Prof. Kun-Mu Lee of Chang Gung University (Update 2026/10/19)

SCI Journal Paper

2026-

1. Kun-Mu Lee*, Xiu-Ping Lin, Ya-Ho Chang*, Cheng-Ting Tsai, Pei-Chen Chu, Yu-Hsun Chen, Wei-Hao Chiu, Yu-Che Lin, Sie-Rong Li, Hsiao-Chi Hsieh*, Kang-Ling Liau, Shih-I. Lu*, Chih-Min Wang*, and Yan-Duo Lin*, "Asymmetric Fluorinated Spiro Hole-Transport Materials Enabled by a Rapid Core-Forming Strategy for Blade-Coated Perovskite Solar Cells", **2026**, ***Advanced Science***, e77623. (▲**:0**; SCI; **IF:14.1** at 2025; Ranking:24/250=9.6% in Chemistry, Multidisciplinary)

2. Iqra Shaheen, Shih-Hsuan Chen, Yu-Xian Lee, Wei-Hao Chiu, Ting-Han Lin, Kumar GokulKumar, P. Varatharajan, Jen-Fu Hsu, Gao Chen, and Kun-Mu Lee*, "Coupled Morphology and Phase Regulation of In-Situ Grown TiO_2 Nanostructures on Graphite Felt for Enhanced Redox Kinetics in Vanadium Redox Flow Batteries", **2026**, ***Chemical Engineering Journal***, 549, 183177. (▲**:0**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

3. Harini Srikanth Rao, Seoungjun Ahn, Wei-Hao Chiu, Wei-Chen Chu, Yi-Wen Sung, Gao Chen, and Kun-Mu Lee*, "Reliability Enhancement of PVDF-HFP Modified Perovskite Solar Cells Under Synergistic Space-Relevant Stress Conditions", **2026**, ***Chemical Engineering Journal***, 540, 177494. (▲**:0**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

4. P. Varatharajan, Kumar Gokulkumar, Shih-Hsuan Chen, Neeraja Bose, Elango Kandasamy*, and Kun-Mu Lee*, "Advancement and Growth of Metal Organic Framework Derived Nanostructured Materials for Fabrication of High Energy Density Supercapacitors", **2026**, ***Journal of Power Sources***, 687, 240526. (▲**:0**; SCI; **IF:8.4** at 2025, Ranking:7/44=15.9% in Electrochemistry)

5. Iqra Shaheen†, Wei-Hao Chiu†, Yu-Xian Lee†, Shih-Hsuan Chen, Jen-Fu Hsu, and Kun-Mu Lee*, "Heterogeneous Graphite Felt Electrodes Decorated with Nanostructured Graphitic Carbon Nitride for Enhanced Redox Kinetics in Vanadium Redox Flow Batteries", **2026**, ***Journal of Power Sources***, 667, 239216. (▲**:0**; SCI; **IF:8.4** at 2025, Ranking:7/44=15.9% in Electrochemistry)

6. Harini Srikanth Rao, Wei-Hao Chiu, Shih-Hsuan Chen, Ming-Chung Wu, and Kun-Mu Lee*, "2T Perovskite Tandem Solar Cells in Space: Failure Mechanisms and Design Strategies", **2026**, ***Materials Today Energy***, 60, 102359. (▲**:0**; SCI; **IF:8.1** at 2025, Ranking:99/472=21.0% in Materials Science, Multidisciplinary)

7. Neeraja Bose†, Kumar GokulKumar†, Shih-Hsuan Chen†, and Kun-Mu Lee*, "SnO_x Contact Engineering in Perovskite Solar Cells: Oxygen-Defect and Valence Control From Selective to Ambipolar Transport", **2026**, ***Materials Today Energy***, 59, 102300. (▲**:0**; SCI; **IF:8.1** at 2025, Ranking:99/472=21.0% in Materials Science, Multidisciplinary)

8. Wei-Hao Chiu, Wei-Lun Yu, Ming-Chung Wu, Jen-Fu Hsu, Gao Chen, Ching-Yuan Liu*, and Kun-Mu Lee*, "Synergistic Preheating and Moderate Temperature Liquid Medium Annealing for High Performance Perovskite Solar Cells", **2026,** ***Solar Energy***, 309, 114430. (▲ **:0**; SCI; **IF:7.9** at 2025; Ranking:50/191=26.2% in Energy & Fuels)

