Prof. Ming-Chung Wu of Chang Gung University (Update 2024/4/23)

SCI Journal Paper

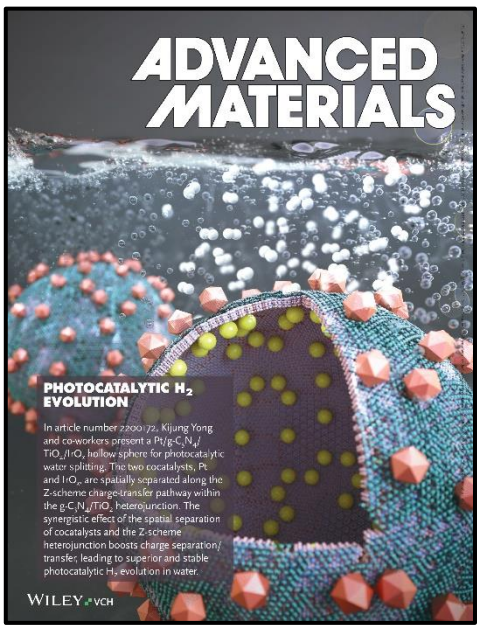
2024

1. Chao Zhang†, Xiaobin Hao†, Jiatang Wang, Xiayu Ding, Yuan Zhong, Yawen Jiang, Ming-Chung Wu, Ran Long, Wanbing Gong, Changhao Liang, Weiwei Cai*, Jingxiang Low*, and Yujie Xiong*, "Concentrated Formic Acid from CO_2 Electrolysis for Directly Driving Fuel Cell", **2024**, ***Angewandte Chemie International Edition***, 2024, e202317628. (▲**:0**; SCI; **IF:16.6** at 2022; Ranking:13/178=7.3% in Chemistry, Multidisciplinary)

2. Jia-Mao Chang, Ting-Han Lin, Kai-Chi Hsiao, Kuo-Ping Chiang, Yin-Hsuan Chang, and Ming-Chung Wu*, "Gas-Solid Phase Reaction Derived Silver Bismuth Iodide Rudorffite: Structural Insight and Exploring Photocatalytic Potential of CO_2 Reduction", **2024**, ***Advanced Science***, 2024, 2309526. (▲**:0**; SCI; **IF:15.1** at 2022; Ranking:24/344=7.0% in Materials Science, Multidisciplinary)

3. 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. (▲**:0**; SCI; **IF:4.6** at 2022; Ranking:1/34=2.9% in Nuclear Science & Technology)

2023



4. Hyun-Sik Moon, Kai-Chi Hsiao, Ming-Chung Wu, Yongju Yun, Yung-Jung Hsu, and Kijung Yong*, "Spatial Separation of Cocatalysts on Z-Scheme Organic/Inorganic Heterostructure Hollow Spheres for Enhanced Photocatalytic H_2 Evolution and in-Depth Analysis of the Charge-Transfer Mechanism", **2023**, ***Advanced Materials***, 35, 2200172. (▲**:100**; SCI; **IF:29.4** at 2022; Ranking:4/161=2.5% in Chemistry, Physical) **(Selected as a frontispiece cover of Advanced Materials!!)**

5. Ishita Chakraborty†, Ming-Chung Wu†, Sz-Nai Lian, and Chao-Sung Lai*, "Self-Powered Broadband Photodetection with Mixed-Phase Black TiO_2-Assisted Output Boosting of a Biobased Triboelectric Nanogenerator", **2023**, ***Chemical Engineering Journal***, 452, 139138. (▲**:5**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

6. 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. (▲**:4**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

7. Yuan-Yu Chiu, Shih-Hsuan Chen, Kun-Mu Lee, Tz-Feng Lin, and Ming-Chung Wu*, "Side Chain Modulated Carbazole-Based Bifunctional Hole-Shuttle Interlayer Simultaneously Improves Interfacial Energy Level Alignment and Defect Passivation in High-Efficiency Perovskite Solar Cells", **2023**, ***Chemical Engineering Journal***, 477, 147208. (▲**:0**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

