Yu Wu, Yu-Ming Lin, Tzu-Ying Lin*(林姿瑩), "*A Silver Lining for Space Solar Cells: Ag-enhanced CIGS Solar Cells Resist and Recover From Radiation*", Solar RRL **9**, e202500646 (2025). (I.F.=4.700)☆

269. Selvaraj Nagarajan, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), Chun-Yu Chen(陳軍佑), and Eamor M. Woo*(吳 逸 謨), "*Lamellar Organization and Assembly-induced Iridescence Features of Poly(Nonamethylene Terephthalate) Ring-banded Spherulites*", ACS Appl. Polym. Mater. **7**, 16573 (2025). (I.F.=4.700)☆

270. Umeshwar Reddy Nallasani, Nhu Quynh Diep, Chun-Yen Lin, Thi Bich Tuyen Huynh, Quynh Trang Tran, Hong-Jyun Wang, Wu-Ching Chou*(周武清), Chin-Hau Chia, Bi-Hsuan Lin(林碧軒), and Sunny Saurabh(索拉布), "*Monolithic Integration of 2D GaSe/3D β-Ga_2O_3 Mixed-dimensional Heterostructures on c-sapphire Substrates by Molecular Beam Epitaxy*", ACS Appl. Electron. Mater. **7**, 7827 (2025). (I.F.=4.700)☆

271. Wen-Tsung Tseng, Pei-Yuan Yen, Yu-Hao Wang, Wei-You Huang, Wei-Tsung Chuang(莊偉綜), and Kuan-Yi Wu*(吳冠毅), "*Composition-dependent Structural Modulation in st-PMMA/C_{60} Inclusion Complex Fiber and Its Influence on Vapochromic Response*", ACS Appl. Polym. Mater. **7**, 3863 (2025). (I.F.=4.700)☆

272. Xiao Wang*(王曉), Fedor Temnikov, Xubin Ye, Maocai Pi, Zhao Pan, Weihao Li, Zhiwei Hu, Chien-Te Chen(陳建德), Chang-Yang Kuo(郭昌洋), Cheng Dong, Yao Shen, Wenmin Li, Sergey V. Streltsov*, and Youwen Long*(龍有文), "*$CuCu_3Fe_2Os_2O_{12}$: A Room-temperature Ferrimagnet with Reduced Thermal Conductivity*", Inorg. Chem. **64**, 20796 (2025). (I.F.=4.700)☆

273. Jou-Hsin Yang, Chia-Peng Wang, Bo-Hao Chen(陳柏豪), and Michael H. Huang*(黃暄益), "*Growth of Fe_3O_4 Truncated Cubes and Rhombic Dodecahedra Showing Interior Lattice and Magnetic Behavior Variations*", Inorg. Chem. **64**, 8659 (2025). (I.F.=4.700)☆

274. Jie Zhang, Fedor Temnikov, Xubin Ye, Xiao Wang, Zhao Pan, Zhehong Liu, Maocai Pi, Shuai Tang, Chien-Te Chen(陳建德), Chih-Wen Pao(包志文), Wei-Hsiang Huang(黃偉翔), Chang-Yang Kuo(郭昌洋), Zhiwei Hu(胡志偉), Yao Shen, Sergey V. Streltsov, and Youwen Long*(龍有文), "*Large Manipulation of Ferrimagnetic Curie Temperature by A-site Chemical Substitution in $ACu_3Fe_2Re_2O_{12}$ (A=Na, Ca, and La) Half Metals*", Inorg. Chem. **64**, 472 (2025). (I.F.=4.700)☆

275. Yuen Yung Hui, Chen-Yu Ho, Teng-I. Yang, Tzu-Ping Huang(黃自平), Bing-Ming Cheng(鄭炳銘), Yin-Yu Lee(李英裕), and Huan-Cheng Chang*(張煥正), "*Fluorescent Nanodiamond Scintillators for Beam Diagnostics of EUV and Soft X-ray in Photolithographic Applications*", RSC Adv. **15**, 1011 (2025). (I.F.=4.600)☆

276. Chia-Hsun Yeh, Wen-Yu Cheng, Tai-Che Chou, Yi-Chun Liu, Chia-Wei Chang, Yu-Sheng Chen, Chih-Hsing Wang, Shih-Chang Weng(翁世璋), Ian D. Sharp*, Pi-Tai Chou, and Chang-Ming Jiang*(姜昌明), "*Collective Motion of Methylammonium Cations Affects Phase Transitions and Self-trapped Exciton Emission in A-site Engineered $MAPbI_3$ Films*", Nanoscale Adv. **7**, 5580 (2025). (I.F.=4.600)☆

277. Chia-Yi Ho, Yu-Jen Chang, Chih-Wen Yang, Orion Shih(施怡之), U-Ser Jeng(鄭有舜), Ing-Shouh Hwang, Wan-Chen Huang, and Yun-Ru Chen*(陳韻如), "*Membrane Disruption Properties of PolyGlycine Arginine Dipeptide Repeats Affected by Peptide Repeats Continuity and Membrane Composition*", J. Mol. Biol. **437**, 169296 (2025). (I.F.=4.500)☆

278. Yen-Han Lai, Yi-Jen Huang*(黃逸仁), Le-Ping Chen, Tu-Ngoc Lam, Wen-Ching Ko, Chun-Jen Su(蘇群仁), Chun-Chieh Wang(王俊杰), "*High Sensitivity Flexible Hybrid P(VDF-TrFE-CTFE)/ZnO Sensors for Elbow and Knee Rehabilitation Monitoring*", Polymer **332**, 128505 (2025). (I.F.=4.500)☆

279. Selvaraj Nagarajan, Rahmyanti Widyantari, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), and Eamor M. Woo*(吳逸謨), "*Grating Harmony of Orderly-banded Spherulites of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with Tunable Structures*", Polymer **317**, 127892 (2025). (I.F.=4.500)☆

280. Selvaraj Nagarajan, Graecia Lugito, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), Chun-Yu Chen(陳軍佑), Ya-Sen Sun*(孫亞賢), Eamor M. Woo*(吳逸謨), "*Pioneering study on Poly(Trimethylene Terephthalate) Grating Assembly: Architecture and Formation Mechanism Probed Using X-ray Microbeam*", Polymer **330**, 128512 (2025). (I.F.=4.500)☆

281. Zhexin Pan, Yiming Zhu, Yihong Liu, Wei-Hsiang Huang(黃偉翔), Yujie Cui, Yang Zhao, Menghao Yang, Hongfei Cheng*(程洪飛), Nicolas Alonso-Vante*, and Jiwei Ma*(馬吉偉), "*Improved ORR Performance of Precious Metal-free Fe Single-atom Catalysts by Heteroatom Doping*", Adv. Mater. Interfaces **12**, 2500253 (2025). (I.F.=4.400)☆

282. Chia-Hsueh Chung, Yu-Chun Huang, Shang-Wen Su, Chun-Jen Su(蘇群仁), U-Ser Jeng(鄭有舜), Jung-Yao Chen, and Yan-Cheng Lin*(林彥丞), "*Partially Degradable N-type Conjugated Random Copolymers for Intrinsically Stretchable Organic Field-effect Transistors*", Macromol. Rapid Comm. **46**, 2401057 (2025). (I.F.=4.300)☆

283. Xihui Liang*(梁喜輝), Dah-An Luh*(陸大安), and Cheng-Maw Cheng(鄭澄懋), "*Distinct 2D p(2×2) Sn/Cu(111) Superstructure at Low Temperature: Experimental Characterization and DFT Calculations of Its Geometry and Electronic Structure*", Nanomaterials **15**, 1684 (2025). (I.F.=4.300)☆

284. Jui-Hsien Chen, You-Chiuan Chu, Tong Lin, Cheng-Han Tso, Guan-Bo Wang, Chia-Shuo Hsu, Hao Ming Chen(陳浩銘), and Hsiao-Chien Chen*(陳効謙), "*Potential-driven Sulfate Coordinated Active Configuration for Electrochemical C-H Bond Activation*", Catal. Sci. Technol. **15**, 1972 (2025). (I.F.=4.200)☆

285. Yu-Tso Liao, Cheng-Hui Li, Jyun-Han Chen, Wei-Lun Wei, Shi-Yu Liu, Hsiang-Lin Liu, Bi-Hsuan Lin(林碧軒), Ming-Yau Chern, Fang-Yuh Lo*(駱芳鈺), "*Visible Light Photoresistance and Response Time of Samarium Doped Zinc Oxide Thin Films Grown by Pulsed Laser Deposition*", Opt. Mater. **167**, 117307 (2025). (I.F.=4.200)☆

286. Shilpa Thakur, Thanigai Arul K, Sheng-Lung Chou(周勝隆), Chung-Li Dong(董崇禮), Asokan Kandasami*, "*Fabrication of WSe_2 Thin Film by RF Sputtering: Structural and Optical Characterizations*", Opt. Mater. **162**, 116772 (2025). (I.F.=4.200)☆

287. Chenglong Lu, Songlin Wu*, Long Ma, Fang You, Narottam Saha, Hao Bu, Joseph Fernando, David Parry, Lars Thomsen, Ting-Shan Chan(詹丁山), Longbin Huang*, "*Haloalkalitolerant Plants Drive Alkaline Mineral Weathering and Dealkalization of Seawater-treated Bauxite Residue*", Plant Soil **514**, 1993 (2025). (I.F.=4.100)☆

288. Deepak Vishnu S. K., Chih-Ying Huang, Cheng-Rong Wu, Bo-Yan Lin, Chia-Chun Chen, Huang-Ming Tsai(蔡煌銘), Jau-Wern Chiou, Raman Sankar*(雷曼), Tsyr-Yan Yu*(余慈顏), Chi-Kung Ni*(倪其焜), Way-Faung Pong, and Chun-Wei Chen*(陳俊維), "*Ferromagnetic-antiferromagnetic Interfaces in MAX Phase Electrocatalysts: a Spin-driven Platform for Enhanced Oxygen Evolution Reaction*", Sustain. Energy Fuels **9**, 4894 (2025). (I.F.=4.100)☆

289. Jyun-Siang Wang, Guan-Bo Liao, Zhen Chong, Cheng-Hsun Ho, Po-Chia Huang(黃柏嘉), Jow-Lay Huang, Chia-Chin Chang, Dipti R. Sahu*, Yu-Min Shen*(沈祐民), "*Carbon-coated Nonstoichiometric TiO_x for Application of Li-ion Battery Anodes in Fast Charging-in Situ XRD Study*", J. Electroanal. Chem. **988**, 119127 (2025). (I.F.=4.100)☆

290. Jianing Chen, Fei Xue, Huiping Peng, Chih-Wen Pao(包志文), Wei-Hsiang Huang(黃偉翔), Zhiwei Hu(胡志偉), Yong Xu*(徐勇), and Xiaoqing Huang*(黃小青), "*Highly Efficient Photocatalytic H_2O_2 Production under Ambient Conditions via Defective In_2S_3 Nanosheets*", Langmuir **41**, 1149 (2025). (I.F.=3.900)☆

291. Ya-Sen Sun*(孫亞賢), Bo-Cheng Zhao, Chun-Chuen Yang, Orion Shih(施怡之), Chun-Yu Chen(陳軍佑), Chun-Jen Su(蘇群仁), and Jhih-Min Lin(林智敏), "*Hybrid Hairy Two-dimensional Nanostructures with Tunable Morphologies by Inclusion Crystallization of Lead Bromide Complexes with Polystyrene-block-poly(Ethylene oxide)*", Langmuir **41**, 31780 (2025). (I.F.=3.900)☆

292. Ting-Yu Chen, Chih-En Hsu, Ching-Yu Hei, Yung-Ning Hsu, David Mikolas, Bo-Hong Chen, Chung-Huang Lin, Yung-Ting Lee, Cheng-Maw Cheng(鄭澄懋), Fumio Komori, Iwao Matsuda, Chung-Yu Mou, Woei Wu Pai*(白偉武), Hung-Chung Hsueh*(薛宏中), and S.-J. Tang*(唐述中), "*Bilayer Germanene Growth as a Chiral Heterostructure*", Phys. Rev. B **112**, L161406 (2025). (I.F.=3.700)☆

293. K. Fujinuma, D. Takegami*, A. Melendez-Sans, M. Yoshimura(吉村政人), K.-D. Tsuei(崔古鼎), R. Higashinaka, T. D. Matsuda, Y. Aoki, M. Hedo, Y. Onuki, L. H. Tjeng, and T. Mizokawa, "*Effect of S 3p and Se 4p Holes on Charge Fluctuations in Pyrite-type CuS_2 and $CuSe_2$ Revealed by Hard X-ray Photoemission Spectroscopy*", Phys. Rev. B **111**, 115147 (2025). (I.F.=3.700)☆

294. Surajit Ghosh, Chin-Wei Li, Chih-En Hsu, Yu-Hui Liang, Wei-Xuan Lin, Kuan-Hung Chen, Hsio-Tsu Wang, Chao-Hung Du, Jau-Wern Chiou*(邱昭文), Huang-Ming Tsai(蔡煌銘), Jeng-Lung Chen(陳政龍), Chih-Wen Pao(包志文), Cheng-Maw Cheng(鄭澄懋), Chia-Nung Kuo, Chin-Shan Lue, Sekhar Chandra Ray, Hung-Chung Hsueh*(薛宏中), and Way-Faung Pong*(彭維鋒), "*Structural Instability and Charge Transfer Mediated Transition in $Pr_3Co_4Sn_{13}$: A Synchrotron Radiation Based Scattering and Spectroscopic Study*", Phys. Rev. B **111**, 165119 (2025). (I.F.=3.700)☆

295. D. Chandrasekhar Kakarla*, Ajay Tiwari, Y. H. Tseng, T. W. Yen, H. C. Wu, C. W. Wang(王進威), M.-J. Hsieh, J.-Y. Lin, Arkadeb Pal, C. Dhanasekhar, D. P. Gulo, H. L. Liu, and H. D. Yang*(楊弘敦), "*Spin-reorientation Induced Hidden Electric Polarization in the Noncentrosymmetric Berlinite Magnetic Oxide α-$FePO_4$*", Phys. Rev. B **111**, 214418 (2025). (I.F.=3.700)☆

296. S. Nakata, M. Bejas, J. Okamoto(岡本淳), K. Yamamoto, D. Shiga, R. Takahashi, H. Y. Huang, H. Kumigashira, H. Wadati, J. Miyawaki, S. Ishida, H. Eisaki, A. Fujimori, A. Greco, H. Yamase*, D. J. Huang(黃迪靖), and H. Suzuki*, "*Out-of-phase Plasmon Excitations in the Trilayer Cuprate $Bi_2Sr_2Ca_2Cu_3O_{10+\delta}$*", Phys. Rev. B **111**, 165141 (2025). (I.F.=3.700)☆

297. Arkadeb Pal*, C. W. Wang, T. W. Yen, G. R. Blake, Sk. Soyeb Ali, S. K. Panda, S. Kamba, Y. H. Chang, H. S. Kunwar, Y. C. Lai(賴彥仲), Y. C. Chuang(莊裕鈞), V. Sathe, G. Senthil Murugan, R. Sankar, S. Giri*, and H. D. Yang*(楊弘敦), "*Field-driven Linear Magnetoelectric Coupling and Entangled Spin-phonon Behavior in the Antiferromagnetic Spin-chain Compound $MnSb_2O_4$*", Phys. Rev. B **111**, 174453 (2025). (I.F.=3.700)☆

298. S. V. Streltsov*, D. Takegami, R. Nakamura, P. P. Kovaleva, A. I. Poteryaev, S. A. Nikolaev, H.-H. Xu, Y. Sui, M. Yoshimura(吉村政人), K.-D. Tsuei(崔古鼎), N. L. Saini, D. I. Khomskii, and T. Mizokawa*, "*Beyond a Cluster-Mott State in the Breathing Kagome Lattice of $LiZn_2Mo_3O_8$*", Phys. Rev. B **111**, 085124 (2025). (I.F.=3.700)☆

299. Daisuke Takegami, Takaki Okauchi, Edgar Abarca Morales, Koto Fujinuma, Mizuki Furo, Masato Yoshimura(吉村政人), Ku-Ding Tsuei(崔古鼎), Grace A. Pan, Dan Ferenc Segedin, Qi Song, Hanjong Paik, Charles M. Brooks, Julia A. Mundy, Takashi Mizokawa, Liu Hao Tjeng, Berit H. Goodge*, and Atsushi Hariki*, "*Valence, Charge Transfer, and Orbital-dependent Correlation in Bilayer Nickelates $Nd_3Ni_2O_7$*", Phys. Rev. B **111**, 165101 (2025). (I.F.=3.700)☆

300. Daisuke Takegami*, Shunsuke Kitou, Yusuke Tokunaga, Masato Yoshimura(吉村政人), Ku-Ding Tsuei(崔古鼎), Takahisa Arima, and Takashi Mizokawa, "*Experimental Determination of Tetramer Molecular Orbital States in Lacunar Spinel $GaNb_4Se_8$ via Hard X-ray Photoemission Spectroscopy*", Phys. Rev. B **111**, 195155 (2025). (I.F.=3.700)☆

301. Kai-Wei Chuang, Aswin kumar Anbalagan*, Yuan-Jhen Wong, Amr Sabbah, Ming-Hsuan Wu, Mayur Chaudhary, Kim Kisslinger, Shu-Chih Haw(何樹智), Ching-Yu Chiang(蔣慶有), Yu-Lun Chueh, Li-Chyong Chen, Andi M. Barbour, Huang-Wei Chang, Andrew L. Walter*, and Chih-Hao Lee*(李志浩), "*Enabling Room-temperature Ferromagnetism in Few-layered MoS_2 Films via Strain Engineering*", Appl. Phys. Lett. **127**, 182406 (2025). (I.F.=3.600)☆

302. Yunjia Liu, Songlin Wu*(伍松林), Fang You, Narottam Saha, Ting-Shan Chan(詹丁山), Longbin Huang*, "*Attenuation of Pollution Risks in Sulfidic Lead-zinc Tailings Through Accelerating Weathering of Sulfides by Indigenous Acidithiobacillus Consortia*", Chem. Geol. **683**, 122765 (2025). (I.F.=3.600)☆

303. Chih-Yu Teng, Chia-Wei Hsu, Chia-Hua Chang, Jheng-Lin Yang, Bi-Hsuan Lin(林碧軒), Mau-Tsu Tang(湯茂竹), and Yuan-Chieh Tseng*(曾院介), "*Oxygen Migration Impact on Ferroelectric Evolution in $Hf_{0.5}Zr_{0.5}O_2$ Devices*", Appl. Phys. Lett. **126**, 193502 (2025). (I.F.=3.600)☆

304. Shishu Zhu, Xiaokang Hou, Huanxin Ma, Hengyi Fu, Jeng-Lung Chen(陳政龍), Tsung-Yi Chen(陳琮宜), Zhi Dang, Chunhua Feng*(馮春華), "*Intrinsic Activity of Organic Acids Controlling Photochemical Behavior and Transformation of Schwertmannite in Acid Mine Drainage*", Chem. Geol. **674**, 122569 (2025). (I.F.=3.600)☆

305. Xiaomin Xu*(許曉敏), Chun-Kuo Peng, Yan-Gu Lin(林彥谷), and Zongping Shao, "*Phase Engineering of Cobalt-based Perovskite Oxides Toward Enhanced Oxygen Evolution Electrocatalysis*", ChemElectroChem **12**, e202500326 (2025). (I.F.=3.500)☆

306. Thi Bich Tuyen Huynh, Quynh Trang Tran, Nhu Quynh Diep*, Hong-Jyun Wang, Chun-Yen Lin(林俊諺), Umeshwar Reddy Nallasani, Wu-Ching Chou*(周武清), Thanh Tra Vu, and Van-Qui Le, "*Alloying-induced Crystal-phase Transition in $In_xGa_ySe_z$ Alloys Grown on C-sapphire Substrates by Molecular Beam Epitaxy: Implication for Next-generation Optoelectronics*", Cryst. Growth Des. **25**, 4159 (2025). (I.F.=3.400)☆

307. Selvaraj Nagarajan, Chen Tzu-Yu, Chean Cheng Su, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), and Eamor M. Woo*(吳逸謨), "*Formation and Periodic Banding in Eye-like Structures of Solvent-crystallized Phthalic Acid*", Cryst. Growth Des. **25**, 10449 (2025). (I.F.=3.400)☆

308. Pai-Chun Wei, Yu-Shan Tseng, Huei-Yin Tseng, Shun-Ji Wu, Jia-Kai Hu, Tung-Yuan Yung, Tai-Cheng Chen, Hung-Cheng Wu, Chun-Min Wu(吳浚銘), and Wen-Hsien Li*(李文獻), "*Thermally Sensitive Infra-red Absorption Bands and Lattice Incommensurability in Photoelectric (CH_3NH_3)PbI_3*", Phys. Rev. Mater. **9**, 055401 (2025). (I.F.=3.400)☆

309. Yu-Yao Hsia, Tzu-Yu Liu, Yu-Ling Lai(賴玉鈴), Yao-Jane Hsu(許瑤真), Jeng-Han Wang*(王禎翰), and Meng-Fan Luo*(羅夢凡), "*Dependence on Size of Supported Rh Nanoclusters in the Decomposition of Ethanol*", J. Phys. Chem. C **129**, 2502 (2025). (I.F.=3.200)☆

310. Selvaraj Nagarajan, Baiq Firyal Salsabila Safitri, Wei-Tsung Chuang(莊偉綜), Jhih-Min Lin(林智敏), Chun-Yu Chen(陳軍佑), and Eamor M. Woo*(吳逸謨), "*Microstructure and Chirality: The Impact on Twisted or Tilted Crystals in Ring-banded (R)/(S)-mandelic Acids with Complex Assembly Structures*", J. Phys. Chem. C **129**, 3199 (2025). (I.F.=3.200)☆

311. Wanli Pan, Kanta Okamoto, Masaki Utsumi, Yi Chen, Misuzu Kitahara, Hidenori Goto, Hirofumi Ishii(石井啟文), Yasuhiro Takabayashi, Koichi Hayashi, Shingo Araki, and Yoshihiro Kubozono*, "*Superconducting Properties of the Noncentrosymmetric Superconductor LaPtSi Across a Broad Pressure Range*", J. Phys. Chem. C **129**, 12159 (2025). (I.F.=3.200)☆

312. Wai-Tung Shiu, Hong-Yi Wang, Jia-Cheng Li, Clement Lee, Jordan N. Bentley, Yihong Liu, Lo-Yueh Chang(張羅嶽), Paul J. Ragogna*, and Lijia Liu*(劉儷佳), "*The Influence of Surface Hydroxylation Media on the Luminescence and Electronic Structure of Cr^{3+}-doped Zinc Gallate Nanoparticles*", J. Phys. Chem. C **129**, 17676 (2025). (I.F.=3.200)☆

313. Yuan-Chun Su, Shu-Jui Chang, D. Mahaveer Sathaiya, Chen-Feng Hsu, Bo-Heng Liu, Chien-Ying Su, Chi-Chung Kei, Yen-Fa Liao(廖彥發), Shu-Chih Haw(何樹智), Chih-Wei Hu(胡芝瑋), San-Lin Liew, Vincent Duen-Huei Hou, T.-Y. Lee, Chao-Ching Cheng, Tsung-En Lee*(李宗恩), and Iuliana P. Radu, "*Conformal Atomic Layer Deposition of Gate Dielectrics on Monolayer MoS_2 for Gate-all-around Transistors*", IEEE T. Electron Dev. **72**, 7122 (2025). (I.F.=3.200)☆

314. Jinlong Wan, Jing Wu, Shisheng Zheng, Jia Yu*(于珈), Yangyang Dong, Ruoxuan Wang, Tianwei Xue, Jiaran Li, Junhua Kuang, Chun-Kuo Peng, Gaofeng Chen, Yuting Zhang, Junchi Ma, Yan-Gu Lin(林彥谷), Li Peng, Xia-Guang Zhang, Tingbin Wen*(温庭斌), Shuliang Yang*(楊述良), and Jian-Feng Li*(李劍鋒), "*Biomass-derived Asymmetric N/S-coordinated Cobalt Sites for Selective C=N Bond Construction*", J. Phys. Chem. C **129**, 20960 (2025). (I.F.=3.200)☆

