

Prof. Ming-Chung Wu of Chang Gung University (Update 2026/08/11)

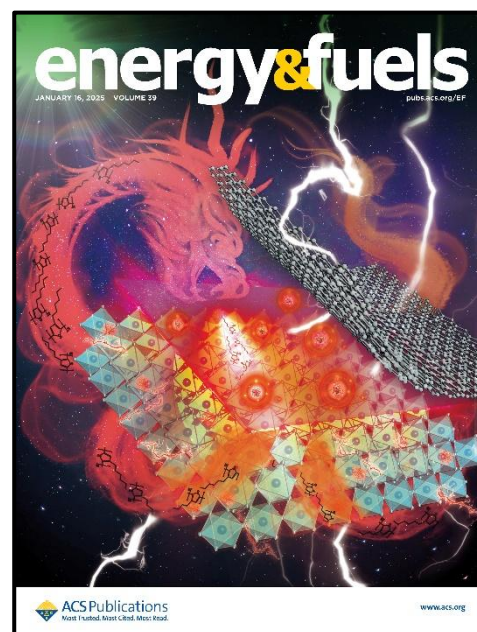
SCI Journal Paper

2026

1. Chien-Chih Tseng, Chang-Hsun Huang, Jui-Cheng Kao, Jui-Han Fu, Aowen Li, Ryo Ishikawa, Seong Rae Cho, Chenxi Lei, Wei-Chun Chen, [Ming-Chung Wu](#), Fong-Zhi Chen, Yu-Wei Lin, Cheng-Tang Pan, Yu-Chieh Lo, Ya-Lun Ho, Kosuke Nagashio, Yi-Chia Chou, Naoya Shibata, Chun-Wei Pao, and Vincent Tung*, "Wafer-Scale Epitaxy of High-Mobility P-Type Boron Carbon Nitride", **2026, *Nature***, Accepted. (▲:0; SCI; IF:56.1 at 2025; Ranking:1/140=0.7% in Multidisciplinary Sciences)
2. Ting-Han Lin, Yin-Hsuan Chang, Jia-Mao Chang, Ciao-Yun Huang, Kai-Chi Hsiao, Kuo-Ping Chiang, Ying-Han Liao, Kai-Hsiang Hsu, Jen-Fu Hsu, and [Ming-Chung Wu*](#), "Unconstrained Coordination of Pt Single Atoms on Distorted g-C₃N₄ Enables Electronic Flexibility and Enhanced Microplastics Photoreforming", **2026, *Advanced Science***, e76070. (▲:0; SCI; IF:14.1 at 2025; Ranking:24/250=9.6% in Chemistry, Multidisciplinary)
3. Harini Srikanth Rao, Wei-Hao Chiu, Shih-Hsuan Chen, [Ming-Chung Wu](#), and Kun-Mu Lee*, "2T Perovskite Tandem Solar Cells in Space: Failure Mechanisms and Design Strategies", **2026, *Materials Today Energy***, 60, 102359. (▲:0; SCI; IF:8.1 at 2025, Ranking:99/472=21.0% in Materials Science, Multidisciplinary)
4. Wei-Hao Chiu, Wei-Lun Yu, [Ming-Chung Wu](#), Jen-Fu Hsu, Gao Chen, Ching-Yuan Liu*, and Kun-Mu Lee*, "Synergistic Preheating and Moderate Temperature Liquid Medium Annealing for High Performance Perovskite Solar Cells", **2026, *Solar Energy***, 309, 114430. (▲:0; SCI; IF:7.9 at 2025; Ranking:50/191=26.2% in Energy & Fuels)
5. Dinh Nam Nguyen, Ting-Han Lin, Ha Thi Vu Nguyen, [Ming-Chung Wu](#), Nguyen Xuan Duong, and Duy Linh Vu*, "High-Performance Triboelectric Nanogenerator Based on Luffa-Derived Cellulosic Porous Membrane for Sustainable Energy Harvesting", **2026, *Journal of the Taiwan Institute of Chemical Engineers***, 189, 106869. (▲:0; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
6. Yin-Hsuan Chang†, [Ming-Chung Wu†*](#), Ting-Han Lin, Jia-Mao Chang, Yu-Ching Huang*, and Jer-Chyi Wang*, "Self-Precipitated Metal-Doped Titanate Nanofiber Substrates for Surface-Enhanced Raman Scattering of Organic Analytes", **2026, *Journal of the Taiwan Institute of Chemical Engineers***, 178, 106396. (▲:1; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
7. 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. (▲:6; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
8. Chien-Lin Huang*, Yi-Chen Lin, Kai-Wun Chen, Yin-Hsuan Chang, [Ming-Chung Wu](#), and Su-Wen Hsu, "Electrospun Thermoplastic Polyurethane Fibers Functionalized with MOFs and Ag Nanocubes for Enhanced VOC Detection", **2026, *Surfaces and Interfaces***, 87, 108933. (▲:0; SCI; IF:6.0 at 2025; Ranking:40/191=20.9% in Physics, Applied)