9. Zhong-En Shi, Chia Hsien Chen†, Zheng-Xuan Cai†, Yi-Han Zheng†, Ireneusz Kownacki, Yan-Ru Lin, Yen-Ming Chen, Chun-Jen Su, Je-Wei Chang, Kun-Mu Lee, Yung-Sheng Yen*, and Chih-Ping Chen*, "Robust Ionic Anchoring at NiO_x Interfaces Enables Efficient Outdoor and Indoor Inverted Perovskite Solar Cells", **2026**, ***ACS Applied Materials & Interfaces***, 18, 47907-47915. (▲**:0**; SCI; **IF:7.8** at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)

10. Neeraja Bose, Kumar Gokulkumar, Shih-Hsuan Chen, Ramalingam Mahaan, Dheepthy Fabius Suresh, Dheepthy Fabius Suresh, Ganesh Munuswamy Ramanujam*, and Kun-Mu Lee*, "ECM-Mimetic CoMn-LDH Integrated PCL/PAAm Nanofibrous Hydrogel for Effective Multifunctional Drug Delivery and Fenton-Like Chemodynamic Cancer Therapy", **2026**, ***ACS Applied Materials & Interfaces***, 18, 36547-36565. (**▲:0**; SCI; **IF:7.8** at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)

11. Kumar GokulKumar, Neeraja Bose, Shih-Hsuan Chen, Sakthivel Kogularasu, Barani Kumar Duvaragan, and Kun-Mu Lee*, "Engineered ZnS:SnS_2/Bi_2S_3 Hierarchically Porous Heterostructure with Accelerated Charge Transfer for Trace Level Electrochemical Detection of Azathioprine", **2026**, ***Journal of Environmental Chemical Engineering***, 14, 123587. (**▲:0**; SCI; **IF:7.5** at 2025, Ranking:34/183=18.6% in Engineering, Chemical)

12. Kumar GokulKumar, Parthasarathi Manimaran, Shen-Ming Chen*, Neeraja Bose, Shih-Hsuan Chen, and Kun-Mu Lee*, "Plasma-Activated O-Nd_2WO_6/f-CNF Hybrid Electrode for Sensitive Electrochemical Detection of Azathioprine in Environmental Water Samples", **2026**, ***Journal of Environmental Chemical Engineering***, 14, 123120. (**▲:0**; SCI; **IF:7.5** at 2025, Ranking:34/183=18.6% in Engineering, Chemical)

13. Sri Balaji Natarajan†, Kumar GokulKumar†, Shen-Ming Chen*, Shih-Hsuan Chen, and Kun-Mu Lee*, "Synergistic Pr-Mo-O@f-MWCNT Heterointerfaces for Ultrasensitive Electrochemical Detection of Fenitrothion in Complex Environmental and Food Samples", **2026,** ***Journal of the Taiwan Institute of Chemical Engineers***, 188, 106890. (**▲:0**; SCI; **IF:6.9** at 2025; Ranking:37/183=20.2% in Engineering, Chemical)

14. Harini Srikanth Rao, Wei-Hao Chiu, Shih-Hsuan Chen, Ming-Chung Wu, and Kun-Mu Lee*, "Impact of Proton Radiation on the Performance of Single-Junction Perovskite Solar Cells for Space Applications", **2026,** ***Solar Energy Materials and Solar Cells***, 295, 114015. (**▲:7**; SCI; **IF:6.6** at 2025; Ranking:37/191=19.4% in Physics, Applied)

15. Zhi-Hao Huang, Hou-Chin Cha, Kun-Mu Lee*, and Yu-Ching Huang*, "Broadband, Low-Noise and Fast Short-Wave Infrared Photodetection Enabled by Thermally Robust All-Polymer Organic Photodetectors", **2026**, ***Next Materials***, 10, 101451. (**▲:0**; SCI; **IF:4.7** at 2025; Ranking:92/250=36.8% in Chemistry, Multidisciplinary)

16. Kun-Mu Lee, Wei-Hao Chiu, Bo-Chin Lee, Yu-Hsin Kao, Jr-Si Hsu, and Yung-Sheng Yen*, "Fused Dithienoheterocycle-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells", **2026,** ***Chemistry-An Asian Journal***, 21, e70245. (**▲:0**; SCI; **IF:3.2** at 2025; Ranking:121/250=48.4% in Chemistry, Multidisciplinary)

17. Ling-Hui Lu†, Chu-Han Hsu†, Meng-De Wu, Wei-Kai Chang, Kun-Mu Lee*, Ming-Wei Hsu, and Ching-Yuan Liu*, "Succinct New Synthetic Route to Tetrathienoanthracene-Based Hole-Transporting Materials via Pd-Catalyzed Direct C—H/C—Br Coupling Reactions", **2026**, ***European Journal of Organic Chemistry***, 29, e202501195. (**▲:0**; SCI; **IF:2.8** at 2025; Ranking:17/58=29.3% in Chemistry, Organic)

