Prof. Kun-Mu Lee of Chang Gung University (Update 2025/02/26)

SCI Journal Paper

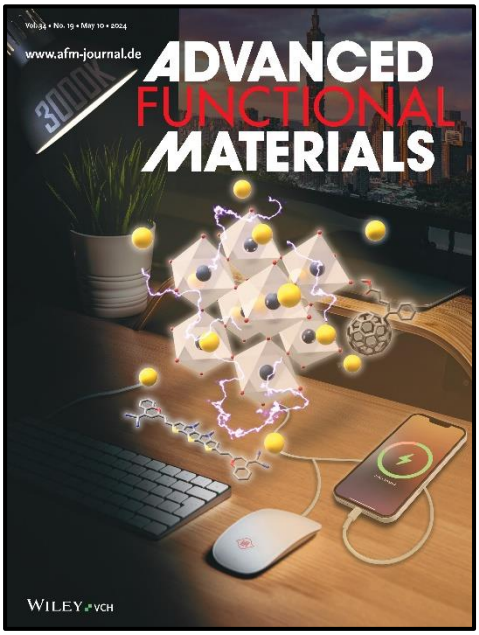
2025-

1. 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:14.3** at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)

2. 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***, 2025, 2410418. (▲**:0**; SCI; **IF:13.0** at 2023; Ranking:14/179=7.8% in Physics, Applied)

2024-

3. 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. (▲**:1**; SCI; **IF:18.5** at 2023; Ranking:9/231=3.9% in Chemistry, Multidisciplinary) **(Selected as a back cover of Advanced Functional Materials!!)**



4. 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. (▲**:0**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

5. 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. (▲**:0**; SCI; **IF:6.7** at 2023; Ranking:43/231=18.6% in Chemistry, Multidisciplinary)

6. 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. (▲**:0**; SCI; **IF:6.0** at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)

7. 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. (▲**:2**; SCI; **IF:4.3** at 2023; Ranking:4/40=10.0% in Nuclear Science & Technology)

8. 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. (▲**:0**; SCI; **IF:3.9** at 2023; Ranking:89/231=38.5% in Chemistry, Multidisciplinary)

9. 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. (▲**:0**; SCI; **IF:3.1** at 2023; Ranking:25/91=27.5% in Metallurgy & Metallurgical Engineering)

2023-

10. 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. (▲**:0**; SCI; **IF:18.5** at 2023; Ranking:9/231=3.9% in Chemistry, Multidisciplinary)

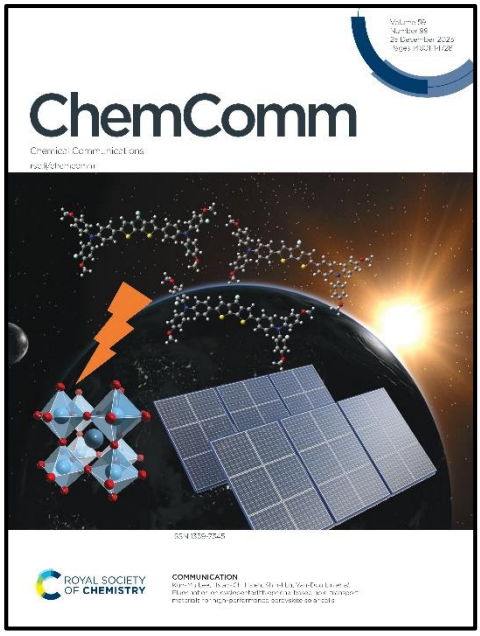
11. Kun-Mu Lee*, Seid Yimer Abate, June Hung Yang, Wei-Hao Chiu, Seoungjun Ahn, Sie-Rong Li, Kang-Ling Liau, Yu-Tai Tao*, and Yan-Duo Lin*, "Facile Synthesis of Spiro-Core Based Hole Transporting High-Performance and Stable Perovskite Solar Cells", **2023**, ***Chemical Engineering Journal***, 454, 139926. (▲**:13**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

12. 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. (▲**:12**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

13. 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. (▲**:8**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

14. 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. (▲**:3**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

15. 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. (▲**:2**; SCI; **IF:8.1** at 2023, Ranking:6/45=13.3% in Electrochemistry)



