

Prof. Kun-Mu Lee of Chang Gung University (Update 2026/05/05)

SCI Journal Paper

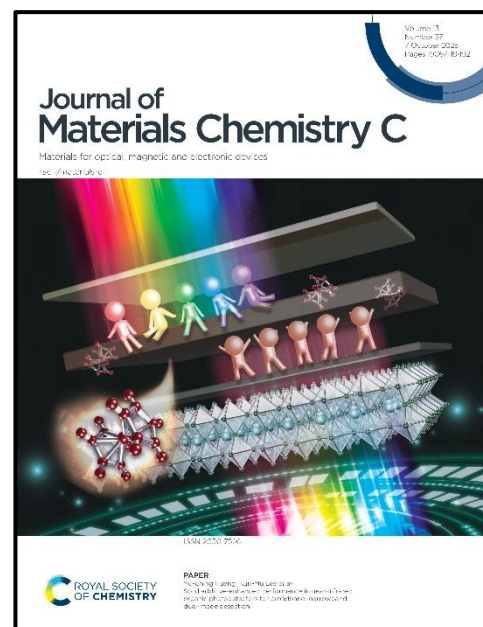
2026-

1. Neeraja Bose†, Kumar GokulKumart†, 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:8.6 at 2024, Ranking:78/461=16.9% in Materials Science, Multidisciplinary)
2. Iqra Shaheen†, Wei-Hao Chiu†, Yu-Xian Leet†, 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:7.9 at 2024, Ranking:7/44=15.9% in Electrochemistry)
3. 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:6.6 at 2024; Ranking:51/182=28.0% in Energy & Fuels)
4. 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. (▲:0; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)
5. 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:2.7 at 2024; Ranking:15/57=26.3% in Chemistry, Organic)
6. 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)

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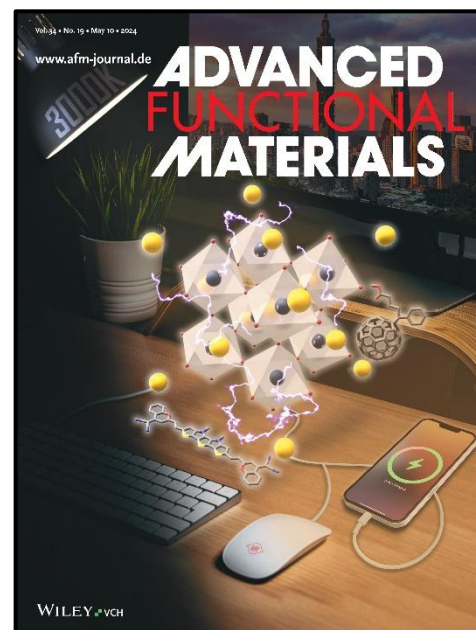
7. Kun-Mu Lee, Chia-Hui Lin, Chia-Chi Chang, Ting-Yu Yang, Wei-Hao Chiu, Wei-Chen Chu, Ya-Ho Chang, Sie-Rong Li, Shih-I Lu, Hsiao-Chi Hsieh, Kang-Ling Liau, Chia Hui Hu, Chih-Hung Chen, Yun-Shuo Liu, Wei-Chun Chou, Mandy M. Lee, Shih-Sheng Sun, Yu-Tai Tao, and Yan-Duo Lin*, "Judicious Molecular Design 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. (▲:0; SCI; IF:14.1 at 2024; Ranking:33/460=7.2% in Materials Science, Multidisciplinary)
8. 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. (▲:2; SCI; IF:12.1 at 2024; Ranking:14/187=7.5% in Physics, Applied)
9. 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. (▲:0; SCI; IF:9.0 at 2024; Ranking:16/175=9.1% in Engineering, Chemical)