2025

9. Ming-Chung Wu*, Kai-Chi Hsiao, Chuliang Fu, Ting-Han Lin, Yin-Hsuan Chang, Yu-Ching Huang, Mu-Ping Nieh, Wei-Fang Su, and Mingda Li*, "Giant, Non-Perturbative Tuning of Light-Matter Interaction of Embedded Quantum Dots in Semiconducting Matrices", **2025, *Advanced Composites and Hybrid Materials*, 8, 281.** (▲:2; SCI; IF:15.5 at 2025; Ranking:2/35=5.7% in Materials Science, Composites)
10. Hyun Sik Moon, Yu-Jeong Yang, Getasew Mulualem Zewdi, Geon Youn, Yi-An Chen, Yu-Peng Chang, Kai-Chi Hsiao, Ting-Han Lin, Yi-Dong Lin, Jun Kue Park, Jucheol Park, Yan-Gu Lin, Ming-Chung Wu, Yung-Jung Hsu, Hyeyoung Shin*, Si-Young Choi*, and Kijung Yong*, "Tailoring Cu₃N_x Clusters on TiO₂ Nanosheets to The Sub-Nanometric Scale for Enhancing NH₃ Photosynthesis", **2025, *Chemical Engineering Journal*, 515, 163915.** (▲:4; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
11. Tz-Feng Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh, Shu-Chi Lu, Ting-Han Lin, Hao-Yun Yu, and Ming-Chung Wu*, "Carbazole-Functionalized Nanocomposite Fibers for Sensitive Alcohol Vapor Detection", **2025, *Surface and Coatings Technology*, 518, 132883.** (▲:0; SCI; IF:6.9 at 2025; Ranking:4/25=16.0% in Materials Science, Coatings & Films)
12. Ming-Chung Wu†*, Yin-Hsuan Chang†, Ting-Han Lin†, Chun-Yuan Wu, Jia-Mao Chang, and Yu-Jen Lu*, "Enhanced Photothermal Therapy for Tumor Ablation: Structural and Functional Insights into Bi₂Se₃ Nanosheets as Light-to-Heat Converter", **2025, *Discover Nano*, 20, 106.** (▲:3; SCI; IF:6.7 at 2025; Ranking:35/191=18.3% in Physics, Applied)
13. Shih-Han Huang, Yu-Hsiang Chen, Hou-Chin Cha, Damian Glowienka, Ming-Chung Wu*, and Yu-Ching Huang*, "Polymer-Enhanced Active Layer Crystallization in Low-Temperature Carbon-Based Perovskite Solar Cells", **2025, *Energy & Fuels*, 39, 1401-1408.** (▲:2; SCI; IF:6.0 at 2025; Ranking:45/183=24.6% in Engineering, Chemical) **(Selected as a supplementary cover of Energy & Fuels!!)**
14. Priyanka Chaudhary, Dun-Heng Tan, Chia-Hsien Lee, Chun-Yu Chang, Ting-Han Lin, Ming-Chung Wu, Wei-Fang Su, Meng-Fang Lin*, and Yu-Ching Huang*, "3D-Printed Artificial Cornea Featuring Aligned Fibrous Structure and Enhanced Mechanical Strength", **2025, *International Journal of Bioprinting*, 11, 598-613.** (▲:1; SCI; IF:5.0 at 2025; Ranking:39/130=30.0% in Engineering, Biomedical)

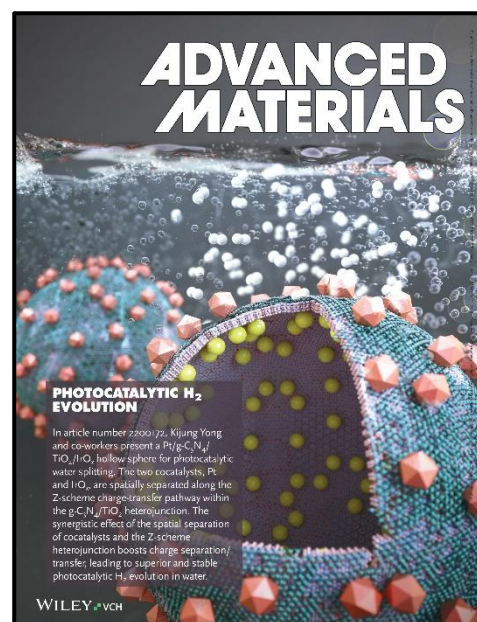


2024

15. 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*, 11, 2309526.** (▲:15; SCI; IF:14.1 at 2025; Ranking:24/250=9.6% in Chemistry, Multidisciplinary)
16. 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.** (▲:4; SCI; IF:4.2 at 2025; Ranking:2/42=4.8% in Nuclear Science & Technology)
17. 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.** (▲:30; SCI; IF:3.7 at 2025; Ranking:25/97=25.8% in Metallurgy & Metallurgical Engineering)

18. Yi-An Chen, Yuhi Nakayasu, Yu-Chang Lin, Jui-Cheng Kao, Kai-Chi Hsiao, Quang-Tuyen Le, Kao-Der Chang, [Ming-Chung Wu](#), Jyh-Pin Chou, Chun-Wei Pao, Tso-Fu Mark Chang, Masato Sone, Chun-Yi Chen*, Yu-Chieh Lo*, Yan-Gu Lin*, Akira Yamakata*, Yung-Jung Hsu*, "Double-Hollow Au@CdS Yolk@Shell Nanostructures as Superior Plasmonic Photocatalysts for Solar Hydrogen Production", **2024, *Advanced Functional Materials***, 34, 2402392. (▲:46; SCI; IF:19.9 at 2025; Ranking:11/250=4.4% in Chemistry, Multidisciplinary)
19. 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 CO₂ Electrolysis for Directly Driving Fuel Cell", **2024, *Angewandte Chemie-International Edition***, 63, e202317628. (▲:93; SCI; IF:17.6 at 2025; Ranking:16/250=6.4% in Chemistry, Multidisciplinary)
20. 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 Piezoresistive MDMO-PPV-Based Copolymers in Nociceptive Transmission with Fast and Slow Pain for an Artificial Pain-Perceptual System", **2024, *Small***, 20, 202311040. (▲:10; SCI; IF:11.8 at 2025; Ranking:16/191=8.4% in Physics, Applied)
21. 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 SnO₂ on Mesoporous TiO₂ Electrode", **2024, *Materials Today Chemistry***, 41, 102329. (▲:11; SCI; IF:7.4 at 2025; Ranking:57/250=22.8% in Chemistry, Multidisciplinary)
22. Jer-Chyi Wang*, Tzu-Chuan Yang, Tzu-Wei Hsu, Ping-Jung Huang, Peng-Nang Chen, Chen-Yang Tseng, Ting-Han Lin, Jia-Mao Chang, Chang-Heng Liu, Wen-Ling Yeh*, and [Ming-Chung Wu*](#), "Self-Powered Piezoelectric Ultraviolet Photodetectors Based on TiO₂-NFs:P(VDF-TrFE) Nanocomposites via Ultraviolet-Assisted Thermal Annealing for the Prevention of Ultraviolet Overexposure", **2024, *Journal of the Taiwan Institute of Chemical Engineers***, 165, 105808. (▲:2; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
23. 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. (▲:5; SCI; IF:6.3 at 2025; Ranking:2/34=5.9% in Materials Science, Ceramics)
24. 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. (▲:1; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
25. 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. (▲:21; SCI; IF:5.1 at 2025; Ranking:56/183=30.6% in Engineering, Chemical)

26. 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. (▲:20; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
27. 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. (▲:13; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
28. 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. (▲:7; SCI; IF:5.8 at 2025; Ranking:18/96=18.8% in Polymer Science)
29. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, Yu-Ching Huang*, and [Ming-Chung Wu*](#), "Electrospun SnO₂/WO₃ Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:9; SCI; IF:5.8 at 2025; Ranking:18/96=18.8% in Polymer Science)
30. [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. (▲:2; SCI; IF:5.2 at 2025; Ranking:85/369=23.0% in Engineering, Electrical & Electronic)
31. [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. (▲:2; SCI; IF:4.8 at 2025; Ranking:52/192=27.1% in Physics, Applied)
32. 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. (▲:325; SCI; IF:29.1 at 2025; Ranking:5/250=2.0% in Chemistry, Multidisciplinary) **(Selected as a frontispiece cover of *Advanced Materials*!!)**
33. 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. (▲:21; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
34. 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. (▲:6; SCI; IF:5.6 at 2025; Ranking:72/328=22.0% in Biochemistry & Molecular biology)



