

Prof. Kun-Mu Lee of Chang Gung University (Update 2022/11/04)

SCI Journal Paper

2023-

1. 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. (▲:0; SCI; IF:16.744 at 2021; Ranking:4/142=2.8% in Engineering, Chemical)
2. 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. (▲:0; SCI; IF:16.744 at 2021; Ranking:4/142=2.8% in Engineering, Chemical)

2022-

3. 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. (▲:0; SCI; IF:16.744 at 2021; Ranking:4/142=2.8% in Engineering, Chemical)
4. 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. (▲:0; SCI; IF:16.744 at 2021; Ranking:4/142=2.8% in Engineering, Chemical)
5. 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. (▲:0; SCI; IF:9.173 at 2021; Ranking: 61/345=17.8% in Materials Science, Multidisciplinary)
6. 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. (▲:0; SCI; IF:5.719 at 2021; Ranking:37/161=22.9% in Physics, Applied)
7. 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***, Advance Article. (▲:0; SCI; IF:5.456 at 2021; Ranking:5/63=7.9% in Chemistry, Organic)
8. 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. (▲:0; SCI; IF:4.967 at 2021; Ranking:16/90=17.8% in Polymer Science)
9. 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. (▲:0; SCI; IF:3.252 at 2021; Ranking:80/119=67.2% in Energy & Fuels)

10. 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. (▲ :0; SCI; **IF:2.307** at 2021; Ranking:119/179=66.5% in Chemistry, Multidisciplinary)

2021-

11. [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. (▲:8; SCI; **IF:16.744** at 2021; Ranking:4/142=2.8% in Engineering, Chemical)

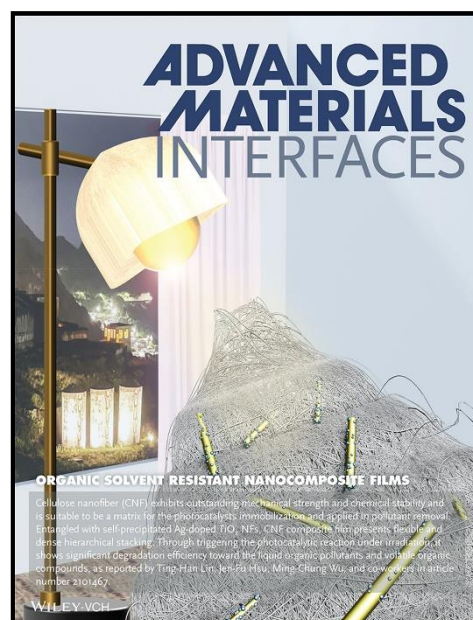
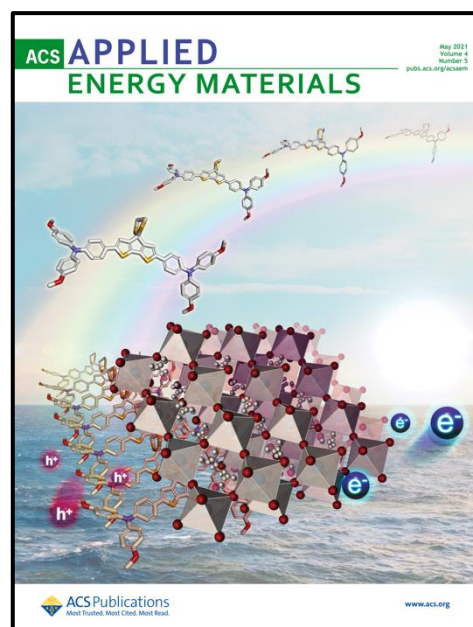
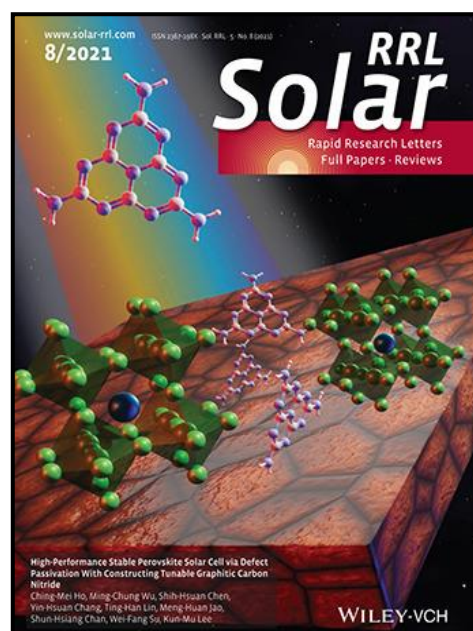
12. Ching-Mei Ho, Ming-Chung Wu*, Shih-Hsuan Chen, Yin-Hsuan Chang, Ting-Han Lin, Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and [Kun-Mu Lee*](#), "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", **2021**, *Solar RRL*, 2021, 2100257. (▲ :3; SCI; **IF:9.173** at 2021; Ranking: 61/345=17.8% in Materials Science, Multidisciplinary) (**Selected as an inside back cover of Solar RRL!!**)