2025-

18. Kun-Mu Lee, Chia-Hui Lin, Chia-Chi Chang, Ting-Yu Yang, Wei-Hao Chiu, Wei-Chen Chu, Ya-Ho Chang, Sie-Rong Li, Shih-I Lu, Hsiao-Chi Hsieh, Kang-Ling Liau, Chia Hui Hu, Chih-Hung Chen, Yun-Shuo Liu, Wei-Chun Chou, Mandy M. Lee, Shih-Sheng Sun, Yu-Tai Tao, and Yan-Duo Lin*, "Judicious Molecular Design of 5H-Dithieno[3,2-b:2',3'-d]Pyran-based Hole-Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells", **2025**, ***Advanced Science***, 12, 2410666. (**▲:14**; SCI; **IF:14.1** at 2025; Ranking:24/250=9.6% in Chemistry, Multidisciplinary)

19. Jiawen Cong, Zhi-Hao Huang, Shun-Wei Liu, Zhenghui Luo*, Fu-Zong Liu, Zhanxiang Chen, Kun-Mu Lee, Yu-Ching Huang*, and Chuluo Yang*, "Efficient SWIR Organic Photodetectors with Spectral Detection Extending to 1.4 µm Using a Benzobisthiadiazole-Based Acceptor", **2025**, ***Small***, 21, 2410418. (**▲:32**; SCI; **IF:11.8** at 2025; Ranking:16/191=8.4% in Physics, Applied)

20. Iqra Shaheen, Wei-Hao Chiu, Shih-Hsuan Chen, and Kun-Mu Lee*, "MOF- & COF-Integrated Composite Separators/Membranes: Innovations for Sustainable and High-Performance Redox Flow Batteries", **2025**, ***Separation and Purification Technology***, 376, 134157. (**▲:6**; SCI; **IF:9.1** at 2025; Ranking:22/183=12.0% in Engineering, Chemical)

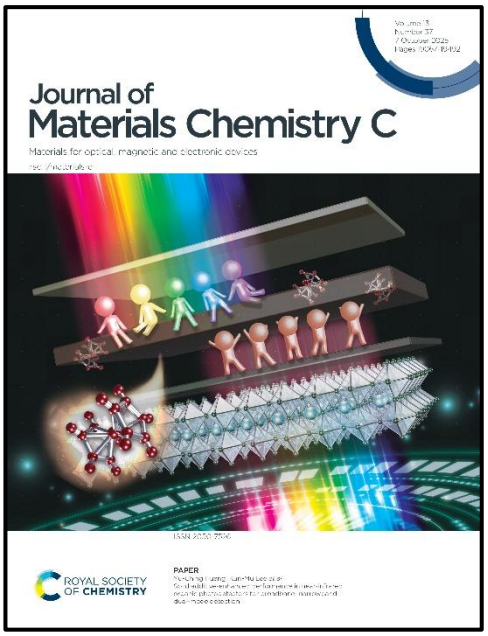
21. Zhi-Hao Huang, You-Ren Chen, Hou-Chin Cha, Sheng-Long Jeng, Kun-Mu Lee*, and Yu-Ching Huang*, "Mechanistic Insights into Additive-Driven Dark Current and Responsivity in Organic Photodetector with Varied Film Thickness", **2025**, ***Surface and Coatings Technology***, 515, 132701. (**▲:2**; SCI; **IF:6.9** at 2025; Ranking:4/25=16.0% in Materials Science, Coatings & Films)

22. Kumar Gokulkumar, Sri Balaji Natarajan, Shen-Ming Chen*, Sakthivel Kogularasu, Shih-Hsuan Chen, and Kun-Mu Lee*, "Enhanced Electrochemical Detection of the Antibiotic Levofloxacin Using Temperature Optimized Er_2MoO_6 Nanomaterials for Environmental Monitoring", **2025**, ***Journal of Water Process Engineering***, 78, 108757. (**▲:5**; SCI; **IF:6.6** at 2025; Ranking:13/132=9.8% in Water Resources)

23. Parthasarathi Manimaran, Kumar Gokulkumar, Shen-Ming Chen*, Shih-Hsuan Chen, Jen-Fu Hsu, and Kun-Mu Lee*, "Ni-Metal-Organic Framework/β-Cyclodextrin/Functionalized Carbon Black Nanomaterials for Enhanced Electrochemical Sensing of Metronidazole in Environmental and Clinical Samples", **2025**, ***ACS Applied Nano Materials***, 8, 23260-23272. (**▲:7**; SCI; **IF:5.8** at 2025; Ranking:148/472=31.4% in Materials Science, Multidisciplinary)