315. Priyanka L. Yadav, Pawan Joshi, Vaibhav C. Lokhande, Chi-Feng Lee, Shang-Hsien Hsieh(謝尚憲), Hsiao-Tsu Wang, Yu-Cheng Shao(邵禹成), Chih-Wen Pao(包志文), Chia-Hao Chen(陳家浩), Jyotiprakash B. Yadav, Madhav Prasad Ghimire, Nishad G. Deshpande, and Rahul B. Patil*, "*Revisiting the Electronic Structure of α-MnO_2 for Energy Storage Application*", J. Phys. Chem. C **129**, 2619 (2025). (I.F.=3.200)☆

316. Teng-I Yang, Yuen Yung Hui, Pei-Jie Wu, Tzu-Ping Huang(黃自平), Bing-Ming Cheng, Yin-Yu Lee(李英裕), and Huan-Cheng Chang*(張煥正), "*Light Yields of Diamonds with Nitrogen-vacancy Centers as Scintillators for Ionizing Radiation from 80 to 1200 eV*", J. Phys. Chem. C **129**, 2739 (2025). (I.F.=3.200)☆

317. Wen Chao*, Tzu-Ping Huang(黃自平), Tang-Yu Kao, Ching-Hua Chang, Mitchio Okumura, Carl J. Percival, Frank A. F. Winiberg*, and Yin-Yu Lee(李英裕), "*Thermal Stability of Thionyl Chloride and the Sulfinyl Chloride Radical Determined by Cl-S Bond Energy*", J. Chem. Phys. **163**, 164311 (2025). (I.F.=3.100)☆

318. Yi-Lin Li, Tzu-Yu Liu, Guan-Chen Liu, Yu-Yao Hsia, Yu-Ling Lai(賴玉鈴), Hung-Wei Shiu(許紘瑋), Yao-Jane Hsu(許瑤真), Jeng-Han Wang*(王禎翰), and Meng-Fan Luo*(羅夢凡), "*Surface Structures of Au and Rh Deposited on O-pre-adsorbed Cu(110)*", J. Chem. Phys. **163**, 024705 (2025). (I.F.=3.100)☆

319. Chi-Huan Tung, Yangyang Wang, Jan-Michael Carrillo, Yuya Shinohara, Chun-Yu Chen(陳軍佑), Jhih-Min Lin(林智敏), Lionel Porcar, Ryan P. Murphy, Guan-Rong Huang, Lijie Ding, Changwoo Do, and Wei-Ren Chen*, "*Bayesian Inference of Anisotropic 2D Small-angle Scattering from Sparse Measurement*", J. Chem. Phys. **163**, 154103 (2025). (I.F.=3.100)☆

320. Ning-Jung Chen, Chia-Hui Yeh, Huai-Yu Cao, Nai-Chi Chen(陳乃齊), Chun-Jung Chen(陳俊榮), Chun-Yu Chen(陳軍佑), Yi-Wei Tsai(蔡一葦), Jhih-Min Lin(林智敏), Yu-Shan Huang(黃玉山), Chien-Nan Hsiao, and Chien-Chun Chen*(陳健群), "*High-resolution Imaging of Organic and Inorganic Nanoparticles at Nanometre-scale Resolution by X-ray Ensemble Diffraction Microscopy*", J. Synchrotron Radiat. **32**, 217 (2025). (I.F.=3.000)☆

321. Lorena Alzate-Vargas*, Lorenz J. Falling, Sourav Laha, Bettina Lotsch, Jau-Wern Chiou, Ting-Shan Chan(詹丁山), Way-Faung Pong, Cheng-Hao Chuang, J. J. Velasco Velez, and T. E. Jones*, "*Electron Deficient Oxygen Species in*

Highly OER Active Iridium Anodes Characterized by X-ray Absorption and Emission Spectroscopy", Phys. Chem. Chem. Phys. **27**, 9252 (2025). (I.F.=2.900)☆

322. Orlando Dominguez-Flores, Rodrigo Navarro-Severiano, David Ochoa-Resendiz, Oscar Quiroz-Cardoso, Annia Rodriguez-Hernandez, Jesus Porcayo-Calderon, Francisco Javier Hernandez-Campos, Shih-Huang Lee(李世煌), Ramon Hernandez-Lamoneda, and Alfredo Quinto-Hernandez*, "*Photodissociation Dynamics of Ethyl Formate at 193 nm-based Synchrotron Radiation and AB Initio Calculations: Hydrogen Elimination and Secondary Dissociations*", Phys. Chem. Chem. Phys. **27**, 14851 (2025). (I.F.=2.900)☆

323. Jing-Wen Hsueh, Lai-Hsiang Kuo, Po-Han Chen, Wan-Hsin Chen, Chi-Yao Chuang, Chia-Nung Kuo, Chin-Shan Lue, Hung-Wei Shiu(許紘瑋), Bo-Hong Liu(劉柏宏), Chia-Hsin Wang(王嘉興), Yao-Jane Hsu(許瑤真), Chun-Liang Lin*(林俊良), Jyh-Pin Chou*(周至品), and Meng-Fan Luo*(羅夢凡), "*Decomposition of Methanol Activated by Surface Under-coordinated Pd on Layered $PdTe_2$*", Phys. Chem. Chem. Phys. **27**, 9336 (2025). (I.F.=2.900)☆

324. Yu-Hsuan Lin, Yu-Chung Chen, Aditya Sahare, Yi-Cheng Lai, Chun-Jen Su(蘇群仁), Jing-Cherng Tsai, Katsuhiro Yamamoto*, and Hsin-Lung Chen*(陳信龍), "*Interface Densification in a Microphase-separated Diblock Copolymer Resolved by Small-angle X-ray Scattering*", J. Appl. Crystallogr. **58**, 869 (2025). (I.F.=2.800)☆

325. Ya-Sen Sun*(孫亞賢), Yi-Qing Jian, Shin-Tung Yang, Pei-Hsuan Chiang, and Chun-Jen Su(蘇群仁), "*Structural Evolution and Nanodomain Formation in Blend Films of a Block Copolymer and Homopolymer*", Soft Matter **21**, 277 (2025). (I.F.=2.800)☆

326. Anumeet Kaur, Arkaprava Das*, Trilokchand L Kumavat, Wei-Hsiang Huang(黃偉翔), Surbhi Gupta, Joseph Vimal Vas, Chi-Liang Chen(陳啟亮), Asokan Kandasami, Deobrat Singh, and Yogesh Sonvane, "*Enhancement of Ferroelectric Polarization in Sm-doped $BaFe_{0.2}Ti_{0.8}O_3$ Ceramics*", J. Phys.-Condens. Mat. **37**, 185602 (2025). (I.F.=2.600)☆

327. Kuan-Lin Wang, Cai-Fei Lin, Chin Cheng, Tzu-Chi Huang, Bi-Hsuan Lin(林碧軒), Yu-Lin Xie, Bo-Yuan Wang, Jennifer Kung, Kuang-I Lin, and Kuei-Fang Hsu*(許桂芳), "*Zinc Selenide Stabilized in a Quadrilateral Network Characterized with Optical Emissions*", CrystEngComm **27**, 2483 (2025). (I.F.=2.600)☆

328. Hou-Yi Huang, Tsung-Te Lin, Thanigai Arul Kumaravelu*, Ping-Cyuan Wang, Da-Hua Wei, Ta Thi Thuy Nga, Chao-Hung Du, Ping-Hung Yeh, Wu-Ching Chou, Chi-Liang Chen(陳啟亮), Kang-Wei Chang*(張剛瑋), Chung-Li Dong*(董崇禮), "*Proton Irradiation-induced Modifications in Electrochromic WO_3-Ta_2O_5 Thin Films: From Electronic Structure to Space Survivability*", J. Electron. Mater. **54**, 1007 (2025). (I.F.=2.500)☆

329. Wei Chang, Kuan-Ting Yeh, Burn Jeng Lin, Pin-Jiun Wu(吳品鈞), Jenny Yi-Chun Liu, Jiaw-Ren Shih, Chrong Jung Lin, and Ya-Chin King*(金雅琴), "*A Self-powered Wireless Sensing Circuitry for On-wafer In-situ EUV Detection*", IEEE Trans. Semicond. Manuf. **38**, 858 (2025). (I.F.=2.300)☆

330. Hitoshi Yamaoka*, Patrik Thunström, Naohito Tsujii, Masashi Arita, Eike F. Schwier, Kenya Shimada, Hirofumi Ishii(石井啟文), and Nozomu Hiraoka(平岡望), "*Electronic Structures of Yb_3Si_5 and Yb_3Ge_5 Studied by X-ray Absorption Spectroscopy, Resonant X-ray Emission Spectroscopy, Photoelectron Spectroscopy, and LDA+DMFT Calculations*", J. Phys. Soc. JPN. **94**, 074709 (2025). (I.F.=2.200)☆

331. Arkaprava Das*, Marcin Zając, Wei-Hsiang Huang(黃偉翔), Chi-Liang Chen(陳啟亮), Asokan Kandasami, Carla Bittencourt, "*The Impact of Willemite Zn_2SiO_4 Phase in B1 to B2 Type Structural Phase Transformation in $Cd_xZn_{1-x}O$ Composite Thin Films*", Thin Solid Films **812**, 140616 (2025). (I.F.=2.000)☆

332. Shengjie Liu, Xubin Ye, Zhao Pan, Jie Zhang, Shuai Tang, Guangkai Zhang, Maocai Pi, Zhiwei Hu, Chien-Te Chen(陳建德), Ting-Shan Chan(詹丁山), Cheng Dong, Tian Cui, Yanping Huang, Zhenhua Chi*(遲振華), Yao Shen*(沈瑤), and Youwen Long*(龍有文), "*High-pressure Synthesis of an Oxynitride Perovskite $CeNbO_2N$ with Nb^{4+} Charge State*", Chinese Phys. B **34**, 066202 (2025). (I.F.=1.500)☆

333. Kang-Shun Peng, Yu-Jhih Shen, Yu-Chia Chang, Yu-Cheng Liu, Ching-Hsuan Chou, Ya-Ching Chang, Ming-Hsuan Li, Ying-Rui Lu(盧英睿), Shao-Hui Hsu, Sung-Fu Hung*(洪崧富), "*Effect of Electrolyte Cations on the Selectivity of Electrochemical CO_2 Reduction in a Flow Cell System*", J. Chin. Chem. Soc. **72**, 1319 (2025). (I.F.=1.500)☆

334. Akanksha Motla, Kapil Dev, Thanigai Arul Kumaravelu, Chung-Li Dong, Chi-Liang Chen(陳啟亮), Asokan Kandasami, and S. Annapoorni*, "*Exploring Optical and Magnetic Characteristics of Ag and FePt Multilayer Systems for Utilization in Surface-enhanced Raman Spectroscopy (SERS) Applications*", Integr. Ferroelectr. **241**, 480 (2025). (I.F.=0.700)☆

協助性 之 **SCIE** 論文

1. Zhenrong Jia, Xiao Guo, Xinxing Yin, Ming Sun, Jiawei Qiao, Xinyu Jiang, Xi Wang, Yuduan Wang, Zijing Dong, Zhuojie Shi, Chun-Hsiao Kuan, Jingcong Hu, Qilin Zhou, Xiangkun Jia, Jinxi Chen, Zhouyin Wei, Shunchang Liu, Haoming Liang, Nengxu Li, Ling Kai Lee, Renjun Guo, Stephan V. Roth, Peter Müller-Buschbaum, Xiaotao Hao, Xiaoyan Du, and Yi Hou*, "*Efficient Near-infrared Harvesting in Perovskite-organic Tandem Solar Cells*", Nature **643**, 104 (2025). (I.F.=48.500)◆

2. Wenchao Ma, Jordi Morales-Vidal, Jiaming Tian, Meng-Ting Liu, Seongmin Jin, Wenhao Ren, Julian Taubmann, Christodoulos Chatzichristodoulou, Jeremy Luterbacher, Hao Ming Chen, Núria López, and Xile Hu*(胡喜樂), "*Encapsulated Co-Ni Alloy Boosts High-temperature CO_2 Electroreduction*", Nature **641**, 1156 (2025). (I.F.=48.500)◆

3. Guangchao Li, Christopher Foo, Raymond Fan, Mingji Zheng, Qiang Wang, Yueying Chu, Jiasi Li, Sarah Day, Paul Steadman, Chiu Tang, Tsz Woon Benedict Lo*(勞子恒), Feng Deng*(鄧鳳), Shik Chi Edman Tsang*(曾適之), "*Atomic Locations and Adsorbate Interactions of Al Single and Pair Sites in H-ZSM-5 Zeolite*", Science **387**, 388 (2025). (I.F.=45.800)◆

4. Chao Ma, Zhenghan Zhang, Mengdi Zhang, Xudong Tian, Cong Lin*(林聰), Lei Han, Guangchao Li, Benedict Tsz Woon Lo, Ka-Fu Yung, Haitao Song, Wei Lin*(林偉), Miguel A. Camblor, Le Xu, Jian Li1,*(李劍), "*Accelerated Discovery of Stable, Extra-large-pore Nano Zeolites with Micro-electron Diffraction*", Science **388**, 1417 (2025). (I.F.=45.800)◆

5. Juanjuan Feng, Xuanzheng Xiao, Xinting Xia, Jian Min, Weiying Tang, Xinyi Shi, Ke Xu, Guizhen Zhou, Kangkang Li, Panpan Shen, Rujuan Bao, Shuyao Wu, Mengjia Lin, Kun Yuan, Zhengke Lian, Longmiao Hu, Na Li, Zhengzhen Wu, Xiaotong Zhai, Xiaogu Liu, Kewen Hu, Jun Wu, Chunyong Ding, Huixin Zhao, Xinqi Gong, Sulin Zhang, Jianping Jin, Dali Li, Mingyao Liu, Youqiong Ye, Buyong Ma, Rey-Ting Guo*(郭瑞庭), Ao Zhang*(張翱), and Xiufeng Pang*(逄秀鳳), "*A Pan-KRAS Inhibitor and Its Derived Degrader Elicit Multifaceted Anti-tumor Efficacy in KRAS-driven Cancers*", Cancer Cell **43**, 1866 (2025). (I.F.=44.500)◆

6. Ariana Serban, Meng-Ting Liu, Nanjun Chen, Hao Ming Chen*(陳浩銘), and Xile Hu*(胡喜樂), "*An Oxide-promoted, Self-supported Ni_4Mo Catalyst for High Current Density Anion Exchange Membrane Water Electrolysis*", Energ. Environ. Sci. **18**, 1533 (2025). (I.F.=30.800)◆

7. Yu-Ching Weng, Chung-Chieh Kang, Ting-Wei Chang, Yi-Ting Tsai, Shahid Khan, Tzu-Ming Hung, and Chien-Chung Shih*(石健忠), "*Design Principles for Enhancing Both Carrier Mobility and Stretchability in Polymer Semiconductors via Lewis Acid Doping*", Adv. Mater. **37**, 2411572 (2025). (I.F.=26.800)◆

8. Guangxun Zhang, Wanchang Feng, Guangyu Du, Yi Zhang, Ya Yang, Dian Xu, Tianyi Wang, Han-Yi Chen, Huai-Guo Xue, Mohsen Shakouri, and Huan Pang*(龐歡), "*Thermodynamically-driven Phase Engineering and Reconstruction Deduction of Medium-entropy Prussian Blue Analogue Nanocrystals*", Adv. Mater. **37**, 2503814 (2025). (I.F.=26.800)◆

9. Vasantan Rasupillai Dharmaraj, Dheeraj Kumar Maurya, Ayan Sarkar, Hsiu-Hui Su, Yi-An Chen, Han-Chen Chen, Yu-Ping Lin, Ren-Jei Chung*(鍾仁傑), and Ru-Shi Liu*(劉如熹), "*High-performance Mg-O_2 Batteries Enabled by Electrospinning PVDF-HFP-based Quasi-solid-state Polymer Electrolyte*", Adv. Energy Mater. **15**, 2405101 (2025). (I.F.=26.000)◆

10. Jheng-Yi Huang, Yan-Cong Wen, Yen-Ting Lin, Po-Jui Chu, Yu-Shuo Liu, Hao-Zhe Wang, Yun-Ping Chang, Yuan-Ting Hung, Da-Hua Wei*(魏大華), Bih-Yaw Jin*(金必耀), and Ru-Shi Liu*(劉如熹), "*Multifunctional Dual-doping Strategy Improving Halide-based Solid-state Electrolyte*", Adv. Energy Mater. **15**, e03135 (2025). (I.F.=26.000)◆

11. Changle Yue, Guangxun Sun, Na Liu, Wenjing Bao, Xiaowei Zhang, Fengyue Sun, Hsiao-Chien Chen, Yuan Pan*(潘原), Daofeng Sun, and Yukun Lu*(盧玉坤), "*Lattice-Confined Pt-Ru Dual-atom Pair by Space Guard for Robust Hydrogen Evolution with Reversible Hydrogen Spillover*", Adv. Energy Mater. **15**, e02578 (2025). (I.F.=26.000)◆

12. Ming-Chung Wu*(吳明忠), Kai-Chi Hsiao, Chuliang Fu, Ting-Han Lin, Yin-Hsuan Chang, Yu-Ching Huang, Mu-Ping Nieh, Wei-Fang Su, Mingda Li*, "*Giant, Non-perturbative Tuning of Light-matter Interaction of Embedded Quantum Dots in Semiconducting Matrices*", Adv. Compos. Hybrid Mater. **8**, 281 (2025). (I.F.=21.800)◆

13. Yi-Sa Lin, Chih-Chien Hung, Jin-Chieh Ho, Wei-Cheng Chen, Ender Ercan, Yan-Cheng Lin*(林彥丞), Yu-Cheng Chiu*(邱昱誠), and Wen-Chang Chen*(陳文章), "*Multi-level Nonvolatile Transistor Memory With Optical Rewritability Utilizing Reverse-bias P-N Junction of Oriented Rod-like Organic Molecules*", Adv. Funct. Mater. **35**, 2416306 (2025). (I.F.=19.000)◆

14. Shiqi Shen, Cheng Yuan, Yan Xu*(胥燕), Yawen Xie, Lei Wang, Tianran Yan, Shuyuan Chen, Liyao Wang, Tiefeng Liu*(劉鐵鋒), and Liang Zhang*(張亮), "*Improving ZnS Oxidation Kinetics Through Nucleophilic Regulation for High-performance Zinc-sulfur Batteries*", Adv. Funct. Mater. **35**, 2420258 (2025). (I.F.=19.000)◆

15. Nguyen Quoc Thang, Amr Sabbah*, Raghunath Putikam, Chih-Yang Huang, Tsai-Yu Lin, Mahmoud Kamal Hussien, Heng-Liang Wu, Ming-Chang Lin, Chih-Hao Lee, Kuei-Hsien Chen*(陳貴賢), and Li-Chyong Chen*(林麗瓊), "*Regulating COOH Intermediate via Rationally Constructed Surface-active Sites of Bi_2WO_6 for Solar-driven CO_2-to-CO Production*", Adv. Funct. Mater. **35**, 2423751 (2025). (I.F.=19.000)◆

16. Kuan-Chun Chen, Yu-Hsuan Hsiao, Chun-Ling Chien, Wen-Tse Huang, Natalia Majewska, Michał R. Mazurek, Tadeusz Lesniewski, Sebastian Mahlik, Grzegorz Leniec, Ding-Hua Cherng, Kuang-Mao Lu, Sheng-Lung Huang*(黃升龍), and Ru-Shi Liu*(劉如熹), "*Bifunctional Energy Efficient (Ga,Ge)2</sub.O<>3:Cr^{3+},Ni^{2+} Phosphor for Shortwave Infrared Optical Applications*", ACS Energ. Lett. **10**, 3050 (2025). (I.F.=18.200)◆

17. Pavitra Srivastava, Behrouz Bazri, Dheeraj Kumar Maurya, Yuan-Ting Hung, Da-Hua Wei*(魏大華), and Ru-Shi Liu*(劉如熹), "*Green Strategy for Li_2CO_3 Regulation in Garnet-type Solid-state Electrolytes via Acoustic Cavitation*", ACS Energ. Lett. **10**, 10725 (2025). (I.F.=18.200)◆

18. Behrouz Bazri, Jheng-Yi Huang, Chia-Erh Liu, Shih-Chieh Liao, Da-Hua Wei*(魏大華), Shu-Fen Hu*(胡淑芬), Ru-Shi Liu*(劉如熹), "*Spatially Controlled Lithium Utilization in Anode-free All-solid-state Batteries via Diffusive Interface*", Nano Energy **142**, 111222 (2025). (I.F.=17.100)◆

19. Mengxin Chen, Sze Xing Tan, Shuying Cheng, Yi-Yu Chen, Yung-Hsi Hsu, Sung-Fu Hung, Lili Zhang, Jiajian Gao*(高加儉), "*Revisiting the Ruthenium Oxide-based Water Oxidation Catalysts in Acidic Media: From Amorphous to Crystalline*", Nano Energy **137**, 110800 (2025). (I.F.=17.100)◆

20. Loan Thi Ngo, Yu-Ting Huang, Cheng-Chieh Chang, Hemant Verma, Yen-Huei Lin, Ching-Tai Kuo, Ying-Chih Liao, Chao-Cheng Kaun*(關肇正), Ren-Jei Chung*(鍾仁傑), Ru-Shi Liu*(劉如熹), "*High-efficiency and Ultrastable Solvent-free Curable Perovskite Quantum Dot Inks for MicroLED and LED Backlighting Applications*", Nano Energy **142**, 111230 (2025). (I.F.=17.100)◆

21. Tapan Dey, Anubha Yadav, Novotna Seal, Babasaheb M. Matsagar, Norman C.-R. Chen, Praveen Yadav, Kevin C.-W. Wu*(吳嘉文), Amreen Bano*, and Saikat Dutta*, "*Single-atomic Ni-N_4 Biofuel Cell for Mimicking Intramolecular Electron-harnessing of Laccase*", Angew. Chem. Int. Edit. **64**, e202511892 (2025). (I.F.=16.900)◆

22. Yixin Hao, Luqi Wang, Hongjiao Huang, Hao Zhou, Gengyu Xing, Dongxiao Ji, Tianran Zhang, Aoming Huang, Ai-Yin Wang, Xiang-Rong Chen, Tsung-Yi Chen, Han-Yi Chen, Seeram Ramakrishna, and Shengjie Peng*(彭生杰), "*Interfacial Water Orientation in Neutral Oxygen Catalysis for Reversible Ampere-scale Zinc-air Batteries*", Angew. Chem. Int. Edit. **64**, e202421640 (2025). (I.F.=16.900)◆

23. Guo-Lun Huang, Ko-Yu Ting, Nagaraju Narayanam, Dong-Rong Wu, Tzung-En Hsieh, Kai-Chih Tsai, Da-Wei Yang, Qi-Xun Tang, Bo-Kai Su, Yu-Ting Kang, Shing-Jong Huang, Ching-Hsiang Chen, Yuan-Pin Chang, Lan-Sheng Yang, Yu-Chiang Chao, Elise Yu-Tzu Li*(李祐慈), and Yi-Hsin Liu*(劉沂欣), "*Unexpected Magnetic Moments in Manganese-doped $(CdSe)_{13}$ Nanoclusters: Role of Ligands*", Angew. Chem. Int. Edit. **64**, e202420257 (2025). (I.F.=16.900)◆

24. Fu Liu, Jingwen Zhou, Mingzi Sun, Zhihang Xu, Helin Wang, Ning Yao, Yunhao Wang, Fengkun Hao, Yuecheng Xiong, Juan Wang, Liang Guo, Qingbo Wa, Guozhi Wang, Xiang Meng, Mingzheng Shao, Chaohui Wang, Hsiao-Chien Chen*(陳效謙), Hao Ming Chen, Ye Zhu*(朱葉), Bolong Huang*(黃勃龍), and Zhanxi Fan*(范戰西), "*Enhanced p-d Orbital Coupling in Unconventional Phase RhSb Alloy Nanoflowers for Efficient Ammonia Electrosynthesis in Neutral Media*", Angew. Chem. Int. Edit. **64**, e202504641 (2025). (I.F.=16.900)◆

25. Yichun Su, Yanfei Zhang, Wanchang Feng, Guangxun Zhang, Yangyang Sun, Chenhui Yin, Guoqiang Yuan, Yijian Tang, Wenfeng Zhou, Hsiao-Chien Chen, and Huan Pang*(龐歡), "*Monocarboxylic Acid Structural Analogues Facilitate In Situ Composite of Functional Complexes for Aqueous Batteries*", Angew. Chem. Int. Edit. **64**, e202502752 (2025). (I.F.=16.900)◆