13. 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. (▲ :0; SCI; **IF:7.305** at 2021; Ranking:29/161=18.0% in Physics, Applied)

14. 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. (▲ :0; SCI; **IF:6.959** at 2021; Ranking:86/345=24.9% in Materials Science, Multidisciplinary) (**Selected as an inside cover of ACS Applied Energy Materials!!**)

15. 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. (▲ :0; SCI; **IF:6.935** at 2021; Ranking: 45/179=25.1% in Chemistry, Multidisciplinary)

16. 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 from Self-Precipitated Ag/TiO₂ Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021**, *Advanced Materials Interfaces*, 8, 2101467. (▲:2; SCI; **IF:6.389** at 2021; Ranking:48/179=26.8% in Materials Science, Multidisciplinary) (**Selected as a frontispiece of Advanced Materials Interfaces!!**)

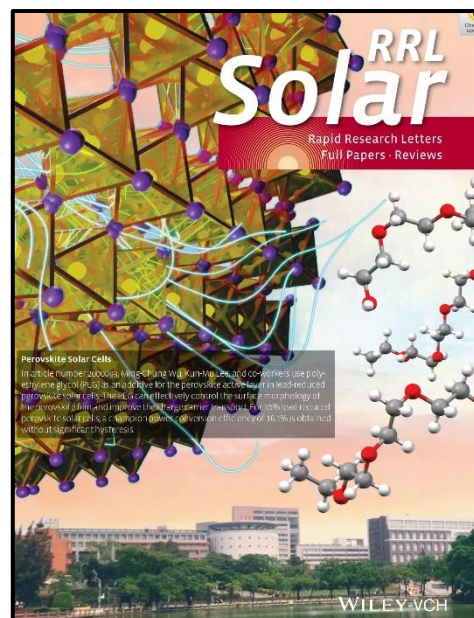


17. Kun-Mu Lee, Jui-Yu Yang, Ping-Sheng Lai, Ke-Jyun Luo, Ting-Yu Yang, Kang-Ling Liau, Seid Yimer Abate, and Yan-Duo Lin*, "A Star-Shaped Cyclopentadithiophene-Based Dopant-Free Hole Transport Material for High-Performance Perovskite Solar Cells", **2021, *Chemical Communication***, 57, 6444-6447. (▲:0; SCI; IF:6.065 at 2021; Ranking:53/179=29.6% in Chemistry, Multidisciplinary)
18. 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/I₂ for Efficient Perovskite Solar Cells", **2021, *Nanomaterials***, 11, 1607. (▲:3; SCI; IF:5.719 at 2021; Ranking:37/161=22.9% in Physics, Applied)
19. 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. (▲:0; SCI; IF:5.719 at 2021; Ranking:37/161=22.9% in Physics, Applied)
20. 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. (▲:5; SCI; IF:5.477 at 2021; Ranking:34/142=23.9% in Engineering, Chemical)
21. 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. (▲:0; SCI; IF:4.967 at 2021; Ranking:16/90=17.8% in Polymer Science)
22. 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. (▲:0; SCI; IF:4.036 at 2021; Ranking:75/179=41.9% in Chemistry, Multidisciplinary)

2020-

23. 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. (▲:7; SCI; IF:15.153 at 2021; Ranking:11/161=6.8% in Physics, Applied)
24. 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. (▲:0; SCI; IF:10.383 at 2021; Ranking:49/345=14.2% in Materials Science, Multidisciplinary)
25. 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. (▲:6; SCI; IF:10.383 at 2021; Ranking:49/345=14.2% in Materials Science, Multidisciplinary)