8. Yun-Hsiu Tseng, Tien-Li Ma, Dun-Heng Tan, An-Jey A. Su*, Kia M. Washington, Chun-Chieh Wang, Yu-Ching Huang, Ming-Chung Wu*, and Wei-Fang Su, "Injectable Hydrogel Guides Neurons Growth with Specific Directionality", **2023**, ***International Journal of Molecular Sciences***, 24, 7952. (▲**:0**; SCI; **IF:5.6** at 2022; Ranking:66/285=23.1% in Biochemistry & Molecular Biology)

9. Ming-Chung Wu*†, Ching-Mei Ho†, Kai-Chi Hsiao†, Shih-Hsuan Chen, Yin-Hsuan Chang, Meng-Huan Jao, "Antisolvent Engineering to Enhance Photovoltaic Performance of Methylammonium Bismuth Iodide Solar Cells", **2023**, ***Nanomaterials***, 13, 59. (▲**:0**; SCI; **IF:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)

10. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, Ting-Han Lin, Kai-Hsiang Hsu*, and Ming-Chung Wu*, "Electrospun Fibrous Nanocomposite Sensing Materials for Monitoring Biomarkers in Exhaled Breath", **2023**, ***Polymers***, 15, 1833. (▲**:0**; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Science)

11. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, Yu-Ching Huang*, and Ming-Chung Wu*, "Electrospun SnO_2/WO_3 Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023**, ***Polymers***, 15, 4318. (▲**:0**; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Science)

12. An-Jey A. Su, Ning Jiang, Shyh-Chyang Luo, Kia M. Washington, Ming-Chung Wu, Yu-Ching Huang*, and Wei-Fang Su*, "Fibrous Polypeptide Based Bioscaffold Delivery of Minocycline Hydrochloride for Nerve Regeneration", **2023**, ***Materials Chemistry and Physics***, 305, 127974. (▲**:0**; SCI; **IF:4.6** at 2022; Ranking:127/342=37.1% in Materials Science, Multidisciplinary)

13. 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. (▲**:0**; SCI; **IF:4.1** at 2022; Ranking:44/159=27.7% in Physics, Applied)

14. Seoungjun Ahn, Wei-Hao Chiu, Hsin-Ming Cheng, Vembu Suryanarayanan, Gao Chen, Yu-Ching Huang*, Ming-Chung Wu*, and Kun-Mu Lee*, "Enhancing Efficiency and Stability of Perovskite Solar Cells Through Two-Step Deposition Method with the Addition of Cesium Halides to PbI_2 Precursor", **2023,** ***Organic Electronics***, 120, 106847. (▲**:1**; SCI; **IF:3.2** at 2022; Ranking:61/159=38.4% in Physics, Applied)

15. Forest Shih-Sen Chien*, Asmida Herawati, Ching-Mei Ho, Hsi-Lien Hsiao, Tsong-Shin Tim, Chang-Ren Wang, Kwai-Kong Ng, Subir Das, Fu-Jen Kao, and Ming-Chung Wu*, "Charge Relaxation Associated with Photo-Induced Deactivation of Various Traps in $MAPbI_3$ Films", **2023**, ***Journal of physics D-Applied Physics***, 56, 305105. (▲**:0**; SCI; **IF:3.4** at 2022; Ranking:56/159=35.2% in Physics, Applied)

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16. 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. (▲**:12**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

17. Tzu-Yi Yu, Yu-Kai Tseng, Ting-Han Lin, Tzu-Chia Wang, Yun-Hsiu Tseng, Yin-Hsuan Chang, Ming-Chung Wu*, and Wei-Fang Su*, "Effect of Cellulose Compositions and Fabrication Methods on Mechanical Properties of Polyurethane-Celluose Composites", **2022**, ***Carbohydrate Polymers***, 291, 119549. (▲**:2**; SCI; **IF:11.2** at 2022; Ranking:3/86=3.5% in Polymer Science)

18. 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. (▲**:3**; SCI; **IF:7.9** at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary)