26. Qin Yang, Xiu Wang, Yuqi Yang, Ziyu Mi, Lei Wang, Yu-Jhih Shen, Kang-Shun Peng, Mingsheng Zhang, Tanmay Ghosh, Ruoou Yang, Linrong Huang, Jiguang Zhang, Zainul Aabdin, Wan Ru Leow, Sung-Fu Hung*(洪崧富), Ziyun Wang*, and Yanwei Lum*(林彥瑋), "*Electrochemical Assembly of a Defective Cu Catalyst for High Current CO_2 Electrolysis to Methane in a Zero-gap Electrolyzer*", Angew. Chem. Int. Edit. **64**, e202515396 (2025). (I.F.=16.900)◆

27. Jingwen Zhou, Zhihang Xu, Kai Cui, Jian-An Yin, Hsiao-Chien Chen*(陳效謙), Yunhao Wang, Fu Liu, Tianshuai Wang*(王天帥), Fengkun Hao, Yuecheng Xiong, Cheng Wang, Yangbo Ma, Pengyi Lu, Jinwen Yin, Liang Guo, Xiang

Meng, Chenliang Ye, Hao Ming Chen, Ye Zhu*(朱葉), Jian Lu*(呂堅), and Zhanxi Fan*(范戰西), "*Theory-guided Design of Unconventional Phase Metal Heteronanostructures for Higher-rate Stable Li-CO_2 and Li-air Batteries*", Angew. Chem. Int. Edit. **64**, e202416947 (2025). (I.F.=16.900)◆

28. Ying-Pei Hsu, Nan-Si Li, Hao-Han Pang, Yu-Chi Pan, Hung-Pei Tsai, Hsiao-Chien Chen, Ying-Tzu Chen, Chen-Hsun Weng, Shiao-Wei Kuo*(郭紹偉), and Hung-Wei Yang*(楊閎蔚), "*Lab-on-the-Needles: A Microneedle Patch-based Mobile Unit for Highly Sensitive Ex Vivo and In Vivo Detection of Protein Biomarkers*", ACS Nano **19**, 3249 (2025). (I.F.=16.000)◆

29. Hongtai Li, Lei Wang, Peng Chen, Cheng Yuan, Pan Zeng, Xiao Xia, and Liang Zhang*(張亮), "*Spatiotemporal Coordination-engineered Core-shell Zeolitic Imidazolate Frameworks Enable Self-adaptive Electrocatalyst Reconstruction and Self-tandem Sulfur Conversion*", ACS Nano **19**, 19464 (2025). (I.F.=16.000)◆

30. Yong Li, Xiang Yu, Yu Fan, Guangxun Zhang, Songtao Zhang, Zhenyang Meng, Ziming Qiu, Yi-chun Su, Yangyang Sun, Nian-Tzu Suen, Hsiao-Chien Chen, Rongmei Zhu, Yecan Pi*(皮業燦), and Huan Pang*(龐歡), "*Electrochemical Exfoliation of the Two-dimensional Conjugated Metal-organic Framework for High-performance Urea Electrooxidation*", ACS Nano **19**, 18781 (2025). (I.F.=16.000)◆

31. Jun-Lun Meng, Zi-Xuan Dong, Yan-Ru Chen, Meng-Hsuan Lin, Yu-Ching Liu, Steve R. Roffler, Wen-Wei Lin, Chin-Yuan Chang(張晉源), Shey-Cherng Tzou, Tian-Lu Cheng, Hsiao-Chen Huang, Zhi-Qin Li, Yen-Cheng Lin, and Yu-Cheng Su*(蘇昱誠), "*pH-responsive Polyethylene Glycol Engagers for Enhanced Brain Delivery of PEGylated Nanomedicine to Treat Glioblastoma*", ACS Nano **19**, 307 (2025). (I.F.=16.000)◆

32. Sixuan She, Hsiao-Chien Chen, Changsheng Chen, Yanping Zhu, Gao Chen, Yufei Song, Yiping Xiao, Zezhou Lin, Di Zu, Luwei Peng, Hao Li, Ye Zhu, Yuen Hong Tsang*(曾遠康), and Haitao Huang*(黃海濤), "*Regulating Ru-Ru Distance in RuO_2 Catalyst by Lattice Hydroxyl for Efficient Water Oxidation*", ACS Nano **19**, 18513 (2025). (I.F.=16.000)◆

33. Tao Sun*(孫濤), Tong Yang, Wenjie Zang, Jing Li, Xiaoyu Sheng, Enzhou Liu, Jiali Li, Xiao Hai, Huihui Lin, Cheng-Hao Chuang, Chenliang Su, Maohong Fan, Ming Yang, Ming Lin, Shibo Xi, Ruqiang Zou*(鄒如強), and Jiong Lu*, "*Atomic Gap-state Engineering of MoS_2 for Alkaline Water and Seawater Splitting*", ACS Nano **19**, 5447 (2025). (I.F.=16.000)◆

34. Weixin Huang, Hao Xu, Yang Deng, Shih-Wei Lin, Hien N. Pham, Rui Zhang, Dong Jiang, Zihao Zhang, Andrew DeLaRiva, Shuxuan Feng, Yixiao Li, Xinrui Zhang, Abhaya K. Datye, Chih-Jung Chen*(陳致融), and Yong Wang*, "*Single-atom Zr Promoter Boosts Oxygen Activation on Ceria-supported Pt Catalysts*", Nat. Commun. **16**, 7274 (2025). (I.F.=15.700)◆

35. Ling-Ning Ko, Guo Zhen Lim, Jui-Chien Chen, Ta Ko, Guan-Yi Li, and Chii-Shen Yan*(楊啟伸), "*Rhodopsin from Haloquadratum Walsbyi is a Light-driven Magnesium Transporter*", Nat. Commun. **16**, 4472 (2025). (I.F.=15.700)◆

36. Siyu Li, Jian-Wen Huang, Jian Min, Hao Li, Meidan Ning, Shuyu Zhou, Yu Yang*(楊鈺), Chun-Chi Chen*(陳純琪), and Rey-Ting Guo*(郭瑞庭), "*Molecular Insights into a Distinct Class of Terpenoid Cyclases*", Nat. Commun. **16**, 207 (2025). (I.F.=15.700)◆

37. Hsiu-Jung Wang, Yun-Erh Kuan, Meng-Ru Ho*(何孟儒), and Chung-I Chang*(張崇毅), "*Structural Basis for the Allosteric Activation of Lon by the Heat Shock Protein LarA*", Nat. Commun. **16**, 2212 (2025). (I.F.=15.700)◆

38. Fen Wei, Jiwu Zhao, Yu-Chun Liu, Yung-Hsi Hsu, Sung-Fu Hung, Junwen Fu, Kunlong Liu, Wei Lin, Zhiyang Yu, Li Tan, Xue Feng Lu, Chengyang Feng, Huabin Zhang*(張華彬), and Sibo Wang*(汪思波), "*Photocatalytic Ethylene Production Over Defective NiO Through Lattice Oxygen Participation*", Nat. Commun. **16**, 6586 (2025). (I.F.=15.700)◆

39. Hung-Ying Chen, Ruei-Fong Tsai, Yi-Shan Lu, Yang-Chun Cheng, Hsiang-Yuan Fan-Chiang, Chu-Ya Wu, Feng-Chun Lo, Hsuan-Wei Kuo, Wei-Kai Yang, Wan-Yi Liao, Nien-Jen Hu*(胡念仁), Shih-Che Sue*(蘇士哲), and Yun-Wei Chiang*(江昀緯), "*Structure and Nitrite Reductase Activity of the Di-iron Protein ScdA in Staphylococcus Aureus*", J. Am. Chem. Soc. **147**, 31558 (2025). (I.F.=15.600)◆

40. Chung-Chieh Kang, Tzu-Ming Hung, Shi-Ting Lu, Ta-Chung Lu, and Chien-Chung Shih*(石健忠), "*Dipole-tailored Isomeric Linker Enables Decoupling of Aggregation and Crystallinity in Conjugated Polymers for Stretchable Transistors and Photodiodes*", J. Am. Chem. Soc. **147**, 29282 (2025). (I.F.=15.600)◆

41. Jilong Li, Jiwu Zhao, Sibo Wang*(汪思波), Kang-Shun Peng, Bo Su, Kunlong Liu, Sung-Fu Hung, Meirong Huang, Guigang Zhang, Huabin Zhang, and Xinchen Wang*(王心晨), "*Activating Lattice Oxygen in Perovskite Ferrite for Efficient and Stable Photothermal Dry Reforming of Methane*", J. Am. Chem. Soc. **147**, 14705 (2025). (I.F.=15.600)◆

42. Meng Li, Juan Yang, Shaoxiong Li, Liming Deng, Sheng Zhao, Linlin Li*(李林林), Sung-Fu Hung, Gengyu Xing, Tao Wang, Yanyu Liang, Jianwei Ren, Yuping Wu, and Shengjie Peng*(彭生杰), "*Rare-earth-induced Intermediate-spin Co Centers in $MnCo_2O_{4.5}$ for Sustainable Acidic Water Oxidation*", J. Am. Chem. Soc. **147**, 45680 (2025). (I.F.=15.600)◆

43. Jennifer M. Lo, Chih-Chuan Kung, Ting-Jen Rachel Cheng, Chi-Huey Wong*(翁啟惠), and Che Ma*(馬徹), "*Structure-based Mechanism and Specificity of Human Galactosyltransferase β3GalT5*", J. Am. Chem. Soc. **147**, 10875 (2025). (I.F.=15.600)◆

44. Soumyakanta Prusty, Hung-Kai Hsu, Mahesh Madasu, Alisha Rani, Jun-Hao Fu, Lin-Ting Lin, Ming-Hao Lee, Ming-Wen Chu, Chun-Hong Kuo, and Yi-Tsu Chan*(詹益慈), "*Harnessing Dynamic Heteroleptic Complexation for Self-assembly of Robust Nested Metallo-supramolecular Cages*", J. Am. Chem. Soc. **147**, 33914 (2025). (I.F.=15.600)◆

45. Maral Vafaie, Roham Dorakhan, Amin Morteza Najarian, Zahra Teimouri, Alexandre Pofelski, Nasim Barati, Ching-Hsuan Chou, Ya-Ching Chang, Sung-Fu Hung, Qian Sun, Zahra Azimi Dijvejin, Robert Ngunjiri, Yuke Li, Ali Shayesteh Zeraati, Kholoud E. Salem, Rui Kai Miao, Sjoerd Hoogland, Drew Higgins, Edward H. Sargent*, and David Sinton*, "*Direct Electrosynthesis of C_{3+} Hydrocarbons from CO_2 via Size-controlled Nickel Nanoislands on a Carbon Support*", J. Am. Chem. Soc. **147**, 40454 (2025). (I.F.=15.600)◆

46. Po-Hsun Wang, Yuhei Hosokawa, Jessica C. Soares, Hans-Joachim Emmerich, Valeri Fuchs, Nicolas Caramello, Sylvain Engilberge, Andrea Bologna, Christian Joshua Rosner, Mai Nakamura, Mohamed Watad, Fangjia Luo, Shigeki Owada, Takehiko Tosha, Jungmin Kang, Kensuke Tono, Yoshitaka Bessho, Eriko Nango, Antonio J. Pierik, Antoine Royant, Ming-Daw Tsai, Junpei Yamamoto, Manuel Maestre-Reyna*, and Lars-Oliver Essen*, "*Redox-state-dependent Structural Changes within a Prokaryotic 6-4 Photolyase*", J. Am. Chem. Soc. **147**, 16084 (2025). (I.F.=15.600)◆

47. Sheng Zhao, Sung-Fu Hung, Yue Wang, Shaoxiong Li, Juan Yang, Wen-Jing Zeng, Ying Zhang, Hao-Hsiang Chang, Han-Yi Chen, Feng Hu, Linlin Li, and Shengjie Peng*(彭生杰), "*Dynamic Deprotonation Enhancement Triggered by Accelerated Electrochemical Delithiation Reconstruction during Acidic Water Oxidation*", J. Am. Chem. Soc. **147**, 7993 (2025). (I.F.=15.600)◆

48. Jingwen Zhou, Fu Liu, Zhihang Xu, Jian-An Yin, Liang Guo, Fengkun Hao, Yunhao Wang, Yuecheng Xiong, Xichen Zhou, Cheng Wang, Yangbo Ma, Xiang Meng, Pengyi Lu, Jinwen Yin, An Zhang, Jie Wang, Chenliang Ye, Qiang Li, Chongyi Ling, Hsiao-Chien Chen*(陳効謙), Hao Ming Chen, Ye Zhu*(朱葉), Jian Lu*(呂堅), and Zhanxi Fan*(范戰西), "*Modulating the Nitrate Reduction Pathway on Unconventional Phase Ultrathin Nanoalloys for Selective Ammonia Electrosynthesis*", J. Am. Chem. Soc. **147**, 23226 (2025). (I.F.=15.600)◆

49. Keke Wang, Xinjing Huang, Yang Liu*(劉洋), Min Liu, Wenzhang Li*(李文章), "*Quasi-diatomic Site-tailored Molecular Catalyst on Si Nanowire Boosting Photoelectrocatalytic CO_2 Reduction Efficiency at Ultralow Potential*", J. Energy Chem. **108**, 749 (2025). (I.F.=14.900)◆

50. Luyao Deng, Ralph Rolly Gonzales*, Joy Thomas, Ryosuke Takagi, Wenming Fu, Cheng-Liang Liu(劉振良), Shang Xiang, Hideto Matsuyama*, "*Carbon Nanotube Intermediate Layer Intercalation and Its Influence on Surface Charge of Thin Film Composite Membrane*", Compos. Pt. B-Eng. **289**, 111951 (2025). (I.F.=14.200)◆

51. Shen-Fa Dung, Hamed Cheshideh, Pin-Yan Lee, Kun-Hua Tu, Hung-Ming Chen, Kuo-Chuan Ho, Yung-Fu Wu*(吳永富), Hsiao-Chien Chen*(陳効謙), Lu-Yin Lin*(林律吟), "*Enhanced Ni-Co Redox Dynamics in Dual-SDA Engineered ZIF-67 Derivatives for High-performance Supercapacitors: Insights from Operando X-ray Spectroscopy*", Compos. Pt. B-Eng. **304**, 112646 (2025). (I.F.=14.200)◆

52. Hong-Wei Chang, Thomas Yang, Che Yan, Po-Han Chiu, Chi-Ying Wu, Hung-Wei Yen, Dinesh Bhalothia*, Kaun-Wen Wang, Po-Chun Chen*(陳柏均), and Tsan-Yao Chen*(陳燦耀), "*Oxidized Ti Single Atoms and Co_3O_4 with Abundant Oxygen Vacancies Collaborating with Adjacent Pd Sites for an Efficient and Stable Oxygen Reduction Reaction*", Adv. Sci. **12**, 2417789 (2025). (I.F.=14.100)◆

53. Kuo-Hsiu Huang, Bing-Huang Jiang, Han-Cheng Lu, Yung-Jing Xue, Chia-Fang Lu, Yung-Yung Chang, Ching-Li Huang, Su-Ying Chien, Chih-Ping Chen*(陳志平), and Yen-Ju Cheng*(鄭彥如), "*Electron-rich Heptacyclic S,N Heteroacene Enabling C-shaped A-D-A-type Electron Acceptors With Photoelectric Response beyond 1000 Nm for Highly Sensitive Near-infrared Photodetectors*", Adv. Sci. **12**, 2413045 (2025). (I.F.=14.100)◆

54. Nur Aqlili Riana Che Mohamad, Kyunghee Chae, Qiang Zhou, Wen-Tse Huang, Hyun Jeong Lee, Jaehyun Son, Jooho Moon, Yunfei Bu, Feng Gong*(鞏峰), Ru-Shi Liu*(劉如熹), Jeongwon Kim*, and Dong Ha Kim*, "*Plasmon-driven*

Reorientation of Interfacial Water for Wastewater Electrolysis with Light-emitting Diode Illumination", Adv. Sci. **12**, e07147 (2025). (I.F.=14.100)◆

55. Lihui Zhou, Hung-Wei Tsai, Ting-Wei Kuo, Jui-Cheng Kao, Yu-Chieh Lo, Ji-Min Chang, Tzu-Hsuan Chiang, Sheng Dai*(戴升), Kuan-Wen Wang*(王冠文), and Tsan-Yao Chen*(陳燦耀), "*Atomic Layered ZnO Between Cu Nanoparticles and a PVP Polymer Layer Enable Exceptional Selectivity and Stability in Electrocatalytic CO_2 Reduction to C_2H_4*", Adv. Sci. **12**, 2501642 (2025). (I.F.=14.100)◆

56. Hao Chen, Hsiao-Hsuan Wu, Chia-Chen Li*(李嘉甄), "*Solid Electrolyte-driven Suppression of H2-H3 Phase Transition in Ni-rich Cathodes for Stable High-voltage Cycling*", Curr. Opin. Solid State Mat. Sci. **39**, 101245 (2025). (I.F.=13.400) ◆

57. Mengstu Etay Ashebir, Palani Sabhapathy, Osama Nasr, Varad Modak, Omran Moradlou, Amr Sabbah, Chih-Yang Huang, Santhanamoorthi Nachimuthu, Jyh-Chiang Jiang, Ying-Li Hu, Chen-Hsiung Hung, Li-Chyong Chen*(林麗瓊), Kuei-Hsien Chen*(陳貴賢), "*Electronic Structure Engineering of Nickel Single-atom Catalyst by Phosphorous for Efficient Electrocatalytic CO_2 Reduction Reaction in a Proton-rich Microenvironment*", Chem. Eng. J. **509**, 161319 (2025). (I.F.=13.200)◆

58. Yiran Bai, Yunjian Wang, Yibing Yang, Chen Sun, Hsiao-Tsu Wang, Chi-Feng Lee, Cheng-You Li, Tingting Zheng, Kunpeng Jiang*(蔣坤朋), Lili Han*(韓麗麗), "*Unveiling the Role of Heteroatom Doping and Strain in Core-shell Catalysts for CO_2RR*", Chem. Eng. J. **507**, 160155 (2025). (I.F.=13.200)◆

59. Rajendiran Balasaravanan, Chun-Hsiao Kuan, Yun-Sheng Shih, Hsu-Lung Cheng, Deebakkrishnan Ganesan, Shao-Huan Hong, Cheng-Liang Liu, Yun-Rou Zhong, Xianyuan Jiang, Ming-Chou Chen*(陳銘洲), Eric Wei-Guang Diau*(刁維光), "*Electron "Push-push-pull" Type Dithienopyrrole-based Self-assembled Monolayers on NiOx for Enhanced Performance of Tin Perovskite Solar Cells*", Chem. Eng. J. **519**, 165231 (2025). (I.F.=13.200)◆

60. Norman C.-R. Chen, Po-Chun Han, Li-Hsien Yeh*(葉禮賢), Yu-Hsiang Peng, Chia-An Lung, Yusuke Yamauchi, Kevin C.-W. Wu*(吳嘉文), "*A Full Sub-2 nm and Acid-resistant MOF-COF Ionic Diode Membrane for Efficient Ionic Gradient Power Generation*", Chem. Eng. J. **525**, 170303 (2025). (I.F.=13.200)◆

61. Zhenghao Chen, Tsung-Cheng Yang, Chia-Min Yang*(楊家銘), Cheng Bao, Zeyi Jiang, Shiqing Deng*(鄧世清), Nien-Chu Lai*(賴念筑), "*Symmetry Distortion Engineering Single-atom Catalysts: Exceptional ORR Activity and Ultra-stable Zn-air Batteries*", Chem. Eng. J. **516**, 164156 (2025). (I.F.=13.200)◆

62. Aknachew Mebreku Demeku, Chun-Hong Guo, Daniel Manaye Kabtamu, Zih-Jhong Huang, Guan-Cheng Chen, Anteneh Wodaje Bayeh, Chen-Hao Wang*(王丞浩), "*Enhanced Electrochemical Performance of Copper-doped Cobalt Oxide Nanowire-modified Graphite Felt as Positive Electrode Material for Vanadium Redox Flow Batteries*", Chem. Eng. J. **505**, 159170 (2025). (I.F.=13.200)◆

63. Yu-Peng Han, Zi-Rui Wang, Ya-Yu Yan, Qiao-Hong Li, Ping Shao, Hai-Xia Zhang, Li-Li Han, Fei Wang*(王飛), Jian Zhang*(張健), "*Coplanar Two-dimensional Cu-MOF with Dual-Cu Sites for Electrocatalytic CO_2 Reduction to C_2H_4*", Chem. Eng. J. **507**, 160493 (2025). (I.F.=13.200)◆

64. Chih-Wei Hsu, Ming-Yan Shen, Yi-Jen Wang, Shao-Huan Hong, Yu Liu, Hsuan-Chen Wu*(吳亘承), Wen-Chang Chen*(陳文章), Cheng-Liang Liu*(劉振良), "*Morphology-engineered Spider Silk-carbon Nanotube Composites for High-performance and Sustainable Thermoelectric Energy Harvesting*", Chem. Eng. J. **524**, 169375 (2025). (I.F.=13.200)◆

65. Yongjun Jiang, Tzu-Hsi Huang, Kuang-Yen Chiu, Sheng-Wei Lee, Tsan-Yao Chen, Yanyan Jia, Jeng-Han Wang*(王禎翰), Kuan-Wen Wang*(王冠文), Sheng Dai*(戴升), "*Surface SnO_2 Decoration: An economical and Efficient Alternative to Pt Shells in Pt-Co Catalysts for Enhanced Oxygen Reduction Reaction*", Chem. Eng. J. **511**, 161971 (2025). (I.F.=13.200)◆

66. Chia-Feng Li, Shih-Han Huang, You-Ren Chen, Hou-Chin Cha, Ssu-Yung Chung, Yu-Hung Hsiao, Feng-Yu Tsai*(蔡豐羽), Yu-Ching Huang* (黃裕清), "*Sequential Slot-die Coating of Perovskite Solar Cell Modules Under Ambient Conditions with Precise Phase-transition Control*", Chem. Eng. J. **517**, 164194 (2025). (I.F.=13.200)◆

67. Yu-Chiao Tseng, Shih-Hsuan Chen, Kuang-Yi Liu, Yen-Lin Lai, Shu-Yu Lee, Chia-Shing Wu, Kuan-Wen Wang*(王冠文), Tsan-Yao Chen*(陳燦耀), "*Local Synergistic Collaboration Between Metallic Bi Clusters, Oxygen Vacancies, and Cu Atom Enhances the Electrochemical CO_2-to-CH_4 Performance of CuO Nanocatalysts*", Chem. Eng. J. **522**, 167417 (2025). (I.F.=13.200)◆

68. Anubha Yadav, Prakash Kumar Pathak, Babasaheb M. Matsagar, Rahul Patil, Norman C.-R. Chen, Rajashri R. Urkude, Masaki Ujihara, Kevin C.-W. Wu, Rahul R. Salunkhe*, Saikat Dutta*, "*Interfacial-bulk Electrochemistry of Sodium-ion*

Storage in Multiwalled Carbon Nanofiber Anode with Incorporated Mn-N_4 Single-atoms", Chem. Eng. J. **525**, 169716 (2025). (I.F.=13.200)◆

69. Yunyun Yang*(楊雲雲), Yanling Li, Licheng Yao, Kexiang Dai, Xiaolong Fu, Aoyue Ge, Jian-Wen Huang, Rey-Ting Guo*(郭瑞庭), and Chun-Chi Chen*(陳純琪), "*Structural Insights into the N-N Bond-formation Mechanism of the Heme-dependent Piperazate Synthase KtzT*", ACS Catalysis **15**, 1265 (2025). (I.F.=13.100)◆

70. Chao-Cheng Cho, Hsun-Ho Huang, Bo-Chen Jiang, Wei-Zen Yang, Yi-Ning Chen, Hanna S. Yuan*(袁小玲), "*Histone Modification-driven Structural Remodeling Unleashes DNMT3B in DNA Methylation*", Sci. Adv. **11**, eadu8116 (2025). (I.F.=12.500)◆