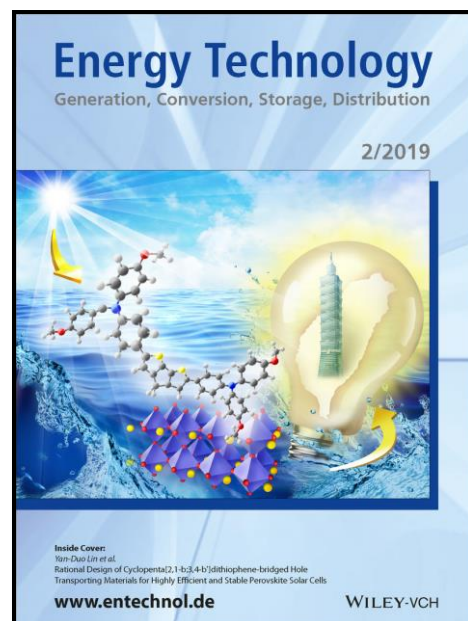
26. Ming-Chung Wu*, Yi-Ying Li, Shun-Hsiang Chan, [Kun-Mu Lee*](#), and Wei-Fang Su, "Polymer Additives for Morphology Control in High-Performance Lead-Reduced Perovskite Solar Cells", **2020, *Solar RRL***, 202000093. (▲:7; SCI; IF:9.173 at 2021; Ranking: 61/345=17.8% in Materials Science, Multidisciplinary) (**Selected as a frontispiece of Solar RRL!!**)
27. 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}Cl_{3-y} Perovskite Solar Cells", **2020, *Applied Surface Science***, 521, 146451. (▲:3; SCI; IF:7.392 at 2021; Ranking:1/19=5.3% in Materials Science, Coatings & Films)
28. 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 TiO₂ Electron Extraction Layer via Modification the TiO₂ Phase Junction", **2020, *Solar Energy***, 205, 390-398. (▲:7; SCI; IF:7.188 at 2021; Ranking:37/119=31.0% in Energy & Fuels)
29. [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. (▲:0; SCI; IF:7.188 at 2021; Ranking:37/119=31.0% in Energy & Fuels)
30. 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. (▲:0; SCI; IF:4.967 at 2021; Ranking:16/90=17.8% in Polymer Science)
31. [Kun-Mu Lee*](#), Wei-Jhih Lin, Shih-Hsuan Chen, and Ming-Chung Wu, "Control of TiO₂ Electron Transport Layer Properties to Enhance Perovskite Photovoltaics Performance and Stability", **2020, *Organic Electronics***, 77, 105406. (▲:13; SCI; IF:3.868 at 2021; Ranking:54/161=33.5% in Physics, Applied)



2019-

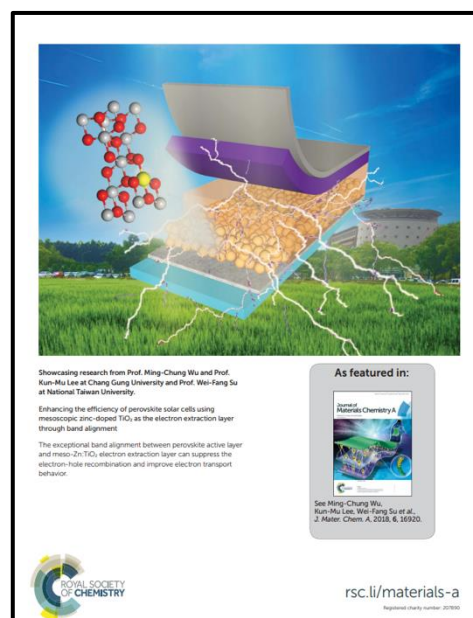
32. Po-Han Lin, [Kun-Mu Lee*](#), Chang-Chieh Ting, and Ching-Yuan Liu*, "Spiro-*t*BuBED: a New Derivative of a Spirobifluorene-Based Hole-Transporting Material for Efficient Perovskite Solar Cells", **2019, *Journal of Materials Chemistry A***, 7, 5934-5937. (▲:0; SCI; IF:14.511 at 2021; Ranking:9/119=7.6% in Energy & Fuels)
33. 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. (▲:0; SCI; IF:14.511 at 2021; Ranking:9/119=7.6% in Energy & Fuels)
34. 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. (▲:0; SCI; IF:8.683 at 2021; Ranking: 63/345=18.2% in Materials Science, Multidisciplinary)
35. 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(BF₄)₂", **2019, *Solar Energy Materials and Solar Cells***, 200, 109993. (▲:0; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)

