Prof. Kun-Mu Lee of Chang Gung University (Update 2026/01/05)

■ SCI Journal Paper

2026-

1. 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:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

2. 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)

3. 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**)

2025-

4. 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)

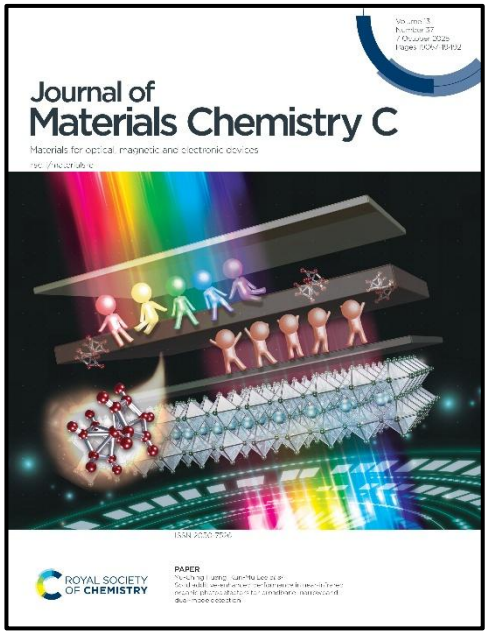
5. Jiawen Cong, Zhi-Hao Huang, Shun-Wei Liu, Zhenghui Luo*, Fu-Zong Liu, Zhanxiang Chen, Kun-Mu Lee, Yu-Ching Huang*, and Chuluo Yang*, "Efficient SWIR Organic Photodetectors with Spectral Detection Extending to 1.4 µm Using a Benzobisthiadiazole-Based Acceptor", **2025**, ***Small***, 21, 2410418. (▲**:2**; SCI; **IF:12.1** at 2024; Ranking:14/187=7.5% in Physics, Applied)

6. 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)

7. 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. (▲**:0**; SCI; **IF:6.7** at 2024; Ranking:9/131=6.9% in Water Resources)

8. 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)

9. 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!!)**



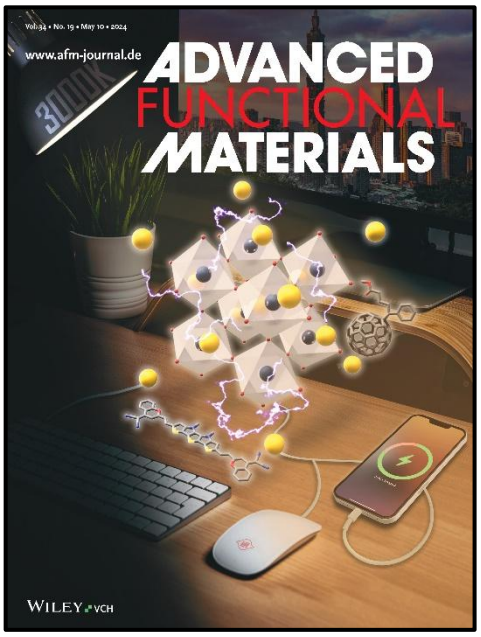
10. Kumar Gokulkumar, Sakthivel Kogularasu, Shih-Hsuan Chen, Guo-Ping Chang-Chien, Wan-Ching Lin, Yung-Lung Chen*, and Kun-Mu Lee*, "Sustainable Surfactant-Free Synthesis of $MnMoO_4$/Carbon Nanofiber Composite for Highly Sensitive Detection of Nimesulide in Biological and Pharmaceutical Matrices", **2025**, ***ACS Applied Bio Materials***, 8, 8864-8879. (▲**:0**; SCI; **IF:4.7** at 2024; Ranking:58/147=39.5% in Nanoscience & Nanotechnology)

11. 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)

12. 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***, 0, e00719. (▲**:0**; SCI; **IF:3.3** at 2024; Ranking:102/239=42.7% in Chemistry, Multidisciplinary)

13. 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-



14. 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!!)**

15. 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)

16. 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. (▲**:2**; SCI; **IF:6.7** at 2024; Ranking:46/239=19.2% in Chemistry, Multidisciplinary)

17. 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. (▲**:1**; SCI; **IF:4.7** at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)

18. 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)

19. 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)

20. 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)

2023-

21. 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. (▲**:21**; SCI; **IF:19.0** at 2024; Ranking:9/187=4.8% in Physics, Applied)

22. 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. (▲**:25**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

23. 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)

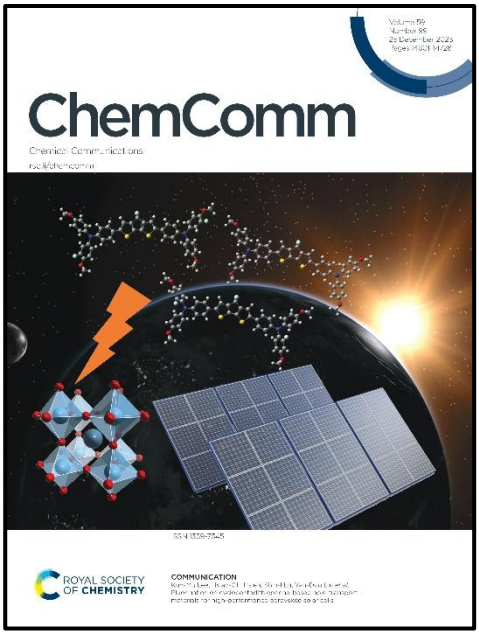
24. Yu-Ching Huang*, Zhi-Hao Huang, Tai-Yung Wang, Priyanka Chaudhary, Jen-Fu Hsu, and Kun-Mu Lee*, "A Promising Non-Fullerene Acceptor for Near-Infrared Organic Photodetectors Operating with Low Dark Current and High Response Speed", **2023**, ***Chemical Engineering Journal***, 464, 142633. (▲**:18**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

25. 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)

26. 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)

27. 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:4.6** at 2024; Ranking:95/336=28.3% in Engineering, Electrical & Electronic)

28. 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. (▲**:3**; SCI; **IF:4.2** at 2024; Ranking:84/239=35.1% in Chemistry, Multidisciplinary) **(Selected as an inside front cover of Chemical Communications!!)**



29. 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)

30. 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. (▲**: 5**; SCI; **IF:2.6** at 2024; Ranking:97/187=51.9% in Physics, Applied)

2022-

31. 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)

32. 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. (▲**:27**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

33. 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)

34. 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)

35. 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. (▲**:7**; SCI; **IF:4.7** at 2024; Ranking:5/57=8.8% in Chemistry, Organic)

36. 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)

37. 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. (▲**:2**; SCI; **IF:3.5** at 2024; Ranking:24/79=30.4% in Instruments & Instrumentation)

38. 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:3.2** at 2024; Ranking:112/182=61.5% in Energy & Fuels)