71. Manuel Maestre-Reyna*, Yuhei Hosokawa, Po-Hsun Wang, Martin Saft, Nicolas Caramello, Sylvain Engilberge, Sophie Franz-Badur, Eka Putra Gusti Ngurah Putu, Mai Nakamura, Wen-Jin Wu, Hsiang-Yi Wu, Cheng-Chung Lee, Wei-Cheng Huang, Kai-Fa Huang, Yao-Kai Chang, Cheng-Han Yang, Meng-Iao Fong, Wei-Ting Lin, Kai-Chun Yang, Yuki Ban, Tomoki Imura, Atsuo Kazuoka, Eisho Tanida, Shigeki Owada, Yasumasa Joti, Rie Tanaka,...,So Iwata, Antoine Royant, Ming-Daw Tsai*, Junpei Yamamoto*, Lars-Oliver Essen*, "*Capturing Structural Intermediates in an Animal-like Cryptochrome Photoreceptor by Time-resolved Crystallography*", Sci. Adv. **11**, eadu7247 (2025). (I.F.=12.500)◆

72. Meng Wang, Yuke Li, Jinfeng Jia, Tanmay Ghosh, Ping Luo, Yu-Jhih Shen, Sibo Wang, Jiguang Zhang, Shibo Xi, Ziyu Mi, Mingsheng Zhang, Wan Ru Leow, Bernt Johannessen, Zainul Aabdin, Sung-Fu Hung, Jia Zhang*(張杰), Yanwei Lum*(林彥瑋), "*Tuning Catalyst-support Interactions Enable Steering of Electrochemical CO_2 Reduction Pathways*", Sci. Adv. **11**, eado5000 (2025). (I.F.=12.500)◆

73. Behrouz Bazri, Shivangi Singh, Kashyap Dave, Da-Hua Wei*(魏大華), and Ru-Shi Liu*(劉如熹), "*Surface Trait-dependent Photoreduction Products in $CsPbBr_3$, Embedded Cs_4PbBr_6 Structure*", Small **21**, 2501948 (2025). (I.F.=12.100)◆

74. Jiawen Cong, Zhi-Hao Huang, Shun-Wei Liu, Zhenghui Luo*(羅正輝), Fu-Zong Liu, Zhanxiang Chen, Kun-Mu Lee, Yu-Ching Huang*(黃裕清), and Chuluo Yang*(楊楚羅), "*Efficient SWIR Organic Photodetectors with Spectral Detection Extending to 1.4 μm Using a Benzobisthiadiazole-based Acceptor*", Small **21**, 2410418 (2025). (I.F.=12.100)◆

75. An-Sheng Lin, Suhail K. Siddique, Yi-Ting Xie, Chang-Chun Lee, Hassan Sadek*, and Rong-Ming Ho*(何榮銘), "*Well-ordered Nanonetwork Invar from Templated Electrochemical Deposition as Mechanical Metamaterials*", Small **21**, 2502361 (2025). (I.F.=12.100)◆

76. Rahul Patil, Prakash Kumar Pathak, Meemansha Mishra, Babasaheb M. Matsagar, Antra Mohini, Norman C.-R. Chen, Kevin C.-W. Wu, Amreen Bano*, Rahul R. Salunkhe*, and Saikat Dutta*, "*Fe-single-atom Incorporated Wood-derived Anode with Fe-N-C/Fe_3C Structural Unit and Hollow Diffusion Sites for Enhanced Sodium-ion Storage*", Small **21**, e07064 (2025). (I.F.=12.100)◆

77. Qian-Pu Cheng, Nikolaj K. Mandsberg, Pavel A. Levkin*, and Shan-hui Hsu*(徐善慧), "*UV-induced Photopatterning of the Thermoresponsive Properties of a Poly(Ethylene glycol) Methylether Acrylate-co-poly(N-isopropylacrylamide) Hydrogel*", Small Struct. **6**, 2400560 (2025). (I.F.=11.300)◆

78. Wei-Cheng Chen, Ya-Shuan Wu, Yan-Cheng Lin, Yu-Hang Huang, Jing-Yang Wu, Kai-Wei Lin, Cheng-Liang Liu, Chi-Ching Kuo*(郭霽慶), and Wen-Chang Chen*(陳文章), "*Ultralow Energy Consumption Conjugated Polymers with Perovskite Quantum Dots via Polarity Adjustment for Photosynaptic Transistors*", Mater. Horizons **12**, 8711 (2025). (I.F.=10.700)◆

79. Yu-Dao Lu, Chan-Rung Hsu, Shin-Hau Ke, Kuan-Lin Lai, Horng-Long Cheng, Yu-Wu Wang, and Jung-Yao Chen*(陳蓉瑤), "*Solution-processable and Photo-programmable Logic Gate Realized by Organic Non-volatile Floating-gate Photomemory*", Mater. Horizons **12**, 4788 (2025). (I.F.=10.700)◆

80. Zhe-Hao Lin and Yu-Chun Wu*(吳毓純), "*Capping Stabilization Mechanism of Vanadate-stabilized δ-Bi_2O_3: Experimental and Theoretical Approaches*", Prog. Solid State Ch. **80**, 100549 (2025). (I.F.=10.500)◆

81. Ying Cheng, Yue Zhang, Wenqing Guan, Sanyuan Zhu, Chengxu Zhang*(張呈旭), Lili Han*(韓麗麗), Jue Hu*(胡覺), "*Axial Coordination Engineering of FeNi Catalysts for Oxygen Evolution Reaction*", J. Colloid Interf. Sci. **698**, 138096 (2025). (I.F.=9.700)◆

82. Chi-Hung Lee*(李其紘), Cheng-Yen Lin, Guan-Yu Chen, "*Uniaxial Zero Thermal Expansion in Low-cost Mn_2OBO_3 from 3.5 to 1250 K*", Mater. Today Phys. **51**, 101650 (2025). (I.F.=9.700)◆

83. Hongwei Wang, Tsung-Cheng Yang, Hao Zheng, Zeyi Jiang, Chia-Min Yang*(楊家銘), Nien-Chu Lai*(賴念筑), "*Identification of True Active Sites in N-doped Carbon-supported Fe_2P Nanoparticles Toward Oxygen Reduction Reaction*", J. Colloid Interf. Sci. **678**, 806 (2025). (I.F.=9.700)◆

84. Hao Zheng, Lin Lin, Zhenghao Chen, Tsung-Cheng Yang, Hongwei Wang, Zeyi Jiang, Cheng Bao, Chia-Min Yang*(楊家銘), Nien-Chu Lai*(賴念筑), "*Carbon Doped Cobalt Nanoparticles Encapsulated in Graphitic Carbon Shells: Efficient Bifunctional Oxygen Electrocatalysts for Ultrastable Zn-air Batteries*", J. Colloid Interf. Sci. **686**, 624 (2025). (I.F.=9.700)◆

85. Chia-Wei Chang, Chun-Ting Chang, Jian-Hua Ciou, Kai-Chuan Kuo, Chia-Ti Wu, Ji Lin, Tse-Yu Lo, Yu Chen, Huan-Wei Lin, Yu-Hsuan Tseng, Mei-Li Li, Che-Tseng Lin, and Jiun-Tai Chen*(陳俊太), "*Layer-by-layer Techniques Incorporating Upcycled TPEE: from Waste to Conductive, Multi-responsive, Self-healable, and Highly-stretchable Electronics*", J. Mater. Chem. A **13**, 19850 (2025). (I.F.=9.500)◆

86. Yung-Yung Chang, Chia-Lin Tsai, Yung-Jing Xue, Yan-Bo Wang, Kuo-Hsiu Huang, Yu-Chi Huang, Chi-Chun Tseng, Jin Lee, Bing-Huang Jiang, Chih-Ping Chen, and Yen-Ju Cheng*(鄭彥如), "*Side-chain Engineering of C-shaped Ortho-benzodipyrrole-based A-D-A Acceptors for Energy Loss Suppression in Organic Photovoltaics*", J. Mater. Chem. A **13**, 36500 (2025). (I.F.=9.500)◆

87. Hsiao-Chien Chen*(陳効謙), Abdul Shabird and Kun-Hua Tu, "*Unraveling the Role of Mo/Ni Synergy in β-$Ni(OH)_2$ for High-performance Urea Oxidation Catalysis*", J. Mater. Chem. A **13**, 27970 (2025). (I.F.=9.500)◆

88. Yen-Yu Chen, Yen-Chih Chen, Hsuan-Chih Tsai, and Yu-Ying Lai*(賴育英), "*Synthesis, Properties, and Photocatalytic Hydrogen Evolution of Isoindigo-based Conjugated Molecules*", J. Mater. Chem. A **13**, 41242 (2025). (I.F.=9.500)◆

89. Hsu-Tzu Cheng, Aoto Kato, Yu-Cheng Tseng, Cheng-Yu Yeh, Hao-Wei Yu, Tomoya Higashihara*, and Chu-Chen Chueh*(闕居振), "*Tailoring Block Copolymer-type Compatibilizers to Enhance the Performance and Processability of Inverted All-polymer Solar Cells*", J. Mater. Chem. A **13**, 34375 (2025). (I.F.=9.500)◆

90. Peramaiyan Ganesan*, Chandra Shekar Gantepogu, Sidharth Duraisamy, Phillip Wu, Gwo-Tzong Huang, Muhammad Yusuf Fakhri, Kuei-Hsien Chen, Yang-Yuan Chen, and Maw-Kuen Wu*(吳茂昆), "*Maximizing Thermoelectric Performance in SnTe Through Strategic Co-doping, Nanostructuring, and Topological Insights*", J. Mater. Chem. A **13**, 8559 (2025). (I.F.=9.500)◆

91. Cheng-Hao Liao, Ming-Yan Shen, Yi-Jen Wang, Tsung-Yu Yu, Ru-Jong Jeng, Ta-I Yang, Matthew B. Dickerson, Chia-Suei Hung, Jeremy S. Knopp, Hsuan-Chen Wu*(吳亘承), and Shih-Huang Tung*(童世煌), "*Weaving Strength and Conductivity: Spider Silk-modulated Polymer Electrolytes for High-performance All-solid-state Lithium-metal Batteries*", J. Mater. Chem. A **13**, 36072 (2025). (I.F.=9.500)◆

92. Gebretinsae Yeabyo Nigussie, Yi-Fang Tsai, Tsung-Cheng Yang, Chia-Min Yang*(楊家銘), and Steve S.-F. Yu*(俞聖法), "*An Efficient H_2O_2-based Propylene to Propylene Oxide (HPPO) Reaction Catalyzed by ZnO/ZnO_2 Materials*", J. Mater. Chem. A **13**, 5261 (2025). (I.F.=9.500)◆

93. Meng Zhang, Zizhu Fang, Zhaoyang Gao, Zhigang Pan, Huihua Min, Hsiang-Jung Chen, Han-Yi Chen, Hao Yang*(楊浩), and Jin Wang*(王瑾), "*Hollow Carbon Bowls with Cobalt Single-atom Sites Enable Fast and Reversible Potassium Storage*", J. Mater. Chem. A **13**, 27182 (2025). (I.F.=9.500)◆

94. Shakil N. Afraj, Yun-Sheng Shih, Che-Hsin Kuo, Chun-Hsiao Kuan, Pei-Yu Huang, Pei-Yun Lee, Arulmozhi Velusamy, Shao-Huan Hong, Cheng-Liang Liu, Xianyuan Jiang, Ming-Chou Chen*(陳銘洲), and Eric Wei-Guang Diau*(刁維光), "*Harnessing Functionalized Thioalkylated-cyclopentadithiophene Monolayers on NiOx for Two-step Fabricated Tin Perovskite Solar Cells*", Small Methods **9**, e01309 (2025). (I.F.=9.100)◆

95. Zheng Chen, Yi Xiao, Xianji Qiao, Honghui Ou*(歐鴻輝), Chi-Feng Lee, Hsiao-Tsu Wang, Yu-Cheng Shao, and Lili Han*(韓麗麗), "*Monitoring Chalcogenide Ions-guided in Situ Transform Active Sites of Tailored Bismuth Electrocatalysts for CO_2 Reduction to Formate*", P. Natl. Acad. Sci. USA **122**, e2420922122 (2025). (I.F.=9.100)◆

96. Vasantan Rasupillai Dharmaraj, Ayan Sarkar, Jheng-Yi Huang, Sheng-Chieh Huang, Chin-Lung Kuo*(郭錦龍), Ching-Chen Wu, Wen-Sheng Chang, Han-Chen Chen, Yu-Ping Lin, Chao-Cheng Kaun*(關肇正), Ren-Jei Chung*(鍾仁傑), and Ru-Shi Liu*(劉如熹), "*Superionic Quasi-solid-state Electrolyte for Rechargeable Magnesium-oxygen Batteries*", ACS Mater. Lett. **7**, 1440 (2025). (I.F.=8.700)◆

97. Chamaipon Beagbandee, Ratana Charoenwattanasatien, Salila Pengthaisong*, Genji Kurisu, James R. Ketudat Cairns*, "*The Structure of Thermosynechococcus Elongatus Glycoside Hydrolase Family 116 β-glucosidase Shows the*

Role of the Noncatalytic N-terminal Domain in Controlling Substrate Specificity", Int. J. Biol. Macromol. **332**, 148566 (2025). (I.F.=8.500)◆

98. Charin Chandit, Kowit Hengphasatporn, Pattraporn Donsuy, Yasuteru Shigeta, Kittikhun Wangkanont*, "*Structure and Catalytic Activity of a Dihydrofolate Reductase-like Enzyme from Leptospira Interrogans*", Int. J. Biol. Macromol. **298**, 139931 (2025). (I.F.=8.500)◆

99. Xian Li, Jian-Wen Huang, Zhiyuan Ning, Siqi Huang, Cheng Zeng, Ziyin Zeng, Rui Ji, Rouming Peng, Xin Liu, Jian Min*(閔鑑), Chun-Chi Chen*(陳純琪), Rey-Ting Guo*(郭瑞庭), "*Combined Approaches to Enhance the Pichia Pastoris-expressed PET Hydrolase*", Int. J. Biol. Macromol. **320**, 145862 (2025). (I.F.=8.500)◆

100. Qian Wang, Yu Yang*(楊鈺), Biyu He, Jian-Wen Huang, Chih-Jung Kuo*(郭致榮), Chun-Chi Chen*(陳純琪), Rey-Ting Guo*(郭瑞庭), "*Structural Insight of a Bi-functional Isoprenyl Diphosphate Synthase Rv0562 from Mycobacterium Tuberculosis*", Int. J. Biol. Macromol. **318**, 145171 (2025). (I.F.=8.500)◆

101. Yung-Lin Wang, Li-Ci Ye, San-Chi Chang, Sheng-Chia Chen*(陳勝嘉), Chun-Hua Hsu*(徐駿森), "*Structural Insight into the Poly(3-hydroxybutyrate) Hydrolysis by Intracellular PHB Depolymerase from Bacillus Thuringiensis*", Int. J. Biol. Macromol. **284**, 137999 (2025). (I.F.=8.500)◆

102. Chia-Shin Yang, Ming-You Shie, Shi-Wei Huang, Yu-Chuan Wang, Mei-Hui Hou, Chao-Jung Chen*(陳朝榮), Yeh Chen*(陳曄), "*Structural Insights into Signaling Promiscuity of the CBASS Anti-phage Defense System from a Radiation-resistant Bacterium*", Int. J. Biol. Macromol. **295**, 139534 (2025). (I.F.=8.500)◆

103. Puu-Tai Yang and Shan-Li Wang*(王尚禮), "*Chemical Speciation and Availability of Molybdenum in Soils to Wheat Uptake*", J. Environ. Manage. **374**, 124097 (2025). (I.F.=8.400)◆

104. Ming-Yang Chen, Yu-Ting Liu, Liang-Ching Hsu, Yoke Wang Cheng, Kim Hoong Ng*, "*Sub-boiling Hydrothermally Synthesized 2D Ni-catalyst Supported on KCC-1 for a Sustainable Dry Reforming of Methane: 1000h-longevity Reaction and Operando Insight on Its Activity Restoration Under N_2-blanket*", Int. J. Hydrogen Energ. **127**, 913 (2025). (I.F.=8.300)◆

105. Cheng-Yueh Chen, Hao-Cheng Lin, Pei-En Jan, Hung-Ming Chen, Yung-Tang Chuang, Chia-Feng Li, Yu-Ching Huang, and Hao-Wu Lin*(林皓武), "*Dual-mode Photonic Synapse Based on a Lead-free 2D Ruddlesden-popper Perovskite for Neuromorphic Vision*", ACS Appl. Mater. Interfaces **17**, 48547 (2025). (I.F.=8.200)◆

106. Nakyung Kim, Yunna Kim, Jiyoung Kwon, Gui-Min Kim, Hee Joon Jung, Jinu Park, Sukki Lee, Seoyeon Park, Doh C. Lee, Yu-Ching Huang*(黃裕清), and Byungha Shin*, "*Improving the Performance of Vacuum-deposited Perovskite Light-emitting Diodes via a Tailored Sequential Deposition Strategy*", ACS Appl. Mater. Interfaces **17**, 56289 (2025). (I.F.=8.200)◆

107. Aum Sagar Panda, Cheng-Hsun Tung, Jui-Chang Chuang, The Anh Nguyen, Thuy Trinh, Pin-Chia Chen, Thanmayee Shastry, Fu-Rong Chen, Ming-Chang Lee, Chang-Chun Lee*(李昌駿), and Rong-Ming Ho*(何榮銘), "*Stress-induced Directed Self-assembly of Perpendicularly Oriented Block Copolymer Lamellae for Lithographic Density Multiplication*", ACS Appl. Mater. Interfaces **17**, 56542 (2025). (I.F.=8.200)◆

108. Varun Sridhar, Chien-Ting Wu, and Surojit Chattopadhyay*(薛特), "*Harnessing Photothermal Synergy of $Cs_4CuSb_2Cl_{12}/MoS_2$ Composite for Photothermoelectric Energy Harvesting and Small Power Application*", ACS Appl. Mater. Interfaces **17**, 39584 (2025). (I.F.=8.200)◆

109. Chia-Lin Tsai, Han-Cheng Lu, Chi-Chun Tseng, Yung-Jing Xue, Kai-En Hung, Chia-Shing Wu, Chia-Chih Chang, Chain-Shu Hsu, Katarina Gugujonovic, Markus Clark Scharber, Fong-Yi Cao*(曹峯溢), and Yen-Ju Cheng*(鄭彥如), "*Perfluorophenyl-incorporated Ferrocene: A Non-volatile Solid Additive for Boosting Efficiency and Stability in Organic Solar Cells*", ACS Appl. Mater. Interfaces **17**, 32722 (2025). (I.F.=8.200)◆

110. Yi-Ting Tsai, Chi-Wei Wu, Ren-Jei Chung, Gabriel Nicolo A. De Guzman, Guan-Jie Li, Julius L. Leaño, Jr., and Mu-Huai Fang*(方牧懷), "*Optical Labeling with Artificial Intelligence Using Infrared-responsive Functional Textiles*", ACS Appl. Mater. Interfaces **17**, 58532 (2025). (I.F.=8.200)◆

111. Arulmozhi Velusamy, Chun-Hsiao Kuan, Tsung-Chun Lin, Yun-Sheng Shih, Cheng-Liang Liu, De-You Zeng, Yu-Gi Li, Yu-Hao Wang, Xianyuan Jiang, Ming-Chou Chen*(陳銘洲), and Eric Wei-Guang Diau*(刁維光), "*Bithiophene Imide-based Self-assembled Monolayers (SAMs) on NiOx for High-performance Tin Perovskite Solar Cells Fabricated Using a Two-step Approach*", ACS Appl. Mater. Interfaces **17**, 952 (2025). (I.F.=8.200)◆

112. Shih-Lin Yeh, Cheng-Yen Chang, and Rong-Ming Ho*(何榮銘), "*Reticulation of Block Copolymer Nanostructures from Perforation*", ACS Appl. Mater. Interfaces **17**, 12676 (2025). (I.F.=8.200)◆

113. Andi Magattang Gafur Muchlis, Cheng-Lin Jiang, Zhe-Yu Lin, Hoang-Duy Nguyen, Won Bin Im*, Chun Che Lin*(林群哲), "*Simultaneous Encapsulation and Structural Behavior of High-utility $CsPbX_3$ Quantum Dots in 3D Dendritic Mesoporous Silica Nanospheres*", Mater. Today Adv. **26**, 100593 (2025). (I.F.=8.000)◆

114. Keisuke Shirasaki, Yingji Zhao*(趙英吉), Norman C.-R. Chen, Xiangyang Liu, Yusuke Asakura, Kevin C.-W. Wu, and Yusuke Yamauchi*, "*Gradient Mesoporosity in Gierarchical ZIF-8 by Temperature-modulated Soft-templating*", Chem. Sci. **16**, 22742 (2025). (I.F.=7.400)◆

115. Yan-Bo Wang, Yung-Jing Xue, Chieh-Ming Hung, Kuo-Hsiu Huang, Bing-Huang Jiang, Chia-Lin Tsai, Yu-Chi Huang, Hong-Yi Chen, Shang-Da Yang, Su-Ying Chien, Chih-Ping Chen, Pi-Tai Chou*(周必泰), and Yen-Ju Cheng*(鄭彥如), "*Effect of Halogen/Chalcogen Substitution on the Dielectric Constant of Asymmetric Acceptor Alloy to Improve the Efficiency and Stability of Inverted Organic Photovoltaics*", Chem. Sci. **16**, 17391 (2025). (I.F.=7.400)◆

116. Yan-Bo Wang, Chia-Lin Tsai, Yung-Jing Xue, Bing-Huang Jiang, Han-Cheng Lu, Jun-Cheng Hong, Yu-Chi Huang, Kuo-Hsiu Huang, Su-Ying Chien, Chih-Ping Chen, and Yen-Ju Cheng*(鄭彥如), "*Fluorinated and Methylated Ortho-benzodipyrrole-based Acceptors Suppressing Charge Recombination and Minimizing Energy Loss in Organic Photovoltaics*", Chem. Sci. **16**, 3259 (2025). (I.F.=7.400)◆

117. Kuan-Chun Chen, Ming-Hsuan Huang, Wen-Tse Huang, Mikołaj Kaminski, Ding-Hua Cherng, Kuang-Mao Lu, Grzegorz Leniec*, Sebastian Mahlik*, and Ru-Shi Liu*(劉如熹), "*Tuning Shortwave Infrared Emission Wavelengths by Chemical Pressure in Cr^{3+},Ni^{2+} Co-doped Spinel Phosphors*", Adv. Opt. Mater. **13**, 2500393 (2025). (I.F.=7.200)◆

118. Bing-Huang Jiang, Yi-Yang Hsu, Yu-Wei Su, Sheng-Fong Peng, Zhong-En Shi, and Chih-Ping Chen*(陳志平), "*The Role of Energy Loss in Achieving Ultralow Dark Current Density in Organic Photodetectors*", Adv. Opt. Mater. **13**, 2500258 (2025). (I.F.=7.200)◆

119. Pin-Yi Song, Chia-En Tsai, Yung-Chih Chen, Yu-Wen Huang, Po-Pang Chen, Tzu-Haw Wang, Chao-Yuan Hu, Po-Yin Chen, Chuan Ku, Kuo-Chiang Hsia, See-Yeun Ting*(陳詩允), "*An Interbacterial Cysteine Protease Toxin Inhibits Cell Growth by Targeting Type II DNA Topoisomerases GyrB and ParE*", PLoS Biol. **23**, e3003208 (2025). (I.F.=7.200)◆

120. Chia-Fang Lu, Yu-Chi Huang, Li-You Lin, Yung-Jing Xue, Kuo-Hsiu Huang, Chia-Lin Tsai, Chia-Shing Wu, Su-Ying Chien, Kun-Han Lin*(林昆翰), and Yen-Ju Cheng*(鄭彥如), "*Side-chain-modulated Charge Transport Polarity in Curved Ortho-benzodipyrrole-based Acceptors for High-performance Organic Photovoltaics and Transistors*", Chem. Mater. **37**, 8901 (2025). (I.F.=7.000)◆

121. Yibing Yang, Xiao Yang, Shuwen Zhao, Zhipeng Liu*(劉志鵬), Yi Xiao*(趙毅), Lili Han*(韓麗麗), "*Incorporating SnS_x Species for Electroreduction of CO_2 Towards Formate*", Appl. Surf. Sci. **689**, 162486 (2025). (I.F.=6.900)◆

122. Chih-Chun Chang, Hsin-Ju Li, Roshan Satange, Shan-Meng Lin, Tai-Lin Chen, Chi-Chien Lin, Stephen Neidle, and Ming-Hon Hou*(侯明宏), "*Structural and Functional Insights into Targeting GCCG Sites in the EGFR Promoter by Two DNA Intercalators to Inhibit Breast Cancer Metastasis*", J. Med. Chem. **68**, 6601 (2025). (I.F.=6.800)◆