19. Yi-Pei Jiang†, Ming-Chung Wu†, Ting-Han Lin, Yin-Hsuan Chang, and Jer-Chyi Wang*, "Color Discrimination in Color Vision Deficiency: Photon-Assisted Piezoelectric IGZO Color-Tactile Sensors with P(VDF-TrFE)/Metal-Decorated TiO_2-Nanofibers Nanocomposites", **2022, *Advanced Materials Technologies***, 7, 2101147. (▲**:1**; SCI; **IF:6.8** at 2022; Ranking:82/342=24.0% in Materials Science, Multidisciplinary)

20. 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. (▲**:1**; SCI; **IF:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)

21. Tzu-Yi Yu, Yun-Hsiu Tseng, Chun-Chieh Wang, Ting-Han Lin, Ming-Chung Wu, Cheng-Si Tsao*, and Wei-Fang Su*, "Three Level Hierarchical 3D Network Formation and Structure Elucidation of Wet Hydrogel of Tunable-High-Strength Nanocomposite", **2022**, ***Macromolecular Materials and Engineering***, 307, 2100871. (▲**:1**; SCI; **IF:3.9** at 2022; Ranking:27/86=31.4% in Polymer Science)

22. Ming-Chung Wu*, Qian-Han Wang, Kai-Chi Hsiao, Shih-Hsuan Chen, Ching-Mei Ho, Meng-Huan Jao, Yin-Hsuan Chang, and Wei-Fang Su, "Composition Engineering to Enhance the Photovoltaic Performance and to Prolong the Lifetime for Silver Bismuth Iodide Solar Cell", **2022**, ***Chemical Engineering Journal Advances***, 10, 100275. (▲**:0**)

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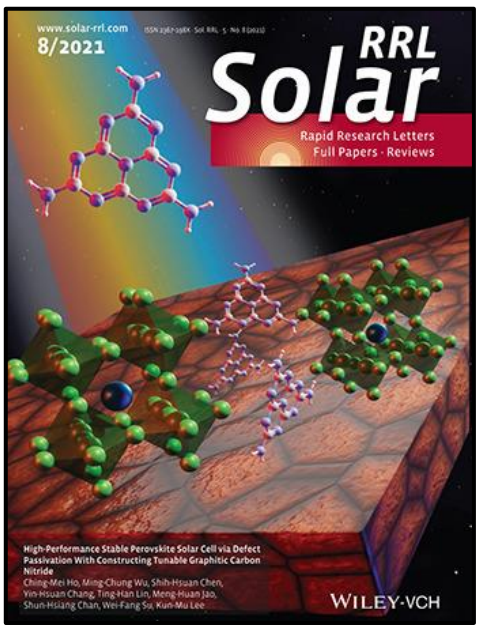
23. Kun-Mu Lee*, Shun-Hsiang Chan, Min-Yao Hou, Wei-Cheng Chu, Shih-Hsuan Chen, Sheng-Min Yu, and Ming-Chung Wu*, "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Thermal Assisted Blade Coating Method", **2021**, ***Chemical Engineering Journal***, 405, 126992. (▲**:16**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

24. Kai-Chi Hsiao, Bo-Ting Lee, Meng-Huan Jao, Ting-Han Lin, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Chloride Gradient Render Carrier Extraction of Hole Transport Layer for High V_{oc} and Efficient Inverted Organometal Halide Perovskite Solar Cell", **2021**, ***Chemical Engineering Journal***, 409, 128100. (▲**:12**; SCI; **IF:15.1** at 2022; Ranking:5/140=3.6% in Engineering, Chemical)

25. Ishita Chakraborty, Sz-Nian La, Ming-Chung Wu, Hsun-Yen Lin, Chuan Li, Jyh Ming Wu*, and Chao-Sung Lai*, "Charge Trapping with α-Fe_2O_3 Nanoparticles Accompanied by Human Hair Towards an Enriched Triboelectric Series and a Sustainable Circular Bioeconomy", **2021**, ***Materials Horizons***, 2021, 8, 3149-3162. (▲**:7**; SCI; **IF:13.3** at 2022; Ranking:29/342=8.5% in Materials Science, Multidisciplinary)