36. 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 B₁₂ Detection", **2019, *Journal of the Taiwan Institute of Chemical Engineers***, 96, 1-10. (▲:0; SCI; IF:5.477 at 2021; Ranking: 34/142=23.9% in Engineering, Chemical)
37. 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 Liao, 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. (▲:0; SCI; IF:4.149 at 2021; Ranking:72/119=60.5% in Energy & Fuels) **(Selected as an inside cover of Energy Technology!!)**
38. [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. (▲:0; SCI; IF:3.868 at 2021; Ranking:54/161=33.5% in Physics, Applied)
39. 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. (▲:0; SCI; IF:3.057 at 2021; Ranking: 43/90=47.8% in Polymer Science)



2018-

40. 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 TiO₂ as Electron Extraction Layer through Band Alignment", **2018, *Journal of Materials Chemistry A***, 6, 16920-16931. (▲:44; SCI; IF:14.511 at 2021; Ranking:9/119=7.6% in Energy & Fuels) **(Selected as a back cover of Journal of Materials Chemistry A!!)**
41. [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:9.140 at 2021; Ranking:30/179=16.7% in Chemistry, Multidisciplinary)
42. [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. (▲:0; SCI; IF:8.307 at 2021; Ranking:23/161=14.3% in Physics, Applied)
43. 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 CH₃NH₃PbI₃ Perovskite Solar Cells Using Nanopatterned Substrates", **2018, *Advanced Materials Interfaces***, 5, 1801118. (▲:0; SCI; IF:6.389 at 2021; Ranking:48/179=26.8% in Chemistry, Multidisciplinary)



44. 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. (\blacktriangle :0; SCI; IF:6.065 at 2021; Ranking:53/179=29.6% in Chemistry, Multidisciplinary)
45. 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. (\blacktriangle :0; SCI; IF:4.839 at 2021; Ranking:67/179=37.4% in Chemistry, Multidisciplinary)

2017-

46. 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. (\blacktriangle :72; SCI; IF:14.511 at 2021; Ranking:9/119=7.6% in Energy & Fuel)
47. 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. (\blacktriangle :6; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
48. 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. (\blacktriangle :13; SCI; IF:9.140 at 2021; Ranking:30/179=16.7% in Chemistry, Multidisciplinary)
49. [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. (\blacktriangle :43; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
50. [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 C₆₀ Thin Films on Regular-Type CH₃NH₃PbI₃ Based Solar Cells", **2017, *Solar Energy Materials and Solar Cells***, 164, 13-18. (\blacktriangle :26; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
51. 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. (\blacktriangle :41; SCI; IF:6.888 at 2021; Ranking:5/36=13.8% in Physics, Atomic, Molecular & Chemical)
52. 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 TiO₂ Nanofibers with Core-Shell Structure", **2017, *Scientific Reports***, 7, 40896. (\blacktriangle :44; SCI; IF:4.996 at 2021; Ranking:19/73=26.0% in Multidisciplinary Science)

53. 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. (▲:10; SCI; IF:4.198 at 2021; Ranking:12/56=21.4% in Chemistry, Organic)
54. [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. (▲:5; SCI; IF:3.236 at 2021; Ranking:10/22=45.4% in Materials Science, Coatings & Films)

2016-

55. 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 Liao, 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. (▲:40; SCI; IF:9.140 at 2021; Ranking:30/179=16.7% in Chemistry, Multidisciplinary)
56. 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. (▲:45; SCI; IF:9.140 at 2021; Ranking:30/179=16.7% in Chemistry, Multidisciplinary)
57. 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 TiO₂ Nanofibers as Working Electrode and Scattering Layer", **2016**, *Solar Energy*, 135, 22-28. (▲:16; SCI; IF:7.188 at 2021; Ranking:37/119=31.0% in Energy & Fuels)
58. 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. (▲:23; SCI; IF:5.122 at 2021; Ranking:3/26=11.5% in Materials Science, Textiles)
59. 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. (▲:8; SCI; IF:3.261 at 2021; Ranking:19/56=33.9% in Chemistry, Organic)