123. Yi-Hui Peng, Mu-Chun Li, Wan-Ching Yen, Teng-Kuang Yeh, Ching-Cheng Hsueh, Fu-Ming Kuo, You-Liang Lai, Ling Chang, Lung-Chun Lee, Pei-Yi Chen, Kuei-Jung Yen, Teng-Yuan Chang, Hsu-Yi Sun, Chun-Yu Chang, Su-Huei Hsieh, Chen-Ming Yang, Hsing-Pang Hsieh*(謝興邦), and Su-Ying Wu*(伍素瑩), "*Structure-based Design of Potent and Selective MerTK Inhibitors by Modulating the Conformation of αC Helix*", J. Med. Chem. **68**, 10877 (2025). (I.F.=6.800)◆

124. Digvijay Singh Tomar, Varun Sridhar, Ruei San Chen, Chien-Ting Wu, and Surojit Chattopadhyay*(薛特), "*Record Photoresponsivity in Hydrogenated Borophene Broadband Photodetector*", ACS Photonics **12**, 6091 (2025). (I.F.=6.700)◆

125. Mingyue Zou, Yuanyuan Chen, Keke Wang, Yang Liu, Xiaoqing Qiu, Min Liu, Wenzhang Li*(李文章), "*Amine-functionalized SnO_x/C-decorated Silicon Nanowires for Boosted Photoelectrocatalytic CO_2 Reduction to Formic Acid*", Mater. Today Chem. **50**, 103153 (2025). (I.F.=6.700)◆

126. S. Shilpa, Fanshu Yuan, Zhengyuan Li, Preeti Dahiya, Astrid Campos Mata, Ram Manohar Yadav, Guanhui Gao, Sung-Fu Hung, Salman A. Khan, Jingjie Wu, Muhammad M. Rahman, and Soumyabrata Roy*, "*Polymer Derived and Ni-single Atom Doped Carbon Nanofibers for CO_2 Capture and Electroreduction to CO*", ChemSusChem **18**, e202500602 (2025). (I.F.=6.600)◆

127. Meng Zhang, Xinyue Zhang, Huaidong Li, Huihua Min, Hsiang-Jung Chen, Han-Yi Chen, Hao Yang*(楊浩), and Jin Wang*(王瑾), "*Asymmetrical Coordination of Cobalt Single-atom Catalyzed Interfacial Chemistry in Hard Carbon Anodes for Fast and Reversible Potassium Storage*", ChemSusChem **18**, e202500979 (2025). (I.F.=6.600)◆

128. Yong-Yun Zhang, Meng-Yu Lin, Yi-Ting Tsai, Man-kit Leung*(梁文傑), and Mu-Huai Fang*(方牧懷), "*Sustainable Quantum Dot-vitrimer Composites: A Synergy of Quantum Dots and Dynamic Covalent Bonds*", ChemSusChem **18**, e202500464 (2025). (I.F.=6.600)◆

129. Ahmed Gamal AboElsood, Yuan Xiang, I-Ming Lin, Ci-Ren Chen, Yeo-Wan Chiang*(蔣酉旺), "*Coincident Augmentation and Alignment of Lamellar Stacking Structures for Rapid Fabrication of Solid-state Polymer Photonic Crystal Films*", J. Taiwan Inst. Chem. Eng. **172**, 106107 (2025). (I.F.=6.300)◆

130. Ying-Ru Lin, Fu-Hsiang Ko*,(柯富祥) Yu-Cheng Chang, "*Cu-doped $In(OH)_3/In_2S_3/In_2O_3$ Nanostructures for Efficient Photocatalytic Hydrogen Evolution from Natural Seawater Under Visible Light*", Surf. Interfaces **72**, 107130 (2025). (I.F.=6.300)◆

131. Yu-Hao Lin, Ke-Yun Tong, Shan-Ping Chuang, Murat Yılmaz, Chang-Yue Chiang, Ming-Jay Deng*(鄧名傑), "*3.3V Customizable, Recyclable, and Remanufacturable Flexible Symmetric Supercapacitors*", J. Alloy. Compd. **1016**, 179025 (2025). (I.F.=6.300)◆

132. Chun-Ting Chang, Chia-Wei Chang, Jian-Hua Ciou, Kai-Chuan Kuo, Ji Lin, Chia-Ti Wu, Mei-Li Li, Yu-Hsuan Tseng, Yu-Liang Lin, Che-Tseng Lin, and Jiun-Tai Chen*(陳俊太), "*Transforming Plastic Waste into Strain Sensors: Multifunctional Upcycled TPEE Elastomers with MXene Multilayer Assemblies*", Adv. Mater. Technol. **10**, e00652 (2025). (I.F.=6.200)◆

133. Chih-Chia Chiang, Yen-Ju Lu, Jia-Wei Liu, Sheng-Wei Lin, Chun-Chi Chou, Chia-Hsin Lin, I-Weh Chien, and Chun-Hua Hsu*(徐駿森), "*Structural Insights into 4,5-DOPA Extradiol Dioxygenase from Beta Vulgaris: Unraveling the Key Step in Versatile Betalain Biosynthesis*", J. Agr. Food Chem. **73**, 6785 (2025). (I.F.=6.200)◆

134. Wen-Hui Li, Liang-Ching Hsu, Han-Yu Chen, Yi-Chun Chen, Heng Yi Teah, Yu-Yu Kung, Yu-Min Tzou, and Yu-Ting Liu*(劉雨庭), "*Hybridizing Mg-Fe Layered Double Hydroxide with Pectin Natural Polymer for Organic Ligand-responsive Phosphate Release: An Innovative Controlled-release Phosphorus Fertilizer*", J. Agr. Food Chem. **73**, 7131 (2025). (I.F.=6.200)◆

135. Chun-Jung Lin, Chao-Cheng Cho, Sheng-Chia Chen, Gloria Meng-Hsuan Lin, Cheng-Yang Huang, and Chun-Hua Hsu*(徐駿森), "*Unveiling the Structural and Biochemical Characteristics of an Acidophilic β-mannanase from Soybean (Glycine Max)*", J. Agr. Food Chem. **73**, 25479 (2025). (I.F.=6.200)◆

136. Zhi-Hao Huang, You-Ren Chen, Hou-Chin Cha, Sheng-Long Jeng, Kun-Mu Lee*(李坤穆), Yu-Ching Huang*(黃裕清), "*Mechanistic Insights into Additive-driven Dark Current and Responsivity in Organic Photodetector with Varied Film Thickness*", Surf. Coat. Tech. **516**, 132701 (2025). (I.F.=6.100)◆

137. Han-Wei Chang*(張漢威), Min-Jun Wu, Yi-Chih Su, Chia-Hsiang Lee, Yu-Chen Tsai*(蔡毓楨), "*Graphite Pencil Derived Darbon Through Activation-carbonization Synthesis Strategies for Solid-state Symmetric Supercapacitor*", Mater. Res. Bull. **184**, 113245 (2025). (I.F.=5.700)◆

138. Hong-Yu Chou, Chia-Ying Li, Yu-Chun Huang, Chia-Hsueh Chung, Yan-Cheng Lin*(林彥丞), "*Revealing the Potential Functionality of Deep Eutectic Solvents as A Doping Electrolyte in Organic Electrochemical Transistors*", Electrochim. Acta **521**, 145912 (2025). (I.F.=5.600)◆

139. Cheng-Dun Li, Ting-An Lin, Burn-Jeng Lin*(林本堅), Po-Hsiung Chen, Sun-Zen Chen, Po-Wen Chiu, and Rai-Shung Liu*(劉瑞雄), "*Enhanced Edge Etching Resistance and EUV Lithographic Performance of a Tin-oxide Photoresist via a Blend Strategy*", ACS Appl. Nano Mater. **8**, 18401 (2025). (I.F.=5.500)◆

140. Dun-Heng Tan, Chun-Yu Chang*(張峻瑜), Yu-Ching Huang*(黃裕清), Meng-Fang Lin, Wei-Fang Su*(林唯芳), "*Biomimicking Extracellular Matrix Fabricated from Alginate-polypeptide Hydrogel with Aligned Fibrous Structure*", Colloid. Surface. A **727**, 138120 (2025). (I.F.=5.400)◆

141. Tzu-Lun Liu and Yu-Ying Lai*(賴育英), "*Investigating the Effect of Incorporating Dimethylaminopropyl Side Chains into a Naphthalenediimide-based Conjugated Polymer*", Adv. Electron. Mater. **11**, 2400610 (2025). (I.F.=5.300)◆

142. Tzu-Yu Hsieh, Bradley W. Mansel*, Hsin-Lung Chen, and Yi-Fan Chen*(陳儀帆), "*Drastic Elevation in the Glass Transition Temperature of Poly(2-vinylpyridine) by the Entanglement-promoting Palladium Nanoparticles*", Macromolecules **58**, 2336 (2025). (I.F.=5.200)◆

143. Bing-Huang Jiang, Pei-Jui Weng, Yu-Wei Su, Zhong-En Shi, Yan-Ru Lin, Tien-Shou Shieh, and Chih-Ping Chen*(陳志平), "*Minimizing Thermally Activated Carrier Generation for Ultra-low Dark Current Density and Enhanced Thermal Stability in Air-stable All-polymer Photodetectors*", Macromolecules **58**, 3983 (2025). (I.F.=5.200)◆

144. Taiki Nishimura, Chaehun Lee, Ryosuke Nunokawa, Yu-Hung Cheng, Feng Li, Takuya Yamamoto, Kenji Tajima, Redouane Borsali, Hsin-Lung Chen*(陳信龍), Toshifumi Satoh*, and Takuya Isono*, "*Molecular Design of a Discrete Oligosaccharide-block-Oligodimethylsiloxane System: Toward Microphase Separation with 1 nm Domain Size and Angstrom-scale Size Control*", Macromolecules **58**, 266 (2025). (I.F.=5.200)◆

145. Shang-Wen Su, Hiroya Shimizu, Megumi Matsuda, Pin-Hong Chen, Yi-Hsuan Tung, Yu-Chun Huang, Chia-Ying Li, Tomoya Higashihara*, and Yan-Cheng Lin*(林彥丞), "*Mobility and Stability Enhancements of Conjugated Polymers with Diastereomeric Conjugation Break Spacers in Organic Electrochemical Transistors*", Macromolecules **58**, 5807 (2025). (I.F.=5.200)◆

146. Han-Wei Chang*(張漢威), Min-Jun Wu, Chia-Hsiang Lee, Yu-Chen Tsai*(蔡毓楨), "*Constructing Glucose-derived Hierarchically Structured Carbon Embedded in Flake Graphite for High-performance Supercapacitors*", Diam. Relat. Mater. **152**, 111902 (2025). (I.F.=5.100)◆

147. Yu-Wei Su, Chung-Hao Chen, Bing-Huang Jiang, Han-Yi Huang, Tzu-Ching Lu, Bin Chang, Chih-Ping Chen*(陳志平), and Kung-Hwa Wei*(韋光華), "*Enhancing Performances of Organic Photovoltaics by Incorporating Small Molecule Stereoisomers as the Third Component*", J. Mater. Chem. C **13**, 17367 (2025). (I.F.=5.100)◆

148. Digvijay Singh Tomar, Ruei San Chen, and Surojit Chattopadhyay*(薛特), "*Photogating-enhanced Photodetection in Substrate-assisted Borophene-graphene Hybrids*", Nanoscale **17**, 19363 (2025). (I.F.=5.100)◆

149. Jiale Zheng, Jiahao Zhou, Kristen Wing Yu Yung, Qipeng Hu, Marianne M. Lee*, and Michael K. Chan*(陳文博), "*An Engineered Yeast Cytosine Deaminase with Improved Catalytic Activity and Stability for Macrophage-mediated Enzyme/Prodrug Therapy*", Commun. Biol. **8**, 1562 (2025). (I.F.=5.100)◆

150. Yi-Ting Lai, Chun-Yu Peng, Hsiao-Tzu Liao, Po-Yun Hsiao, Chang-Ko Hsieh, Yu-Ru Luo, Sheng-Cih Huang, Yung-Lin Wang, Thomas Ma, Ya-Rong Chen, You-Min Kuo, Yen-Cheng Lin, John Chu, and Chin-Yuan Chang*(張晉源), "*Biosynthesis of Antituberculosis Antibiotic Capreomycin Involves a Trans-iterative Adenylation Domain within the Nonribosomal Peptide Synthetase Machinery*", Org. Lett. **27**, 9553 (2025). (I.F.=5.000)◆

151. I-Ting Ko, Yi-Ting Yuan, Cheng-Ju Hsieh, Hui-Ting Hsu, and Hsien-Sheng Yin*(殷獻生), "*Structural Insights into Substrate Binding, Residue Contributions, and Catalytic Mechanism of Phosphopantetheine Adenylyltransferase from Helicobacter Pylori*", Biosci. Rep. **45**, 19 (2025). (I.F.=4.700)◆

152. Kuan-Yi Lee, Hsiu-Kai Yang, Tadeusz Lesń iewski, Mikołaj Kamiński, Natalia Majewska, Jakub Gnyp, Wei-Lun Su, Yi-Ting Tsai, Sebastian Mahlik*, and Mu-Huai Fang*(方牧懷), "*Understanding the Limitations of Chloride Double Perovskites as Hosts for Stable Cr^{3+} Luminescence*", Inorg. Chem. **64**, 15184 (2025). (I.F.=4.700)◆

153. Wun-Yan Wu, Yu-Shen Lin, Linda Iffland, Ulf-Peter Apfel, Tsai-Te Lu, and Wen-Feng Liaw*(廖文峰), "*Receptor-mediated and Hydrolytic Denitrosylation of Dinitrosyl Iron Complexes to Yield Amorphous Fe_xO_y and Its Photoinduced Transformation into Crystalline Fe@Fe_xO_y Nanoparticles*", Inorg. Chem. **64**, 12708 (2025). (I.F.=4.700)◆

154. Aditi Kumar, Bo-Han Chen*(陳柏翰), Chao-Yang Lin, Nikita A. Shumilov, Nathaniel J. L. K. Davis, Yu-Chiang Chao, Li-Kang Chu, Chia-Feng Li, Yu-Ching Huang, Shang-Da Yang, Michael B. Price, Paul A. Hume*, Justin M. Hodgkiss*, and Kai Chen*(陳凱), "*Ultrafast Transient Electroabsorption Illuminates Additive Effects for Enhancing Non-fullerene Photovoltaic Devices*", J. Phys. Chem. Lett. **16**, 10703 (2025). (I.F.=4.600)◆

155. Cheng-Dun Li, Chun-Fu Chou, Yu-Fang Tseng, Burn-Jeng Lin*(林本堅), Tsai-Sheng Gau, Po-Hsiung Chen, Po-Wen Chiu, Sun-Zen Chen, Shin-Lin Tsai, Wen-Bin Jian, and Jui-Hsiung Liu*(劉瑞雄), "*A highly Hydroxylated 6-tin Oxide Cluster Serves as an Efficient e-beam and EUV-photoresist to Achieve High-resolution Patterns*", Nanoscale Adv. **7**, 1838 (2025). (I.F.=4.600)◆

156. Dong-Ze Wu, Wen-Chia Hsu, Chia-Huan Chung, Hsin-Yu Hsieh, Wei-Ming Chen, Feng-Yu Wu, Yu-Hsuan Su, Hwai-En Lin, Maw-Kuen Wu, Phillip M. Wu*(吳孟真), Yu-Cheng Chiu*(邱昱誠), and Po-Wei Chi*(紀柏葦), "*Mitigating Interfacial Reactions in $Li_{4Ti5O12}$ Anodes Through Carbon Shells Synthesized by Spray Granulation*", RSC Adv. **15**, 11881 (2025). (I.F.=4.600)◆

157. Pasunee Laohawutthichai, Sun-Yong Kim, Min Fey Chek, Thapanan Jatuyosporn, Anchalee Tassanakajon, Kuakarun Krusong*, and Toshio Hakoshima*, "*Structure of the C-terminal of Viral Responsive Protein 15 (VRP15): A Key Protein During White Spot Syndrome Virus (WSSV) Infection*", J. Mol. Biol. **437**, 169329 (2025). (I.F.=4.500)◆

158. Heng-Chen Lin, Ying-Chih Liao, Shih-Huang Tung*(童世煌), "*Improving Mechanical Properties of Biodegradable Polybutylene Succinate/Cellulose Nanocrystal Composites Using Epoxidized Soybean Oil*", Polymer **333**, 128698 (2025). (I.F.=4.500)◆

159. Ming-Chung Wu*(吳明忠), Yin-Hsuan Chang, Ting-Han Lin, Chun-Yuan Wu, Jia-Mao Chang, and Yu-Jen Lu*(盧郁仁), "*Enhanced Photothermal Therapy for Tumor Ablation: Structural and Functional Insights into Bi_2Se_3 Nanosheets as Light-to-heat Cconverter*", Discover Nano **20**, 106 (2025). (I.F.=4.500)◆

160. Yu-Seng Ku, Chih-Chieh Chiang, Shuan-Cheng Mai, Jing-Yo Chen, Chao-Wei Chen, Yi-Ying Chin, Yann-Wen Lan, Danru Qu, C. L. Chien, and Ssu-Yen Huang*(黃斯衍), "*Efficient Charge-to-spin Conversion in the Topological Superconductor β-Bi_2Pd at Room Temperature*", Phys. Rev. Appl. **24**, 034050 (2025). (I.F.=4.400)◆

161. Yu-Rong Hu, Hsin-Yu Lin, and Chieh-Tsung Lo*(羅介聰), "*Thermal Treatment Induced Crystal Development and Crystal Orientation Change in Electrospun Coaxial Fibers Comprising Dual Crystalline Polymers*", Macromol. Rapid Comm. **46**, 2400731 (2025). (I.F.=4.300)◆

162. Phiraya Pitchayatanakorn, Parichat Putthasang, Sinchai Chomngam, Nathjanan Jongkon, Kiattawee Choowongkomon, Palangpon Kongsaeree, Shinya Fushinobu, and Prachumporn T. Kongsaeree*, "*Structure-based Engineering to Improve Thermostability of Acetivibrio thermocellus AtBgl1A β-glucosidase*", ACS Omega **10**, 27153 (2025). (I.F.=4.300)◆

163. Chu-Hsin Tseng, Wen-Lin Hsieh, Wesley Tien Chiang, Nien-Jen Hu, and Chia-Liang Lin*(林佳良), "*Structural Insights into the Interaction of Hir2 and Hpc2 in the Yeast Hir Histone Chaperone Complex*", Structure **33**, 1 (2025). (I.F.=4.300)◆

164. Ji Lin, Chia-Wei Chang, Chun-Ting Chang, Kesavan Manibalan, Tsung-Hung Tsai, Yu-Chun Lin, Yen-Shen Hsu, Ming-Hsuan Chang, and Jiun-Tai Chen*(陳俊太), "*Wearable and Stretchable Electronics Enabled by MXene-PVA Films via Layer-by-layer Assembly with Integrated UV, Thermal, and Mechanical Sensing*", Chem. Commun. **61**, 10578 (2025). (I.F.=4.200)◆

165. Yung-Chuan Chuang, Jing-Wen Su, Yu-Chuan Sung, Jing-Cherng Tsai*(蔡敬誠), Jian-Wei Huang, Sheng-Wei Shao, and Rong-Ming Ho*(何榮銘), "*Synthesis and Self-assembly of a Diblock Copolymer Consisting of a Cyclic Olefin Copolymer and Polycaprolactone*", Polym. Chem. **16**, 2162 (2025). (I.F.=3.900)◆

166. Chang-Yen Huang, Ruei-Chi Wang, Tzy-Shyuan Hsu, Tzu-Ning Hung, Ming-Yan Shen, Chung-Heng Chang, and Hsuan-Chen Wu*(吳亘承), "*Developing an E. coli-based Cell-free Protein Synthesis System for Artificial Spidroin Production and Characterization*", ACS Synth. Biol. **14**, 1829 (2025). (I.F.=3.900)◆

167. Sheng-Wei Lin, Tzu-Ping Ko, Hung-Yu Chiang, Cheng-Guo Wu, Min-Feng Hsu, Andrew H.-J. Wang*(王惠鈞), and Chun-Hung Lin*(林俊宏), "*Structural Insight into the Catalytic Mechanism of the Bifunctional Enzyme L-fucokinase/GDP-fucose Pyrophosphorylase*", J. Biol. Chem. **301**, 108344 (2025). (I.F.=3.900)◆

168. Sirikan Pongnan, Robert C. Robinson, Outi Lampela, André Juffer, Tamo Fukamizo*, and Wipa Suginta*, "*Structure and Loop Dynamics of a Chitooligosaccharide Deacetylase from the Marine Bacterium Vibrio Campbellii (Harveyi)*", J. Biol. Chem. **301**, 110608 (2025). (I.F.=3.900)◆

169. Hung-Yu Wu, Hou-Chun Liu*(劉厚均), Li-Cheng Kao, Kuo-En Ching, Chien-Chih Chen, Chen-Feng You, Te-Cheng Yi, Yan-Hong Chen, Bo-Lin Wu, and Chun-Jung Chen, "*Potential Geological Risks from Mud Diatremes in the Orogen Regime of Southwestern Taiwan*", Sci. Rep. **15**, 7666 (2025). (I.F.=3.900)◆

170. Sakunrat Ubonprasert, Wachiraporn Wachiradusit, Wichai Pornthanakasem, Warangkhana Songsungthong, Aritsara Jaruwat, Sasina Premjaichon, Tanaporn Uengwetwanit, Rinrada Suntivich, Konrawee Thananon, Kanyarat Suksomjaisaman, Jeerus Sucharitakul, Chutathip Puyprom, Tamonwan Lotangchanintra, Kanokwan Salamteh, Kittikhun Wangkanont, Channarong Rodkhum, Wonnop Visessanguan, Pimchai Chaiyen, Penchit Chitnumsub*, Ubolsree Leartsakulpanich*, "*PlyCYU endolysin targeting Streptococcus agalactiae exhibits a CHAP activity and a glucosaminidase domain mediating multimerization*", Appl. Environ. Microbiol. **91**, 01872-24 (2025). (I.F.=3.700)◆

171. Chi-Wen Hsieh, Zih-Shiuan Chiou, Chuan-Pin Lee*(李傳斌), Shih-Chin Tsai, Wei-Hsiang Tseng, Yu-Hung Wang, Hui-Min Chiu, Qi-Rui Sun, and Chun-Liang Yeh, "*Integration of Fourier and Wavelet Transform for Adsorption Mechanism of Cesium Study Based on X-ray Diffraction and Absorption Spectroscopy*", IEEE Access **13**, 55487 (2025). (I.F.=3.600)◆

172. Ching-Yuan Chang, En-Jung Hsieh, Shan-Li Wang, Louis Grillet*, "*L-DOPA Promotes Cadmium Tolerance and Modulates Iron Deficiency Genes in Arabidopsis Thaliana*", Physiol. Plant. **177**, e70024 (2025). (I.F.=3.600)◆

173. Tomoki Imura, Yuhei Hosokawa, Kai-Chun Yang, Yuki Ban, Hsuan-Yu Shih, Junpei Yamamotoa*, and Manuel Maestre-Reyna*, "*Revisiting the Co-crystal Structure of a DNA Glycosylase with Photocaged Substrate: a Suitable Time-resolved Crystallography Target?*", IUCrJ **12**, 515 (2025). (I.F.=3.600)◆

174. Yi-Hsin Tsai and Chieh-Tsung Lo*(羅介聰), "*Confined Crystallization and Hydrolytic Degradation Behavior of Dual-crystalline Core-sheath Fibers Comprising Immiscible Polymers*", J. Polym. Sci. **63**, 2187 (2025). (I.F.=3.600)◆

175. Zih-Jhong Huang, Daniel Manaye Kabtamu, Aknachew Mebreku Demeku, Guan-Cheng Chen, Ning-Yih Hsu, Hung-Hsien Ku, Yao-Ming Wang, Tai-Chin Chiang, and Chen-Hao Wang*(王 丞 浩), "*Enhanced Electrochemical Performance of Vanadium Redox Flow Batteries Using $Li_4Ti_5O_{12}/TiO_2$ Nanocomposite-modified Graphite Felt Electrodes*", ChemElectroChem **12**, e202400477 (2025). (I.F.=3.500)◆