24. Kumar Gokulkumar, Sakthivel Kogularasu, Shih-Hsuan Chen, Guo-Ping Chang-Chien, Wan-Ching Lin, Yung-Lung Chen*, and Kun-Mu Lee*, "Sustainable Surfactant-Free Synthesis of $MnMoO_4$/Carbon Nanofiber Composite for Highly Sensitive Detection of Nimesulide in Biological and Pharmaceutical Matrices", **2025**, ***ACS Applied Bio Materials***, 8, 8864-8879. (**▲ :8**; SCI; **IF:5.6** at 2025; Ranking:21/58=36.2% in Materials Science, Biomaterials)

25. Yu-Ching Huang*, Zhi-Hao Huang, Bo-Chen Chen, Hou-Chin Cha, and Kun-Mu Lee*, "Solid Additive-Enhanced Performance in Near-Infrared Organic Photodetectors for Broadband-Narrowband Dual-Mode Detection", **2025**, ***Journal of Materials Chemistry C***, 13, 19174-19182. (**▲ :2**; SCI; **IF:5.1** at 2025; Ranking:51/191=26.7% in Physics, Applied) **(Selected as a front cover of Journal of Materials Chemistry C!!)**



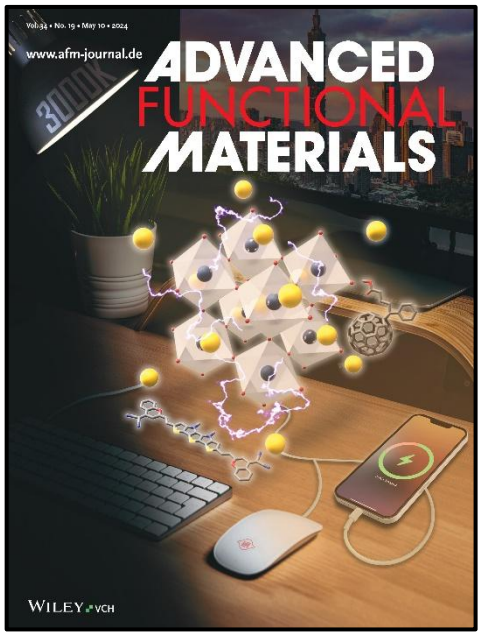
26. Chia-Yuan Chen*, Yu-Fan Chang, Yen-Chen Shih, Ying-Chuan Liu, Chi-Feng Chiu, Rahma Rahayu Dinarlita, Tsung-Yu Tsai, Chieh-Ming Hung, Hou-Chin Cha, You-Ren Chen, Zhi-Hao Huang, Yu-Cheng Zhang, Hui-Chieh Lin, Wei-Chen Chu, Wei-Hao Chiu, Sie-Rong Li, Ting-Jui Chang, Yi-Hong Liao, Siti Utari Rahayu, Bo-Yu Han, Yun-Tou Lin, Pei-Ling Wang, Zi-Ting Liao, Jhao-Yun Tsai, Zhong-En Shi, Chia-Tse Hsu, Po-Shun Hsu, Po-Yuan Chen, Jia-Zhen Li, Anjali Thakran, Yu-Ting Chen, Yu-Sheng Li, Hao-Wei Yu, Chu-Chen Chueh*, Tzung-Fang Guo*, Chih-Wei Chu*, Leeyih Wang*, Kuo-Chuan Ho*, Fang-Chung Chen*, Chih-Ping Chen*, Yian Tai*, Chun-Ting Li*, Ming-Way Lee*, Chih-Liang Wang*, Shih-Sheng Sun*, Kun-Mu Lee*, Zong-Liang Tseng*, Yu-Ching Huang*, Pi-Tai Chou*, Chung-Wen Ko*, and Chun-Guey Wu*, "Round-Robin Interlaboratory Comparison of Large-Area Organic Thin-Film and Perovskite Solar Cells", **2025**, ***Solar RRL***, e202500538. (**▲:1**; SCI; **IF:4.8** at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)

27. Kun-Mu Lee*, 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*, Hsiao-Chi Hsieh*, Chih-Wei Hu, Chih-Hung Chen, Jian-Ming Chiu, Kang-Ling Liau, Gao Chen, Yun-Shuo Liu, Shih-Sheng Sun*, and Yan-Duo Lin*, "Asymmetric Fluorinated Cyclopenta[2,1-b:3,4-b']Dithiophene-Based Hole-Transporting Materials for Perovskite Solar Cell", **2025, *Chemistry-An Asian Journal***, 20, e00719. (**▲:0**; SCI; **IF:3.2** at 2025; Ranking:121/250=48.4% in Chemistry, Multidisciplinary)