2015-

60. 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. (▲:18; SCI; IF:9.140 at 2021; Ranking:30/179=16.7% in Chemistry, Multidisciplinary)
61. 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. (▲:62; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
62. [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. (▲:32; SCI; IF:7.188 at 2021; Ranking:37/119=31.0% in Energy & Fuels)

63. 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. (▲:18; SCI; IF:3.945 at 2021; Ranking:9/36=25.0% in Physics, Atomic, Molecular & Chemical)
64. [Kun-Mu Lee](#), Sheng Hsiung Chang*, Ming-Chung Wu, and Chun-Guey Wu*, "Raman and Photoluminescence Investigation of CdS/CdSe Quantum Dots on TiO₂ Nanoparticles with Multi-Walled Carbon Nanotubes and Their Application in Solar Cells", **2015, *Vibrational Spectroscopy***, 80, 66-69. (▲:7; SCI; IF:2.382 at 2021; Ranking:22/43=51.1% in Spectroscopy)

2014-

65. [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. (▲:15; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
66. [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. (▲:24; SCI; IF:7.336 at 2021, Ranking:7/30=23.3% in Electrochemistry)
67. Abhishek Baheti, Dr. K. R. Justin Thomas*, Ling-Chuan Lin, and [Kun-Mu Lee*](#), "Monoanchoring (D-D- π -A) and Dianchoring (D-D-(π -A)₂) Organic Dyes Featuring Triarylamine Donors Composed of Fluorene and Carbazole", **2014, *Asian Journal of Organic Chemistry***, 3, 886-898. (▲:8; SCI; IF:3.116 at 2021, Ranking: 20/56=35.7% in Chemistry, Organic)
68. [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. (▲:10; SCI; IF:2.358 at 2021; Ranking:95/161 =59.0% in Physics, Applied)

2013-

69. [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 SiO₂ Layer on TiO₂ Anode", **2013, *Journal of Power Sources***, 232, 1-6. (▲:12; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
70. Ping-Lin Kuo*, Tzung-Shiue Jan, Chun-Hou Liao, Chi-Chang Chen, and [Kun-Mu Lee](#), "Syntheses of Size-Variied Nanorods TiO₂ and Blending Effects on Efficiency for Dye-Sensitized Solar Cells", **2013, *Journal of Power Sources***, 235, 297-302. (▲:9; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
71. [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. (▲:29; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
72. [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 SiO₂ Porous Layer with TiO₂ Electrode", **2013, *RSC Advances***, 3, 9994-10000. (▲:13; SCI; IF:4.036 at 2021; Ranking:75/179=41.9% in Chemistry, Multidisciplinary)

2012-

73. 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. (▲:14; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
74. 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. (▲:35; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
75. 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:4.386 at 2021; Ranking:6/19=31.6% in Materials Science, Coatings & Films)
76. 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. (▲:43; SCI; IF:3.945 at 2021; Ranking:9/36=25.0% in Physics, Atomic, Molecular & Chemical)

2011-

77. 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. (▲:30; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
78. 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. (▲:57; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
79. 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. (▲:66; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
80. 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. (▲:54; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
81. 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:1.541 at 2021, Ranking:28/30=93.3% in Electrochemistry)

2010-

82. 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. (▲:104; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
83. 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. (▲:78; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)

84. 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. (▲:36; SCI; IF:7.336 at 2021, Ranking:7/30=23.3% in Electrochemistry)
85. 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. (▲:46; SCI; IF:6.626 at 2013, Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
86. 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:4.386 at 2021; Ranking:6/19=31.6% in Materials Science, Coatings & Films)
87. [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. (▲:72; SCI; IF:2.358 at 2021; Ranking:95/161 =59.0% in Physics, Applied)
88. 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:1.753 at 2021; Ranking:135/179=75.4% in Chemistry, Multidisciplinary)