176. Y. K. Lin, Ajay Tiwari, C. W. Wang, J.-Y. Lin, M.-J. Hsieh, T. W. Yen, Y. C. Chuang, Y. C. Lai, Arkadeb Pal, H. D. Yang*(楊 弘 敦), and D. Chandrasekhar Kakarla*, "*Interplay of S=5/2 Spin-tetramer Cluster Magnetism and Magnetodielectric Effect in Polar $Ba_6Nd_2Fe_4O_{15}$*", Phys. Rev. Mater. **9**, 114407 (2025). (I.F.=3.400)◆

177. Yu-Chen Feng, Sashank Agrawal, Chin-Hao Yang, Hao-Chih Chang, Ling Kuo, Wen-Chung Yu, Yo-Tsen Liu*(劉祐岑), and Tsyr-Yan Yu*(余慈顏), "*The Structural and Dynamic Insights into the Ala97Ser Amyloidogenic Mutation in Transthyretin*", Chem.-Asian J. **20**, e202401438 (2025). (I.F.=3.300)◆

178. Sanjeev Gautam*, Monika Verma, Anup Thakur, Jin-Ming Chen(陳錦明), Keun Hwa Chae, "*Swift Heavy Ion Induced Electronic Structure Modifications in ZnO Thin Films: X-ray Absorption Spectroscopy Study*", J. Phys. D- Appl. Phys. **58**, 105308 (2025). (I.F.=3.200)◆

179. Yi-Chun Chen, Chun-Hao Huang, Yao-Tsung Chang, Chiu-Yueh Chen, Jia-Hau Shiu, Chun-Ho Cheng, Yu-Fang Su, Woei-Jer Chuang*(莊 偉 哲), "*Structural and Functional Differences of Rhodostomin and Echistatin in Integrin Recognition and Biological Implications*", Proteins **93**, 1627 (2025). (I.F.=2.800)◆

180. Kuan-Ju Liao*(廖冠儒) and Yuh-Ju Sun*(孫玉珠), "*Using AlphaFold and Symmetrical Docking to Predict Protein-protein Interactions for Exploring Potential Crystallization Conditions*", Proteins **93**, 1747 (2025). (I.F.=2.800)◆

181. Tse-Yu Lo, Mei-Li Li, Chia-Wei Chang, Tsung-Hung Tsai, Heng-Hsuan Su, Chun-Chi Chang, Yen-Shen Hsu, Huan-Wei Lin, and Jiun-Tai Chen*(陳俊太), "*Synergistic Effects of Azobenzene and Thiourea Backbones in Multiresponsive Copolymers for Sensing and Adhesive Technologies*", Soft Matter **21**, 2704 (2025). (I.F.=2.800)◆

182. Shilpa Thakur, K. Thanigai Arul, Sunil Singh Kushvaha, R. C. Meena, Chung-Li Dong, Senthil Kumar Muthusamy, Asokan Kandasami*, "*Synthesis and Characterization of Tungsten Diselenide Thin Films by the Two-step Method*", Appl. Phys. A-Mater. **131**, 198 (2025). (I.F.=2.800)◆

183. Cheng-Hao Yang, Yu Wei, Chia-Yun Tsao, and Chi-Chung Hua*(華繼中), "*Revisiting the Solution Properties of Sodium Alginate in Aqueous Media*", Soft Matter **21**, 7393 (2025). (I.F.=2.800)◆

184. Tzu-Ming Hung, Chung-Chieh Kang, Ta-Chung Lu, Chien-Chung Shih(石健忠), "*Tailoring Aggregation Behavior and Crystalline Structure of Stretchable Polymer Semiconductors via a Novel Lewis Acid Dopant*", Polym. J. **57**, 1227 (2025). (I.F.=2.700)◆

185. Tz-Ping Gau, Jen-Hung Wen, I-Wei Lu, Pei-Yu Huang(黃佩瑜), Yao-Chang Lee(李耀昌), Wei-Po Lee, Hsiang-Chun Lee*(李 香 君), "*Application of Attenuated Total Reflection-fourier Transform Infrared Spectroscopy in Semi-quantification of Blood Lipids and Characterization of the Metabolic Syndrome*", PLoS One **20**, e0316522 (2025). (I.F.=2.600)◆

186. Yen-Hua Huang, Tsai-Ying Huang, Man-Cheng Wang, Cheng-Yang Huang*(黃晟洋), "*Structural Basis of Potent Inhibition of the Human CAD Dihydroorotase Domain by 5-aminoorotic Acid*", Biochem. Biophy. Res. Co. **787**, 152804 (2025). (I.F.=2.200)◆

187. Ching-Li Huang, Yan-Bo Wang, Chi-Chun Tseng, Chia-Lin Tsai, Yung-Yung Chang, Yung-JingXue, Jin Lee, Hong-Yi Chen, Yen-Ju Cheng*(鄭彥如), "*Side-chain Engineering of Benzimidazole-incorporated A-DA′D-A Type Acceptors for Organic Solar Cells and Field-effect Transistors*", J. Chin. Chem. Soc. **72**, 1215 (2025). (I.F.=1.500)◆

主導性 之非 **SCIE** 論文

1. Yi-Cheng Lai, Chun-Yu Chen, Chun-Jen Su*(蘇群仁), Hsin-Lung Chen*(陳信龍), "*Mesomorphic Phases of the Electrostatic Complexes of Amphiphilic Surfactants with Low-generation Dendrimers*", Giant **25**, 100369 (2025). ★

合作性 之非 **SCIE** 論文

1. Semra İde*, Sevgi Bayarı*, Wei Tsung Chuang(莊偉綜), Yen-Chin Huang, U-Ser Jeng(鄭有舜), and Tuncay Türkeş, "*Micro and Nanoscale Structural Properties of the Spider Dragline Silks*", Int. J. Biochem. Res. Rev. **34**, 37 (2025). ☆

2. Siyu Liu, Shangheng Liu, Tingjie Mao, Qingping Yu, Wei-Hsiang Huang(黃偉翔), Chih-Wen Pao(包志文), Zhiwei Hu, Qingyu Kong, Jihao Zhang, Xiaoqing Huang*(黃小青), Yunhua Li*(李云華), "*Synergistic Amorphous IrO_x and Crystalline RuO_2 Nanodomains for Efficient Acidic Oxygen Evolution Reaction*", AICHE J. **71**, e70060 (2025). ☆

3. Mohamed Oudah*, Daisuke Takegami, Shinji Kitao, Jose L. Lado, Anna Meléndez-Sans, Denise S. Christovam, Masato Yoshimura(吉村政人), Ku-Ding Tsuei(崔古鼎), Graham McNally, Masahiko Isobe, Kathrin Küster, M. Seto, Bernhard Keimer, D. A. Bonn, Liu Hao Tjeng, George Sawatzky, and Hidenori Takagi, "*Charge-entropy-stabilized Selenide $Ag_xSn_{1-x}Se$*", Commun. Mater. **6**, 58 (2025). ☆

4. Tzu-Hung Wen, Wei-Lun Huang, Po-Yang Peng(彭柏洋), Ying-Rui Lu(盧英睿), Chi-Liang Chen(陳啟亮), Bryan R. Goldsmith, and Yu-Chuan Lin*(林裕川), "*Bayesian Optimization-guided Design of Silica-supported Nickel Catalysts from Nickel Phyllosilicates*", ACS Eng. Au **5**, 425 (2025). ☆

協助性 之非 SCIE 論文

1. Chieh-Yuan Chang, Chang-Liang Liu, Shi-Jie Wang, Fu-En Szu, Hong-Yu Lin, Kao-Shu Chuang, Man-kit Leung, and Yan-Cheng Lin*(林彥丞), "*Alicyclic Design of Sulfonated Polyimide Membranes with a Tricyclodecane Diamine for Improved Ion Crossover Blocking in Vanadium Redox Flow Batteries*", ACS Polym. Au **5**, 589 (2025). ◆

2. Chiung-Wen Chang, Yu-Chieh Ting, Fan-Yu Yen, Guan-Ru Li, Kun-Han Lin*(林昆翰), Shih-Yuan Lu*(呂世源), "*High Performance Anion Exchange Membrane Water Electrolysis Driven by Atomic Scale Synergy of Non-precious High Entropy Catalysts*", Energy Mater. **5**, 500117 (2025). ◆

3. Ming-Han Chen, Yu-Chun Huang, Fu-En Szu, Jung-Yao Chen, Man-kit Leung, and Yan-Cheng Lin*(林彥丞), "*N-type Semiconducting Polymers with an Improved Isotropic Mobility-stretchability Stability by Using Structural Isomers as Conjugation Break Spacers*", RSC Appl. Interfaces **2**, 1784 (2025). ◆

4. Lizhou Fan, Feng Li, Tianqi Liu, Jianan Erick Huang, Rui Kai Miao, Yu Yan, Shihui Feng, Cheuk-Wai Tai, Sung-Fu Hung(洪崧富), Hsin-Jung Tsai, Meng-Cheng Chen, Yang Bai, Dongha Kim, Sungjin Park, Panos Papangelakis, Chengqian Wu, Ali Shayesteh Zeraati, Roham Dorakhan, Licheng Sun*, David Sinton*, and Edward Sargent*, "*Atomic-level Cu Active Sites Enable Energy-efficient CO_2 Electroreduction to Multicarbon Products in Strong Acid*", Nat. Synth. **4**, 262 (2025). ◆

5. Adane Gebresilassie Hailemariam, Mohammad Qorbani*, Tadios Tesfaye Mamo, Raghunath Putikam, Chih-Yang Huang, KhasimSaheb Bayikadi, Heng-Liang Wu*(吳恆良), Ming-Chang Lin, Li-Chyong Chen*(林麗瓊), and Kuei-Hsien Chen*(陳貴賢), "*Improved Electrochemical Kinetics and Rate Performance of Lithium-ion Batteries by $Li_2FeS<>2-xF_x$ Cathode Materials*", Commun. Mater. **6**, 143 (2025). ◆

6. Yen-Han Shih, Guan-Lin Wu, Pin-Hsiang Chueh, Jing-Chun Chen, Chu-Yen Tsai, Ting-Yu Wang, Ming-Hsuan Yu, Yi-Pei Li, Wen-Chang Chen, and Chu-Chen Chueh*(闕居振), "*The Influence of Interlocking Effects in Conjugated Polymers Synthesized by Aldol Polycondensation on Field-effect Transistor Properties and Morphology*", JACS Au **5**, 1382 (2025). ◆

7. Ruiyi Sun, Xing Cao*(曹興), Junguo Ma, Hsiao-Chien Chen, Chen Chen, Qing Peng*(彭卿), and Yadong Li*(李亞棟), "*Regulation of Pd Single-atom Coordination for Enhanced Photocatalytic Oxidation of Toluene to Benzaldehyde*", Nat. Synth. **4**, 965 (2025). ◆

8. Chih-En Tsai, Yi-Ting Wang, and Ying-Huang Lai*(賴英煌), "*Surface-Engineered Ir/Au Aendritic Catalysts with Minimal Iridium Loading for Efficient Alkaline Oxygen Evolution*", Mater. Adv. **6**, 5677 (2025). ◆

9. Qiqi Wu, Sijia Ji, Jinling Chen, Xin-Quan Tan, Wee-Jun Ong, Ruian Du, Peng Wang, Haonan Wang, Yongcai Qiu, Keyou Yan, Yun Zhao, Wei-Wei Zhao*(趙偉偉), Kang-Shun Peng, Yi-Yu Chen, Sung-Fu Hung*(洪崧富), Linan Zhou, Xue Wang, Guanglei Qiu*(邱光磊), and Guangxu Chen*(陳光需), "*Realizing the Practical Application of CO_2 Electroreduction for Urban Wastewater Denitrification*", Nat. Water **3**, 1291 (2025). ◆

10. Qin Yang, Xiu Wang, Jiguang Zhang, Yu Mao, Shibo Xi, Yu-Chun Liu, Yung-Hsi Hsu, Longzhou Zhang, Surani Bin Dolmanan, Meng Wang, Bingqing Wang, Yipeng Zang, Mingsheng Zhang, Wan Ru Leow, Sung-Fu Hung, Ziyun Wang*(王子運), and Yanwei Lum*(林彥瑋) , "*Ethylene Electrosynthesis at Low Voltages Enabled by Dopant-induced Modulation of the Rate-determining Step*", Nat. Synth. **4**, 1396 (2025). ◆

11. Tiancai Ye, Tianci Liu, Hulong Yi, Jingjing Du, Yi Wang, Tangfu Xiao, Jinli Cui*(崔金立), "*In Situ Arsenic Immobilization by Natural Iron (Oxyhydr)Oxide Precipitates in As-contaminated Groundwater Irrigation Canals*", J. Environ. Sci. - China **153**, 143 (2025). ◆

12. Fan-Yu Yen, Shao-I Chang, Yu-Chieh Ting, Chiung-Wen Chang, Kai-An Lee, Shih-Yuan Lu*(呂世源), "*In-situ Selective Oxidation Created Cr_2O_3 Assisting CrMnFeCoNi for Ultrahigh Power Density Zinc-air Batteries*", Energy Mater. **5**, 500114 (2025). ◆

Beamline/End Station Instrumentation

主導性 之 SCIE 論文

1. Chung-Kuang Chou(周重光), Chien-Chang Tseng(曾建璋), Cheng-Hung Chiang(姜政宏), Yi-Hui Chen(陳懿慧), Yi-Chun Liu(劉怡君), Chen-Ying Huang(黃禎盈), Chun-Hsiung Chao(趙俊雄), and Chun-Hsiang Huang*(黃駿翔), "*The Current Status and Future Prospects of the Synchrotron Radiation Protein Crystallography Core Facility at NSRRC: a Focus on the TPS 05A, TPS 07A and TLS 15A1 Beamlines*", J. Synchrotron Radiat. **32**, 457 (2025). (I.F.=3.000)★

2. Ming-Ying Hsu*(徐名瑩), Hok-Sum Fung(馮學深), Shang-Wei Lin(林上為), Huang-Wen Fu(傅皇文), Gung-Chian Yin(殷廣鈐), and Yu-Shan Huang(黃玉山), "*The TPS Soft X-ray Bendable Mirror Clip Design and Slope Error Analysis*", Rev. Sci. Instrum. **96**, 081302 (2025). (I.F.=1.700)★

3. Shang-Wei Lin*(林上為), Chao-Chih Chiu(邱昭智), Ming-Ying Hsu(徐名瑩), Chia-Feng Chang(張家峯), Bo-Yi Chen(陳伯毅), and Gung-Chian Yin(殷廣鈐), "*Development of an In-vacuum Long Trace Profiler for In Situ Measurement of Optical Components*", Rev. Sci. Instrum. **96**, 091301 (2025). (I.F.=1.700)★

主導性 之非 SCIE 論文

1. Ya-Hsin Cheng, Hsiu-An Liu, Chao-Yu Chang, Kuan-Li Yu(于冠禮), Yen-Fa Liao(廖彥發), and Chia-Shuo Hsu*(許家碩), "*High-energy-resolution Spectroscopy at Taiwan Photon Source: Design of Beamline 47A for Photon-in/Photon-out Spectroscopy*", Synchrotron Rad. News **38**, 13 (2025). ★

2. Chen-Wan Hsu*(徐禎婉), Tzu-Ping Huang(黃自平), Yin-Yu Lee(李英裕), and Liang-Jen Huang(黃良仁), "*Efficient Carbon Cleaning of Soft X-ray Optical Elements at NSRRC*", J. Phys.-Conf. Ser. **3010**, 012080 (2025). ★

3. Cheng-Chih Liang*(梁成志), Jia-Lin Tu(涂嘉琳), Ming-Han Lee(李明翰), Hsin-Wei Chen(陳鑫偉), Liang-Chih Chiang(江良志), Chang-Sheng Lee(李長生), Chi Chan(詹騏), Chia-Feng Chang(張家峯), Chao-Yu Chang(張朝毓), Kuan-Li Yu(于冠禮), Din-Goa Liu(劉定國), Yu-Cheng Huang(黃裕呈), Po-Yang Peng(彭柏洋), Ying-Jui Lu(盧英睿), and Chi-Liang Chen(陳啟亮), "*Data Acquisition Software for the Tender X-ray Absorption Spectroscopy Beamline at the Taiwan Photon Source*", J. Phys.-Conf. Ser. **3010**, 012121 (2025). ★

主導性 之會議論文

1. C. F. Chang*(張家峯) and C. Y. Liu(劉金炎), "*Detector Protection System Used in the Taiwan Photon Source 13A Experimental Station*", International Particle Accelerator Conference (IPAC), 3043, Taipei, Taiwan (2025). ★

2. C. F. Chang*(張家峯) and C. Y. Liu(劉金炎), "*Intelligent Motor Driver Monitoring and Alarm System for Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 3046, Taipei, Taiwan (2025). ★

3. C. W. Hsu*(徐禎婉), H. S. Fung(馮學深), C. S. Lee, "*Development of Residual Gas Analyzer Measurement System Capable of Operating in the 10 Torr Vacuum Range*", International Particle Accelerator Conference (IPAC), 2507, Taipei, Taiwan (2025). ★

Accelerator Facility

主導性 之 SCIE 論文

1. Chin-Chun Chang*(張進春), Che-Kai Chan(詹哲鎧), Bo-Ying Chen(陳柏穎), Chun-Shien Huang(黃春憲), Chin-Kang Yang(楊謹綱), Fu-Yuan Lin(林富源), Chyi-Shyan Fann(范棋翔), Ke-Kang Lin(林克剛), Jing-Hao Kang(康景皓), "*Development of the Nonlinear In-vacuum Kicker at Taiwan Photon Source*", Vacuum **239**, 114356 (2025). (I.F.=3.900)★

2. Gao-Yu Hsiung*(熊高鈺), Chin Shueh(薛秦), Chia-Mu Cheng(鄭家沐), Che-Kai Chan(詹哲鎧), Reza Valizadeh, "*Measurements of PSD and Photoelectrons on NEG Coated Vacuum Chambers Exposed to Synchrotron Radiation at the Taiwan Light Source Beamline*", Vacuum **234**, 114112 (2025). (I.F.=3.900)★

3. Jui-Che Huang*(黃睿哲), Hideo Kitamura, Ping-Shun Chuang*(莊秉勳), Hsing-Chieh Li(李興傑), Chih-Sheng Yang(楊智勝), Chun-Yi Wu(吳俊億), Chih-Yu Liao(廖志裕), Huang-Hsiu Tsai(蔡黃修), Chih-Wei Chen(陳智偉),

Wun-Rong Liao(廖文榮), and Chin-Kang Yang(楊謹綱), "*Cryogenic Permanent Magnet Undulator by Evaporative Cooling of Liquid Nitrogen*", Phys. Rev. Accel. Beams **28**, 093501 (2025). (I.F.=1.800)★

4. M. C. Lin*(林明泉), C. T. Huang, F. Y. Chang(張富毓), C. H. Lo(羅志宏), Z. K. Liu(劉宗凱), Ch. Wang(王兆恩), M. S. Yeh(葉孟書), M. H. Chang(張美霞), F. T. Chung(鍾福財), L. J. Chen(陳令振), Y. T. Li(李易達), and S. W. Chang(張鮮文), "*Determination of Trapped Modes on a Two-cell 1.5-GHz Superconducting Radio-frequency Cavity*", IEEE T. Appl. Supercon. **35**, 3500905 (2025). (I.F.=1.800)★

5. Zong-Kai Liu*(劉宗凱), Ming-Chyuan Lin(林明泉), Chih-Hung Lo(羅志宏), Chaoen Wang(王兆恩), Meng-Shu Yeh(葉孟書), Fu-Yu Chang(張富毓), Mei-Hsia Chang(張美霞), Fu-Tsai Chung(鍾福財), Ling-Jhen Chen(陳令振), Shian-Wen Chang(張鮮文), and Yi-Ta Li(李易達), "*Study on the Instability of TPS with Superconducting Harmonic Cavity Under High Beam Current Operation*", IEEE T. Appl. Supercon. **35**, 3500305 (2025). (I.F.=1.800)★

6. C. H. Lo(羅志宏), M. C. Lin*(林明泉), Y. C. Hsu, M. K. Yeh, F. Y. Chang(張富毓), Z. K. Liu(劉宗凱), M. H. Chang(張美霞), F. T. Chung(鍾福財), L. J. Chen(陳令振), Y. T. Li(李易達), S. W. Chang(張鮮文), C. H. Huang(黃朝暉), M. S. Yeh(葉孟書), and Ch. Wang(王兆恩), "*Elastoplastic Tuning on a Two-cell 1.5-GHz Superconducting Radio-frequency Cavity*", IEEE T. Appl. Supercon. **35**, 3500505 (2025). (I.F.=1.800)★

7. Feng-Zone Hsiao*(蕭豐礽), Ping-Shun Chuang(莊秉勳), Hsing-Chieh Li(李興傑), Huang-Hsiu Tsai(蔡黃修), Wun-Rong Liao(廖文榮), Sheng-Hsiung Chang(張盛雄), and Wen-Song Chiou(邱文崧), "*Enhancement of Moisture Removal to the Helium Cryogenic Plant for Taiwan Photon Source*", J. Instrum. **20**, P05030 (2025). (I.F.=1.300)★

8. F. H. Tseng(曾繁信), T. W. Hsu(許庭瑋), W. Y. Lin(林威佑), Jenny Chen(陳秀珍), and Y. C. Liu*(劉毅志), "*A Preliminary Results of the Local Orbit Feedback at Taiwan Photon Source*", J. Instrum. **20**, T05008 (2025). (I.F.=1.300)★

9. Baosheng Wang*(王寶勝), Kuobin Liu(劉國賓), and Yongseng Wong(黃永信), "*Enhancing the Current Stability of the TPS Booster Ring Dipole Magnet Power Supply in DC Mode*", J. Instrum. **20**, T07010 (2025). (I.F.=1.300)★

10. Baosheng Wang*(王寶勝), Kuobin Liu(劉國賓), PeiChen Chiu(邱斐珍), Chunyi Wu(吳俊億), and Yongseng Wong(黃永信), "*Enhanced Performance of Booster Ring Bending Magnet Power Supply for TPS Facility*", J. Instrum. **20**, T10008 (2025). (I.F.=1.300)★

合作性 之 **SCIE** 論文

1. Eleni Marshall*, Oleg B. Malyshev, Gao-Yu Hsiung(熊高鈺), "*Modelling Photon-stimulated Desorption from NEG Coated Sample Tubes*", Vacuum **241**, 114599 (2025). (I.F.=3.900)☆

主導性 之會議論文

1. C. S. Huang*(黃春憲), Y. C. Liu(劉毅志), Y. T. Cheng(鄭宇尊), H. S. Wang(王懷三), W. Y. Lai(賴惟揚), T. C. Tseng(曾澤川), and C. K. Kuan(管建銧), "*The Online Emittance at Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 2839, Taipei, Taiwan (2025). ★

2. C. H. Chang*(張正星), C. K. Yang(楊謹綱), J .C. Jan(詹智全), F. Y. Lin(林富源), T. Y. Chung(鍾廷翊), J. C. Huang(黃睿哲), "*Design and Construction of a Permanent Magnet Quadrupole at NSRRC*", International Particle Accelerator Conference (IPAC), 2606, Taipei, Taiwan (2025). ★

3. Chin-Chun Chang*(張進春), Bo-Ying Chen(陳柏穎), Che-Kai Chan(詹哲鎧), "*Evaluation of Coating Thickness and Thermal Deposited Power for Nonlinear In-vacuum Kicker*", International Particle Accelerator Conference (IPAC), 173, Taipei, Taiwan (2025). ★

4. J. C. Chang*(張瑞麒) and W. S. Chan(詹文碩), "*Numerical Simulation of a Modified Air Conditioning System of the Experimental Hall at TPS*", International Particle Accelerator Conference (IPAC), 2552, Taipei, Taiwan (2025). ★

5. J. C. Chang*(張瑞麒) and C. H. Kuo(郭長和), "*Network System Upgrade and Information Security Management System Implementation at NSRRC*", International Particle Accelerator Conference (IPAC), 2555, Taipei, Taiwan (2025). ★

6. S. W. Chang*(張鮮文), F. Y. Chang(張富毓), Y. T. Li(李易達), F. T Chung(鍾福財), C. H. Huang(黃朝暉), M. S. Yeh(葉孟書), L. J. Chen(陳令振), Z. K. Liu(劉宗凱), M. H. Chang(張美霞), C. H. Lo(羅志宏), M. C. Lin(林明泉), C. Wang(王兆恩), "*Development of a Water Cooling System for Solid-state Power Amplifiers at NSRRC*", International Particle Accelerator Conference (IPAC), 1106, Taipei, Taiwan (2025). ★

7. S. W. Chang(張鮮文), F. Y. Chang*(張朝毓), C.-H. Huang(黃朝暉), Z. K. Liu(劉宗凱), M. S. Yeh(葉孟書), C. H. Lo(羅志宏), F. T Chung(鍾福財), L. J. Chen(陳令振), M. H. Chang(張美霞), M. C. Lin(林明泉), Y. T. Li(李易達), C.

