# Prof. Ming-Chung Wu of Chang Gung University (Update 2024/06/21)

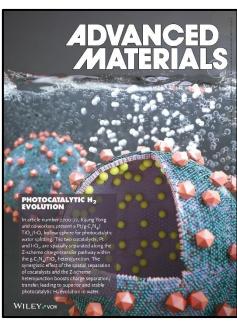
# SCI Journal Paper

## 2024

- 1. 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 CO₂ Reduction", 2024, Advanced Science, 2024, 2309526. (▲:0; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
- 2. Kai-Chi Hsiao<sup>†</sup>, Ching-Mei Ho<sup>†</sup>, Ting-Han Lin, Shih-Hsuan Chen, Yin-Hsuan Chang, Ying-Han Liao, Jia-Mao Chang, Tz-Feng Lin<sup>\*</sup>, Yu-Ching Huang<sup>\*</sup>, Kun-Mu Lee<sup>\*</sup>, and Ming-Chung Wu<sup>\*</sup>, "Ceiling of Barium Substitution for B-Site Cation in Organometal Halide Perovskite Solar Cells", 2024, International Journal of Energy Research, 2024, 9990559. (▲:2; SCI; IF:4.3 at 2023; Ranking:4/40=10.0% in Nuclear Science & Technology)
- 3. Ying-Han Liao†, Yin-Hsuan Chang†, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu\*, "Recent Advances in Metal Oxide Electron Transport Layers for Enhancing the Performance of Perovskite Solar Cells", 2024, *Materials*, 17, 2722. (▲:0; SCI; IF:3.1 at 2023; Ranking:25/91=27.5% in Metallurgy & Metallurgical Engineering)
- 4. Chao Zhang<sup>†</sup>, Xiaobin Hao<sup>†</sup>, 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<sub>2</sub> Electrolysis for Directly Driving Fuel Cell", 2024, Angewandte Chemie-International Edition, 63, e202317628. (▲:2; SCI; IF:16.1 at 2023; Ranking:11/231=4.8% in Chemistry, Multidisciplinary)
- 5. Shih-Cheng Tsao, Kuo-Hsuan Chang, Yi Fu, Han-Hsiang Tai, Ting-Han Lin, Ming-Chung Wu, and Jer-Chyi Wang\*, "Heterogeneous Integration of Memristive and PiezoresistiveMDMO-PPV-Based Copolymers in NociceptiveTransmission with Fast and Slow Pain for an ArtificialPain-Perceptual System", 2024, Small, 2024, 202311040. (▲:0; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
- 6. Yu-Hua Liu, Han-Hsiang Tai, Chi-An Ho, Ting-Han Lin, Ming-Chung Wu, and Jer-Chyi Wang\*, "Highly Compatible and Reliable ZrN Interfacial Layer between TiN Top Electrode and Antiferroelectric ZrO₂ Thin Film to Boost the Electrocaloric Behavior", 2024, Journal of the European Ceramic Society, 44, 215-223. (▲:0; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
- 7. Chun-Yu Chang, An-Jey A. Su, Meng-Fang Lin, Kai-Chi Hsiao, Yu-Ting Lin, Yu-Sheng Hsiao, Ming-Chung Wu\*, Yu-Ching Huang\*, and Wei-Fang Su\*, "Investigating Long Term Storage Stability and Drug Release Behavior of Polypeptide Based Fibrous Scaffold for Tissue Engineering Application", 2024, *Materials Chemistry and Physics*, 321, 129503. (▲:0; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
- 8. Rashmiranjan Patra, Pradeep Kumar Panda, Ting-Han Lin, Ming-Chung Wu, and Po-Chih Yang\*, "Graphitic Carbon Nitride Nanosheet and Ferroelectric PbTiO₃ Nanoplates S-Scheme Heterostructure for Enhancing Hydrogen Production and Textile Dye Degradation", 2024, Chemical Engineering Science, 259, 120133. (▲:0; SCI; IF:4.1 at 2023; Ranking:54/171=31.6% in Engineering, Chemical)