26. 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***, 5, 2100257. (▲**:6**; SCI; **IF:7.9** at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**



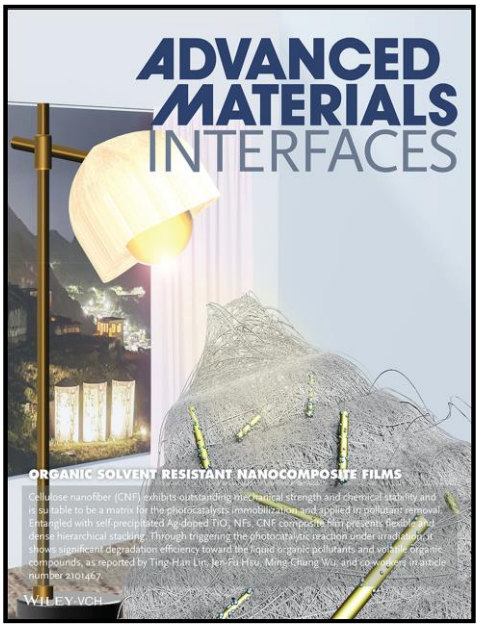
27. Ting-Han Lin, Ming-Chung Wu*, Yen-Ting Lin, Chi-Hui Tsao, Yin-Hsuan Chang, Kuo-Ping Chiang, Yu-Ting Huang, and Yu-Jen Lu*, "Solar-Triggered Photothermal Therapy for Tumor Ablation by Ag Nanoparticles Self-Precipitated on Structural Titanium Oxide Nanofibers", **2021**, ***Applied Surface Science***, 552, 149428. (▲**:7**; SCI; **IF:6.7** at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)

28. Tzu-Chuan Yang, Yi-Pei Jiang, Ting-Han Lin, Shih-Hsuan Chen, Ching-Mei Ho, Ming-Chung Wu, and Jer-Chyi Wang*, "N-Butylamine-Modified Graphite Nanoflakes Blended in Ferroelectric P(VDF-TrFE) Copolymers for Piezoelectric Nanogenerators with High Power Generation Efficiency", **2021**, ***European Polymer Journal***, 159, 110754. (▲**:3**; SCI; **IF:6.0** at 2022; Ranking:7/86=8.1% in Polymer, Science)

29. Jer-Chyi Wang*, Rajat Subhra Karmakar, Ting-Han Lin, Ming-Chung Wu*, and Kuo-Hsuan Chang*, "Reaction-Inhibited Interfacial Coating Between PEDOT:PSS Sensing Membrane and ITO Electrode for Highly-Reliable Piezoresistive Pressure Sensing Applications", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 126, 297-306. (▲**:1**; SCI; **IF:5.7** at 2022; Ranking:25/140=17.9% in Engineering, Chemical)

30. Ting-Han Lin†, Ming-Chung Wu*†, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu*, and Kun-Mu Lee*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO_2 Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲**:10**; SCI; **IF:5.7** at 2022; Ranking:25/140=17.9% in Engineering, Chemical)

31. 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. (▲**:8**; SCI; **IF:5.4** at 2022; Ranking:107/342=31.3% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**



32. Mamina Sahoo, Az-Nian Lai, Jyh-Ming Wu, Ming-Chung Wu, and Chao-Sung Lai*, "Flexible Layered-Graphene Charge Modulation for Highly Stable Triboelectric Nanogenerator", **2021**, ***Nanomaterials***, 11, 2276. (▲**:11**; SCI; **IF:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)

33. 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. (▲**:2**; SCI; **IF:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)

34. 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:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)

35. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang*, and Ming-Chung Wu*, "Nanoscale Multidimensional Pd/TiO_2/g-C_3N_4 Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", **2021**, ***Catalysts***, 11, 59. (▲**:8**; SCI; **IF:3.9** at 2022; Ranking:71/161=44.1% in Chemistry, Physical)