Wang(王兆恩), "*The Cavity Combiner Development for TPS SSPA Tower at NSRRC*", International Particle Accelerator Conference (IPAC), 1912, Taipei, Taiwan (2025). ★

8. C. L. Chen*(陳慶隆), K. L. Tsai(蔡光隆), C. S. Fann(范棋翔), "*Development of a Step Motor System for TPS Linac RF System*", International Particle Accelerator Conference (IPAC), 520, Taipei, Taiwan (2025). ★
9. C. W. Chen*(陳智偉), C. S. Yang(楊智勝), H. Chen(陳雄), F. Y. Lin(林富源), C. K. Yang(楊謹綱), and J. C. Huang(黃睿哲), "*Design and Development a Measurement System for Magnetic Tuning of Undulator Magnets*", International Particle Accelerator Conference (IPAC), 1861, Taipei, Taiwan (2025). ★
10. H. Chen*(陳雄), C. K. Yang(楊謹綱), J. C. Huang(黃睿哲), C. W. Chen(陳智偉), "*The Wire Alignment Method in a Magnetic Field Measurement System*", International Particle Accelerator Conference (IPAC), 2526, Taipei, Taiwan (2025). ★
11. C. M. Cheng*(鄭家沐), Y. T. Cheng(鄭宇尊), Y. M. Hsiao(蕭元銘), B. Y. Chen(陳柏穎), C. Shueh(薛秦), Y. C. Yang(楊易晨), C. K. Chan(詹哲鎧), "*The Issue with XBPM2 in the TPS Front End*", International Particle Accelerator Conference (IPAC), 2842, Taipei, Taiwan (2025). ★
12. Y. S. Cheng(鄭永森), K. T. Hsu(許國棟), S. H. Lee(李淑華), J. K. Liao(廖晉坤), C. Y. Liao(廖志裕), C. Y. Wu(吳俊裕), "*Applications of Waveform Digitizers at the TPS and TLS Control Systems*", International Particle Accelerator Conference (IPAC), 2829, Taipei, Taiwan (2025). ★
13. M. S. Chiu*(邱茂森), N. Y. Huang(黃暖雅), H. W. Luo(羅皓文), F. H. Tseng(曾繁信), P. J. Chou(周炳榮), "*EPU Coupling Correction by Bayesian Optimization in TPS*", International Particle Accelerator Conference (IPAC), 1311, Taipei, Taiwan (2025). ★
14. M. S. Chiu*(邱茂森), N. Y. Huang(黃暖雅), H. W. Luo(羅皓文), F. H. Tseng(曾繁信), P. J. Chou(周炳榮), "*Online Optimization of Beam Lifetime by Bayesian Optimization in TPS*", International Particle Accelerator Conference (IPAC), 2032, Taipei, Taiwan (2025). ★
15. M. S. Chiu*(邱茂森), H. P. Chang(張和平), H. J. Tsai(蔡弘人), P. J. Chou(周炳榮), Y. S. Wong(黃永信), J. C. Jan(詹哲鎧), Z. K. Liu(劉宗凱), C. Wang(王兆恩), "*Energy Ramping Simulation for TPS Booster Ring*", International Particle Accelerator Conference (IPAC), 2036, Taipei, Taiwan (2025). ★
16. P. C. Chiu*(邱斐珍), C. H. Huang(黃至賢), C. Y. Wu(吳俊億), K. T. Hsu(許國棟), K. H. Hu(胡國華), "*The Efforts on Beam Stability Improvement in TPS*", International Particle Accelerator Conference (IPAC), 2845, Taipei, Taiwan (2025). ★
17. Y. F. Chiu*(邱永豐), Y. C. Lin(林育智), M. T. Lee(李明聰), Y. H. Zhuang(莊宇航), W. S. Chan(詹文碩), "*Power Quality Measurement and Analysis for Grid-connected Rooftop Photovoltaic Systems at NSRRC*", International Particle Accelerator Conference (IPAC), 2558, Taipei, Taiwan (2025). ★
18. M.-C. Chou*(周明昌), A.-P. Lee(李安平), W.-Y. Chiang(姜惟元), C.-M. Tu, and W.-K. Lau(劉偉強), "*Feasibility Study of a THz Beamline Design for the THz User Facility at NSRRC*", International Particle Accelerator Conference (IPAC), 1243, Taipei, Taiwan (2025). ★
19. P. J. Chou*(周炳榮), C. C. Chang(張進春), C. K. Chan(詹哲鎧), K. T. Hsu(許國棟), K. H. Hu(胡國華), J. C. Huang(黃睿哲), C. Y. Liao(廖志裕), M. C. Lin(林明泉), Z. K. Liu(劉宗凱), I. C. Sheng(沈怡青), H. J. Tsai(蔡弘人), M. S. Yeh(葉孟書), "*The Operational Challenges: Achieving 500 mA High Beam Current at Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 1, Taipei, Taiwan (2025). ★
20. Fu-Tsai Chung*(鍾福財), Chao-Hui Huang(黃朝暉), Meng-Shu Yeh(葉孟書), Zong-Kai Liu(劉宗凱), Ling-Jhen Chen(陳令振振), Yi-Ta Li(李易達), Shian-Wen Chang(張鮮文), Mei-Hsia Chang,(張美霞) Chin-Hung Lo(羅志宏), Ming-Chyuan Lin(林明泉), Chaoen Wang(王兆恩), Fu-Yu Chang(張富毓), "*Development of a Break Out Box System for the 1.5 GHz SRF Harmonic Cavity at NSRRC*", International Particle Accelerator Conference (IPAC), 2591, Taipei, Taiwan (2025). ★
21. C. S. Fann*(范棋翔), C. C. Chang(張進春), C. K. Chan(詹哲鎧), C. L. Chen,(陳慶隆), K. L. Tsai(蔡光隆), M. S. Chiu(邱茂森), K. K. Lin(林克剛), "*An IGBT Pulser for the Nonlinear Injection Kicker at Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 72, Taipei, Taiwan (2025). ★
22. Y. M. Hsiao*(蕭元銘), C. M. Cheng(鄭家沐), Y. H. Guo(郭彥宏), C. Shueh(薛秦), Y. T. Cheng(鄭宇尊), C. K. Chan(詹哲鎧), C. C. Chang(張進春), C. K. Kuan(管建銳), I. C. Sheng(沈怡青), "*Architecture Reconstruction and*

Optimization of Front-end Interlock System in TPS", International Particle Accelerator Conference (IPAC), 2623, Taipei, Taiwan (2025). ★

23. Y. T. Hsieh*(謝譯瑭), H. J. Tsai(蔡弘人), W. Y. Lin(林威佑), S. J. Huang(黃思榮), T. Y. Lee(李宗諭), H. C. Chen(陳鴻樵), H. H. Chen(陳信輝), B. Y. Huang(黃斌源), J. A. Li(黎家安), H. A. Wang(王懷三), T. W. Hsu(許庭瑋), "*Analysis of Low-frequency Disturbances (0.3 Hz) in TPS and TLS Beam Orbit Feedback Systems*", International Particle Accelerator Conference (IPAC), 1102, Taipei, Taiwan (2025). ★

24. L. P. Hsu(許林斌), C. Y. Liao(廖志裕), C. Y. Wu(吳俊億), J. K. Liao(廖晉坤), Y. S. Cheng(鄭永森), Z. Q. Wu(吳子琦), "*Applications of SNMP and SYSLOG Monitoring at the TPS Control System*", International Particle Accelerator Conference (IPAC), 2949, Taipei, Taiwan (2025). ★

25. Y. Y. Hsu*(徐漾漾), J. C. Jan(詹哲鎧), Y. L. Chu(朱耘諒), F. Y. Lin(林富源), "*Integrating Permanent Magnets and Electromagnets: a Hybrid Dipole Magnet Design*", International Particle Accelerator Conference (IPAC), 1699, Taipei, Taiwan (2025). ★

26. C. H. Huang*(黃朝暉), J. Qiang, W. K. Lau(劉偉強), S. Y. Teng, W. Y. Chiang(姜惟元), S. H. Chen, "*Direct Interpretation of Coherent Synchrotron Radiation Modeling from Lienard-wiechert Equation with Shielding*", International Particle Accelerator Conference (IPAC), 2125, Taipei, Taiwan (2025). ★

27. C. H. Huang*(黃至賢), K. T. Hsu(許國棟), Shu-Hwa Lee(李淑華), J. K. Liao(廖晉坤), K. H. Hu(胡國華), P. C. Chiu(邱斐珍), and C. Y. Wu(吳俊億), "*Synchronous Phase Measurement and Study at the Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 2835, Taipei, Taiwan (2025). ★

28. C.-H. Huang*(黃朝暉), C. Wang(王兆恩), F.-T. Chung(鍾福財), L.-J. Chen(陳令振), C.-H. Lo(羅志宏), S.-W. Chang(張鮮文), Y.-T. Li(李易達), Z.-K. Liu(劉宗凱), M.-S. Yeh(葉孟書), M.-H. Chang(張美霞), M.-C. Lin(林明泉), F.-Y. Chang, "*Transitional Solution of Solid-state Power Amplifier at NSRRC*", International Particle Accelerator Conference (IPAC), 1777, Taipei, Taiwan (2025). ★

29. N. Y. Huang*(黃暖雅), D. Einfeld, M. S. Chiu(邱茂森), H. W. Luo(羅皓文), F. H. Tseng(曾繁信), P. J. Chou(周炳榮), "*Exploring Lattice Candidates for TPS Upgrade*", International Particle Accelerator Conference (IPAC), 176, Taipei, Taiwan (2025). ★

30. J. C. Jan*(詹哲鎧), C. C. Tsai(蔡啟川), P. K. Wang(王莆凱), and F. Y. Lin(林富源), "*Magnetic Circuit Design and Consideration for HTSW Using 12 mm HTS Tape*", International Particle Accelerator Conference (IPAC), 1822, Taipei, Taiwan (2025). ★

31. S. P. Kao(高小萍), H. H. Tsai(蔡黃修), F. Z. Hsiao(蕭豐礽), "*Application of Hazop and Lopa in the Risk Assessment of TPS LHe System at the NSRRC*", International Particle Accelerator Conference (IPAC), 1098, Taipei, Taiwan (2025). ★

32. C. H. Kuo*(郭長和), J. C. Chang(張瑞麒), M. S. Yeh(葉孟書), C. E. Wang(王兆恩), "*Status and Event Automatic Notification with Development with Mobile System at NSRRC*", International Particle Accelerator Conference (IPAC), 2946, Taipei, Taiwan (2025). ★

33. T. Y. Lee*(李宗諭), T. W. Hsu(許庭瑋), B. Y. Huang(黃斌源), C. Y. Hung(洪志宇), W. Y. Lin(林威佑), C. H. Huang(黃至賢), H. J. Tsai(蔡弘人), "*Auxiliary Tools for TPS Operation*", International Particle Accelerator Conference (IPAC), 3030, Taipei, Taiwan (2025). ★

34. Y. T. Li*(李易達), S. W. Chang(張鮮文), C. C. Huang, F. T Chung(鍾福財), M. S. Yeh(葉孟書), L. J. Chen(陳令振), Z. K. Liu(劉宗凱), M. H. Chang(張美霞), C. H. Lo(羅志宏), M. C. Lin(林明泉), C. Wang(王兆恩), F.-Y. Chang, "*Design and Implementation of a Power Monitoring and Distribution System for the SSPA-based RF Transmitter at NSRRC*", International Particle Accelerator Conference (IPAC), 1775, Taipei, Taiwan (2025). ★

35. C. Y. Liao*(廖志裕), Z. Q. Wu(吳子琦), J. K. Liao(廖晉坤), L. P. Hsu(許林斌), C. Y. Wu(吳俊億), Y. S. Cheng(鄭永森), J. Chen(陳秀珍), "*Motion Protection Framework for TPS Insertion Device Control*", International Particle Accelerator Conference (IPAC), 3040, Taipei, Taiwan (2025). ★

36. J. K. Liao*(廖晉坤), S. H. Lee(李淑華), Y. S. Cheng(鄭永森), C. H. Huang(黃至賢), K. T. Hsu(許國棟), "*Development of a new Clock Phase Shifter for Phase Measurement at the TPS*", International Particle Accelerator Conference (IPAC), 2832, Taipei, Taiwan (2025). ★

37. S. Y. Lin(林思妤), J. C. Liu(劉志青), A. Y Chen*(陳昂佑), "*Passive Radiation Detection Using TLD in NSRRC*", International Particle Accelerator Conference (IPAC), 3010, Taipei, Taiwan (2025). ★

38. Sy-Yu Lin(林思妤) and Yi-Hung Lin*(林易弘), "*Development of a Comprehensive Biosafety Management System for External User Experiments at NSRRC*", International Particle Accelerator Conference (IPAC), 1056, Taipei, Taiwan (2025). ★

39. W. Y. Lin*(林威佑), T. W. Hsu(許庭瑋), T. Y. Lee(李宗諭), C. Y. Hung(洪志宇), B. Y. Huang(黃斌源), "*Development of Electronic Orbit Stability Monitoring and Analysis System in the Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 1259, Taipei, Taiwan (2025). ★

40. Yung-Hui Liu*(劉永慧) and Yen-Ching Chung(鍾炎慶), "*The Data Acquisition System on Vibration Evaluation and Predictive Maintenance for Cooling Water Pumps System in TPS*", International Particle Accelerator Conference (IPAC), 75, Taipei, Taiwan (2025). ★

41. Z.-K. Liu*(劉宗凱), F.-Y. Chang(張富毓), M.-H. Chang(張美霞), S.-W. Chang(張鮮文), L.-J. Chen(陳令振), F.-T. Chung(鍾福財), C.-H. Huang(黃朝暉), Y.-T. Li(李易達), M.-C. Lin(林明泉), C.-H. Lo(羅志宏), C. Wang(王兆恩), and M.-S. Yeh(葉孟書), "*High-power Testing of TPS Heterogeneous One-to-four Power Combining*", International Particle Accelerator Conference (IPAC), 1047, Taipei, Taiwan (2025). ★

42. Z.-K. Liu*(劉宗凱), M.-S. Chiu(邱茂森), H.-C. Chen(陳鴻樵), S.-J. Huang(黃思榮), M.-S. Yeh,(葉孟書), and C. Wang(王 兆 恩), "*Application of Bayesian Optimization for the TLS Booster Extraction*", International Particle Accelerator Conference (IPAC), 2740, Taipei, Taiwan (2025). ★

43. H. W. Luo*(羅皓文), "*A Study on Eddy Current Distribution in the Coating Layer of Nonlinear Kicker Chamber*", International Particle Accelerator Conference (IPAC), 866, Taipei, Taiwan (2025). ★

44. I. C. Sheng*(沈怡青) and Y. M. Hsiao(蕭元銘), "*Evaluating the Feasibility of TPS High Heat Load Components for High-current Operation Using TMSI*", International Particle Accelerator Conference (IPAC), 979, Taipei, Taiwan (2025). ★

45. I.-C. Sheng*(沈怡青) and Y. M. Hsiao(蕭元銘), "*Advanced Power Density Mapping for FEA Simulations of Synchron Accelerator High Heat Load Components*", International Particle Accelerator Conference (IPAC), 1858, Taipei, Taiwan (2025). ★

46. K. L. Tsai*(蔡光隆), C. S. Fann(范棋翔), C. L. Chen(陳慶隆), and H. P. Chang(張和平), "*Study of a Fast Kicker Magnet for Beam Scanning in VHEE Radiotherapy*", International Particle Accelerator Conference (IPAC), 1887, Taipei, Taiwan (2025). ★

47. T. C. Tseng*(曾澤川), H. S. Wang(王懷三), W. Y. Lai(賴惟揚), C. J. Lin(林家瑞), K. H. Hsu(許耿豪), D. G. Huang(黃定國), C. S. Huang(黃春憲), Y. C. Liu(劉毅志), C. K. Kuan(管建銧), "*A Vibrating Wire System for Multipole Magnets Alignment in TPS*", International Particle Accelerator Conference (IPAC), 2529, Taipei, Taiwan (2025). ★

48. B. S. Wang*(王寶勝), K. B. Liu(劉國賓), and Y. S. Wong(黃永信), "*Development of a Modular Corrector Magnet Power Supply with N+1 Redundancy for TPS Facilities*", International Particle Accelerator Conference (IPAC), 1833, Taipei, Taiwan (2025). ★

49. Yong-Seng Wong*(黃永信), Kuo-Bin Liu(劉國賓), Chyi-Shyan Fann(范棋翔), Chen-Yao Liu(柳振堯), Bao-Sheng Wang(王寶勝), Jhao-Cyuan Huang(黃昭銓), "*Performance Analysis and Stability Enhancement Plan for the Sextupole Magnet Power Supply in Storage Ring*", International Particle Accelerator Conference (IPAC), 1836, Taipei, Taiwan (2025). ★

50. Z. Q. Wu*(吳子琦), C. Y. Liao(廖志裕), C. Y. Wu(吳俊億), S. H. Lee(李淑華), J. K. Liao(廖晉坤), L. P. Hsu(許林斌), "*Implementation of EPU66S Control System at the Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), 2956, , (2025). ★

51. C. K. Yang*(楊謹綱), F. Y. Lin(林富源), H. H. Chen(陳輝煌), Y. Y. Hsu(徐漾漾), C. W. Chen(陳智偉), "*Kicker Magnets for Fast-switching Elliptical Polarized Undulators Beamline of the TPS*", International Particle Accelerator Conference (IPAC), 1796, Taipei, Taiwan (2025). ★

Others

主導性 之 SCIE 論文

1. Boligarla Vinay, Yosef Nikodimos*, Tripti Agnihotri, Shadab Ali Ahmed, Teklay Mezgebe Hagos, Rehbar Hasan, Elango Balaji Tamilarasan, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Fluorine-free Electrolytes in Batteries: Principles, Strategies, and Advances*", Energ. Environ. Sci. **18**, 7326 (2025). (I.F.=30.800)★

2. Bereket Woldegbreal Taklu, Pei Hsing Chia, Chang Lin Liu, Yosef Nikodimos, Gashahun Gobena Serbessa, Lammi Terefe Kitaba, Kassie Nigus Shitaw, Tsung-I Yeh, Liang-Yu Lin, Jia-Hao Chang, Siyanand Kumar Chaudhary, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Reactio-induced Heat Evolution and Interface Stabilization from Bifunctional Chlorine-rich Anode for Sulfide Solid-state Batteries*", Energy Storage Mater. **82**, 104552 (2025). (I.F.=20.200)★

3. Bereket Woldegbreal Taklu, Tsung-I Yeh, Chia-Yu Chang, Teklay Mezgebe Hagos, Yosef Nikodimos, Saravanan Ashok Vallal, Anna Windmüller, Chun-Chi Chang, Kassie Nigus Shitaw, Tripti Agnihotri, Rehbar Hasan, Zabish Bilew Muche, Yu-Chun Huang, Sheng-Chiang Yang, Wei-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Two-step Activations and Liquid Metal Fortified Copper Substrate on Corrosion Tolerance in Anode-free Lithium-sulfur Battery*", ACS Energ. Lett. **10**, 5925 (2025). (I.F.=18.200)★

4. Zabish Bilew Muche, Yosef Nikodimos, Chia-Yu Chang, Semaw Kebede Merso, Teshager Mekonnen Tekaligne, Kassie Nigus Shitaw, Gashahun Gobena Serbessa, Teklay Mezgebe Hagos, Bereket Woldegbreal Taklu, Tripti Agnihotri, Sheng-Chiang Yang, Jian-Ming Chiu, She-Huang Wu*(吳溪煌), Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Integrating Electrodes and PVDF-HFP/Kevlar Nanofiber Separator for Multi-functions Using Electrospinning*", Chem. Eng. J. **505**, 159493 (2025). (I.F.=13.200)★

5. Kassie Nigus Shitaw, Hailemariam Kassa Bezabh, Yosef Nikodimos, Misganaw Adigo Weret, Teshager Mekonnen Tekaligne, Semaw Kebede Merso, Bereket Woldegbreal Taklu, Shi-Kai Jiang, Chun-Ying Li, Hsin-Yueh Liu, She-Huang Wu, We-Nien Su*(蘇威年), and Bing Joe Hwang*(黃炳照), "*Potassium Underpotential Deposition for Defect-free Lithium Deposition in Anode-free Li-metal Batteries*", Small Methods **9**, 2500207 (2025). (I.F.=9.100)★

6. B. Jeevanantham, M. K. Shobana*, Yosef Nikodimos, Saravanan Ashok Vallal, Wei-Nien Su*(蘇威年), Bing Joe Hwang*(黃炳照), "*Alleviating Parasitic Reaction of Nickel-rich Layered Active Materials at High Voltage Cycling by Rare-earth Metal Oxide Coating: A Comparison of Cyclic Performance*", J. Power Sources **645**, 237237 (2025). (I.F.=7.900)★

7. Rehbar Hasan, Po-Yi Wu, Tripti Agnihotri, Shadab Ali Ahmed, Ashok Ranjan, Elango Balaji Tamilarasan, Sheng-Chiang Yang, Bereket Woldegebreal Taklu, Liang-Yin Kuo, Wei-Nien Su*(蘇威年), She-Huang Wu*(吳溪煌), and Bing Joe Hwang*(黃炳照), "*A Signal-processing Framework for Preemptive Detection of Soft Shorts in Lithium-metal Batteries*", Cell Rep. Phys. Sci. **6**, 102973 (2025). (I.F.=7.300)★

8. Tong Chen, Cheng-Wei Kao(高振瑋), Lei Wang, Cheng Yuan, Tianran Yan, Xin Ma, Pan Zeng, Liang Zhang*(張亮), Ting-Shan Chan*(詹丁山), "*Modulated t_{2g} Orbitals of Spinel Oxides for Enhanced Catalytic Conversion of Polysulfides in Li-S Batteries*", Mater. Today Chem. **43**, 102490 (2025). (I.F.=6.700)★

9. Van-Sieu Luc, Li-An Wang, Yu-Hung Chen, Shao-Hua Yu, Ruei-Hung Juang, Lian-Ming Lyu, Chiao-Hsuan Pai, Chang-Bo Liu, Yi-Tsu Chan, Chun-Hong Kuo*(郭俊宏), Chia-Chih Chang*(張佳智), "*Photoinduced Controlled Radical Polymerization Mediated by BiOCl Nanosheets Under Simulated Solar Light*", Eur. Polym. J. **238**, 114217 (2025). (I.F.=6.300)★

10. Yen-Hui Lin, Yu-Hsiang Chung, Guan-Yu Chen, Hung-Chin Lee, Nitin Kumar, Chia-Ju Chen, Jia-An Lin, Chun-Yu Mou, Allan H. MacDonald, Chih-Kang Shih, Dah-An Luh*(陸大安), Jung-Jung Su*(蘇蓉容), and Pin-Jui Hsu*(徐斌睿), "*Fabricating a Hexagonal FeTe Monolayer with a Moir´e Superlattice on Topological Insulator Bi_2Te_3*", Nanoscale Adv. **7**, 3088 (2025). (I.F.=4.600)★

11. Ming-Kang Ho(何明綱), Yun-Tai Yu, Hsin-Hao Chiu(邱薪豪), K. Manjunatha*, Shih-Lung Yu, Bing-Li Lyu, Tsu-En Hsu, Heng-Chih Kuo, Shuan-Wei Yu, Wen-Chi Tu, Chiung-Yu Chang, Chia-Liang Cheng, H. Nagabhushana, Tsung-Te Lin, Yi-Ru Hsu, Meng-Chu Chen*(陳孟炬), Yue-Lin Huang, and Sheng Yun Wu*(吳勝允), "*Cu-doping Induced Structural Transformation and Magnetocaloric Enhancement in $CoCr_2O_4$ Nanoparticles*", Nanomaterials **15**, 1093 (2025). (I.F.=4.300)★