16. Gizachew 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. (▲**:1**; SCI; **IF:4.3** at 2023; Ranking:73/231=31.6% in Chemistry, Multidisciplinary) **(Selected as an inside front cover of Chemical Communications!!)**

17. 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. (▲**:1**; SCI; **IF:4.2** at 2023; Ranking:19/79=24.1% in Physics, Condensed Matter)

18. 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:3.5** at 2023; Ranking:110/231=47.6% in Chemistry, Multidisciplinary)

19. 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. (▲**:1**; SCI; **IF:2.7** at 2023; Ranking:77/179=43.0% in Physics, Applied)

2022-

20. 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. (▲**:38**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

21. 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. (▲**:17**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

22. 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. (▲**:5**; SCI; **IF:6.0** at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)

23. 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:4.7** at 2023; Ranking:17/94=18.1% in Polymer Science)

24. 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 Dirtect C-H Arylation", **2022**, ***Organic Chemistry Frontiers***, 9, 2821-2829. (▲**:0**; SCI; **IF:4.6** at 2023; Ranking:5/58=8.6% in Chemistry, Organic)

25. 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. (▲**:3**; SCI; **IF:4.4** at 2023; Ranking:60/179=33.5% in Physics, Applied)

26. Zhi-Hao Huang, Madhuja Layek, Chia-Feng Li, Yu-Ching Huang*, and Kun-Mu Lee*, "Cesium Lead Bromide Nanocrystals: Synthesis, Modification, and Application to O_2 Sensing", **2022**, ***Sensors***, 22, 8853. (▲**:1**; SCI; **IF:3.4** at 2023; Ranking:27/106=25.5% in Chemistry, Analytical)

27. 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 $CH_3NH_3PbI_3$ Perovskite Solar Cells", **2022**, ***Energies***, 15, 919. (▲ **:4**; SCI; **IF:3.0** at 2023; Ranking:115/173=66.5% in Energy & Fuels)

28. 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:1.9** at 2023; Ranking:140/231=60.6% in Chemistry, Multidisciplinary)

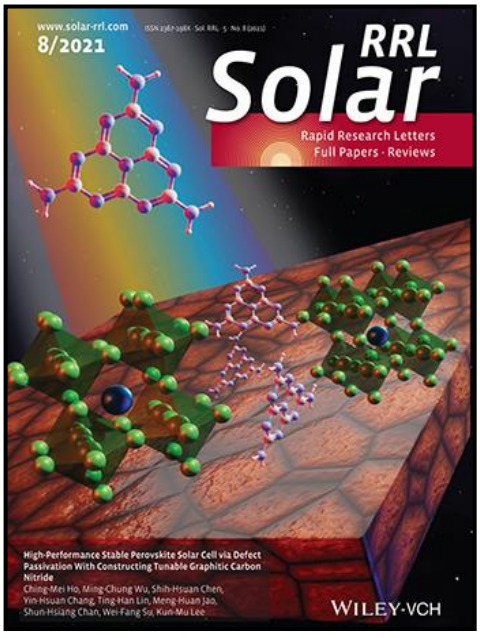
2021-

29. 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. (▲**:18**; SCI; **IF:13.3** at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

30. 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. (▲**:10**; SCI; **IF:7.0** at 2023; Ranking: 45/230=19.6% in Chemistry, Multidisciplinary)

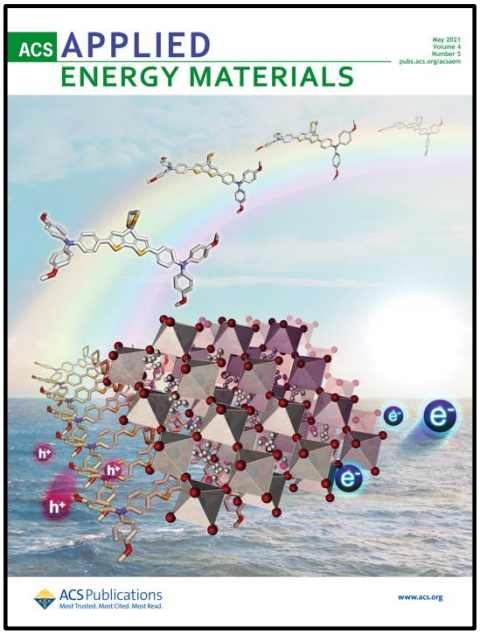
31. Chien-Chung Hsu, Sheng-Min Yu, Kun-Mu Lee, Chuan-Jung Lin, Hao-Chien Cheng, Fu-Rong Chen*, "Solid-State Reaction Process for High-Quality Organometallic Halide Perovskite Thin Film", **2021, *Solar Energy Materials and Solar Cells***, 227, 111014. (▲**:3**; SCI; **IF:6.3** at 2023; Ranking:27/179=15.1% in Physics, Applied)