36. Asmida Herawati, Hui-Ching Lin, Shun-Hsiang Chan, Ming-Chung Wu, Tsong-Shin Lim*, and Forest Shih-Sen Chien*, "Photon-Induced Deactivations of Multiple Traps in $CH_3NH_3PbI_3$ Perovskite Films by Different Photon Energies", **2021**, ***Physical Chemistry Chemical Physics***, 23, 10919. (▲**:3**; SCI; **IF:3.3** at 2022; Ranking:9/35=25.7% in Physics, Atomic, Molecular & Chemical)

37. Ming-Chung Wu*, Ruei-Yu Kuo, Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, and Wei-Feng Su, "Alkali Metal Cation Incorporated Ag_3BiI_6 Absorbers for Efficient and Stable Rudorffite Solar Cells", **2021**, ***Oxford Open Materials Science***, 1, itab017. (▲**:0**)

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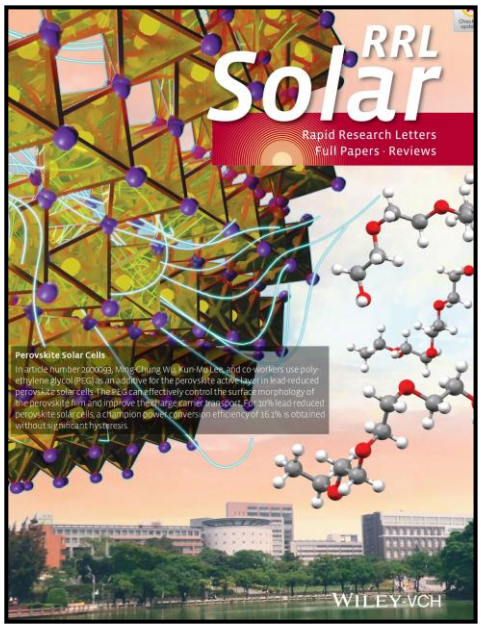
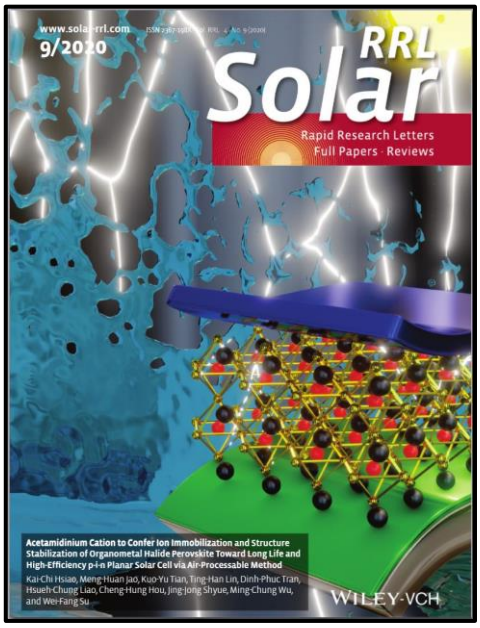
38. Ming-Chung Wu*, Yen-Tung Lin, Shih-Hsuan Chen, Meng-Huan Jao, Yin-Hsuan Chang, Kun-Mu Lee, Chao-Sung Lai, Yang-Fang Chen, and Wei-Fang Su, "Achieving High-Performance Perovskite Photovoltaic by Morphology Engineering of Low-Temperature Processed Zn-Doped TiO_2 Electron Transport Layer", **2020**, ***Small***, 16, 2002201. (▲**:13**; SCI; **IF:13.3** at 2022; Ranking:11/159=6.9% in Physics, Applied)

39. Ming-Chung Wu*, Chih-Kunag Kao, Tz-Feng Lin, Shun-Hsiang Chan, Shih-Hsuan Chen, Chi-Hung Lin, Yu-Ching Huang, Ziming Zhou, Kai Wang, and Chao-Sung Lai*, "Surface Plasmon Resonance Amplified Efficient Polarization-Selective Volatile Organic Compounds CdSe-CdS/Ag/PMMA Sensing Material", **2020**, ***Sensors and Actuators B: Chemical***, 309, 127760. (▲**:9**; SCI; **IF:8.4** at 2022; Ranking:1/63=1.6% in Instruments & Instrumentation)