39. 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-

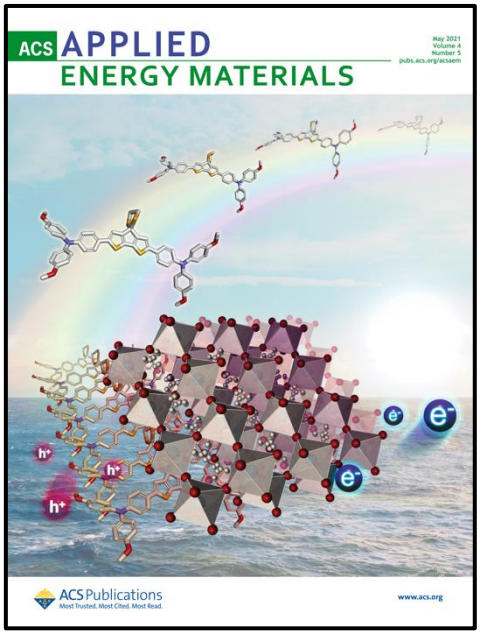
40. Kun-Mu Lee*, Shun-Hsiang Chan, Min-Yao Hou, Wei-Cheng Chu, Shih-Hsuan Chen, Sheng-Min Yu, and Ming-Chung Wu*, "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Thermal Assisted Blade Coating Method", **2021**, ***Chemical Engineering Journal***, 405, 126992. (▲**:26**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

41. 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)

42. 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)

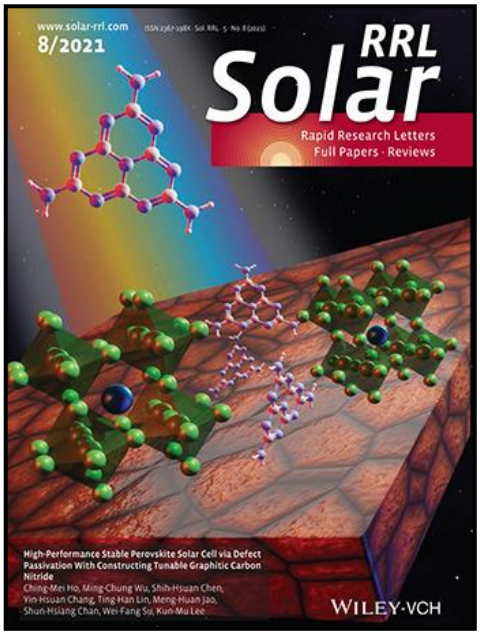
43. Ting-Han Lin†, Ming-Chung Wu*†, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu*, and Kun-Mu Lee*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO_2 Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021**, ***Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲**:16**; SCI; **IF:6.3** at 2024; Ranking:31/175=17.7% in Engineering, Chemical)

44. 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!!)**



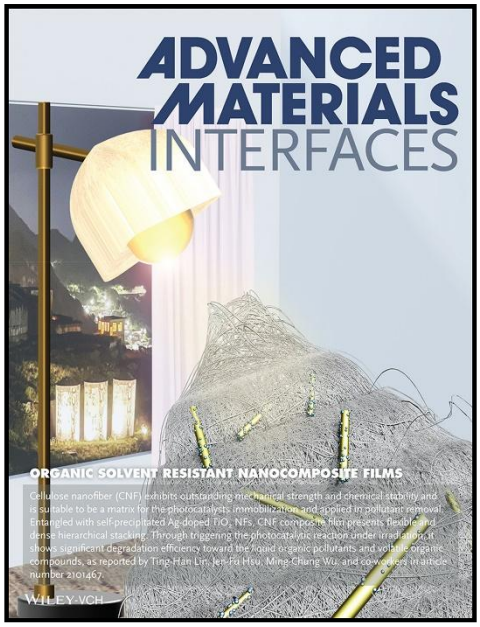
45. Yi-Jen Huang, Chien-Lin Huang*, Ruo-Yu Lai, Cheng-Han Zhuang, Wei-Hao Chiu, and Kun-Mu Lee*, "Microstructure and Biological Properties of Electrospun In Situ Polymerization of Polycaprolactone-Graft-Polyacrylic Acid Nanofibers and Its Composite Nanofiber Dressings", **2021**, ***Polymers***, 13, 4246. (▲**:13**; SCI; **IF:4.9** at 2024; Ranking:19/94=20.2% in Polymer Science)

46. 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!!)**



47. 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. (▲**:9**; SCI; **IF:4.6** at 2024; Ranking:75/239=31.4% in Chemistry, Multidisciplinary)

48. 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. (▲**:9**; SCI; **IF:4.4** at 2024; Ranking:79/239=33.1% in Chemistry, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**



49. 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:4.3** at 2024; Ranking:57/187=30.5% in Physics, Applied)

50. 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. (▲**:7**; SCI; **IF:4.3** at 2024; Ranking:57/187=30.5% in Physics, Applied)

51. 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. (▲**:20**; SCI; **IF:4.2** at 2024; Ranking:84/239=35.1% in Chemistry, Multidisciplinary)

2020-

52. 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. (▲**:20**; SCI; **IF:12.1** at 2024; Ranking:14/187=7.5% in Physics, Applied)

53. 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. (▲**:15**; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

54. 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. (▲**:51**; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

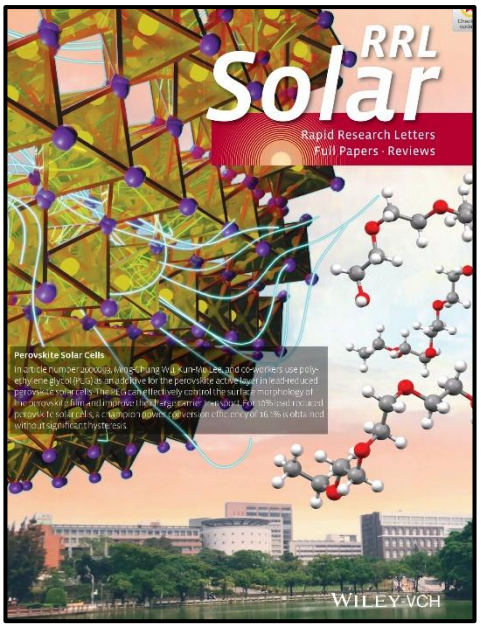
55. Shun-Hsiang Chan, Ming-Chung Wu*, Yi-Ying Li, Kun-Mu Lee, Yang-Fang Chen, and Wei-Fang Su*, "Barium Dopeing Effect on the Photovoltaic Performance and Stability of $MA_{0.4}FA_{0.6}Ba_xPb_{1-x}I_yCl_{3-y}$ Perovskite Solar Cells", **2020**, ***Applied Surface Science***, 521, 146451. (▲**:11**; SCI; **IF:6.9** at 2024; Ranking:3/23=13.0% in Materials Science, Coatings & Films)

56. 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. (▲**:17**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

57. 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. (▲**:17**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

58. 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. (▲**:28**; SCI; **IF:4.9** at 2024; Ranking:19/94=20.2% in Polymer Science)

59. 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. (▲**:22**; SCI; **IF:4.7** at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Solar RRL!!)**