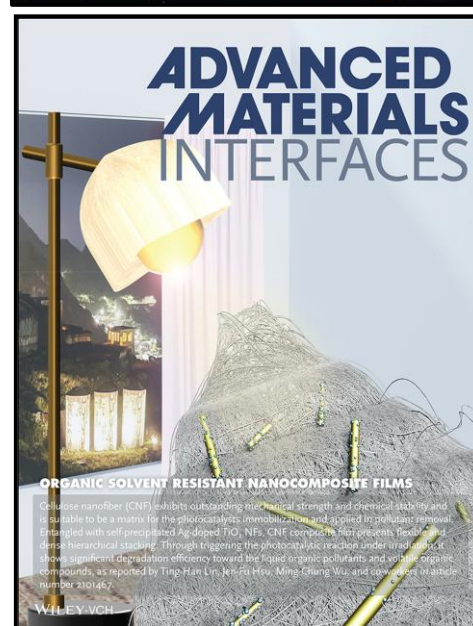
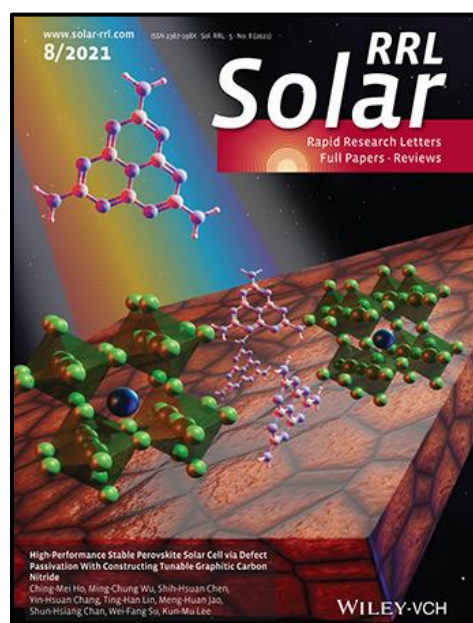
35. An-Jey A. Su, Ning Jiang, Shyh-Chyang Luo, Kia M. Washington, [Ming-Chung Wu](#), Yu-Ching Huang*, and Wei-Fang Su*, "Fibrous Polypeptide Based Bioscaffold Delivery of Minocycline Hydrochloride for Nerve Regeneration", **2023, *Materials Chemistry and Physics***, 305, 127974. (▲:4; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
36. 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. (▲:4; SCI; IF:3.2 at 2025; Ranking:86/191=45.0% in Physics, Applied)
37. 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. (▲:10; SCI; IF:2.9 at 2025; Ranking:96/196=49.0% in Physics, Applied)

2022

38. 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. (▲:30; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
39. [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. (▲:17 SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
40. 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:4.8 at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)
41. 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-Cellulose Composites", **2022, *Carbohydrate Polymers***, 291, 119549. (▲:37; SCI; IF:13.2 at 2025; Ranking:1/58=1.7% in Chemistry, Organic)
42. 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 TiO₂-Nanofibers Nanocomposites", **2022, *Advanced Materials Technologies***, 7, 2101147. (▲:5; SCI; IF:6.0 at 2025; Ranking:144/472=30.5% in Materials Science, Multidisciplinary)
43. 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. (▲:5; SCI; IF:5.2 at 2025; Ranking:22/96=22.9% in Polymer Science)
44. 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. (▲:10; SCI; IF:4.8 at 2025; Ranking:52/192=27.1% in Physics, Applied)

2021-

45. 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. (▲:20; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)
46. 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. (▲:22; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
47. 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. (▲:11; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
48. 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. (▲:18; SCI; IF:4.8 at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**
49. 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/ TiO_2 Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021, *Advanced Materials Interfaces***, 8, 2101467. (▲:10; SCI; IF:4.5 at 2025; Ranking:95/250=38.0% in Chemistry, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**
50. 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. (▲:21; SCI; IF:4.5 at 2025; Ranking:81/191=42.4% in Chemistry, Physical)
51. [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. (▲:6; SCI; IF:4.3 at 2025; Ranking:208/472=44.1% in Materials Science, Multidisciplinary)
52. 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. (▲:30; SCI; IF:12.5 at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

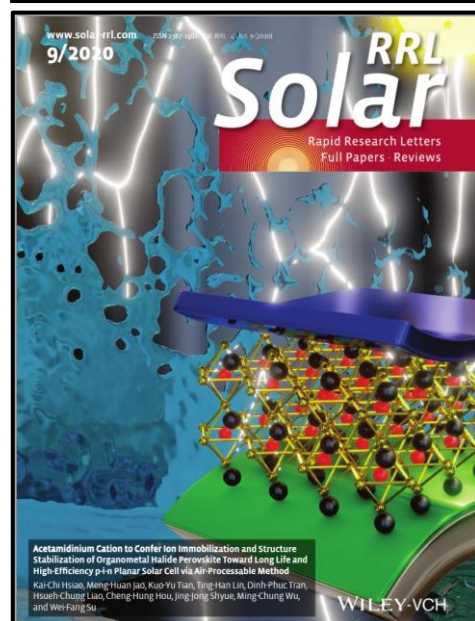
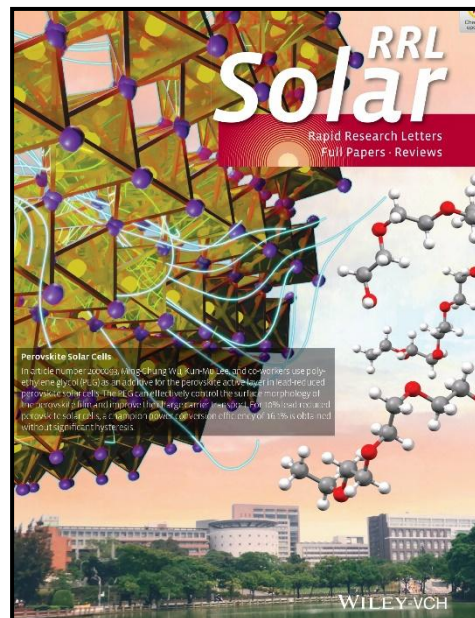