40. 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***, 4, 6, 2000093. (▲**:16**; SCI; **IF:7.9** at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Solar RRL!!)**



41. Kai-Chi Hsiao, Meng-Huan Jao, Kuo-Yu Tian, Ting-Han Lin, Dinh-Phuc Tran, Hsueh-Chung Liao, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-i-n Planar Cell via Air-Processable Method", **2020**, ***Solar RRL***, 4, 2000197. (▲**:9**; SCI; **IF:7.9** at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) **(Selected as a inside front cover of Solar RRL!!)**

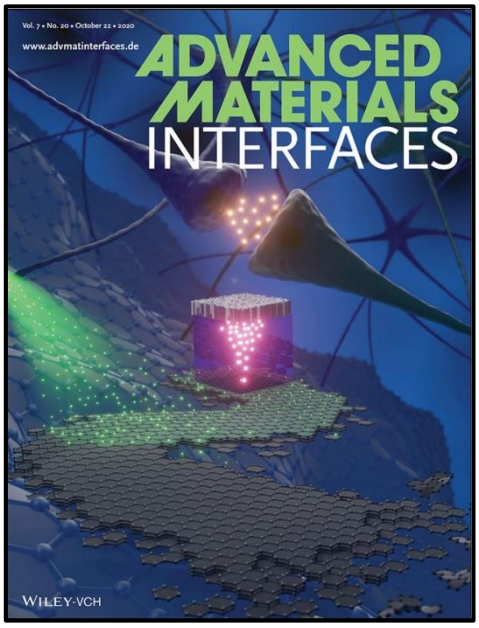


42. Shun-Hsiang Chan, Ming-Chung Wu*, Yi-Ying Li, Kun-Mu Lee, Yang-Fang Chen, and Wei-Fang Su*, "Barium Doping Effect on the Photovoltaic Performance and Stability of $MA_{0.4}FA_{0.6}Ba_xPb_{1-x}I_yCl_{3-y}$ Perovskite Solar Cells", **2020**, ***Applied Surface Science***, 521, 146451. (▲**:6**; SCI; **IF:6.7** at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)

43. 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. (▲**:12**; SCI; **IF:6.7** at 2022; Ranking:37/115=32.2% in Energy & Fuels)

44. Meng-Huan Jao, Shun-Hsiang Chan, Ming-Chung Wu*, and Chao-Sung Lai*, "Element Code from Pseudopotential as Efficient Descriptors for Machine Learning Model to Explore Potential Lead-Free Halide Perovskite", **2020**, ***Journal of Physical Chemistry Letters***, 11, 8914-8921. (▲**:9**; SCI; **IF:5.7** at 2022; Ranking:5/35=14.3% in Physics, Atomic, Molecular & Chemical)

45. Ya-Ting Chan, Yi Fu, Feng-Yu Wu, Ho-Wei Wang, Ting-Han Lin, Shun-Hsiang Chan, Ming-Chung Wu, and Jer-Chyi Wang*, "Compacted Self-Assembly Graphene with Hydrogen Plasma Surface Modification for Robust Artificial Electronic Synapses of Gadolinium Oxide Memristors", **2020**, ***Advanced Materials Interfaces***, 7, 2000860. (▲ **:3**; SCI; **IF:5.4** at 2022; Ranking:107/342=31.3% in Materials Science, Multidisciplinary) **(Selected as an inside front cover cover of Advanced Materials Interfaces!!)**