60. 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. (▲**:38**; SCI; **IF:2.6** at 2024; Ranking:97/187=51.9% in Physics, Applied)

2019-

61. Po-Han Lin, Kun-Mu Lee*, Chang-Chieh Ting, and Ching-Yuan Liu*, "Spiro-*t*BuBED: a New Derivative of a Spirobifluorene-Based Hole-Transporting Material for Efficient Perovskite Solar Cells", **2019, *Journal of Materials Chemistry A***, 7, 5934-5937. (▲**:20**; SCI; **IF:9.5** at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

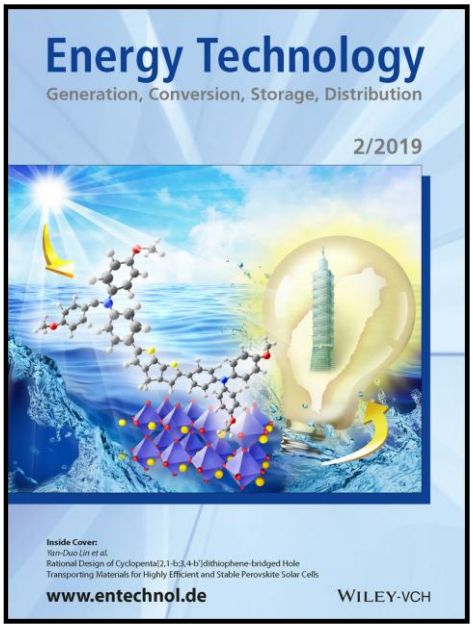
62. Yi-Kai Peng, Kun-Mu Lee, Chang-Chieh Ting, Ming-Wei Hsu, and Ching-Yuan Liu, "Making Benzotrithiophene Derivatives Dopant-Free for Perovskite Solar Cells: Step-Saving Installation of π-Spacers by a Direct C-H Arylation Strategy", **2019, *Journal of Materials Chemistry A***, Advance Article. (▲**:24**; SCI; **IF:9.5** at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

63. Yu-Chieh Chang, Kun-Mu Lee, Chang-Chieh Ting, and Ching-Yuan Liu, "Step-Efficient Access to New Starburst Hole-Transport Materials with Carbazole End-Groups for Perovskite Solar Cells via Direct C-H/C-Br Coupling Reactions", **2019, *Materials Chemistry Frontiers***, 3, 2041-2045. (▲**:12**; SCI; **IF:6.4** at 2024; Ranking:48/239=20.0% in Chemistry, Multidisciplinary)

64. Chih-Wei Hu*, Hsin-Che Lu, Sheng-Yuan Kao, Kun-Mu Lee, R. Vittal, Hsin-Fu Yu, Po-Wen Chen, Der-Jun Jan, and Kuo-Chuan Ho*, "A Transparent-Green-Blue Electrochromic Device Based on 2, 2, 6, 6-Tetramethyl-1-Piperidinyloxy (TEMPO), Polyaniline, and $HV(BF_4)_2$", **2019, *Solar Energy Materials and Solar Cells***, 200, 109993. (▲**:7**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

65. Perumal Manivel, Kanagaraj Madasamy, Vembu Suryanarayanan*, Noel Nesakumar, Arockia Jayalatha Kulandaisamy, Murugavel Kathiresan, Marimuthu Parthiban, David Velayutham, and Kun-Mu Lee, "Cu(HBTC)(4,4'-Bipy)・3DMF Nanorods Supported on Platinum Electrode as An Electrochemical Sensing Platform for Efficient Vitamin B_{12} Detection", **2019, *Journal of the Taiwan Institute of Chemical Engineers***, 96, 1-10. (▲**:19**; SCI; **IF:6.3** at 2024; Ranking:31/175=17.7% in Engineering, Chemical)

66. Yan-Duo Lin*, Kun-Mu Lee*, Bo-Yu Ke, Kai-Shiang Chen, Hao-Chien Cheng, Wei-Juih Lin, Sheng Hsiung Chang, Chun-Guey Wu*, Ming-Chung Kuo, Hsin-Cheng Chung, Chien-Chun Chou, Heng-Yu Chen, Kang-Ling Liau, Tahsin J. Chow, and Shih-Sheng Sun*, " Rational Design of Cyclopenta[2,1-b;3,4-b'] Dithiophene-Bridged Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells", **2019, *Energy Technology***, 7, 307-316. (▲**:22**; SCI; **IF:3.6** at 2024; Ranking:107/182=58.8% in Energy & Fuels) **(Selected as an inside cover of Energy Technology!!)**

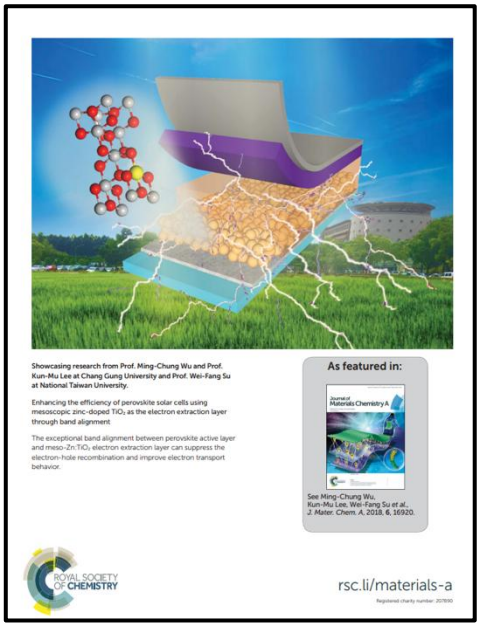


67. Chien-Lin Huang*, Tzu-Hsin Wei, Sheng-Yin Peng, and Kun-Mu Lee, "Study of Electrospun Polyacrylonitrile Fiber with Porous and Ultrafine Nanofibril Structures: Effect of Stabilization Treatment on the Resulting Carbonized Structure", **2019, *Journal of Applied Polymer Science***, 48218, 1-15. (▲**:13**; SCI; **IF:2.8** at 2024; Ranking:48/94=51.1% in Polymer Science)

68. Kun-Mu Lee*, Chuan-Jung Lin, Bo-Yi Liou, Sheng-Min Yu, Chien-Chung Hsu, and Vembu Suryanarayanan, "Effect of Anti-Solvent Mixture on The Performance of Perovskite Solar Cells and Suppression Hysteresis Behavior", **2019, *Organic Electronics***, 65, 266-274. (▲**:16**; SCI; **IF:2.6** at 2024; Ranking:97/187=51.9% in Physics, Applied)

2018-

69. Ming-Chung Wu*, Shun-Hsiang Chan, Kun-Mu Lee*, Shih-Hsuan Chen, Meng-Huan Jao, Yang-Fang Chen, and Wei-Fang Su*, "Enhancing the Efficiency of Perovskite Solar Cells Using Mesoscopic Zinc-Doped TiO_2 as Electron Extraction Layer through Band Alignment", **2018, *Journal of Materials Chemistry A***, 6, 16920-16931. (▲**:80**; SCI; **IF:9.5** at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary) **(Selected as a back cover of Journal of Materials Chemistry A!!)**