32. 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. (▲**:9**; SCI; **IF:6.0** at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**



33. 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 TiO_2 Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021**, ***Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲**:10**; SCI; **IF:5.5** at 2023; Ranking:37/171=21.6% in Engineering, Chemical)

34. 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. (▲**:13**; SCI; **IF:5.4** at 2023; Ranking:49/178=27.5% in Chemistry, Physical) **(Selected as an inside cover of ACS Applied Energy Materials!!)**

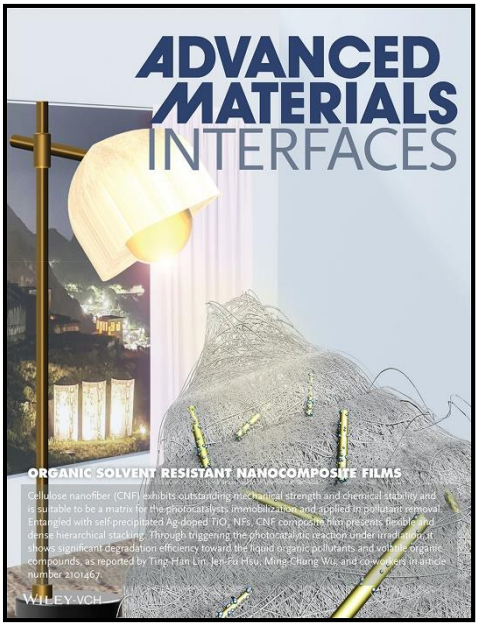


35. Yi-Jen Huang, Chien-Lin Huang*, Ruo-Yu Lai, Cheng-Han Zhuang, Wei-Hao Chiu, and Kun-Mu Lee*, "Microstructure and Biological Properties of Electrospun In Situ Polymerization of Polycaprolactone-Graft-Polyacrylic Acid Nanofibers and Its Composite Nanofiber Dressings", **2021**, ***Polymers***, 13, 4246. (▲**:9**; SCI; **IF:4.7** at 2023; Ranking:17/94=18.1% in Polymer Science)

36. Kun-Mu Lee*, Shun-Hsiang Chan, Wei-Hao Chiu, Seoungjun Ahn, Chang-Chieh Ting, Yin-Hsuan Chang, Vembu Suryanarayanan, Ming-Chung Wu*, and Ching-Yuan Liu*, "Reduced Defect in Organic-Lead Halide Perovskite Film by De-Layer Thermal Annealing Combined with KI/I_2 for Efficient Perovskite Solar Cells", **2021**, ***Nanomaterials***, 11, 1607. (▲**:6**; SCI; **IF:4.4** at 2023; Ranking:60/179=33.5% in Physics, Applied)

37. Wei-Hao Chiu, Kun-Mu Lee*, Vembu Suryanarayanan, Jen-Fu Hsu*, and Ming-Chung Wu*, "Controlled Photoanode Properties for Large-Area Efficient and Stable Dye-Sensitized Photovoltaic Modules", **2021**, ***Nanomaterials***, 11, 2125. (▲**:5**; SCI; **IF:4.4** at 2023; Ranking:60/179=33.5% in Physics, Applied)

38. Ting-Han Lin, Yu-Han Liao, Kun-Mu Lee, Yin-Hsuan Chang, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Ming-Chung Wu*, "Organic Solvent Resistant Nanocomposite Films Made form Self-Precipitated Ag/TiO_2 Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021**, ***Advanced Materials Interfaces***, 8, 2101467. (▲**:10**; SCI; **IF:4.3** at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**