28. Min-Ling Cao, Kun-Mu Lee, Xiao-Wei Wu, Wei-Lun Yu, and Ching-Yuan Liu *, "Regio- and Chemo-selective C-H Arylation of 3-Bromothiophene: A Synthesis Shortcut to Versatile π-Conjugated Building Blocks for Optoelectronic Materials", **2025, *Chemistry-An Asian Journal***, 20, e202401116. (**▲:1**; SCI; **IF:3.2** at 2025; Ranking:121/250=48.4% in Chemistry, Multidisciplinary)

2024-

29. Bing-Huang Jiang, Zhen-Jie Gao, Chien-Yu Lung, Zhong-En Shi, He-Yun Du, Yu-Wei Su, Hui-Shan Shih, Kun-Mu Lee, Hsin-Huai Hung, Choon Kit Chan, Chih-Ping Chen,* and Ken-Tsung Wong*, "Enhancing the Efficiency of Indoor Perovskite Solar Cells through Surface Defect Passivation with Coplanar Heteroacene Cored A-D-A-type Molecules", **2024**, ***Advanced Functional Materials***, 34, 2312819. (**▲ :45**; SCI; **IF:19.9** at 2025; Ranking:11/250=4.4% in Chemistry, Multidisciplinary) **(Selected as a back cover of Advanced Functional Materials!!)**



30. Seoungjun Ahn, Wei-Hao Chiu, Wei-Chen Chu, Pei-Yu Chen, Ting-Han Lin, and Kun-Mu Lee*, "A Systematic Investigation of PVDF-HFP in Perovskite Solar Cells for Improved Space Mission Reliability", **2024**, ***Chemical Engineering Journal***, 496, 153974. (**▲:11**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

31. Wei-Hao Chiu, Ying-Kai Huang, Shih-Hsuan Chen, Ming-Chung Wu, Gao Chen, and Kun-Mu Lee*, "Exploring the Efficiency Enhancement of Perovskite Solar Cells by Chemical Bath Depositing SnO_2 on Mesoporous TiO_2 Electrode", **2024**, ***Materials Today Chemistry***, 41, 102329. (**▲:11**; SCI; **IF:7.4** at 2025; Ranking:57/250=22.8% in Chemistry, Multidisciplinary)

32. Gizachew Belay Adugna, Kun-Mu Lee*, Hsiao-Chi Hsieh*, Shih-I Lu*, Chia-Hui Lin, Yu-Chien Hsieh, Hune Hung Yang, Jian-Ming Chiu, Yun-Shuo Liu, Chih-Wei Hu, Wei-Hao Chiu, Sie-Rong Li, Kang-Ling Liau, Yu-Tai Tao, and Yan-Duo Lin*, "Fluorination of Star-Shaped Cyclopenta[2,1-b;3,4-b 0]dithiophene Derivatives and Its Application as Hole-Transporting Materials in Scalable Perovskite Solar Cell Fabrication by Bar Coating", **2024**, ***Solar RRL***, 8, 2300988. (**▲:9**; SCI; **IF:4.8** at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)

33. Kai-Chi Hsiao†, Ching-Mei Ho†, Ting-Han Lin, Shih-Hsuan Chen, Yin-Hsuan Chang, Ying-Han Liao, Jia-Mao Chang, Tz-Feng Lin*, Yu-Ching Huang*, Kun-Mu Lee*, and Ming-Chung Wu*, "Ceiling of Barium Substitution for B-Site Cation in Organometal Halide Perovskite Solar Cells", **2024**, ***International Journal of Energy Research***, 2024, 9990559. (**▲:4**; SCI; **IF:4.2** at 2025; Ranking:2/42=4.8% in Nuclear Science & Technology)

34. Ying-Han Liao†, Yin-Hsuan Chang†, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu*, "Recent Advances in Metal Oxide Electron Transport Layers for Enhancing the Performance of Perovskite Solar Cells", **2024**, ***Materials***, 17, 2722. (**▲:30**; SCI; **IF:3.7** at 2025; Ranking:25/97=25.8% in Metallurgy & Metallurgical Engineering)

35. Chia- Chi- Hsu†, Kun-Mu Lee†, Xiao-Wei Wu, Li Lin, Wei-Lun Yu, and Ching-Yuan Liu*, "Hole-Transporting Materials based on Oligo(hetero)aryls with a Naphthodithiophene Core-Succinct Synthesis by Twofold Direct C-H Olefination", **2024**, ***Chemistry-A European Journal***, 30, e202302552. (**▲:3**; SCI; **IF:3.6** at 2025; Ranking:110/250=44.0% in Chemistry, Multidisciplinary)