70. Kun-Mu Lee*, Min-Yao Hou, Vembu Suryanarayanan, and Ming-Chung Wu*, "Sequential Preparation of Dual Layer Fluorine-Doped Tin Oxide Films for High-Efficient Perovskite-Structured Solar Cells", **2018, *ChemSusChem***, 11, 3234-3242. (▲**:6**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

71. Kun-Mu Lee*, Kai-Shiang Chen, Jia-Ren Wu, Yan-Duo Lin*, Sheng-Min Yu, and Sheng Hsiung Chang*, "Highly Efficient and Stable Semi-Transparent Perovskite Solar Modules with a Trilayer Anode Electrode", **2018, *Nanoscale***, 10, 17699-17704. (▲**:34**; SCI; **IF:5.1** at 2024; Ranking:45/187=24.1% in Physics, Applied)

72. Chia-Hua Chan*, Chang-Rong Lin, Mai-Chih Liu, Kun-Mu Lee, Zhong-Jia Ji, and Bo-Chiau Huang, "Enhanced Electron Collection and Light Harvesting of $CH_3NH_3PbI_3$ Perovskite Solar Cells Using Nanopatterned Substrates", **2018, *Advanced Materials Interfaces***, 5, 1801118. (▲**:14**; SCI; **IF:4.4** at 2024; Ranking:79/239=33.1% in Chemistry, Multidisciplinary)

73. Kuan-Ming Lu, Kun-Mu Lee, Chia-Hsin Lai, Chang-Chieh Ting, and Ching-Yuan Liu*, "One-Pot Synthesis of D-π-D-π-D Type Hole-Transporting Materials for Perovskite Solar Cells by Sequential C-H (Hetero)Arylations", **2018, *Chemical Communications***, 54, 11495-11498. (▲**:18**; SCI; **IF:4.2** at 2024; Ranking:84/239=35.1% in Chemistry, Multidisciplinary)

74. Yu-Chieh Chang, Kun-Mu Lee*, Chia-Hsin Lai, and Ching-Yuan Liu*, "Direct C-H Arylation Meets Perovskite Solar Cells: Tin-Free Synthesis Shortcut to High-Performance Hole-Transporting Materials", **2018, *Chemistry-An Asian Journal***, 13, 1510-1515. (▲**:22**; SCI; **IF:3.3** at 2024; Ranking:102/239=42.7% in Chemistry, Multidisciplinary)

2017-

75. Shun-Hsiang Chan, Ming-Chung Wu*, Kun-Mu Lee, Wei-Cheng Chen, Tzu-Hao Lin, and Wei-Fang Su*, "Enhancing Perovskite Solar Cell Performance and Stability by Doping Barium in Methylammonium Lead Halide", **2017**, ***Journal of Materials Chemistry A***, 5, 18044-18052. (▲**:91**; SCI; **IF:9.5** at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

76. Chia-Yuan Chen*, Seung Kyu Ahn*, Dasiuke Aoki, Junichi Kokubo, Kyung Hoon Yoon, Hidenori Saito, Kyung Sik Lee, Shinichi Magaino, Katsuhiko Takagi*, Ling-Chuan Lin, Kun-Mu Lee, Chun-Guey Wu*, Hong Zhou, and Sanekazu Igari*, "International Round-Robin Inter-Comparison of Dye-Sensitized and Crystalline Silicon Solar Cells", **2017**, ***Journal of Power Sources***, 340, 309-318. (▲**:7**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

77. Jiung-Huai Huang, Po-Han Lin, Wei-Ming Li, Kun-Mu Lee, and Ching-Yuan Liu*, "Sn- and Pd-Free Synthesis of D–π–A Organic Sensitizers for Dye-Sensitized Solar Cells by Cu-Catalyzed Direct Arylation", **2017**, ***ChemSusChem***, 10, 2284-2290. (▲**:18**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

78. Wei-Chieh Chang, Ding-Hung Lan, Kun-Mu Lee, Xiao-Feng Wang, and Ching-Yuan Liu*, "Controlled Deposition and Performance Optimization of Perovskite Solar Cells Using Ultrasonic Spray-Coating of Photoactive Layers", **2017**, ***ChemSusChem***, 10, 1405-1412. (▲**:63**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

79. Kun-Mu Lee*, Chuan-Jung Lin, Bo-Yi Liou, Sheng-Min Yu, Chien-Chung Hsu, Vembu Suryanarayanan, and Ming-Chung Wu*, "Selection of Anti-Solvent and Optimization of Dropping Volume for The Preparation of Large Area Sub-Module Perovskite Solar Cells", **2017**, ***Solar Energy Materials and Solar Cells***, 172, 368-375. (▲**:72**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

80. Kun-Mu Lee, Cheng-Chiang Chen, Lung-Chien Chen, Sheng Hsiung Chang*, Kai-Shiang Chen, Shih-Chieh Yeh, Chin-Ti Chen, and Chun-Guey Wu, "Thickness Effects of Thermally Evaporated C_{60} Thin Films on Regular-Type $CH_3NH_3PbI_3$ Based Solar Cells", **2017**, ***Solar Energy Materials and Solar Cells***, 164, 13-18. (▲**:33**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

81. Chia-Yuan Chen*, Zih-Hong Jian, Shih-Han Huang, Kun-Mu Lee, Ming-Hsuan Kao, Chang-Hong Shen, Jia-Min Shieh, Chin-Li Wang, Chiung-Wen Chang, Bo-Zhi Lin, Ching-Yao Lin, Ting-Kuang Chang, Yun Chi, Cheng-Yu Chi, Wei-Ting Wang, Yian Tai, Ming-De Lu, Yung-Liang Tung, Po-Ting Chou, Wen-Ti Wu, Tahsin J. Chow, Peter Chen, Xiang-Hao Luo, Yuh-Lang Lee, Chih-Chung Wu, Chih-Ming Chen, Chen-Yu Yeh, Miao-Syuan Fan, Jia-De Peng, Kuo-Chuan Ho, Yu-Nan Liu, Hsiao-Yi Lee, Chien-Yu Chen, Hao-Wu Lin, Chia-Te Yen, Yu-Ching Huang, Cheng-Si Tsao, Yu-Chien Ting, Tzu-Chien Wei, and Chun-Guey Wu*, "Performance Characterization of Dye-Sensitized Photovoltaics under Indoor Lighting", **2017**, ***Journal of Physical Chemistry Letters***, 8, 1824-1830. (▲**:52**; SCI; **IF:4.6** at 2024; Ranking:7/39=18.0% in Physics, Atomic, Molecular & Chemical)