39. Kun-Mu Lee, Jui-Yu Yang, Ping-Sheng Lai, Ke-Jyun Luo, Ting-Yu Yang, Kang-Ling Liau, Seid Yimer Abate, and Yan-Duo Lin*, "A Star-Shaped Cyclopentadithiophene-Based Dopant-Free Hole Transport Material for High-Performance Perovskite Solar Cells", **2021**, ***Chemical Communications***, 57, 6444-6447. (▲**:9**; SCI; **IF:4.3** at 2023; Ranking:73/231=31.6% in Chemistry, Multidisciplinary)

40. Jui-Heng Chen, Kun-Mu Lee*, Chang-Chieh Ting, and Ching-Yuan Liu*, "Step-Saving Synthesis of Star-Shaped Hole-Transporting Materials with Carbazole or Phenothiazine Cores via Optimized C-H/C-Br Coupling Reactions", **2021,** ***RSC Advances***, 11, 8879-8885. (▲ **:7**; SCI; **IF:3.9** at 2023; Ranking:93/231=40.3% in Chemistry, Multidisciplinary)

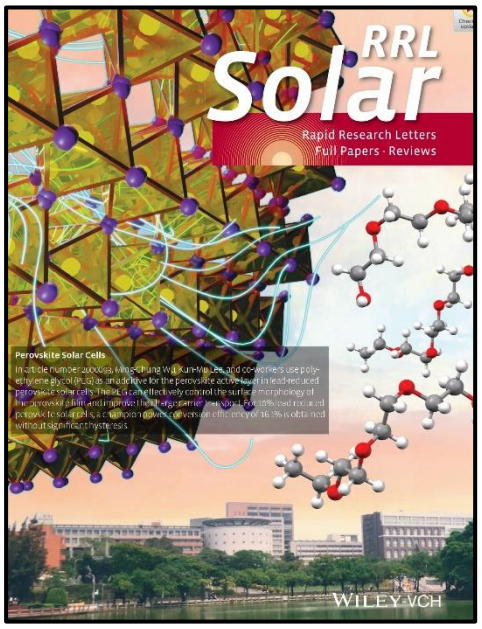
2020-

41. Ming-Chung Wu*, Yen-Tung Lin, Shih-Hsuan Chen, Meng-Huan Jao, Yin-Hsuan Chang, Kun-Mu Lee, Chao-Sung Lai, Yang-Fang Chen, and Wei-Fang Su, "Achieving High Performance Perovskite Photovoltaic by Morphology Engineering of Low-Temperature Processed Electron Transport Layer", **2020**, ***Small***, 2002201. (▲**:16**; SCI; **IF:13.0** at 2023; Ranking:14/179=7.8% in Physics, Applied)

42. Samala Venkateswarlu, Yan-Duo Lin*, Kun-Mu Lee*, Kang-Ling Liau, and Yu-Tai Tao*, "Thiophene-Fused Butterfly-Shaped Polycyclic Arenes with a Diphenanthro[9, 10-b:9', 10'-*d*]thiophene Core for Highly Efficient and Stable Perovskite Solar Cells", **2020**, ***ACS Applied Materials & Interfaces***, 12, 50495-50504. (▲**:11**; SCI; **IF:8.3** at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)

43. Shih-Han Huang, Kuo-Yu Tian, Hung-Che Huang, Chia-Feng Li, Wei-Cheng Chu, Kun-Mu Lee, Yu-Ching Huang*, and Wei-Feng Su*, "Controlling the Morphology and Interface of the Perovskite Layer for Scalable High-Efficiency Solar Cells Fabricated Using Green Solvents and Blade Coating in an Ambient Environment", **2020,** ***ACS Applied Materials & Interfaces***, 12, 26041-26049. (▲**:41**; SCI; **IF:8.3** at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)

44. Shun-Hsiang Chan, Ming-Chung Wu*, Yi-Ying Li, Kun-Mu Lee, Yang-Fang Chen, and Wei-Fang Su*, "Barium Dopeing Effect on the Photovoltaic Performance and Stability of $MA_{0.4}FA_{0.6}Ba_xPb_{1-x}I_yCl_{3-y}$ Perovskite Solar Cells", **2020**, ***Applied Surface Science***, 521, 146451. (▲▲**:8**; SCI; **IF:6.3** at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)



45. Ming-Chung Wu*, Yi-Ying Li, Shun-Hsiang Chan, Kun-Mu Lee*, and Wei-Fang Su, "Polymer Additives for Morphology Control in High-Performance Lead-Reduced Perovskite Solar Cells", **2020**, ***Solar RRL***, 202000093. (▲**:17**; SCI; **IF:6.0** at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Solar RRL!!)**