53. Ishita Chakraborty, Sz-Nian La, [Ming-Chung Wu](#), Hsun-Yen Lin, Chuan Li, Jyh Ming Wu*, and Chao-Sung Lai*, "Charge Trapping with α -Fe₂O₃ Nanoparticles Accompanied by Human Hair Towards an Enriched Triboelectric Series and a Sustainable Circular Bioeconomy", **2021, *Materials Horizons***, 2021, 8, 3149-3162. (▲:31; SCI; IF:11.4 at 2025; Ranking:28/250=11.2% in Chemistry, Multidisciplinary)
54. 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. (▲:7; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
55. 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. (▲:9; SCI; IF:6.8 at 2025; Ranking:10/96=10.4% in Polymer, Science)
56. 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*, "Reducing 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. (▲:7; SCI; IF:4.8 at 2025; Ranking:52/192=27.1% in Physics, Applied)
57. 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. (▲:9; SCI; IF:4.8 at 2025; Ranking:52/192=27.1% in Physics, Applied)
58. 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. (▲:24; SCI; IF:4.8 at 2025; Ranking:52/192=27.1% in Physics, Applied)
59. 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 CH₃NH₃PbI₃ Perovskite Films by Different Photon Energies", **2021, *Physical Chemistry Chemical Physics***, 23, 10919. (▲:7; SCI; IF:3.0 at 2025; Ranking:11/38=28.9% in Physics, Atomic, Molecular & Chemical)

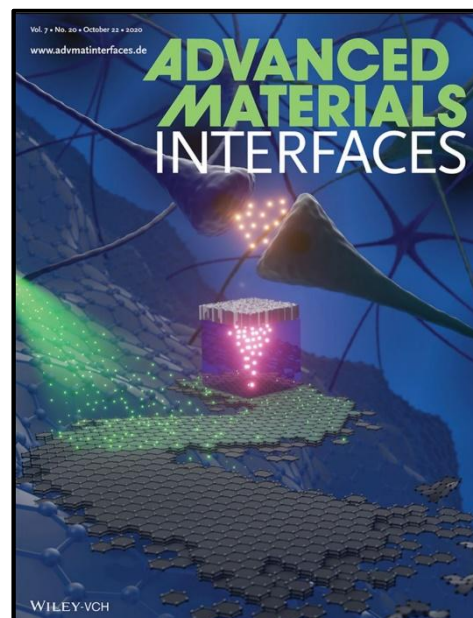
2020-

60. [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. (▲:20; SCI; IF:11.8 at 2025; Ranking:16/191=8.4% in Physics, Applied)
61. [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. (▲:25; SCI; IF:8.3 at 2025; Ranking:2/81=2.5% in Instruments & Instrumentation)
62. 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. (▲:17; SCI; IF:7.9 at 2025; Ranking:50/191=26.2% in Energy & Fuels)

63. 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}Cl_{3-y} Perovskite Solar Cells", **2020, *Applied Surface Science***, 521, 146451. (▲:11; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
64. 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. (▲:15; SCI; IF:5.8 at 2025; Ranking:18/96=18.8% in Polymer Science)
65. [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. (▲:24; SCI; IF:4.8 at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)
(Selected as a frontispiece of Solar RRL!!)
66. 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. (▲:20; SCI; IF:4.8 at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)
(Selected as a inside front cover of Solar RRL!!)
67. 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. (▲:11; SCI; IF:4.5 at 2025; Ranking:7/39=18.0% in Physics, Atomic, Molecular & Chemical)
68. 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. (▲:6; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
69. 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 CF₄-Plasma-Treated IGZO Thin-Film Transistors Coated by P(VDF-TrFE) Copolymers", **2020, *Sensors and Actuators A: Physical***, 304, 111855. (▲:6; SCI; IF:5.1 at 2025; Ranking:15/81=18.5% in Instruments & Instrumentation)
70. 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. (▲:8; SCI; IF:5.1 at 2025; Ranking:24/96=25.0% in Polymer Science)



71. 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. (▲:9; SCI; IF:4.5 at 2025; Ranking:95/250=38.0% in Chemistry, Multidisciplinary) (**Selected as an inside front cover cover of *Advanced Materials Interfaces*!!**)
72. 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. (▲:42; SCI; IF:2.9 at 2025; Ranking:96/196=49.0% in Physics, Applied)



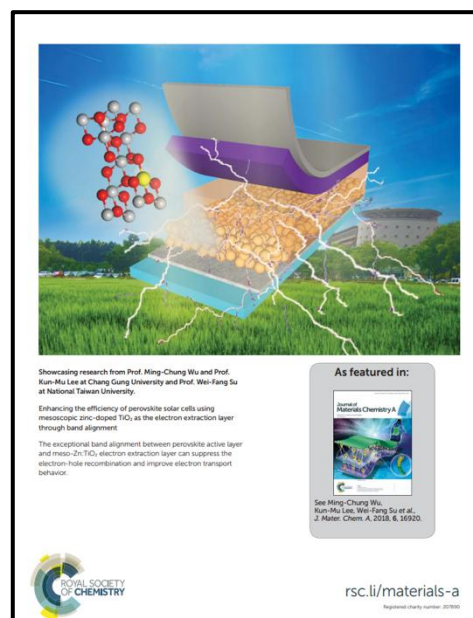
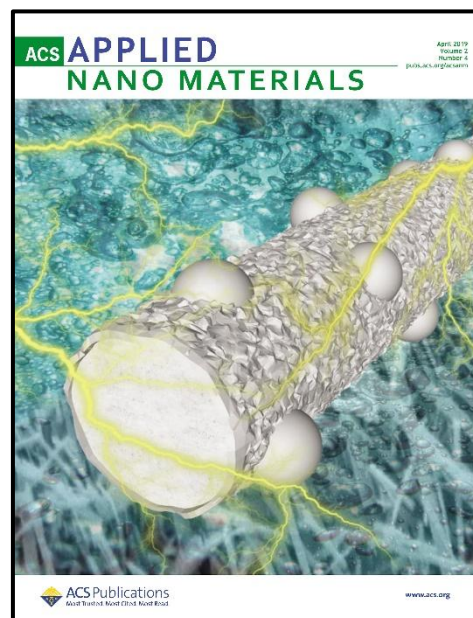
2019-