82. Ming-Chung Wu*, Ching-Hsiang Chen, Wei-Kang Huang, Kai-Chi Hsiao, Ting-Han Lin, Shun-Hsiang Chan, Po-Yeh Wu, Chun-Fu Lu, Yin-Hsuan Chang, Tz-Feng Lin, Kai-Hsiang Hsu, Jen-Fu Hsu, Kun-Mu Lee, Jing-Jong Shyue, Krisztian Kordas, and Wei-Fang Su, "Improved Solar-Driven Photocatalytic Performance of Highly Crystalline Hydrogenated TiO_2 Nanofibers with Core-Shell Structure", **2017**, ***Scientific Reports***, 7, 40896. (▲**:52**; SCI; **IF:3.9** at 2024; Ranking:25/135=18.5% in Multidisciplinary Science)

83. Yan-Syun Ciou, Po-Han Lin, Wei-Ming Li, Kun-Mu Lee, and Ching-Yuan Liu*, "Cross-Dehydrogenative Coupling (CDC) as Key-Transformations to Various D–π–A Organic Dyes: C–H/C–H Synthetic Study Directed Toward Dye-Sensitized Solar Cells Applications", **2017**, ***Journal of Organic Chemistry***, 10, 3538−3551. (▲**:16**; SCI; **IF:3.6** at 2024; Ranking:10/57=17.5% in Chemistry, Organic)

84. Kun-Mu Lee*, Chuan-Jung Lin, Yin-Hsuan Chang, Ting-Han Lin, Vembu Suryanarayanan, and Ming-Chung Wu*, "Effect of Post-Baking Temperature and Thickness of ZnO Electron Transport Layer for Efficient Planar Heterojunction Organometal-Trihalide Perovskite Solar Cells", **2017**, ***Coatings***, 7, 215-226. (▲**:7**; SCI; **IF:2.8** at 2024; Ranking:87/187=46.5% in Physics, Applied)

2016-

85. Yan-Duo Lin, Bo-Yu Ke, Kun-Mu Lee*, Sheng Hsiung Chang, Kai-Hung Wang, Shih-Han Huang, Chun-Guey Wu*, Po-Ting Chou, SamikJhulki, JaruguNarasimhaMoorthy, Yuan Jay Chang, Kang-Ling Liau, Hsin-Cheng Chung, Ching-Yang Liu, Shih-Sheng Sun*, and Tahsin J. Chow*, "Hole-Transporting Materials Based on Twisted Bimesitylenes for An Efficient Perovskite Solar Cell", **2016**, ***ChemSusChem***, 9, 274-279. (▲**:50**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

86. Wei-Chieh Chang, Ding-Hung Lan, Kun-Mu Lee, Xiao-Feng Wang, and Cheng-Liang Liu*, "Controlled Deposition and Performance Optimization of Perovskite Solar Cells Using Ultrasonic Spray-Coating Photoactive Layers", **2016**, ***ChemSusChem***, 10, 1405-1412. (▲**:55**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

87. Ming-Chung Wu*, Wei-Cheng Chen, Ting-Han Lin, Kai-Chi Hsiao, Kun-Mu Lee*, and Chun-Guey Wu*, "Enhanced Open-Circuit Voltage of Dye-Sensitized Solar Cells Using Bi-Doped TiO_2 Nanofibers as Working Electrode and Scattering Layer", **2016**, ***Solar Energy***, 135, 22-28. (▲**:23**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

88. Kuo Yuan Chiu, Venkatesan Govindan, Ling-Chuan Lin, Shin-Han Huang, Jia-Cheng Hu, Kun-Mu Lee*, Hui-Hsu Gavin Tsai*, Sheng-Hsiung Chang*, and Chun-Guey Wu*, "DPP Containing D-π-A Organic Dyes Toward Highly Efficient Dye-Sensitized Solar Cells", **2016**, ***Dyes and Pigments***, 125, 27-35. (▲**:27**; SCI; **IF:4.2** at 2024; Ranking:4/31=12.9% in Materials Science, Textiles)

89. Te-Jui Lu, Po-Han Lin, Kun-Mu Lee, and Ching-Yuan Liu*, "End-Capping Groups for Small-Molecule Organic Semiconducting Materials: Synthetic Investigation and Photovoltaic Applications Through Direct C-H (Hetero)arylation", **2016**, ***European Journal of Organic Chemistry***, 2017, 111-123. (▲**:11**; SCI; **IF:2.7** at 2024; Ranking:15/57=26.3% in Chemistry, Organic)

2015-

90. Kun-Mu Lee, Sheng Hsiung Chang*, Kai-Hung Wang, Chun-Ming Chang, Hsin-Ming Cheng, Chi-Chung Kei, Zong-Liang Tseng, and Chun-Guey Wu*, "Thickness Effects of ZnO Thin Film on The Performance of Tri-Iodide Perovskite Absorber Based Photovoltaics", **2015,** ***Solar Energy***, 120, 117-122. (▲**:43**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

91. Po-Han Lin, Te-Jui Lu, Deng-Jhou Cai, Kun-Mu Lee, and Ching-Yuan Liu*, "Connecting Direct C–H Arylation Reactions with Dye-Sensitized Solar Cells: A Shortcut to D–A–π–A Organic Dyes", **2015**, ***Chemsuschem***, 8, 3222-3227. (▲**:19**; SCI; **IF:6.6** at 2024; Ranking:47/239=19.7% in Chemistry, Multidisciplinary)

92. Kuen-Feng Lin, Sheng Hsiung Chang, Kai-Hung Wang, Hsin-Ming Cheng, Kuo Yuan Chiu, Kun-Mu Lee, Sheng-Hui Chen, and Chun-Guey Wu, "Unraveling The High Performance of Tri-Iodide Perovskite Absorber Based Photovoltaics with A Non-Polar Solvent Washing Treatment", **2015**, ***Solar Energy Materials and Solar Cells***, 141, 309-314. (▲**:67**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

93. Kun-Mu Lee, Sheng Hsiung Chang*, Ming-Chung Wu, and Chun-Guey Wu*, "Raman and Photoluminescence Investigation of CdS/CdSe Quantum Dots on TiO_2 Nanoparticles with Multi-Walled Carbon Nanotubes and Their Application in Solar Cells", **2015**, ***Vibrational Spectroscopy***, 80, 66-69. (▲**:10**; SCI; **IF:3.1** at 2024; Ranking:9/44=20.5% in Spectroscopy)

94. Keita Omata, Shota Kuwahara,* Kenji Katayama,* Shen Qing, Taro Toyoda, Kun-Mu Lee, and Chun-Guey Wu, "The Cause for The Low Efficiency of Dye Sensitized Solar Cells with A Combination of Ruthenium Dyes and Cobalt Redox", **2015**, ***Physical Chemistry Chemical Physics***, 17, 10170-10175. (▲**:21**; SCI; **IF:2.9** at 2024; Ranking:13/39=33.3% in Physics, Atomic, Molecular & Chemical)

2014-

95. Kun-Mu Lee*, Ling-Chuan Lin, Vembu Suryanarayanan, and Chun-Guey Wu*, "Titanium Dioxide Coated on Titanium/Stainless Steel Foil as Photoanode for High Efficiency Flexible Dye-Sensitized Solar Cells", **2014**, ***Journal of Power Sources***, 269, 789-794. (▲**:16**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