2023-

36. Kun-Mu Lee, Yao-Shen Huang, Wei-Hao Chiu, Ying-Kai Huang, Gao Chen, Gizachew Belay Adugna, Sie Rong Li, Fang Ju Lin, Shih-I Lu, Hsiao-Chi Hsieh, Kang-Ling Liau, Chun-Cheng Huang, Yian Tai, Yu-Tai Tao, and Yan-Duo Lin*, "Fluorinated Pentafulvalene-Fused Hole-Transporting Material Enhances the Performance of Perovskite Solar Cells with Efficiency Exceeding 23%", **2023**, ***Advanced Functional Materials***, 33, 230637. (**▲ :32**; SCI; **IF:19.9** at 2025; Ranking:11/250=4.4% in Chemistry, Multidisciplinary)

37. Kun-Mu Lee*, Seid Yimer Abate, June Hung Yang, Wei-Hao Chiu, Seoungjun Ahn, Sie-Rong Li, Kang-Ling Liau, Yu-Tai Tao*, and Yan-Duo Lin*, "Facile Synthesis of Spiro-Core Based Hole Transporting High-Performance and Stable Perovskite Solar Cells", **2023**, ***Chemical Engineering Journal***, 454, 139926. (**▲:33**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

38. Kai-Chi Hsiao, Yen-Fu Yu, Ching-Mei Ho, Meng-Huan Jao, Yu-Hsiang Chang, Shih-Hsuan Chen, Yin-Hsuan Chang, Wei-Fang Su, Kun-Mu Lee*, and Ming-Chung Wu*, "Doping Engineering of Carrier Transporting Layers for Ambient-Air-Stable Lead-Free Rudorffite Solar Cells Prepared by Thermal-Assisted Doctor Blade Coating", **2023**, ***Chemical Engineering Journal***, 451, 138807. (**▲:21**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

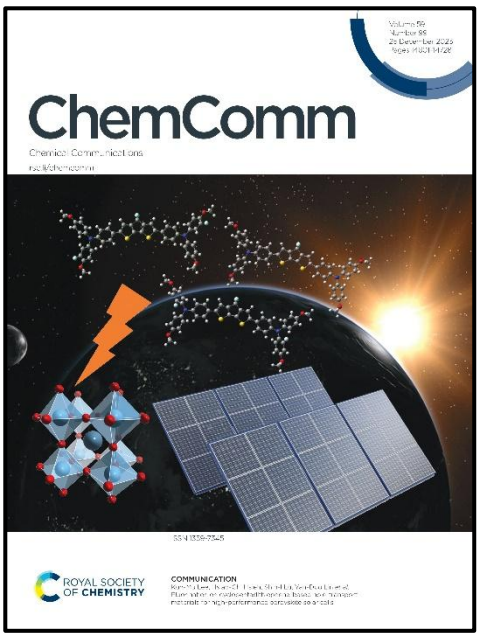
39. Yu-Ching Huang*, Zhi-Hao Huang, Tai-Yung Wang, Priyanka Chaudhary, Jen-Fu Hsu, and Kun-Mu Lee*, "A Promising Non-Fullerene Acceptor for Near-Infrared Organic Photodetectors Operating with Low Dark Current and High Response Speed", **2023**, ***Chemical Engineering Journal***, 464, 142633. (**▲:24**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

40. Yuan-Yu Chiu, Shih-Hsuan Chen, Kun-Mu Lee, Tz-Feng Lin, and Ming-Chung Wu*, "Side Chain Modulated Carbazole-Based Bifunctional Hole-Shuttle Improves Interfacial Energy Level Alignment and Defect Passivation in High-Efficiency Perovskite Solar Cells", **2023**, ***Chemical Engineering Journal***, 477, 147208. (**▲:13**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

41. Dharuman Chandrasekaran, Shih-Jyun Liou, Wei-Hao Chiu, Lee-Che Lee, Kun-Mu Lee*, Yi-Chen Wu, Hsien-Hsin Chou, Yuan-Jay Chang*, and Yung-Sheng Yen*, "Ladder-Type Dihydronaphtho[1, 2, 3, 4,-rst]pentaphene as Building Block to Construct Hole-Transporting Materials for Perovskite Solar Cells", **2023**, ***Journal of Power Sources***, 581, 233496. (**▲:9**; SCI; **IF:8.4** at 2025, Ranking:7/44=15.9% in Electrochemistry)

42. Ming-Chung Wu*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, Ting-Han Lin, Jia-Mao Chang, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Kun-Mu Lee*, "Modulating Incident Light for Improved CO_2 Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films with Exotic Gold Nanoparticles", **2023**, ***Materials Science in Semiconductor Processing***, 162, 107505. (**▲:2**; SCI; **IF:5.2** at 2025; Ranking:85/369=23.0% in Engineering, Electrical & Electronic)