73. [Ming-Chung Wu*](#), Chi-Hung Lin, Ting-Han Lin, Shun-Hsiang Chan, Yin-Hsuan Chang, Tz-Feng Lin, Ziming Zhou, Kai Wang, and Chao-Sung Lai*, "Ultrasensitive Detection of Volatile Organic Compounds by Freestanding Aligned Ag/CdSe-CdS/PMMA Texture with Double-Silide UV-Ozone Treatment", **2019, *ACS Applied Materials & Interfaces***, 11, 34454-34462. (▲:12; SCI; IF:7.8 at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)
74. Jer-Chyi Wang*, Rajat Subhra Karmakar, Yu-Jen Lu*, Shun-Hsiang Chan, [Ming-Chung Wu](#), Kun-Ju Lin, Chin-Kuo Chen, Kuo-Chen Wei, and Yong-Hsing Hsu, "Miniaturized Flexible Piezoresistive Pressure Sensors: Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Copolymers Blended with Graphene Oxide for Biomedical Applications", **2019, *ACS Applied Materials & Interfaces***, 11, 34305-34315. (▲:44; SCI; IF:7.8 at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)
75. Duy Linh Vu, Yi-Ying Li, Ting-Han Lin, and [Ming-Chung Wu*](#), "Fabrication and Humidity Sensing Property of UV/Ozone Treated PANI/PMMA Electrospun Fibers", **2019, *Journal of the Taiwan Institute of Chemical Engineers***, 99, 250-257. (▲:17; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
76. [Ming-Chung Wu*](#), Ting-Han Lin, Kai-Hsiang Hsu, and Jen-Fu Hsu*, "Photo-Induced Disinfection Property and Photocatalytic Activity Based on the Synergistic Catalytic Technique of Ag Doped TiO₂ Nanofibers", **2019, *Applied Surface Science***, 484, 326-334. (▲:61; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
77. [Ming-Chung Wu*](#), Wei-Kang Huang, Ting-Han Lin, and Yu-Jen Lu*, "Photocatalytic Hydrogen Production and Photodegradation of Organic Dyes of Hydrogenated TiO₂ Nanofibers Decorated Metal Nanoparticles", **2019, *Applied Surface Science***, 469, 34-43. (▲:33; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
78. Shih-Hsuan Chen, Shun-Hsiang Chan, Yen-Tung Lin, and [Ming-Chung Wu*](#), "Enhanced Power Conversion Efficiency of Perovskite Solar Cells Based on Mesoscopic Ag-Doped TiO₂ Electron Transport Layer", **2019, *Applied Surface Science***, 469, 18-26. (▲:49; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)

79. Ming-Chung Wu*, Kai-Chi Hsiao, Yin-Hsuan Chang, and Krisztián Kordás, "Core-Shell Heterostructures of Rutile and Anatase TiO₂ Nanofibers for Photocatalytic Solar Energy Conversion", **2019, ACS Applied Nano Materials**, 2, 1970-1979. (▲:21; SCI; IF:5.8 at 2025; Ranking:148/472=31.4% in Materials Science, Multidisciplinary) **(Selected as a supplementary cover of ACS Applied Nano Materials!!)**
80. Kai-Chi Hsiao, Meng-Huan Jao, Bo-Ting Lee, Ting-Han Lin, Hsuen-Chung Stan Liao, Ming-Chung Wu, and Wei-Fang Su*, "Enhancing Efficiency and Stability of Hot Casting p-i-n Perovskite Solar Cell via Dipolar Ion Passivation", **2019, ACS Applied Energy Materials**, 2, 4821-4832. (▲:63; SCI; IF:5.5 at 2025; Ranking:162/472=34.3% in Materials Science, Multidisciplinary)
81. Yin-Hsuan Chang, and Ming-Chung Wu*, "Enhanced Photocatalytic Reduction of Cr(VI) by Combined Magnetic TiO₂-Based NFs and Ammonium Oxalate Hole Scavenger", **2019, Catalysts**, 9, 72, 1-12. (▲:34; SCI; IF:4.5 at 2025; Ranking:81/191=42.4% in Chemistry, Physical)
82. Shun-Hsiang Chan, Yin-Hsuan Chang, and Ming-Chung Wu*, "High-Performance Perovskite Solar Cells Based on Low-Temperature Processed Electron Extraction Layer", **2019, Frontiers in Materials**, 6, 1-7. (▲:18; SCI; IF:3.5 at 2025; Ranking:248/472=52.5% in Materials Science, Multidisciplinary)
83. Ruey-Shin Juang, Chun-Ju Su, Ming-Chung Wu, His-Chuan Lu, Sea-Fue Wang, and An-Cheng Sun*, "Fabrication of Magnetic Fe₃O₄ Nanoparticles with Unidirectional Extension Pattern by a Facile and Eco-Friendly Microwave-Assisted Solvothermal Method", **2019, Journal of Nanoscience and Nanotechnology**, 19, 7645-7653. (▲:11; SCI; IF:1.134 at 2019; Ranking:137/177=77.4% in Chemistry, Multidisciplinary)

2018-

84. 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. (▲:87; SCI; IF:9.2 at 2025; Ranking:82/472=17.4% in Materials Science, Multidisciplinary) **(Selected as a back cover of Journal of Materials Chemistry A!!)**
85. Ming-Chung Wu*, Wei-Cheng Chen, Shun-Hsiang Chan, and Wei-Fang Su, "The Effect of Strontium and Barium Doping on Perovskite-Structured Energy Materials for Photovoltaic Applications", **2018, Applied Surface Science**, 429, 9-15. (▲:55; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
86. Ming-Chung Wu*, Po-Yeh Wu, Ting-Han Lin, and Tz-Feng Lin, "Photocatalytic Performance of Cu-Doped TiO₂ Nanofibers Treated by the Hydrothermal Synthesis and Air-Thermal Treatment", **2018, Applied Surface Science**, 430, 390-398. (▲:99; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
87. Ming-Chung Wu*, Kai-Chi Hsiao, Yin-Hsuan Chang, and Shun-Hsiang Chan, "Photocatalytic Hydrogen Evolution of Palladium Nanoparticles Decorated Black TiO₂ Calcined in Argon Atmosphere", **2018, Applied Surface Science**, 430, 407-414. (▲:44; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)