96. Kun-Mu Lee*, Ling-Chuan Lin, Chia-Yuan Chen, Vembu Suryanarayanan, and Chun-Guey Wu*, "Preparation of High Transmittance Platinum Counter Electrode at An Ambient Temperature for Flexible Dye-Sensitized Solar Cells", **2014**, ***Electrochimica Acta***, 135, 578-584. (▲**:26**; SCI; **IF:5.6** at 2024, Ranking:11/44=25.0% in Electrochemistry)

97. Abhishek Baheti, Dr. K. R. Justin Thomas*, Ling-Chuan Lin, and Kun-Mu Lee*, "Monoanchoring (D-D-π-A) and Dianchoring (D-D-$(\pi\text{-A})_2$) Organic Dyes Featuring Triarylamine Donors Composed of Fluorene and Carbazole", **2014,** ***Asian Journal of Organic Chemistry***, 3, 886-898. (▲**:8**; SCI; **IF:2.7** at 2024; Ranking:15/57=26.3% in Chemistry, Organic)

98. Kun-Mu Lee*, Kuang-Liang Shih, Chien-Hung Chiang, Vembu Suryanarayanan, and Chun-Guey Wu*, "Fabrication of High Transmittance and Low Sheet Resistance Dual Ion Doped Tin Oxide Films and Their Application in Dye-Sensitized Solar Cells", **2014,** ***Thin Solid Films***, 570, 7-15. (▲**:11**; SCI; **IF:2.0** at 2024; Ranking:50/79 =63.3% in Physics, Condensed Matter)

2013-

99. Kun-Mu Lee*, Wei-Hao Chiu, Vembu Suryanarayanan, and Chun-Guey Wu*, "Enhanced Efficiency of Bifacial and Back-Illuminated Ti Foil Based Flexible Dye-Sensitized Solar Cells by Decoration of Mesoporous SiO_2 Layer on TiO_2 Anode", **2013**, ***Journal of Power Sources***, 232, 1-6. (▲**:13**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

100. Ping-Lin Kuo*, Tzung-Shiue Jan, Chun-Hou Liao, Chi-Chang Chen, and Kun-Mu Lee, "Syntheses of Size-Varied Nanorods TiO_2 and Blending Effects on Efficiency for Dye-Sensitized Solar Cells", **2013,** ***Journal of Power Sources***, 235, 297-302. (▲**:9**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

101. Kun-Mu Lee*, Chia-Yuan Chen, Shi-Jhang Wu, Szu-Chien Chen, and Chun-Guey Wu*, "Surface Passivation: The Effects of CDCA Co-Adsorbent and Dye Bath Solvent on The Durability of Dye-Sensitized Solar Cells", **2013,** ***Solar Energy Materials and Solar Cells***, 108, 70-77. (▲**:33**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

102. Kun-Mu Lee*, Chia-Yuan Chen, Yi-Ting Tsai, Ling-Chuan Lin, and Chun-Guey Wu*, "Efficient and Stable Back-Illuminated Sub-Module Dye-Sensitized Solar Cells by Decorating SiO_2 Porous Layer with TiO_2 Electrode", **2013,** ***RSC Advances***, 3, 9994-10000. (▲**:14**; SCI; **IF:4.6** at 2024; Ranking:75/239=31.4% in Chemistry, Multidisciplinary)

2012-

103. Kun-Mu Lee*, Wei-Hao Chiu, Chih-Yu Hsu, Hsin-Ming Cheng, Chia-Hua Lee, and Chun-Guey Wu, "Ionic Liquid Diffusion Properties in Tetrapod-like ZnO Photoanode for Dye-Sensitized Solar Cells", **2012, *Journal of Power Sources***, 216, 330-336. (▲**:16**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

104. Chih-Wei Hu, Kun-Mu Lee, Kun-Chieh Chen, Li-Chi Chang, Kuan-Yu Shen, Shi-Cheng Lai, Tsung-Hsien Kuo, Chih-Yu Hsu, Lee-May Huang, R. Vittal, and Kuo-Chuan Ho*, "High Contrast All-Solid-State Electrochromic Device with 2,2,6,6-Tetramethyl-1-Piperidinyloxy (TEMPO), Heptyl Viologen, and Succinonitrile", **2012, *Solar Energy Materials and Solar Cells***, 99, 135-140. (▲**:39**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

105. Chia-Hua Lee, Kun-Mu Lee, Yung-Liang Tung, and Jenn-Ming Wu*, "Degradation Analysis of Thermal Aged Back-Illuminated Dye-Sensitized Solar Cells", **2012, Journal *of the Electrochemical Society***, 159, B430-B433. (▲**:11**; SCI; **IF:3.3** at 2024; Ranking:9/23=39.1% in Materials Science, Coatings & Films)

106. Hsin-Ming Cheng, Kuo-Yen Huang, Kun-Mu Lee, Pyng Yu, Shih-Chin Lin, Jin-Hua Huang, Chun-Guey Wu*, and Jau Tang*, "High-Efficiency Cascade CdS/CdSe Quantum Dot-Sensitized Solar Cells Based on Hierarchical Tetrapod-Like ZnO Nanoparticles", **2012, *Physical Chemistry Chemical Physics***, 39, 13539-13548. (▲**:47**; SCI; **IF:2.9** at 2024; Ranking:13/39=33.3% in Physics, Atomic, Molecular & Chemical)

2011-

107. Kun-Mu Lee*, Wei-Hao Chiu, Ming-De Lu, and Wen-Feng Hsieh, "Improvement on the Long-Term Stability of Flexible Plastic Dye-Sensitized Solar Cells", **2011, *Journal of Power Sources***, 196, 8897-8903. (▲**:35**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

108. Kun-Mu Lee, Ying-Chan Hsu, Masashi Ikegami, Tsutomu Miyasaka, K. R. Justin Thomas, Jiann T. Lin, and Kuo-Chuan Ho*, "Co-Sensitization Promoted Light Harvesting for Plastic Dye-Sensitized Solar Cells", **2011, *Journal of Power Sources***, 196, 2416-2421. (▲**:62**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

109. Wei-Hao Chiu, Kun-Mu Lee, and Wen-Feng Hsieh*, "High efficiency Flexible Dye-Sensitized Solar Cells by Multiple Electrophoretic Depositions", **2011, *Journal of Power Sources***, 196, 3683-3687. (▲**:71**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

110. Chia-Hua Lee, Wei-Hao Chiu, Kun-Mu Lee, Wen-Feng Hsieh, and Jenn-Ming Wu, "Improved Performance of Flexible Dye-Sensitized Solar Cells by Introducing an Interfacial Layer on Ti Substrates", **2011**, ***Journal of Materials Chemistry***, 21, 5114. (▲**:58**; SCI; **IF:6.626** at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)