43. aaGizachew Belay Adugna†, Kun-Mu Lee*†, Hsiao-Chi Hsieh*, Shih-I Lu*, Yu-Chien Hsieh, Hune Hung Yang, Wei-Hao Chiu, Kang-Ling Liau, Yu-Tai Tao, and Yan-Duo Lin*, "Fluorination on Cyclopentadithiophene-Based Hole-Transport Material for High-Performance Perovskite Solar Cells", **2023**, ***Chemical Communications***, 59, 14653-14656. (**▲:10**; SCI; **IF:4.3** at 2025; Ranking:98/250=39.2% in Chemistry, Multidisciplinary) **(Selected as an inside front cover of Chemical Communications!!)**



44. Li-Lin, Wei-Hao Chiu, Ming-Ling Cao, Kun-Mu Lee, Wei-Lun Yu, and Ching-Yuan Liu*, "New Molecular Design, Step-Saving Synthesis, and Applications of Indolocarbazole Core-Based Oligo(hetero)arenes", **2023, *Chemistry-An Asian Journal***, 18, e202300681. (**▲:1**; SCI; **IF:3.2** at 2025; Ranking:121/250=48.4% in Chemistry, Multidisciplinary)

45. Seoungjun Ahn, Wei-Hao Chiu, Hsin-Ming Cheng, Vembu Suryanarayanan, Gao Chen, Yu-Ching Huang*, Ming-Chung Wu*, and Kun-Mu Lee*, "Enhancing Efficiency and Stability of Perovskite Solar Cells Through Two-Step Deposition Method with the Addition of Cesium Halides to PbI_2 Precursor", **2023, *Organic Electronics***, 120, 106847. (**▲: 10**; SCI; **IF:2.9** at 2025; Ranking:96/196=49.0% in Physics, Applied)

2022-

46. Kun-Mu Lee, Wei-Hao Chiu, Yu-Hsiang Tsai, Chao-Shian Wang, Yu-Tai Tao, and Yan-Duo Lin*, "High-Performance Perovskite Solar Cells Based on Dopant-Free Hole-Transporting Material Fabricated by a Thermal-Assisted Blade-Coating Method with Efficiency Exceeding 21%", **2022**, ***Chemical Engineering Journal***, 427, 131609. (**▲:53**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

47. Shih-Hsuan Chen, Ching-Mei Ho, Yin-Hsuan Chang, Kun-Mu Lee, and Ming-Chung Wu*, "Efficient Perovskite Solar Cells with Low J-V Hysteretic Behavior on Mesoporous Sn-Doped TiO_2 Electron Extraction Layer", **2022**, ***Chemical Engineering Journal***, 445, 136761. (**▲:31**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

48. Dharuman Chandrasekaran, Wei-Hao Chiu, Kun-Mu Lee*, Jian-Ming Liao, Hsien-Hsin Chou*, and Yung-Sheng Yen*, "Effect of Thiophene Insertion on X-Shaped Anthracene-Based Hole-Transporting Materials in Perovskite Solar Cells", **2022**, ***Polymers***, 14, 1580. (**▲:2**; SCI; **IF:5.8** at 2025; Ranking:18/96=18.8% in Polymer Science)

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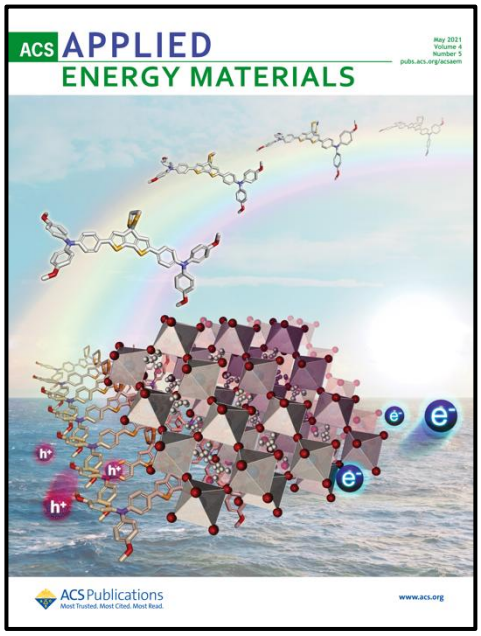