### 2023

- 9. Kai-Chi Hsiao, Yen-Fu Yu, Ching-Mei Ho, Meng-Huan Jao, Yu-Hsiang Chang, Shih-Hsuan Chen, Yin-Hsuan Chang, Wei-Fang Su, Kun-Mu Lee\*, and Ming-Chung Wu\*, "Doping Engineering of Carrier Transporting Layers for Ambient-Air-Stable Lead-Free Rudorffite Solar Cells Prepared by Thermal-Assisted Doctor Blade Coating", 2023, *Chemical Engineering Journal*, 451, 138807. (▲:12; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
- 10. 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. ( : 3; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
- 11. 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. (**\(\Delta:1**; SCI; **IF:4.7** at 2023; Ranking:17/94=18.1% in Polymer Science)
- **12.** Ting-Han Lin<sup>†</sup>, Yin-Hsuan Chang<sup>†</sup>, Ting-Hung Hsieh<sup>†</sup>, Yu-Ching Huang<sup>\*</sup>, and Ming-Chung Wu<sup>\*</sup>, "Electrospun SnO<sub>2</sub>/WO<sub>3</sub> Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023**, *Polymers*, 15, 4318. (▲:0; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
- 13. 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:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
- **14.** Ming-Chung Wu\*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, Ting-Han Lin, Jia-Mao Chang, Kai-Hsiang Hsu, Jen-Fu Hsu\*, and Kun-Mu Lee\*, "Modulating Incident Light for Improved CO₂ Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films with Exotic Gold Nanoparticles", **2023**, *Materials Science in Semiconductor Processing*, 162, 107505. (▲:1; SCI; IF:4.2 at 2023; Ranking:19/79=24.1% in Physics, Condensed Matter)
- 15. 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 H₂ Evolution and in-Depth Analysis of the Charge-Transfer Mechanism", 2023, Advanced Materials, 35, 2200172. (▲:156; SCI; IF:27.4 at 2023; Ranking:3/231=1.3% in Chemistry, Multidisciplinary) (Selected as a frontispiece cover of Advanced Materials!!)
- 16. Ishita Chakraborty†, Ming-Chung Wu†, Sz-Nai Lian, and Chao-Sung Lai\*, "Self-Powered Broadband Photodetection with Mixed-Phase Black TiO₂-Assisted Output Boosting of a Biobased Triboelectric Nanogenerator", 2023, Chemical Engineering Journal, 452, 139138. (▲:5; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
- 17. 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. (A:1; SCI; IF:4.9 at 2023; Ranking:83/231=35.9% in Chemistry, Multidisciplinary)

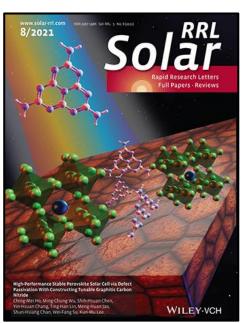


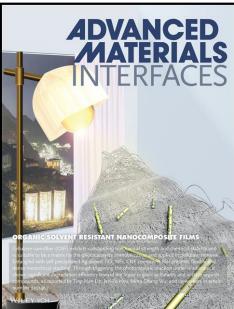
- **18.** An-Jey A. Su, Ning Jiang, Shyh-Chyang Luo, Kia M. Washington, Ming-Chung Wu, Yu-Ching Huang\*, and Wei-Fang Su\*, "Fibrous Polypeptide Based Bioscaffold Delivery of Minocycline Hydrochloride for Nerve Regeneration", **2023**, *Materials Chemistry and Physics*, 305, 127974. (▲:0; SCI; **IF:4.3** at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
- 19. 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 MAPbI₃ Films", 2023, *Journal of physics D-Applied Physics*, 56, 305105. (▲:0; SCI; IF:3.1 at 2023; Ranking:68/179=38.0% in Physics, Applied)
- 20. 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 PbI₂ Precursor", 2023, Organic Electronics, 120, 106847. (▲:1; SCI; IF:2.7 at 2023; Ranking:77/179=43.0% in Physics, Applied)