111. Fu-Ming Wang*, Chia-Hsien Chu, Chia-Hua Lee, Jia-Yin Wu, Kun-Mu Lee, Yung-Liang Tung, Chang-Ho Liou, Yung-Yun Wang, and Chi-Chao Wan, "An Ionic Transfer Investigation of Tri-Iodine of Solvent-Free Oligomeric Electrolytes in Dye-Sensitized Solar Cells", **2011, *International Journal of Electrochemical Science***, 6, 1100-1115.(▲**:8**; SCI; **IF:2.4** at 2024, Ranking:30/44=68.2% in Electrochemistry)

2010-

112. Hsin-Wei Chen, Chih-Yu Hsu, Jian-Ging Chen, Kun-Mu Lee, Chun-Chieh Wang, Kuan-Chieh Huang, and Kuo-Chuan Ho*, "Plastic Dye-Sensitized Photo-Supercapacitor Using Electrophoretic Deposition and Compression Methods", **2010, *Journal of Power Sources***, 195, 6225-6231. (▲**:125**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

113. Chih-Yu Hsu, Hsin-Wei Chen, Kun-Mu Lee, Chih-Wei Hu, and Kuo-Chuan Ho*, "A Dye-Sensitized Photo-Supercapacitor Based on PProDOT-Et-2 Thick Films", **2010**, ***Journal of Power Sources***, 50, 1945-1950. (▲**:96**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

114. Jheng-Ying Li, Chia-Yuan Chen, Jian-Ging Chen, Chun-Jui Tan, Kun-Mu Lee, Shi-Jhang Wu, Yung-Liang Tung, Hui-Hsu Tsai*, Kuo-Chuan Ho, and Chun-Guey Wu, "Heteroleptic Ruthenium Antenna-Dye for High-Voltage Dye-Sensitized Solar Cells", **2010**, ***Journal of Materials Chemistry***, 20, 7158-7164. (▲**:47**; SCI; **IF:6.626** at 2013, Ranking:22/251=8.8% in Materials Science, Multidisciplinary)

115. Chia-Hua Lee, Wei-Hao Chiu, Kun-Mu Lee, Wen-Hsiang Yen, Hsiu-Fen Lin, Wen-Feng Hsieh, and Jenn-Ming Wu, "The Influence of Tetrapod-Like ZnO Morphology and Electrolytes on Energy Conversion Efficiency of Dye-Sensitized Solar Cells", **2010**, ***Electrochimica Acta***, 55, 8422-8429. (▲**:37**; SCI; **IF:5.6** at 2024, Ranking:11/44=25.0% in Electrochemistry)

116. Chih-Wei Hu, Kun-Mu Lee, R. Vittal, Dung-Jing Yang, and Kuo-Chuan Ho*, "A High Contrast Hybrid Electrochromic Device Containing PEDOT, Heptyl Viologen, and Radical Provider TEMPO", **2010, *Journal of the Electrochemical Society***, 157, 75-78. (▲**:19**; SCI; **IF:3.3** at 2024; Ranking:9/23=39.1% in Materials Science, Coatings & Films)

117. Kun-Mu Lee*, Wei-Hao Chiu, Hung-Yu Wei, Chih-Wei Hu, Vembu Suryanarayanan, Weng-Feng Hsieh, and Kuo-Chuan Ho, "Effects of Mesoscopic Poly (3,4-ethylenedioxythiophene) Films as Counter Electrodes for Dye-Sensitized Solar Cells", **2010**, ***Thin Solid Films***, 518, 1716-1721. (▲**:76**; SCI; **IF:2.0** at 2024; Ranking:50/79 =63.3% in Physics, Condensed Matter)

118. Shi-Jhang Wu, Chia-Yuan Chen, Jheng-Ying Li, Jian-Ging Chen, Kun-Mu Lee, Kuo-Chuan Ho, and Chun-Guey Wu*, "Carbazole Containing Ru-Based Photo-Sensitizer for Dye-sensitized Solar Cell", **2010, *Journal of The Chinese Chemical Society***, 57, 1127-1130. (▲ **:7**; SCI; **IF:1.5** at 2024; Ranking:164/239=68.7% in Chemistry, Multidisciplinary)

2009-

119. Kun-Mu Lee, Po-Yen Chen, Chih-Yu Hsu, Jen-Hsien Huang, Wen-Hsien Ho, Hung-Chang Chen, and Kuo-Chuan Ho*, "A High-Performance Counter Electrode Based on Poly(3,4-alkylenedioxythiophene) for Dye-Sensitized Solar Cells", **2009, *Journal of Power Sources***, 188, 313-318. (▲**:168**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

120. Kun-Mu Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "Influences of Different TiO_2 Morphologies and Solvents on The Photovoltaic Performance of Dye-Sensitized Solar Cells", **2009**, ***Journal of Power Sources***, 188, 635-641. (▲**:111**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

121. Kun-Mu Lee, Po-Yen Chen, Chuan-Pei Lee, and Kuo-Chuan Ho*, "Binary Room-Temperature Ionic Liquids Based Electrolytes Solidified with SiO_2 Nanoparticles for Dye-Sensitized Solar Cells", **2009, *Journal of Power Sources***, 190, 573-577. (▲ **:46**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

122. Kun-Mu Lee, Shi-Jhang Wu, Chia-Yuan Chen, and Chun-Guey Wu*, Masashi Ikegami, Kozo Miyoshi, Tsutomu Miyasaka, Kuo-Chuan Ho, "Efficient and Stable Plastic Dye-Sensitized Solar Cells Based on A High Light-Harvesting Ruthenium Sensitizer", **2009, *Journal of Materials Chemistry***, 19, 5009-5015. (▲**:64**; SCI; **IF:6.626** at 2013, Ranking:22/251=8.8% in Materials Science, Multidisciplinary)

123. Kun-Mu Lee, Chih-Yu Hsu, Wei-Hao Chiu, Meng-Chin Tsui, Yung-Liang Tung, Song-Yeu Tsai, and Kuo-Chuan Ho*, "Dye-Sensitized Solar Cells with A Micro-Porous TiO_2 Electrode and Gel Polymer Electrolytes Prepared by in Situ Cross-Link Reaction", **2009**, ***Solar Energy Materials and Solar Cells***, 93, 2003-2007. (▲**:40**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

124. Tsung-Hsien Kuo, Chih-Yu Hsu, Kun-Mu Lee, and Kuo-Chuan Ho*, "All-Solid-State Electrochromic Device Based on Poly(butyl viologen), Prussian Blue, and Succinonitrile", **2009, *Solar Energy Materials and Solar Cells***, 93, 1755-1760. (▲**:52**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

125. Chih-Wei Hu, Kun-Mu Lee, Jen-Hsien Huang, Chih-Yu Hsu Tsung-Hsien Kuo, and Kuo-Chuan Ho*, "Incorporation of A Stable Radical 2,2,6,6-Tetramethyl-1-Piperidinyloxy (TEMPO) in An Electrochromic Device", **2009, *Solar Energy Materials and Solar Cells***, 93, 2102-2107. (▲**:9**; SCI, **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