46. Ying-Han Liao, Yin-Hsuan Chang, Ting-Han Lin, Shun-Hsiang Chan, Kun-Mu Lee, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Ming-Chung Wu*, "Boosting the Power Conversion Efficiency of Perovskite Solar Cells Based on Sn Doped TiO_2 Electron Extraction Layer via Modification the TiO_2 Phase Junction", **2020,** ***Solar Energy***, 205, 390-398. (▲**:13**; SCI; **IF:6.0** at 2023; Ranking:62/173=35.8% in Energy & Fuels)

47. Kun-Mu Lee*, Chia-Hsin Lai, Wei-Cheng Chu, Shun-Hsiang Chan, and Vembu Suryanarayanan, "Thermal Assisted Blade Coating Methylammonium Lead Iodide Films with Non-Toxic Solvent Precursors for Efficient Perovskite Solar Cells and Sub-Module", **2020,** ***Solar Energy***, 204, 337-345. (▲**:15**; SCI; **IF:6.0** at 2023; Ranking:62/173=35.8% in Energy & Fuels)

48. Chien-Lin Huang*, Kun-Mu Lee, Zheng-Xian Liu, Ruo-Yu Lai, Chih-Kuang Chen, Wen-Cheng Chen, and Jen-Fu Hsu*, "Antimicrobial Activity of Electrospun Polyvinyl Alcohol Nanofibers Filled with Poly[2-(tert-butylaminoethyl) Methacrylate]-Grafted Graphene Oxide Nanosheets", **2020**, ***Polymers***, 12, 1499. (▲**:19**; SCI; **IF:4.7** at 2023; Ranking:17/94=18.1% in Polymer Science)

49. Kun-Mu Lee*, Wei-Jhih Lin, Shih-Hsuan Chen, and Ming-Chung Wu*, "Control of TiO_2 Electron Transport Layer Properties to Enhance Perovskite Photovoltaics Performance and Stability", **2020,** ***Organic Electronics***, 77, 105406. (▲**:26**; SCI; **IF:2.7** at 2023; Ranking:77/179=43.0% in Physics, Applied)

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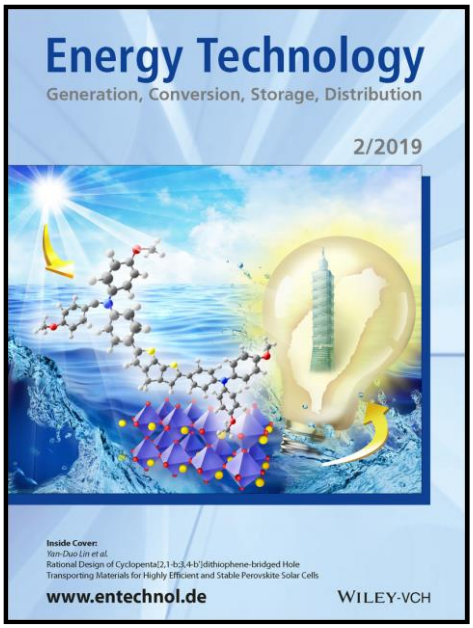

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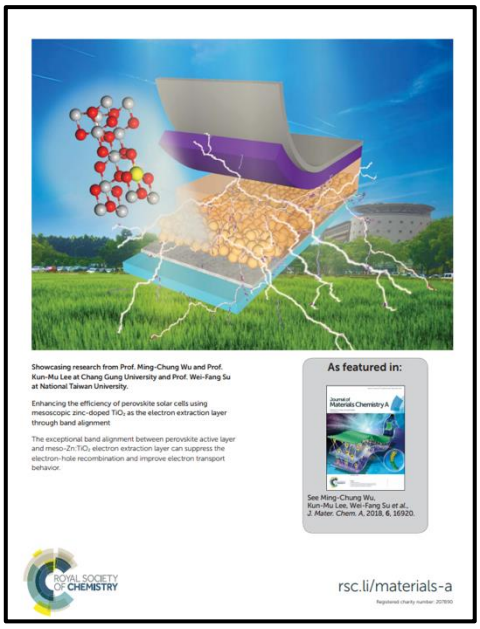

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