88. 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 Solar Cells", **2018, *Chemosuschem***, 11, 3234-3242. (▲:6; SCI; IF:5.9 at 2025; Ranking:73/250=29.2% in Chemistry, Multidisciplinary)
89. [Ming-Chung Wu*](#), Tzu-Hao Lin, Shun-Hsiang Chan, Ying-Han Liao, and Yin-Hsuan Chang, "Enhanced Photovoltaic Performance of Perovskite Solar Cells by Tuning Alkaline Earth Metal-Doped Perovskite-Structured Absorber and Metal-Doped TiO₂ Hole Blocking Layer", **2018, *ACS Applied Energy Materials***, 9, 4849-4859. (▲:16; SCI; IF:5.5 at 2025; Ranking:162/472=34.3% in Materials Science, Multidisciplinary)
90. [Ming-Chung Wu*](#), Ying-Han Liao, Shun-Hsiang Chan, Chun-Fu Lu, and Wei-Fang Su, "Enhancing Organolead Halide Perovskite Solar Cells Performance Through Interfacial Engineering Using Ag-Doped TiO₂ Hole Blocking Layer", **2018, *Solar RRL***, 2, 1800072. (▲:24; SCI; IF:4.8 at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)
91. [Ming-Chung Wu*](#), Ming-Pin Lin, Ting-Han Lin, and Wei-Fang Su, "Ag/SiO₂ Surface-Enhanced Raman Scattering Substrate for Plasticizer Detection", **2018, *Japanese Journal of Applied Physics***, 57, 04FM07. (▲:10; SCI; IF:1.7 at 2025; Ranking:145/191=75.9% in Physics, Applied)
92. Shun-Hsiang Chan, Tz-Feng Lin, [Ming-Chung Wu*](#), Shih-Hsuan Chen, Wei-Fang Su, and Chao-Shun Lai, "Using Aligned Poly(3-Hexylthiophene)/Poly(Methyl Methacrylate) Blend Fibers to Detect Volatile Organic Compounds", **2018, *Japanese Journal of Applied Physics***, 57, 04FM06. (▲:4; SCI; IF:1.7 at 2025; Ranking:145/191=75.9% in Physics, Applied)

2017-

93. 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. (▲:100; SCI; IF:9.2 at 2025; Ranking:82/472=17.4% in Materials Science, Multidisciplinary)
94. Jer-Chyi Wang*, Ya-Ting Chan, Wei-Fan Chen, [Ming-Chung Wu](#), and Chao-Sung Lai*, "Interface Modification of Bernal- and Rhombohedral-Stacked Trilayer-Graphene/Metal Electrode on Resistive Switching of Silver Electrochemical Metallization Cells", **2017, *ACS Applied Materials & Interfaces***, 9, 37031-37040. (▲:6; SCI; IF:7.8 at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)
95. [Ming-Chung Wu*](#), Tzu-Hao Lin, Shun-Hsiang Chan, and Wei-Fang Su, "Improved Efficiency of Perovskite Photovoltaics Based on Ca-Doped Methylammonium Lead Halide", **2017, *Journal of the Taiwan Institute of Chemical Engineers***, 80, 695-700. (▲:24; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
96. [Ming-Chung Wu*](#), Shun-Hsiang Chan, Tz-Feng Lin, Chun-Fu Lu, and Wei-Fang Su*, "Detection of Volatile Organic Compounds Using Electrospun P3HT/PMMA Fibrous Films", **2017, *Journal of the Taiwan Institute of Chemical Engineers***, 78, 552-560. (▲:16; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
97. 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. (▲:78; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
98. [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. (▲:54; SCI; IF:4.9 at 2025; Ranking:21/140=15.0% in Multidisciplinary Science)

99. Rajat Karmakar, Yu-Jen Lu*, Yi Fu, Kuo-Chen Wei, Shun-Hsiang Chan, [Ming-Chung Wu](#), Jyh-Wei Lee, Tzu-Kang Lin, and Jer-Chyi Wang*, "Cross-Talk Immunity of PEDOT:PSS Pressure Sensing Arrays with Gold Nanoparticle Incorporation", **2017, *Scientific Reports***, 7, 12252. (▲:16; SCI; IF:4.9 at 2025; Ranking:21/140=15.0% in Multidisciplinary Science)
100. Kun-Mu Lee*, Chuan-Jung Lin, Yin-Hsuan Chang, Ting-Han Lin, Vembu Suryanarayanan, and [Ming-Chung Wu*](#), "The 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:3.4 at 2025; Ranking:80/191=41.9% in Physics, Applied)
101. [Ming-Chung Wu*](#), Yin-Hsuan Chang, and Ting-Han Lin, "Bismuth Doping Effect on Crystal Structure and Photodegradation Activity of Bi-TiO₂ Nanoparticles", **2017, *Japanese Journal of Applied Physics***, 56, 04CJ01. (▲:3; SCI; IF:1.7 at 2025; Ranking:145/191=75.9% in Physics, Applied)
102. [Ming-Chung Wu*](#), Ting-Han Lin, Jyun-Sian Chih, Kai-Chi Hsiao, and Po-Yeh Wu, "Niobium Doping Induced Morphological Changes and Enhanced Photocatalytic Performance of Anatase TiO₂", **2017, *Japanese Journal of Applied Physics***, 56, 04CP07. (▲:14; SCI; IF:1.7 at 2025; Ranking:145/191=75.9% in Physics, Applied)

2016-

103. [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. (▲:24; SCI; IF:7.9 at 2025; Ranking:50/191=26.2% in Energy & Fuels)
104. [Ming-Chung Wu*](#), I-Chun Chang, Kai-Chi Hsiao, and Wei-Kang Huang, "Highly Visible-Light Absorbing Black TiO₂ Nanocrystals Synthesized by Sol-Gel Method and Subsequent Heat Treatment in Low Partial Pressure H₂", **2016, *Journal of the Taiwan Institute of Chemical Engineers***, 63, 430-435. (▲:22; SCI; IF:6.9 at 2025; Ranking:37/183=20.2% in Engineering, Chemical)
105. [Ming-Chung Wu*](#), Shun-Hsiang Chan, Meng-Huan Jao, and Wei-Fang Su*, "Enhanced Short-Circuit Current Density of Perovskite Solar Cells Using Zn-Doped TiO₂ as Electron Transport Layer", **2016, *Solar Energy Materials and Solar Cells***, 157, 447-453 (▲:105; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
106. Jer-Chyi Wang*, Rajat Subhra Karmakar, Yu-Jen Lu, [Ming-Chung Wu](#), and Kuo-Chen Wei, "Nitrogen Plasma Surface Modification of PEDOT:PSS Films to Enhance the Piezoresistive Pressure Sensing Properties", **2016, *Journal of Physical Chemistry C***, 120, 25977-25984 (▲:19; SCI; IF:3.4 at 2025; Ranking:256/472=54.2% in Materials Science, Multidisciplinary)