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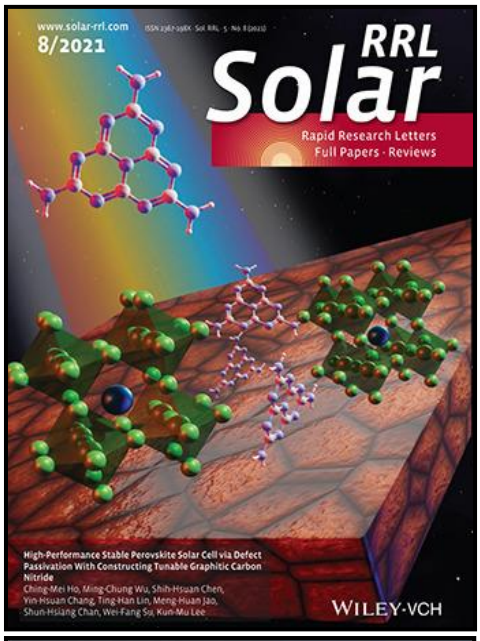

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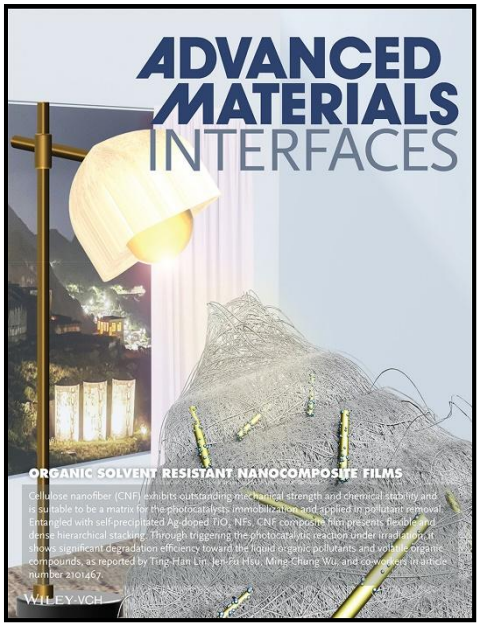

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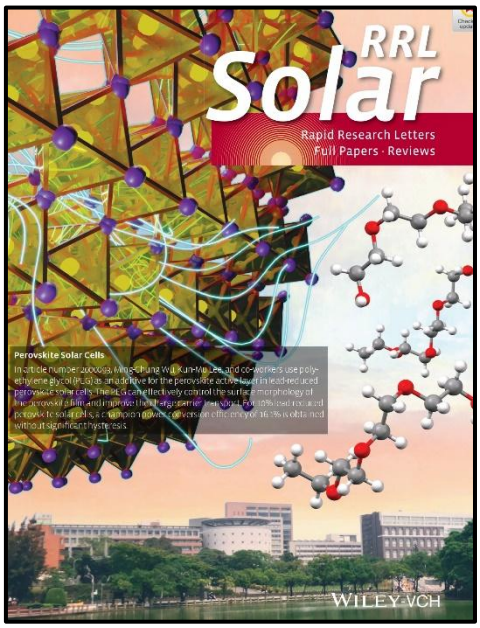

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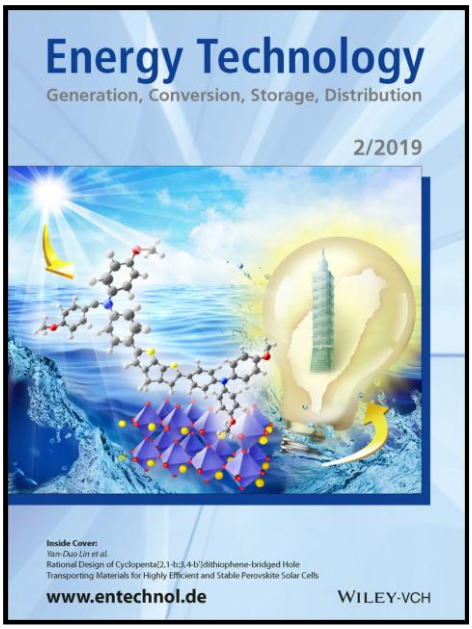

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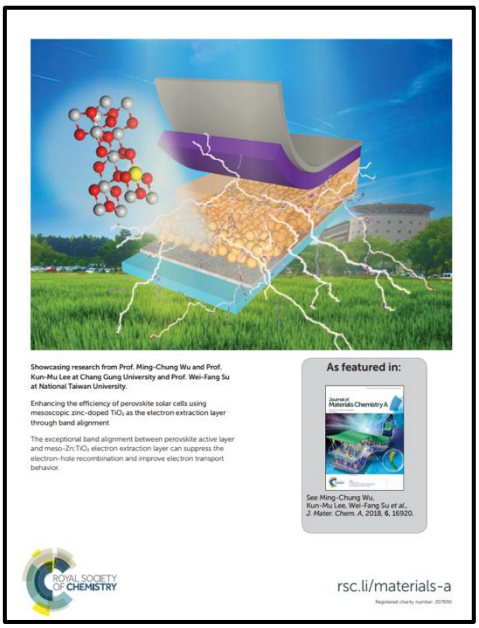

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