10. 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 Er₂MoO₆ Nanomaterials for Environmental Monitoring", **2025, *Journal of Water Process Engineering***, 78, 108757. (▲:0; SCI; IF:6.7 at 2024; Ranking:9/131=6.9% in Water Resources)
11. 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. (▲:0; SCI; IF:6.1 at 2024; Ranking:5/23=21.7% in Materials Science, Coatings & Films)
12. 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. (▲:0; SCI; IF:5.1 at 2024; Ranking:45/187=24.1% in Physics, Applied) **(Selected as a front cover of *Journal of Materials Chemistry C*!!)**
13. 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 MnMoO₄/Carbon Nanofiber Composite for Highly Sensitive Detection of Nimesulide in Biological and Pharmaceutical Matrices", **2025, *ACS Applied Bio Materials***, 8, 8864-8879. (▲:0; SCI; IF:4.7 at 2024; Ranking:58/147=39.5% in Nanoscience & Nanotechnology)
14. 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. (▲:0; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
15. 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:3.3 at 2024; Ranking:102/239=42.7% 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", **2025, *Chemistry-An Asian Journal***, 0, e70245. (▲:0; SCI; IF:3.3 at 2024; Ranking:102/239=42.7% in Chemistry, Multidisciplinary)



2024-

17. 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. (▲:30; SCI; IF:19.0 at 2024; Ranking:9/187=4.8% in Physics, Applied) **(Selected as a back cover of *Advanced Functional Materials*!!)**
18. 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. (▲:2; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
19. 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 SnO₂ on Mesoporous TiO₂ Electrode", **2024, *Materials Today Chemistry***, 41, 102329. (▲:2; SCI; IF:6.7 at 2024; Ranking:46/239=19.2% in Chemistry, Multidisciplinary)
20. 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 Liao, Yu-Tai Tao, and Yan-Duo Lin*, "Fluorination of Star-Shaped Cyclopenta[2,1-b;3,4-b O]dithiophene Derivatives and Its Application as Hole-Transporting Materials in Scalable Perovskite Solar Cell Fabrication by Bar Coating", **2024, *Solar RRL***, 8, 2300988. (▲:1; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
21. 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. (▲:3; SCI; IF:4.2 at 2024; Ranking:1/41=2.4% in Nuclear Science & Technology)
22. 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. (▲:1; SCI; IF:3.7 at 2024; Ranking:95/239=39.7% in Chemistry, Multidisciplinary)
23. 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. (▲:4; SCI; IF:3.2 at 2024; Ranking:25/96=26.0% in Metallurgy & Metallurgical Engineering)



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24. 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 Liao, 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. (▲:21; SCI; IF:19.0 at 2024; Ranking:9/187=4.8% in Physics, Applied)
25. Kun-Mu Lee*, Seid Yimer Abate, June Hung Yang, Wei-Hao Chiu, Seoungjun Ahn, Sie-Rong Li, Kang-Ling Liao, 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. (▲:25; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
26. 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. (▲:17; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
27. 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. (▲:18; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
28. 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. (▲:8; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
29. 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. (▲:3; SCI; IF:7.9 at 2024, Ranking:7/44=15.9% in Electrochemistry)
30. 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 CO₂ Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films with Exotic Gold Nanoparticles", **2023, *Materials Science in Semiconductor Processing***, 162, 107505. (▲:1; SCI; IF:4.6 at 2024; Ranking:95/336=28.3% in Engineering, Electrical & Electronic)
31. aaGizachew Belay Adugna†, Kun-Mu Lee*†, Hsiao-Chi Hsieh*, Shih-I Lu*, Yu-Chien Hsieh, Hune Hung Yang, Wei-Hao Chiu, Kang-Ling Liao, 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. (▲:3; SCI; IF:4.2 at 2024; Ranking:84/239=35.1% in Chemistry, Multidisciplinary) **(Selected as an inside front cover of *Chemical Communications*!!)**



32. 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. (▲:0; SCI; IF:3.3 at 2024; Ranking:102/239=42.7% in Chemistry, Multidisciplinary)

33. 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 Pbl₂ Precursor", **2023, *Organic Electronics***, 120, 106847. (▲:5; SCI; IF:2.6 at 2024; Ranking:97/187=51.9% in Physics, Applied)

2022-

34. [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. (▲:46; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

35. 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 TiO₂ Electron Extraction Layer", **2022, *Chemical Engineering Journal***, 445, 136761. (▲:27; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