126. Chuan-Pei Lee, Kun-Mu Lee, Po-Yen Chen, and Kuo-Chuan Ho*, "On The Addition of Conducting Ceramic Nanoparticles in Solvent-Free Ionic Liquid Electrolyte for Dye-Sensitized Solar Cells", **2009, *Solar Energy Materials and Solar Cells***, 93, 1411-1416. (▲ **:38**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

127. Kun-Mu Lee*, Vembu Suryanarayanan, Jen-Hsien Huang, K. R. Justin Thomas, and Kuo-Chuan Ho, "Enhancing The Performance of Dye-Sensitized Solar Cells Based on An Organic Dye by Incorporating TiO_2 Nanotube in A TiO_2 Nanoparticle Film", **2009, *Electrochimica Acta***, 54, 4123-4130. (▲**:48**; SCI; **IF:5.6** at 2024, Ranking:11/44=25.0% in Electrochemistry)

128. Kun-Mu Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "High Efficiency Quasi-Solid-State Dye-Sensitized Solar Cell Based on Polyvinyidene Fluoride-Co-Hexafluoro Propylene Containing Propylene Carbonate and Acetonitrile as Plasticizers", **2009, *Journal of Photochemistry and Photobiology A-Chemistry***, 207, 224-230. (▲**:35**; SCI; **IF:4.7** at 2024, Ranking:68/185=36.8% in Chemistry, Physical)

129. Vembu Suryanarayanan*, Kun-Mu Lee, Jian-Ging Chen, and Kuo-Chuan Ho, "High Performance Dye-Sensitized Solar Cells Containing 1-methyl-3-propyl Imidazolinium Iodide-Effect of Additives and Solvents", **2009, *Journal of Electroanalytical Chemistry***, 633, 146-152. (▲**:31**; SCI; **IF:4.1** at 2024, Ranking:25/111=22.5% in Chemistry, Analytical)

130. Kun-Mu Lee, Chih-Yu Hsu, Po-Yen Chen, Masashi Ikegami, Tsutomu Miyasaka, and Kuo-Chuan Ho*, "Highly Porous PProDOT-Et-2 Film as Counter Electrode for Plastic Dye-Sensitized Solar Cells", **2009, *Physical Chemistry Chemical Physics***, 11, 3375-3379. (▲**:89**; SCI; **IF:2.9** at 2024; Ranking:13/39=33.3% in Physics, Atomic, Molecular & Chemical)

2008-

131. Chih-Yu Hsu, Kun-Mu Lee, Jen-Hsien Huang, K. R. Justin Thomas, Jiann T. Lin, and Kuo-Chuan Ho*, "A Novel Photoelectrochromic Device with Dual Application Based on Poly(3,4-alkylenedioxythiophene) Thin Film and An Organic Dye", **2008**, ***Journal of Power Sources***, 185, 1505-1508. (▲**:53**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

132. Kun-Mu Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "A Photo-Physical and Electrochemical Impedance Spectroscopy Study on The Quasi-Solid State Dye-Sensitized Solar Cells Based on Poly(vinylidene fluoride-co-hexafluoropropylene)", **2008, *Journal of Power Sources***, 185, 1605-1612. (▲**:55**; SCI; **IF:7.9** at 2024, Ranking:7/44=15.9% in Electrochemistry)

133. K. R. Justin Thomas, Ying-Chan Hsu, Jiann T. Lin*, Kun-Mu Lee, Kuo-Chuan Ho, Chih-Hung Lai, Yi-Ming Cheng, and Pi-Tai Chou, "2,3-Disubstituted Thiophene-Based Organic Dyes for Solar Cells", **2008**, ***Chemistry of Materials***, 20, 1830-1840. (▲**:390**; SCI; **IF:7.0** at 2024, Ranking:102/460=22.2% in Materials Science, Multidisciplinary)

134. Kun-Mu Lee, Chih-Wei Hu, Hsin-Wei Chen, and Kuo-Chuan Ho*, "Incorporating Carbon Nanotube in A Low-Temperature Fabrication Process for Dye-Sensitized TiO_2 Solar Cells", **2008**, ***Solar Energy Materials and Solar Cells***, 92, 1628-1633. (▲**:209**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

135. Chao-Po Hsu, Kun-Mu Lee, Joseph Tai-Wel Huang, Chia-Yu Lin, Chlia-Hua Lee, Lin-Ping Wang, Song-Yeu Tsai, and Kuo-Chuan Ho*, "EIS Analysis on Low Temperature Fabrication of TiO_2 Porous Films for Dye-Sensitized Solar Cells", **2008**, ***Electrochimica Acta***, 53, 7514-7522. (▲**:239**; SCI; **IF:5.6** at 2024, Ranking:11/44=25.0% in Electrochemistry)

2007-

136. Kun-Mun Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "A Study on The Electron Transport Properties of TiO_2 Electrodes in Dye-Sensitized Solar Cells", **2007**, ***Solar Energy Materials and Solar Cells***, 91, 1416-1420. (▲**:108**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

137. Kun-Mun Lee, Vembu Suryanarayanan, Kuo-Chuan Ho*, K. R. Justin Thomas, and Jiann T. Lin, "Effects of Co-Adsorbate and Additive on The Performance of Dye-Sensitized Solar Cells: A photophysical study ", **2007**, ***Solar Energy Materials and Solar Cells***, 91, 1426-1431. (▲**:73**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

138. Jina-Ging Chen, Vembu Suryanarayanan, Kun-Mun Lee, and Kuo-Chuan Ho*, "On The Use of Triethylamine Hydroiodide as A Supporting Electrolyte in Dye-Sensitized Solar Cells", **2007**, ***Solar Energy Materials and Solar Cells***, 91, 1432-1437. (▲**:13**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

139. Vembu Suryanarayanan, Kun-Mun Lee, Wen-Hsien Ho, Hung-Chang Chen, and Kuo-Chuan Ho*, "A Comparative Study of Gel Polymer Electrolytes Based on PVDF-HFP and Liquid Electrolytes, Containing Imidazolinium Ionic Liquids of Different Carbon Chain Lengths in DSSCs", **2007**, ***Solar Energy Materials and Solar Cells***, 91, 1467-1471. (▲**:28**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

2006-

140. Kun-Mun Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "The Influence of Surface Morphology of TiO_2 Coating on The Performance of Dye-Sensitized Solar Cells", **2006**, ***Solar Energy Materials and Solar Cells***, 90, 2398-2404. (▲**:80**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)

141. Chung-Yi Huang, Ying-Chan Hsu, Jian-Ging Chen, Vembu Suryanarayanan, Kun-Mun Lee, and Kuo-Chuan Ho*, "The Effects of Hydrothermal Temperature and Thickness of TiO_2 Film on The Performance of A Dye-Sensitized Solar Cell", **2006**, ***Solar Energy Materials and Solar Cells***, 90, 2391-2397. (▲**:154**; SCI; **IF:6.3** at 2024; Ranking:36/187=19.3% in Physics, Applied)