2009-

89. [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. (▲:162; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
90. [Kun-Mu Lee](#), Vembu Suryanarayanan, and Kuo-Chuan Ho*, "Influences of Different TiO₂ Morphologies and Solvents on The Photovoltaic Performance of Dye-Sensitized Solar Cells", **2009, *Journal of Power Sources***, 188, 635-641. (▲:103; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
91. [Kun-Mu Lee](#), Po-Yen Chen, Chuan-Pei Lee, and Kuo-Chuan Ho*, "Binary Room-Temperature Ionic Liquids Based Electrolytes Solidified with SiO₂ Nanoparticles for Dye-Sensitized Solar Cells", **2009, *Journal of Power Sources***, 190, 573-577. (▲ :44; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
92. [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 TiO₂ Nanotube in A TiO₂ Nanoparticle Film", **2009, *Electrochimica Acta***, 54, 4123-4130. (▲:45; SCI; IF:7.336 at 2021, Ranking:7/30=23.3% in Electrochemistry)
93. [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 TiO₂ Electrode and Gel Polymer Electrolytes Prepared by in Situ Cross-Link Reaction", **2009, *Solar Energy Materials and Solar Cells***, 93, 2003-2007. (▲:39; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
94. 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. (▲:46; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
95. 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. (▲:8; SCI, IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)

96. 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. (▲:37; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
97. [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. (▲:58; SCI; IF:6.626 at 2013, Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
98. [Kun-Mu Lee](#), Vembu Suryanarayanan, and Kuo-Chuan Ho*, "High Efficiency Quasi-Solid-State Dye-Sensitized Solar Cell Based on Polyvinylidene 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:5.141 at 2021, Ranking:63/163=38.6% in Chemistry, Physical)
99. Vembu Suryanarayanan*, [Kun-Mu Lee](#), Jian-Ging Chen, and Kuo-Chuan Ho, "High Performance Dye-Sensitized Solar Cells Containing 1-methyl-3-propyl Imidazolium Iodide-Effect of Additives and Solvents", **2009, *Journal of Electroanalytical Chemistry***, 633, 146-152. (▲:28; SCI; IF:4.598 at 2021, Ranking:21/87=24.1% in Chemistry, Analytical)
100. [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. (▲:87; SCI; IF:3.945 at 2021; Ranking:9/36=25.0% in Physics, Atomic, Molecular & Chemical)

2008-

101. 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. (▲:373; SCI; IF:10.508 at 2021, Ranking:48/345=13.9% in Materials Science, Multidisciplinary)
102. 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. (▲:45; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
103. [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. (▲:53; SCI; IF:9.794 at 2021, Ranking:4/30=13.3% in Electrochemistry)
104. [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 TiO₂ Solar Cells", **2008, *Solar Energy Materials and Solar Cells***, 92, 1628-1633. (▲:205; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
105. 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 TiO₂ Porous Films for Dye-Sensitized Solar Cells", **2008, *Electrochimica Acta***, 53, 7514-7522. (▲:211; SCI; IF:7.336 at 2021, Ranking:7/30=23.3% in Electrochemistry)

2007-

106. Kun-Mun Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "A Study on The Electron Transport Properties of TiO₂ Electrodes in Dye-Sensitized Solar Cells", **2007, *Solar Energy Materials and Solar Cells***, 91, 1416-1420. (▲:104; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
107. 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. (▲:67; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
108. 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:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
109. 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 Imidazolium Ionic Liquids of Different Carbon Chain Lengths in DSSCs", **2007, *Solar Energy Materials and Solar Cells***, 91, 1467-1471. (▲:27; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)

2006-

110. Kun-Mun Lee, Vembu Suryanarayanan, and Kuo-Chuan Ho*, "The Influence of Surface Morphology of TiO₂ Coating on The Performance of Dye-Sensitized Solar Cells", **2006, *Solar Energy Materials and Solar Cells***, 90, 2398-2404. (▲:75; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)
111. 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 TiO₂ Film on The Performance of A Dye-Sensitized Solar Cell", **2006, *Solar Energy Materials and Solar Cells***, 90, 2391-2397. (▲:147; SCI; IF:7.305 at 2021; Ranking:29/161=18.0% in Physics, Applied)