36. 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:4.9 at 2024; Ranking:19/94=20.2% in Polymer Science)

37. Shun-Hsiang Chan, Yin-Hsuan Chang, Meng-Huan Jao, Kai-Chi Hsiao, [Kun-Mu Lee](#), Chao-Sung Lai, and Ming-Chung Wu*, "High Efficiency Quasi-2D/3D Pb-Ba Perovskite Solar Cells via PEACl Addition", **2022, *Solar RRL***, 6, 2101098. (▲:6; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)

38. Chen-Hsin Tu†, [Kun-Mu Lee†](#), Jui-Heng Chen, Chia-Hua Chiang, Shen-Chieh Hsu, Ming-Wei Hsu, and Ching-Yuan Liu*, "Pd-Free Synthesis of Dithienothiophene-Based Oligoaryls for Effective Hole-Transporting Materials by Optimized Cu-Catalyzed Annulation and Direct C-H Arylation", **2022, *Organic Chemistry Frontiers***, 9, 2821-2829. (▲:7; SCI; IF:4.7 at 2024; Ranking:5/57=8.8% in Chemistry, Organic)

39. [Kun-Mu Lee*†](#), Shun-Hsiang Chan*†, Chang-Chieh Ting, Shih-Hsuan Chen, Wei-Hao Chiu, Vembu Suryanarayanan, Jen-Fu Hsu, Ching-Yuan Liu*, and Ming-Chung Wu*, "Surfactant Tween 20 Controlled Perovskite Film Fabricated by Thermal Blade Coating for Efficient Perovskite Solar Cells", **2022, *Nanomaterials***, 12, 2651. (▲:8; SCI; IF:4.3 at 2024; Ranking:57/187=30.5% in Physics, Applied)

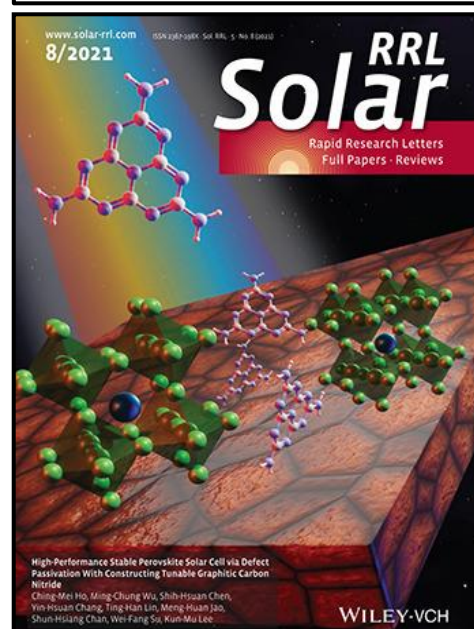
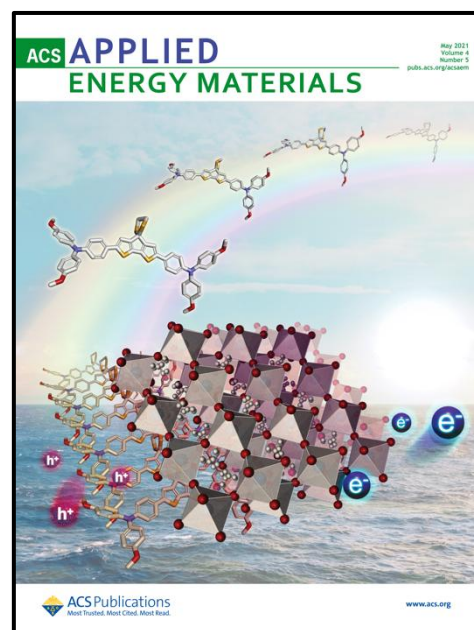
40. Zhi-Hao Huang, Madhuja Layek, Chia-Feng Li, Yu-Ching Huang*, and [Kun-Mu Lee*](#), "Cesium Lead Bromide Nanocrystals: Synthesis, Modification, and Application to O₂ Sensing", **2022, *Sensors***, 22, 8853. (▲:2; SCI; IF:3.5 at 2024; Ranking:24/79=30.4% in Instruments & Instrumentation)