### 2022

- 21. Shih-Hsuan Chen, Ching-Mei Ho, Yin-Hsuan Chang, Kun-Mu Lee, and Ming-Chung Wu\*, "Efficient Perovskite Solar Cells with Low J-V Hysteretic Behavior on Mesoporous Sn-Doped TiO<sub>2</sub> Electron Extraction Layer", 2022, *Chemical Engineering Journal*, 445, 136761. (▲:17; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
- 22. Shun-Hsiang Chan, Yin-Hsuan Chang, Meng-Huan Jao, Kai-Chi Hsiao, Kun-Mu Lee, Chao-Sung Lai, and Ming-Chung Wu\*, "High Efficiency Quasi-2D/3D Pb-Ba Perovskite Solar Cells via PEACI Addition", 2022, Solar RRL, 6, 2101098. (▲:5; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)
- 23. 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. (▲:9; SCI; IF:5.5 at 2023; Ranking:31/170=18.2% in Engineering, Chemical)
- **24.** 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. (▲:9; SCI; **IF:10.7** at 2023; Ranking:1/94=1.1% in Polymer Science)
- 25. Yi-Pei Jiang<sup>†</sup>, Ming-Chung Wu<sup>†</sup>, Ting-Han Lin, Yin-Hsuan Chang, and Jer-Chyi Wang<sup>\*</sup>, "Color Discrimination in Color Vision Deficiency: Photon-Assisted Piezoelectric IGZO Color-Tactile Sensors with P(VDF-TrFE)/Metal-Decorated TiO<sub>2</sub>-Nanofibers Nanocomposites", 2022, *Advanced Materials Technologies*, 7, 2101147. (▲:1; SCI; IF:6.4 at 2023; Ranking:120/438=27.4% in Materials Science, Multidisciplinary)
- 26. Kun-Mu Lee\*†, Shun-Hsiang Chan\*†, Chang-Chieh Ting, Shih-Hsuan Chen, Wei-Hao Chiu, Vembu Suryanarayanan, Jen-Fu Hsu, Ching-Yuan Liu\*, and Ming-Chung Wu\*, "Surfactant Tween 20 Controlled Perovskite Film Fabricated by Thermal Blade Coating for Efficient Perovskite Solar Cells", 2022, Nanomaterials, 12, 2651. (▲:3; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
- **27.** 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. (▲:**2**; SCI; **IF:4.2** at 2023; Ranking:31/94=33.0% in Polymer Science)

- 28. 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 Voc and Efficient Inverted Organometal Halide Perovskite Solar Cell", 2021, *Chemical Engineering Journal*, 409, 128100. (▲:14; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
- 29. 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. (▲:9; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
- 30. Ching-Mei Ho<sup>†</sup>, Ming-Chung Wu<sup>\*†</sup>, Shih-Hsuan Chen, Yin-Hsuan Chang, Ting-Han Lin, Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee<sup>\*</sup>, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", 2021, *Solar RRL*, 5, 2100257. (▲:9; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) (Selected as an inside back cover of Solar RRL!!)
- 31. Ting-Han Lin<sup>†</sup>, Ming-Chung Wu\*<sup>†</sup>, 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<sub>2</sub> Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", 2021, Journal of the Taiwan Institute of Chemical Engineers, 120, 291-299. (▲:10; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
- 32. 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/TiO₂ Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", 2021, Advanced Materials Interfaces, 8, 2101467. (▲:9; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) (Selected as a frontispiece of Advanced Materials Interfaces!!)
- 33. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang\*, and Ming-Chung Wu\*, "Nanoscale Multidimensional Pd/TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", 2021, *Catalysts*, 11, 59. (▲:10; SCI; IF:3.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)



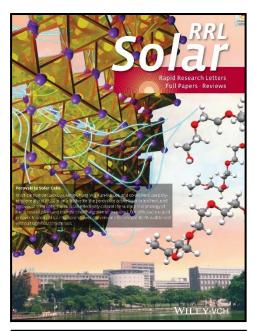


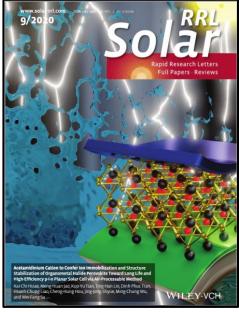
- **34.** Ming-Chung Wu\*, Ruei-Yu Kuo, Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, and Wei-Feng Su, "Alkali Metal Cation Incorporated Ag₃Bil₆ Absorbers for Efficient and Stable Rudorffite Solar Cells", **2021**, **Oxford Open Materials Science**, 1, itab017. (▲:3; SCI; **IF:2.9** at 2022; Ranking:220/438=50.2% in Materials Science, Multidisciplinary)
- **35.** Kun-Mu Lee\*, Shun-Hsiang Chan, Min-Yao Hou, Wei-Cheng Chu, Shih-Hsuan Chen, Sheng-Min Yu, and Ming-Chung Wu\*, "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Thermal Assisted Blade Coating Method", **2021**, *Chemical Engineering Journal*, 405, 126992. (▲:18; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)