2015-

107. [Ming-Chung Wu*](#), Pei-Huan Lee, and Dai-Lung Lee, "Enhanced Photocatalytic Activity of Palladium Decorated TiO₂ Nanofibers Containing Anatase-Rutile Mixed Phase", **2015, *International Journal of Hydrogen Energy***, 40, 4558-4566. (▲:41; SCI; IF:9.2 at 2025; Ranking:6/44=13.6% in Electrochemistry)
108. Shingjiang Jessie Lue*, Yu-Li Pai, Chao-Ming Shih, [Ming-Chung Wu](#), and Sun-Mou Lai, "Novel Bilayer Well-Aligned Nafion/Graphene Oxide Composite Membranes Prepared Using Spin Coating Method for Direct Liquid Fuel Cells", **2015, *Journal of Membrane Science***, 493, 212-223. (▲:81; SCI; IF:8.8 at 2025; Ranking:5/96=5.2% in Polymer Science)
109. Po-Hsuen Chen, Hsueh-Chung Liao, Sheng-Hao Hsu, Rung-Shu Chen, [Ming-Chung Wu](#), Yi-Fan Yang, Chau-Chung Wu, Min-Huey Chen*, and Wei-Fang Su*, "A Novel Polyurethane/Cellulose Fibrous Scaffold for Cardiac Tissue Engineering", **2015, *RSC Advances***, 5, 6932-6939. (▲:70; SCI; IF:6.1 at 2025; Ranking:71/250=28.4% in Chemistry, Multidisciplinary)

110. Ming-Chung Wu*, Kai-Chi Hsiao, and Hsin-Chun Lu, "Synthesis of InGaZnO₄ Nanoparticles Using Low Temperature Multistep Co-Precipitation Method", **2015, *Materials Chemistry and Physics***, 162, 386-391. (▲:25; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
111. 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. (▲:10; SCI; IF:3.1 at 2025; Ranking:10/43=23.3% in Spectroscopy)
112. Ming-Chung Wu*, Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication and Photocatalytic Performance of Electrospun PVA/Silk/TiO₂ Nanocomposite Textile", **2015, *Functional Materials Letters***, 8, 1540013. (▲:15; SCI; IF:1.0 at 2025; Ranking:425/472=90.0% in Materials Science, Multidisciplinary)

2014

113. Ming-Chung Wu*, Min-Ping Lin, Shih-Wen Chen, Pei-Huan Lee, Jia-Han Li, and Wei-Fang Su*, "Surface-Enhanced Raman Scattering Substrate Based on Ag Coated Monolayer Sphere Array of SiO₂ for Organic Dye Detecting", **2014, *RSC Advances***, 4, 10043-10050. (▲:39; SCI; IF:6.1 at 2025; Ranking:71/250=28.4% in Chemistry, Multidisciplinary)
114. Yu-Chieh Tu, Chun-Yu Chang, Ming-Chung Wu, Jing-Jong Shyue, and Wei-Fang Su*, "BiFeO₃/YSZ Bilayer Electrolyte for Low Temperature Solid Oxide Fuel Cell", **2014, *RSC Advances***, 4, 38, 19925-19931. (▲:6; SCI; IF:6.1 at 2025; Ranking:71/250=28.4% in Chemistry, Multidisciplinary)
115. Che-Pu Hsu, Tsung-Wei Zeng, Ming-Chung Wu, Yu-Chieh Tu, Hsueh-Chung Liao, and Wei-Fang Su*, "Hybrid Poly(3-hexyl thiophene)-TiO₂ Nanorods Oxygen Sensor", **2014, *RSC Advances***, 4, 44, 22926-22930. (▲:10; SCI; IF:6.1 at 2025; Ranking:71/250=28.4% in Chemistry, Multidisciplinary)
116. Ming-Chung Wu*, Hsueh-Chung Liao, Yu-Cheng Cho, Che-Pu Hsu, Ting-Han Lin, Wei-Fang Su, Andras Sapi, Akos Kukovecz, Zoltan Konya, Andrey Shchukarev, Anjana Sarkar, William Larsson, Jyri-Pekka Mikkola, Melinda Mohl, Geza Toth, Heli Jantunen, Anna Valtanen, Mika Huuhtanen, Riitta L. Keiski, and Krisztian Kordas, "Photocatalytic Activity of Nitrogen Doped TiO₂-Based Nanowires: A Photo-Assisted Kelvin Probe Force Microscopy Study", **2014, *Journal of Nanoparticle Research***, 16, 1-11. (▲:14; SCI; IF:3.5 at 2025; Ranking:114/250=45.6% in Chemistry, Multidisciplinary)
117. Ming-Chung Wu*, Jyun-Sian Chih, and Wei-Kang Huang, "Bismuth Doping Effect on TiO₂ Nanofibers for Morphological Change and Photocatalytic Performance", **2014, *CrystEngComm***, 16, 10692-10699. (▲:68; SCI; IF:2.4 at 2025; Ranking:15/31=48.4% in Crystallography)
118. Ming-Chung Wu*, I-Chun Chang, Wei-Kang Huang, Yu-Chieh Tu, Che-Pu Hsu, and Wei-Fang Su, "Correlation between Palladium Chemical State and Photocatalytic Performance of TiO₂-Pd Based Nanoparticles", **2014, *Thin Solid Films***, 570, 371-375. (▲:13; SCI; IF:2.4 at 2025; Ranking:47/81=58.0% in Physics, Condensed Matter)

2013-

119. Ming-Chung Wu*, Hsueh-Chung Liao, Yu-Cheng Cho, Geza Toth, Yang-Fang Chen, Wei-Fang Su, and Krisztian Kordas, "Photo-Kelvin Probe Force Microscopy for Photocatalytic Performance Characterization of Single Filament of TiO₂ Nanofiber Photocatalysts", **2013, *Journal of Materials Chemistry A***, 1, 5715-5720. (▲:48; SCI; IF:9.2 at 2025; Ranking:82/472=17.4% in Materials Science, Multidisciplinary)
120. Hsueh-Chung Liao, Che-Pu Hsu, Ming-Chung Wu, Chun-Fu Lu, and Wei-Fang Su*, "Conjugated Polymer/Nanoparticles Nanocomposites for High Efficient and Real-Time Volatile Organic Compounds Sensors", **2013, *Analytical Chemistry***, 85, 9305-9311. (▲:26; SCI; IF:7.3 at 2025; Ranking:12/110=10.9% in Chemistry, Analytical)