41. Chien-Chung Hsu†, Seng-Min Yu†, [Kun-Mu Lee*†](#), Chuan-Jung Lin†, Bo-Yi Liou, and Fu-Rong Chen*, "Oxidized Nickel to Prepare an Inorganic Hole Transport Layer for High-Efficiency and Stability of CH₃NH₃PbI₃ Perovskite Solar Cells", **2022, *Energies***, 15, 919. (▲:4; SCI; IF:3.2 at 2024; Ranking:112/182=61.5% in Energy & Fuels)

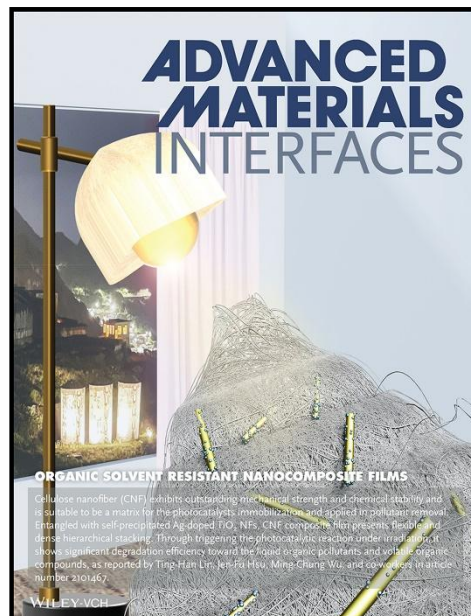
42. Li Lin, Chia-Chi Hsu, [Kun-Mu Lee*](#), Mei-Yu Lin, Yi-Kai Peng, and Ching-Yuan Liu*, "New Benzotrithiophene-Based Hole Transporting Materials for Perovskite Solar Cells: Succinct Synthesis and PCE Improvement", **2022, *ChemistrySelect***, 7, e202202472. (▲:1; SCI; IF:2.0 at 2024; Ranking:148/239=61.9% in Chemistry, Multidisciplinary)