46. Jer-Chyi Wang*, Yi-Pei Jiang, Yu-Jie Lin, Shun-Hsiang Chan, and Ming-Chung Wu*, "Trifluoroethylene Bond Enrichment in P(VDF-TrFE) Copolymers with Enhanced Ferroelectric Behaviors by Plasma Fluorination on Bottom Electrode", **2020**, ***Journal of the Taiwan Institute of Chemical Engineers***, 107, 152-160. (▲**:1**; SCI; IF:**5.7** at 2022; Ranking:25/140=17.9% in Engineering, Chemical)

47. Duy Linh Vu, Tz-Feng Lin, Ting-Han Lin, and Ming-Chung Wu*, "Highly-Sensitive Detection of Volatile Organic Compounds Vapor by Electrospun PANI/P3TI/PMMA Fibers", **2020**, ***Polymers***, 12, 455. (▲**:6**; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Sicence)

48. Yi-Pei Jiang, Tzu-Chuan Yang, Ting-Han Lin, Ching-Mei-Ho, Shun-Hsiang Chan, Ming-Chung Wu, and Jer-Chyi Wang*, "Layer-Dependent Solvent Vapor Annealing on Stacked Ferroelectric P(VDF-TrFE) Copolymers for Highly Efficient Nanogenerator Applications", **2020**, ***Polymer***, 204, 122822. (▲**:6**; SCI; **IF:4.6** at 2022; Ranking:18/86=20.9% in Polymer Science)

49. Jer-Chyi Wang*, Yi-Pei Jiang, Chi-Hung Lin, Shun-Hsiang Chan, and Ming-Chung Wu*, "Enhanced Piezoelectric Tactile Sensing Behaviors of High-Density and Low-Damage CF_4-Plasma-Treated IGZO Thin-Film Transistors Coated by P(VDF-TrFE) Copolymers", **2020**, ***Sensors and Actuators A: Physical***, 304, 111855. (▲**:1**; SCI; **IF:4.6** at 2022; Ranking:13/63=20.6% in Instruments & Instrumentation)

50. 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. (▲**:23**; SCI; **IF:3.2** at 2022; Ranking:61/159=38.4% in Physics, Applied)

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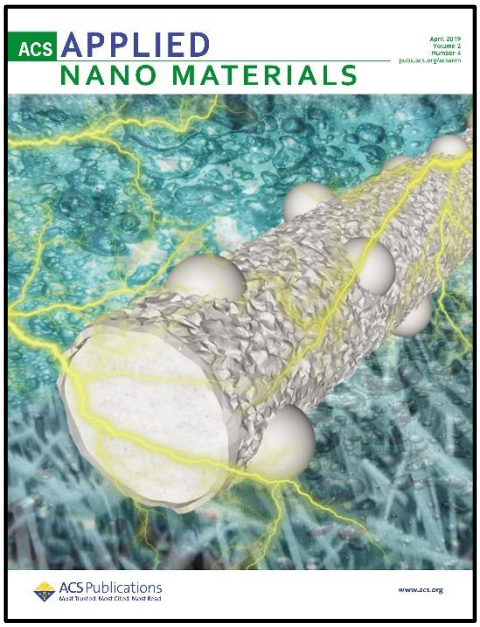

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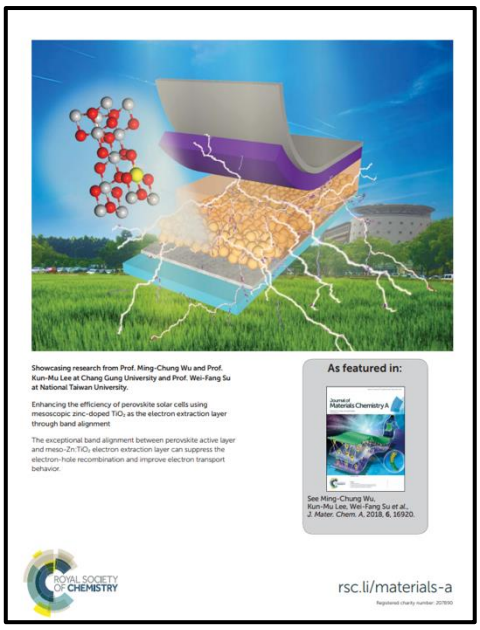

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