12. Jianhua Chen(陳建樺), Mary Mirvis, Axel Ekman, Bieke Vanslembrouck, Mark Le Gros, Carolyn Larabell, and Wallace F. Marshall*, "*Automated Segmentation of Soft X-ray Tomography: Native Cellular Structure with Submicron Resolution at High-throughput for Whole-cell Quantitative Imaging in Yeast*", Mol. Biol. Cell **36**, 132 (2025). (I.F.=2.700)★

合作性 之 **SCIE** 論文

1. Jianlong Cong, Yueda Wang, Xing Lin, Zhimei Huang, Hua Wang, Jianbo Li, Le Hu, Haiming Hua, Jianxing Huang, Yu-Chang Lin(林佑錩), Henghui Xu, Zhen Li, and Yunhui Huang*(黃云輝), "*Kinetics Compensation Mechanism in Cosolvent Electrolyte Strategy for Aqueous Zinc Batteries*", J. Am. Chem. Soc. **147**, 8607 (2025). (I.F.=15.600)☆

2. Liang-Ting Wu, Bing Joe Hwang(黃炳照), Jyh-Chiang Jiang*(江志強), "*Combined Machine Learning and Computational Protocols to Predict Electrolyte Behavior and SEI Formation in Li-metal Batteries*", Chem. Eng. J. **515**, 163801 (2025). (I.F.=13.200)☆

3. Liang-Ting Wu, Yu-Ting Zhan, Yu-Cheng Chiu, Bing Joe Hwang(黃炳照), and Jyh-Chiang Jiang*(江志強), "*Multifunctional Zwitterionic Self-healing Polymer Electrolytes for Anode-free Lithium-metal Batteries: a Computational Perspective*", Small **21**, 2503382 (2025). (I.F.=12.100)☆

4. Po-Yu Lai, Duraisamy Senthil Raja, Je-Wei Chang(張哲瑋), Jen-Huang Huang, De-Hao Tsai*(蔡德豪), "*Real-time Quantification of Microfluidic Hydrogel Crosslinking via Gas-phase Electrophoresis*", J. Colloid Interf. Sci. **684**, 201 (2025). (I.F.=9.700)☆

5. Joseph A. Hlevyack, Syu-You Guan, Yen-Chen Tsui, Chiao-An Wang, Wen-Yu Chen, Meng-Kai Lin, Yao Li, Soorya Suresh Babu, Peng Chen, Ro-Ya Liu(劉若亞), Ji-Eun Lee, Jinwoong Hwang, Shujie Tang, Yang Bai, David Flötotto, Sung-Kwan Mo, James N. Eckstein, Peter Abbamonte, Tien-Ming Chuang*(莊天明), and Tai-Chang Chiang*(江台章), "*Topological Surface Superconductivity via Josephson Coupling in Bi_2Te_3/Nb*", Nano Lett. **25**, 16387 (2025). (I.F.=9.100)☆

6. Yong-Jyun Wang, Chuan Chuang, Chia-Chen Chung, Po-Chih Chu, Wei-Chun Lin, Jian-Wei Zhang, Yu-Lun Chueh, Zhenzhong Yang, Rong Huang*(黃榮), Keng-Hung Chang, Heng-Jui Liu, Hsiang-Lin Liu, Jia-Yuan Sun, Xin-Yun Chang, Hao-Che Chan, Chih-Wei Luo(羅志偉), Yu-Miin Sheu, Jyh-Ming Wu, Yi-Cheng Chen*(陳怡誠), and Ying-Hao Chu*(朱英豪), "*Epitaxial Antiferroelectric Bi_2O_2S Films with Superior Photoresponse*", ACS Appl. Mater. Interfaces **17**, 21392 (2025). (I.F.=8.200)☆

7. Cheng-Ling Tai, Yu-Ning Chiu, Chu-Jen Chen, Shih-Kang Lin, Hsin-Chih Lin, R. Devesh Kumar Misra, Yo-Lun Yang, Chien-Nan Hsiao, Cheng-Si Tsao(曹正熙), Tsai-Fu Chung*(鍾采甫), "*Phenomenological Understanding of the Contribution of Bulk and Grain Boundary Precipitates on Strengthening in Prolonged-aged Al-Zn-Mg-Cu Aluminium Alloys*", Mater. Today Adv. **25**, 100557 (2025). (I.F.=8.000)☆

8. Sat Septian Dwitya, Kuen-Song Lin*(林錕松), Meng-Tzu Weng*(翁孟慈), Ndumiso Vukile Mdlovu, Lee-Jene Lai(賴麗珍), Chun-Ming Wu(吳浚銘), "*Thermo- and pH-responsive MOF-303 Mediated P127 and Gelatin Coating for Combination Drug Release and Liver Cancer Therapy*", Mater. Today Chem. **44**, 102548 (2025). (I.F.=6.700)☆

9. Suprovat Ghosh, Kritika Bhattacharya, Sujan Sasmal, Kamlesh Bhatt, Santanu Kandar, Biswajit Khan, Chih-Wei Luo(羅志偉), Rajendra Singh, Ananjan Basu, and Samaresh Das*, "*Optically Pumped Ultrafast and Broadband Terahertz Modulation with Scalable Molecular Beam Epitaxy Grown $MoTe_2$/Si Heterostructures*", Adv. Mater. Technol. **10**, 2402036 (2025). (I.F.=6.200)☆

10. Sat Septian Dwitya, Kuen-Song Lin*(林錕松), Meng-Tzu Weng*(翁孟慈), Ndumiso Vukile Mdlovu, Ming-Tao Yang, Chun-Ming Wu(吳浚銘), "*Synthesis and Characterization of Oleic Acid-stabilized Cobalt Ferrite @MCM-41/Nanocomposites for pH-responsive Drug Delivery*", J. Ind. Eng. Chem. **143**, 339 (2025). (I.F.=6.000)☆

11. Zhong-Lun Li, Liang-Ting Wu, Bing Joe Hwang(黃炳照), Jyh-Chiang Jiang*(江志強), "*Automated Phase Diagram Construction for Multi-component Electrolytes in Li-metal Batteries Using Combined DFT and COSMO-RS Approaches*", Electrochim. Acta **536**, 146802 (2025). (I.F.=5.600)☆

12. Tsu-En Hsu, Krishtappa Manjunatha*, Ming-Kang Ho(何明綱), Hsin-Hao Chiu, Shih-Lung Yu, Bing-Li Lyu, Yun-Tai Yu, Heng-Chih Kuo, Shuan-Wei Yu, Chia-Liang Cheng, Shidaling Matteppanavar, Hanumanthappa Nagabhushana, Meng-Chu Chen, Yue-Lin Huang, and Sheng Yun Wu*(吳勝允), "*High-performance Bi-doped $NiFe_2O_4$ Nanoparticles for Advanced Supercapacitors and Room-temperature Magnetic Memory Applications*", ACS Appl. Electron. Mater. **7**, 3704 (2025). (I.F.=4.700)☆

13. Rio Akbar Yuwono, Peng-Xuan Yu, Ruben Foeng, Chusnul Khotimah, Salva Salshabilla, Fu-Ming Wang*(王復民), Mau-Tsu Tang(湯茂竹), and Nae-Lih Wu, "*Tailoring the Lithium Deposition on Cu Substrate by a Functionalized-polysiloxane Layer*", Batteries Supercaps **8**, e202400488 (2025). (I.F.=4.700)☆

14. Kuan-Cheng Chen*, Tai-Yue Li, Yun-Yuan Wang, Simon See, Chun-Chieh Wang(王俊杰), Robert Wille, Nan-Yow Chen, An-Cheng Yang, and Chun-Yu Lin, "*Validating Large-scale Quantum Machine Learning: Efficient Simulation of Quantum Support Vector Machines Using Tensor Networks*", Mach. Learn.-Sci. Technol. **6**, 015047 (2025). (I.F.=4.600)☆

15. Mao-Chang Liang*(梁茂昌), Chao-Hui Huang(黃朝暉), Mark Howard Thiemens, Sourendra Kumar Bhattacharya, Sasadhar Mahata, Yu-Jung Chen, and Tai-Sone Yih, "*Novel Triple-oxygen Isotope Study Indicates Unprecedented*

Ozone-particulate Interaction Pathways in Atmospheric Pollution Chemistry", ACS Omega **10**, 4388 (2025). (I.F.=4.300)☆

16. Swathi M. Gowdru, Priyadarshini H. Nagaraju, Yi-Chia Chen, Kuan-Chang Wu, Chia-Che Chang(張嘉哲), and Di-Yan Wang*(王迪彥), "*Enhanced Electrocatalytic Nitrate Reduction to Ammonia on Silver Nanocubes*", Chem. Commun. **61**, 6965 (2025). (I.F.=4.200)☆

17. I. Shamova, J.-Y. Sun, X.-Y. Chang, V. Popova, D. Chareev, L. Shvanskaya, D. Ksenofontov, A. Vorobyova, K. Lyssenko, A. Demidov, H.-Y. Yeh, W.-Y. Tzeng, J.-Y. Lin, C.-W. Luo(羅志偉), P. Monceau, E. Pachaud, E. Lorenzo, A. Sinchenko, A. Vasiliev, and O. Volkova*, "*Comparative Study of Terbium Tellurides Tb_2Te_5 and $TbTe_3$*", Phys. Rev. B **112**, 094434 (2025). (I.F.=3.700)☆

18. Matisse Wei-Yuan Tu*(涂維元), Li-Sheng Lin, Chung-Yu Wang, Jyh-Pin Chou, Sin-Yi Wei, Chien-Ming Tu, Chia-Nung Kuo, Chin Shan Lue, and Chih-Wei Luo(羅志偉), "*Ultrafast Spintronics with Geometric Effects in Nonadiabatic Wave-packet Dynamics*", Phys. Rev. B **112**, 035417 (2025). (I.F.=3.700)☆

19. Majvor Mack, Jia-Yuan Sun, Bongki Shin, Stephen Boandoh, Yimo Han, Jun Lou, Norbert H. Nickel, Chien-Chih Lai, Chih-Wei Luo(羅志偉), and Yu-Tsung Tsai*, "*Functionalized Two-dimensional vdW Multijunction MoS_2-MoS_2/WS_2-WS_2/WS_2-WS_2 Platform for Defect-related Carrier Dynamics Studies*", Phys. Rev. Mater. **9**, 064005 (2025). (I.F.=3.400)☆

20. Kun-Mu Lee*(李坤穆), Jui-Ting Pan, Wen-Tzu Chen, Chia-Hui Lin, Zhe-Wei Wang, Wei-Hao Chiu, Wei-Chen Chu, Ya-Ho Chang, Jen-Fu Hsu, Sie-Rong Li, Shih-I Lu*(呂世伊), Hsiao-Chi Hsieh*, Chih-Wei Hu(胡芝瑋), Chih-Hung Chen, Jian-Ming Chiu, Kang-Ling Liau, Gao Chen, Yun-Shuo Liu, Shih-Sheng Sun*(孫世勝), and Yan-Duo Lin*(林彥多), "*Asymmetric Fluorinated Cyclopenta[2,1-b:3,4-b'] Dithiophene-based Hole-transporting Materials for Perovskite Solar Cell*", Chem.-Asian J. **20**, e00719 (2025). (I.F.=3.300)☆

21. Karthika Alagesan, Hemavathy Nagarajan, Amala Mathimaran, Umashankar Vetrivel, Veerapandiyan Malaisamy, Chun-Jung Chen(陳俊榮), Jeyakanthan Jeyaraman*, "*A Promising Strategy to Disrupt Plasmodium Falciparum Metabolic Resilience by Targeting G6PD: Virtual Screening for Potential Inhibitors Against Malaria*", Comput. Biol. Chem. **118**, 108495 (2025). (I.F.=3.100)☆

22. Pandian Mannu, V. S. Manikandan, Karthikeyan Kandhasamy, Gokul Bangaru, Matheswaran Palanisamy*, Arun Thirumurugan, Asokan Kandasami, Chi-Liang Chen(陳啟亮), and Chung-Li Dong*(董崇禮), "*Thermal annealing-induced Phase Transition and Optical Property Modulation of $In_xSe_{80-x}Te_{20}$ Thin Film*", J. Mater. Sci.-Mater. Electron. **36**, 508 (2025). (I.F.=2.800)☆

23. Axel Ekman*, Jian-Hua Chen(陳建樺), Carolyn A Larabell, Mark A Le Gros, and Venera Weinhardt, "*Interior Soft X-ray Tomography with Sparse Global Sampling*", Phys. Scripta **100**, 126008 (2025). (I.F.=2.600)☆

24. Yu-Chan Tai, Chih-Wei Luo(羅志偉), Noriaki Takagi, Hiroshi Ishida, Chun-Liang Lin*(林俊良), and Ryuichi Arafune*, "*Coherent Multiphoton Photoemission Spectroscopy of Image-potential State on Ir(111) Surface*", Appl. Phys. Express **18**, 062001 (2025). (I.F.=2.200)☆

Neutron Project

主導性 之 SCIE 論文

1. Hsing-Yang Chen, Chi-Lin Mo, Jing-Jong Shyue, Tzu-Yen Huang*(黃子晏), and Miin-Jang Chen*(陳敏璋), "*Probing $Hf_{0.5}Zr_{0.5}O_2$ Ferroelectricity: Neutron Reflectivity Reveals Critical Interface Effects*", ACS Appl. Mater. Interfaces **17**, 16102 (2025). (I.F.=8.200)★

2. Chin-Wei Wang*(王進威), Chia-Nung Kuo, Chin-Shan Lue, R. O. Piltz, Chi-Hung Lee*(李其紘), "*Magnetic Structure of Ternary Intermetallic $Tb_3Co_4Sn_{13}$ with Nonchiral Crystal Structure*", Chinese J. Phys. **94**, 355 (2025). (I.F.=4.600)★

合作性 之 SCIE 論文

1. Yanming Sun, Ruohan Yu, Sergii Khmelevskyi, Kenichi Kato, Yili Cao*(曹宜力), Shixin Hu, Maxim Avdeev, Chin-Wei Wang(王進威), Chengyi Yu, Qiang Li, Kun Lin, Xiaojun Kuang*(匡小軍), and Xianran Xing*(邢獻然), "*Local Chemical Heterogeneity Enabled Superior Zero Thermal Expansion in Nonstoichiometric Pyrochlore Magnets*", Natl. Sci. Rev **12**, nwae462 (2025). (I.F.=17.100)☆

2. I-Lun Jen, Cheng-Yen Lin, Kuang-Kuo Wang, Chun-Ming Wu(吳浚銘), Chi-Hung Lee*(李其紘), and Hsin-Jay Wu*(吳欣潔), "*Avoided Crossing Phonons Realizes High-performance Single-crystalline β-Zn_4Sb_3 Thermoelectrics*", Adv. Sci. **12**, 2411498 (2025). (I.F.=14.100)☆

3. Xiao-Ming Huang, Ying Zhao, Xiaowen Hao, Hua-You Xiang, Jin-Han Yang, Chin-Wei Wang(王進威), Wenyun Yang, Cuiping Zhang, Binru Zhao, Jie Ma, Zongbin Li, Yafei Kuang, Liang Zuo, Xin Tong*(童欣), Hai-Le Yan*(閻海樂), Qingyong Ren*(任清勇), "*Enhanced Deep-freezing Magneto- and Elasto-caloric Effects by Modifying Lattice Anharmonicity and Electronic Structures*", Acta Mater. **296**, 121302 (2025). (I.F.=9.300)☆

4. Weiliang Yao*, Supeng Liu, Hodaka Kikuchi, Hajime Ishikawa, Øystein S. Fjellvåg, David W. Tam, Feng Ye, Douglas L. Abernathy, George D. A. Wood, Devashibhai Adroja, Chun-Ming Wu(吳浚銘), Chien-Lung Huang, Bin Gao, Yaofeng Xie, Yuxiang Gao, Karthik Rao, Emilia Morosan, Koichi Kindo, Takatsugu Masuda, Kenichiro Hashimoto, Takasada Shibauchi*, and Pengcheng Dai*, "*Anomalous Electrical Transport in the Kagome Magnet $YbFe_6Ge_6$*", Phys. Rev. Lett. **134**, 186501 (2025). (I.F.=9.000)☆

5. Shivani Sharma*, Pooja Jain, Benny Schundelmier, Chin-Wei Wang(王進威), Poonam Yadav, Adrienn Maria Szucs, Kaya Wei, Niranjan P. Lalla, and Theo Siegrist, "*Structural Inhomogeneities and Suppressed Magnetostructural Coupling in Mn-substituted $GeCo_2O_4$*", Chem. Mater. **37**, 5995 (2025). (I.F.=7.000)☆

6. Shuo Liu, Airan Li, Xiaowen Hao, Mengzhao Chen, Yi Huang, Yinde Yu, Chin-Wei Wang(王進威), Qingyong Ren*(任清勇), Tiejun Zhu*(朱鐵軍), and Chenguang Fu*(付晨光), "*Synthesis and Thermal Stability of Topological Semimetal $RMnSb_2$ (R=Yb, Sr, Ba, Eu)*", Sci. Technol. Adv. Mat. **26**, 2512702 (2025). (I.F.=6.900)☆

7. Levi Tegg, Halsey E. Ostergaard, Matic Jovicevic-Klug*, Patricia Jovicevic-Klug, Chun-Ming Wu(吳浚銘), Julie M. Cairney*, "*In-situ SANS for the Kinetic Analysis of β" Precipitation in an Al-Mg-Si Alloy Following Deep Cryogenic Treatment*", J. Alloy. Compd. **1025**, 180371 (2025). (I.F.=6.300)☆

8. Hengheng Wu, Don Zhang, Wengen Zheng, Mengru Cong, Weijun Ren*(任衛軍), Fei Gao, Chin-Wei Wang(王進威), Bing Li, Ping Miao*(繆平), Zhidong Zhang, "*The Magnetism and Magnetic Structure of Layered Compound β-$DyGa_3$*", J. Alloy. Compd. **1041**, 183793 (2025). (I.F.=6.300)☆

9. T. W. Kuo, C. C. Chen, D. Chandrasekhar Kakarla, A. Tiwari, C. W. Wang(王進威), M. Gooch, L. Z. Deng, C. W. Chu, H. D. Yang*(楊弘敦), and H. C. Wu*(吳紘丞), "*Enhanced Néel-type Skyrmion Stability in Polar $VOSe_2O_5$ Through Tunable Magnetic Anisotropy Under Pressure*", Phys. Rev. B **112**, 024441 (2025). (I.F.=3.700)☆

10. C. H. Prashanth*, D. Chandrasekhar Kakarla, Bikash Saha, Abhijit Nayak, C. W. Wang(王進威), Ajay Tiwari, H. D. Yang, Shiu-Ming Huang, Mitch M. C. Chou, Anup Kumar Bera*, and Krishnamurthy Jyothinagaram*, "*Temperature- and field-induced magnetic phase transitions in BaHoFeO4: A neutron diffraction study*", Phys. Rev. B **112**, 064406 (2025). (I.F.=3.700)☆

11. S. Rathnayaka, S. Yano(矢野真一郎), J.-B. Morée, K. Kawashima, J. Akimitsu, C. M. Brown, J. Neuefeind, and D. Louca*, "*Sensitivity of Electronic Structure to Crystal Distortions in Infinite-layered $LaNiO_2$*", Phys. Rev. B **111**, 014518 (2025). (I.F.=3.700)☆

12. Hiromu Tamatsukuri*, Tatsuya Kozawa, Setsuo Mitsuda, Masayoshi Fujihala, Katsuki Kinjo, Kazuhiro Nawa, Hung-Cheng Wu, Taku J. Sato, and Shin-ichiro Yano(矢野真一郎), "*Irreversible Process of the Atomic Reconstruction Phenomenon Induced by Uniaxial Stress in MnP*", Phys. Rev. B **112**, 184115 (2025). (I.F.=3.700)☆

13. Junjie Yang*, Dimuthu Obeysekera, William Ratcliff, Lu Li, Sabine N. Neal, Janice L. Musfeldt, and Shinichiro Yano(矢野真一郎), "*Multiferroicity and Phase Diagram of Ferro-rotational Magnet $RbFe(SO_4)_2$*", J. Phys.-Condens. Mat. **37**, 175701 (2025). (I.F.=2.600)☆

內部技術報告

1. 彭仁志, "*使用卷積神經網路在樹梅派上開發實作異常檢測機制*", 2025.

2. 蔡光隆, 陳慶隆, 范棋翔, 張和平, "*速調管電子槍電弧現象之研究*", 2025.

3. 林威佑, 許庭瑋, 李宗諭, 洪志宇, 黃斌源, "*TPS 電子束流位置穩定性的自動化監測與分析*", 2025.

4. 劉宗凱, 張美霞, 張鮮文, 陳令振, 鍾福財, 黃朝暉, 李易達, 林明泉, 羅志宏, 王兆恩, 葉孟書, "*同軸管高功率耦合器的電子次級倍增模擬工具*", 2025.

5. 廖志裕, 吳子琦, 吳俊億, 鄭永森, 陳秀珍, "*TPS EPU 插件磁鐵運動保護系統設計*", 2025.

6. 郭彥宏, 鄭家沐, 蕭元銘, "*TPS 01A 光束線人機控制介面用於安全連鎖控制系統*", 2025.
7. 王寶勝, 劉國賓, 黃永信, "*提升直流模式下 TPS 增能環二極磁鐵電源電流穩定性*", 2025.
8. 張進春, 詹哲鎧, 陳柏穎, 康景皓, "*真空型非線性偏踢磁鐵設計開發*", 2025.
9. 劉宗凱, 張美霞, 張鮮文, 陳令振, 鍾福財, 黃朝暉, 李易達, 林明泉, 羅志宏, 王兆恩, 葉孟書, "*台灣光子源高頻系統 1:4 功率合併測試報告*", 2025.
10. 張和平, "*Linux/EPICS 控制系統應用 Shell Script 程式在 Linac 相關任務作業上的監測與控制*", 2025.
11. 張和平, 蔡光隆, "*台灣光子源線型加速器電子束發射度量測與分析*", 2025.
12. 謝嘉濬, "*軟 X 光生醫斷層掃描顯微術之冷凍細胞樣本製備*", 2025.
13. 鄭家沐, 蕭元銘, 鄭宇尊, 郭彥宏, 陳柏穎, 薛秦, 詹哲鎧, "*TPS 前端區 XBPM 診斷參數開發*", 2025.
14. 鄭宇尊, "*絕緣陶瓷表面釋氣研究*", 2025.
15. 范棋翔, 陳慶隆, 蔡光隆, 張進春, 詹哲鎧, 黃永信, "*TPS 儲存環非線性偏踢磁鐵脈衝電源系統可行性評估*", 2025.
16. 吳子琦, 吳俊億, 廖志裕, 李淑華, 廖晉坤, 許林斌, "*基於 EPU66S 運動控制測試平台的測試與優化*", 2025.
17. 吳瑋儒, 廖桂芬, 蘇群仁, "*多通道快速止流結合高速 UV 光譜測量系統*", 2025.
18. 蕭元銘, 沈怡青, "*受軸對稱熱載荷作用之薄圓盤的熱響應與屈曲機制:台灣光子源前端區螢光顯示器系統之研究*", 2025.
19. 許庭瑋, 邱茂森, 黃斌源, 洪志宇, 林威佑, 李宗諭, 蔡弘人, "*使用垂直刮束器預估非線性偏踢磁鐵於 TPS 之 Vertical Acceptance 與輻射分布*", 2025.
20. 廖晉坤, 李淑華, 許國棟, 鄭永森, 吳子琦, 許林斌, "*TPS 09A 時脈支援系統之改良與實作*", 2025.
21. 廖晉坤, 李淑華, 許國棟, 鄭永森, 吳子琦, 許林斌, "*TPS 15A 新型雷射同步時脈與延遲控制系統之實作*", 2025.
22. 許林斌, 廖晉坤, 吳子琦, "*控制網路線上監控工具實作*", 2025.
23. 姜惟元, 張亦傑, 李安平, 周明昌, 蔡光隆, "*台灣光子源線型加速器速調管調變器研究與改裝設計*", 2025.
24. 劉力豪, 謝嘉濬, "*樣品冷卻載台之溫度控制機箱*", 2025.

備註: 1. I.F. (Impact Factor)以 2024 JCR (Journal Citation Reports) 為資料依據。

2. "★" 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);
"☆" 表中心合作性論文(合作性論文指該論文的作者群中有中心同仁);
"◆" 表中心協助性論文(協助性論文指該論文作者群中無中心同仁, 但該論文使用到同步輻射光源)

3.資料更新日期: 2026-01-14