2021-

43. Kun-Mu Lee*, Shun-Hsiang Chan, Min-Yao Hou, Wei-Cheng Chu, Shih-Hsuan Chen, Sheng-Min Yu, and Ming-Chung Wu*, "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Thermal Assisted Blade Coating Method", 2021, *Chemical Engineering Journal*, 405, 126992. (▲:26; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
44. Ching-Yuan Liu*, Po-Han Lin, and Kun-Mu Lee, "Development of Step-Saving Alternative Synthetic Pathways for Functional π -Conjugated Materials", 2021, *Chemical Record*, 21, 1-12. (▲:12; SCI; IF:7.5 at 2024; Ranking:42/239=17.6% in Chemistry, Multidisciplinary)
45. Chien-Chung Hsu, Sheng-Min Yu, Kun-Mu Lee, Chuan-Jung Lin, Hao-Chien Cheng, Fu-Rong Chen*, "Solid-State Reaction Process for High-Quality Organometallic Halide Perovskite Thin Film", 2021, *Solar Energy Materials and Solar Cells*, 227, 111014. (▲:6; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)
46. Ting-Han Lin†, Ming-Chung Wu*†, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu*, and Kun-Mu Lee*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO₂ Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", 2021, *Journal of the Taiwan Institute of Chemical Engineers*, 120, 291-299. (▲:16; SCI; IF:6.3 at 2024; Ranking:31/175=17.7% in Engineering, Chemical)
47. Yan-Duo Lin*, Kun-Mu Lee*, Sheng-Hsiung Chang, Tsung-Yu Tsai, Hsin-Cheng Chung, Chien-Chun Chou, Heng-Yu Chen, Tahsin J. Chow*, and Shih-Sheng Sun*, "Molecularly Engineered Cyclopenta[2, 1-b;3, 4-b']dithiophene-Based Hole-Transporting Materials for High-Performance Perovskite Solar Cells with Efficiency over 19%", 2021, *ACS Applied Energy Materials*, 4, 4719-4728. (▲:23; SCI; IF:5.5 at 2024; Ranking:135/460=29.3% in Materials Science, Multidisciplinary) **(Selected as an inside cover of ACS Applied Energy Materials!!)**
48. Yi-Jen Huang, Chien-Lin Huang*, Ruo-Yu Lai, Cheng-Han Zhuang, Wei-Hao Chiu, and Kun-Mu Lee*, "Microstructure and Biological Properties of Electrospun In Situ Polymerization of Polycaprolactone-Graft-Polyacrylic Acid Nanofibers and Its Composite Nanofiber Dressings", 2021, *Polymers*, 13, 4246. (▲:13; SCI; IF:4.9 at 2024; Ranking:19/94=20.2% in Polymer Science)
49. Ching-Mei Ho, Ming-Chung Wu*, Shih-Hsuan Chen, Yin-Hsuan Chang, Ting-Han Lin, Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee*, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", 2021, *Solar RRL*, 2021, 2100257. (▲:14; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**
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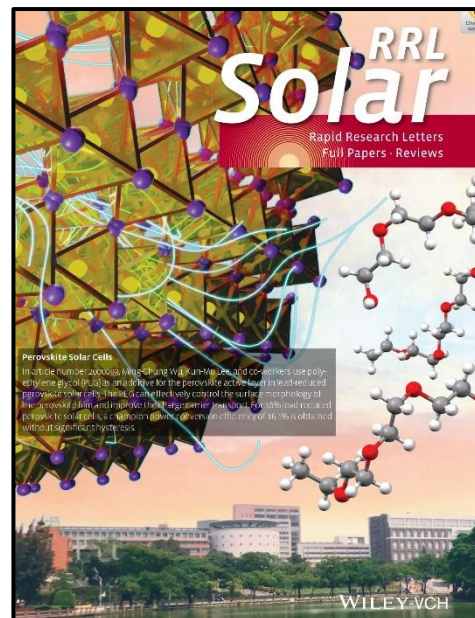
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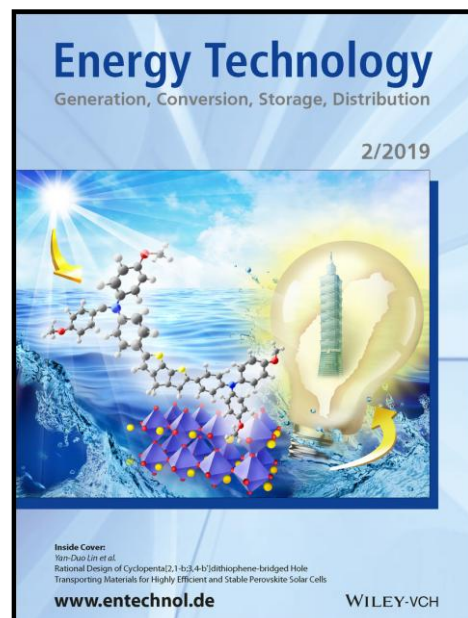
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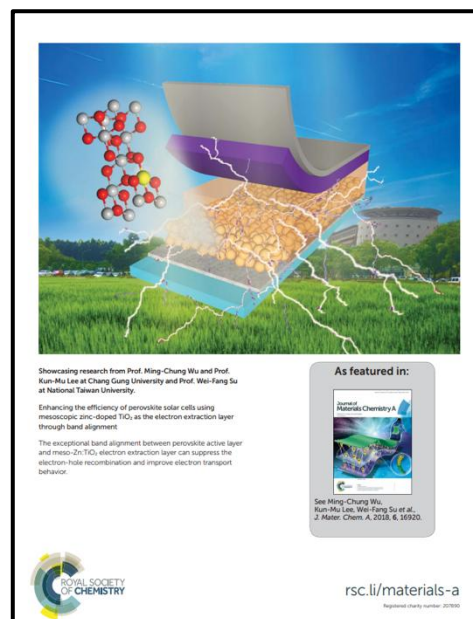


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