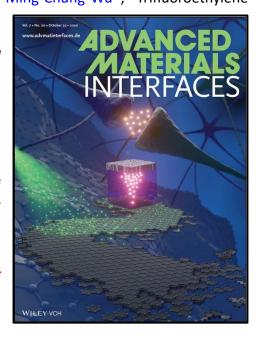
- **36.** Ishita Chakraborty, Sz-Nian La, Ming-Chung Wu, Hsun-Yen Lin, Chuan Li, Jyh Ming Wu\*, and Chao-Sung Lai\*, "Charge Trapping with α-Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Accompanied by Human Hair Towards an Enriched Triboelectric Series and a Sustainable Circular Bioeconomy", **2021**, *Materials Horizons*, 2021, 8, 3149-3162. (▲:13; SCI; IF:12.2 at 2023; Ranking:43/438=9.8% in Materials Science, Multidisciplinary)
- **37.** 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. (▲:4; SCI; IF:5.8 at 2023; Ranking:12/94=12.8% in Polymer, Science)
- 38. 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. (▲:5; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
- 39. 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. (▲:6; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
- **40.** 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. (▲:14; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
- **41.** Wei-Hao Chiu, Kun-Mu Lee\*, Vembu Suryanarayanan, Jen-Fu Hsu\*, and Ming-Chung Wu\*, "Controlled Photoanode Properties for Large-Area Efficient and Stable Dye-Sensitized Photovoltaic Modules", **2021**, *Nanomaterials*, 11, 2125. (▲:5; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
- **42.** 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 CH₃NH₃Pbl₃ Perovskite Films by Different Photon Energies", **2021**, *Physical Chemistry Chemical Physics*, 23, 10919. (▲:3; SCI; IF:2.9 at 2023; Ranking:11/40=27.5% in Physics, Atomic, Molecular & Chemical)

- **43.** 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 TiO₂ Electron Transport Layer", **2020**, *Small*, 16, 2002201. (▲:16; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
- 44. 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. (▲:18; SCI; IF:8.0 at 2023; Ranking:5/106=4.6% in Chemistry, Analytical)
- **45.** 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<sub>0.4</sub>FA<sub>0.6</sub>Ba<sub>x</sub>Pb<sub>1-x</sub>I<sub>y</sub>Cl<sub>3-y</sub> Perovskite Solar Cells", **2020**, *Applied Surface Science*, 521, 146451. (▲:8; SCI; **IF:6.3** at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)

- 46. 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. (▲:17; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) (Selected as a frontispiece of Solar RRL!!)
- 47. 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. (▲:14; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) (Selected as a inside front cover of Solar RRL!!)
- 48. 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. (▲:13; SCI; IF:6.0 at 2023; Ranking:62/173=35.8% in Energy & Fuels)
- 49. 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. (▲:10; SCI; IF:4.8 at 2023; Ranking:5/40=12.5% in Physics, Atomic, Molecular & Chemical)
- 50. 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. (▲:10; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
- 51. 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. (▲:2; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
- 52. 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. ( ▲ :7; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) (Selected as an inside front cover cover of Advanced Materials Interfaces!!)







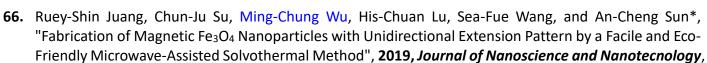
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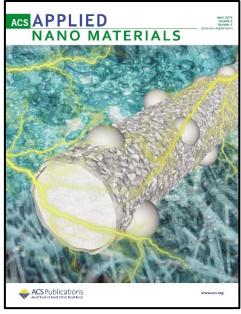


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# Non-SCI Journal Paper Publications

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