2012-

121. Sheng-Hao Hsu, [Ming-Chung Wu](#), Sharon Chen, Chih-Min Chuang, Shih-Hsiang Lin, and Wei-Fang Su*, "Synthesis, Morphology and Physical Properties of Multi-Walled Carbon Nanotube/Biphenyl Liquid Crystalline Epoxy Composites", **2012**, *Carbon*, 50, 896-905. (▲:54; SCI; IF:12.7 at 2025; Ranking:55/472=11.7% in Materials Science, Multidisciplinary)
122. Shao-Chin Tseng, Chen-Chieh Yu, Dehui Wan, Hsuen-Li Chen*, Lon Alex Wang, [Ming-Chung Wu](#), Wei-Fang Su, Hsieh-Cheng Han, and Li-Chyong Chen, "Eco-Friendly Plasmonic Sensors: Using The Photothermal Effect to Prepare Metal Nanoparticle-Containing Test Papers for Highly Sensitive Colorimetric Detection", **2012**, *Analytical Chemistry*, 84, 5140-5145. (▲:63; SCI; IF:7.3 at 2025; Ranking:12/110=10.9% in Chemistry, Analytical)
123. Jarmo Kukkola, Melinda Mohl, Anne-Riikka Leino, Geza Toth, [Ming-Chung Wu](#), Andrey Shchukarev, Alexey Popov, Jyri-Pekka Mikkola, Janne Lauri, Markus Riihimäki, Jyrki Lappalainen, Heli Jantunen, and Krisztian Kordas*, "Inkjet-Printed Gas Sensors: Metal Decorated WO₃ Nanoparticles and Their Gas Sensing Properties", **2012**, *Journal of Materials Chemistry*, 22, 17878-17886. (▲:66; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
124. [Ming-Chung Wu](#), Shih-Wen Chen, Jia-Han Li, Yi Chou, Jhih-Fong Lin, Yang-Fang Chen, and Wei-Fang Su*, "Manipulation of Extinction Spectra of P3HT/PMMA Medium Arrays on Silicon Substrate Containing Self-Assembled Gold Nanoparticles", **2012**, *Materials Chemistry and Physics*, 137, 61-68. (▲:0; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
125. Hsueh-Chung Liao, [Ming-Chung Wu](#), Meng-Huan Jao, Chih-Min Chuang, Yang-Fang Chen, and Wei-Fang Su*, "Synthesis, Optical and Photovoltaic Properties of Bismuth Sulfide Nanorods", **2012**, *CrystEngComm*, 14, 3645-3652. (▲:59; SCI; IF:2.4 at 2025; Ranking:15/31=48.4% in Crystallography)
126. Meng-Huan Jao, Hsueh-Chung Liao, [Ming-Chung Wu](#), and Wei-Fang Su*, "Synthesis and Characterization of Wurtzite Cu₂ZnSnS₄ Nanocrystals", **2012**, *Japanese Journal of Applied Physics*, 51, 10NC30. (▲:15; SCI; IF:1.7 at 2025; Ranking:145/191=75.9% in Physics, Applied)
127. [Ming-Chung Wu](#), Geza Toth, Andras Sapi, Zoltan Konya, Akos Kukovecz, Wei-Fang Su, and Krisztian Kordas*, "Synthesis and Photocatalytic Performance of Titanium Dioxide Nanofibers and The Fabrication of Flexible Composite Films From Nanofibers", **2012**, *Journal of Nanoscience and Nanotechnology*, 12, 1421-1424. (▲:22; SCI; IF:1.134 at 2019; Ranking:137/177=77.4% in Chemistry, Multidisciplinary)

2011-

128. [Ming-Chung Wu](#), Jussi Tapio Hiltunen, Andras Sapi, Anna Avila, William Larsson, Hsueh-Chung Liao, Mika Huuhtanen, Geza Toth, Andrey Shchukarev, Noemi Laufer, Akos Kukovecz, Zoltan Konya, Jyri-Pekka Mikkola, Riitta Keiski, Wei-Fang Su, Yang-Fang Chen, Heli Jantunen, Pulickel M Ajayan, Robert Vajtai*, and Krisztian Kordas, "Nitrogen-Doped Anatase Nanofibers Decorated with Noble Metal Nanoparticles for Photocatalytic Production of Hydrogen", **2011**, *ACS Nano*, 5, 5025-5030. (▲:143; SCI; IF:17.3 at 2025; Ranking:30/472=6.4% in Materials Science, Multidisciplinary)
129. [Ming-Chung Wu](#), Andras Sapi, Anna Avila, Maria Szabo, Jussi Hiltunen, Mika Huuhtanen, Geza Toth, Akos Kukovecz, Zoltan Konya, Riitta Keiski, Wei-Fang Su, Heli Jantunen, and Krisztian Kordas*, "Enhanced Photocatalytic Activity of TiO₂ Nanofibers and Their Flexible Composite Films: Decomposition of Organic Dyes and Efficient H₂ Generation from Ethanol-Water Mixture", **2011**, *Nano Research*, 4, 360-369. (▲:107; SCI; IF:9.4 at 2025; Ranking:23/191=12.0% in Physics, Applied)

130. Jia-Han Li, Shih-Wen Chen, Yi Chou, [Ming-Chung Wu](#), Chun-Hway Hsueh*, and Wei-Fang Su*, "Effects of Gold Film Morphology on Surface Plasmon Resonance Using Periodic P3HT:PMMA/Au Nanostructures on Silicon Substrate for Surface-Enhanced Raman Scattering", **2011, *Journal of Physical Chemistry C***, 115, 24045-24053. (▲:23; SCI; IF:3.4 at 2025; Ranking:256/472=54.2% in Materials Science, Multidisciplinary)
131. Sharon Chen, Sheng-Hao Hsu, [Ming-Chung Wu](#), and Wei-Fang Su*, "Kinetics Studies on The Accelerated Curing of Liquid Crystalline Epoxy Resin/Multi-Walled Carbon Nanotube Nanocomposites", **2011, *Journal of Polymer Science Part B: Polymer Physics***, 49, 301-309. (▲:24; SCI; IF:3.151 at 2021; Ranking:39/90=43.3% in Polymer Science)
132. Niina Halonen, Andras Sapi, Laszlo Nagy, Robert Puskas, Anne-Riikka Leino, Jani Maklin, Jarmo Kukkola, Geza Toth, [Ming-Chung Wu*](#), Hsueh-Chung Liao, Wei-Fang Su, Andrey Shchukarev, Jyri-Pekka Mikkola, Akos Kukovecz, Zoltan Konya, and Krisztian Kordas, "Low-Temperature Growth of Multi-Walled Carbon Nanotubes by Thermal CVD", **2011, *Physica Status Solidi (B)-Basic Solid State Physics***, 248, 2500-2503. (▲:26; SCI; IF:1.7 at 2025; Ranking:60/81=74.1% in Physics, Condensed Matter)

2010-

133. [Ming-Chung Wu](#), Yi-Jen Wu, Wei-Che Yen, Hsi-Hsing Lo, Ching-Fuh Lin, and Wei-Fang Su*, "Correlation between Nanoscale Surface Potential and Power Conversion Efficiency of P3HT/TiO₂ Nanorods Bulk Heterojunction Photovoltaic Devices", **2010, *Nanoscale***, 2, 1448-1454. (▲:23; SCI; IF:5.2 at 2025; Ranking:46/191=24.1% in Physics, Applied)
134. [Ming-Chung Wu](#), Hsueh-Chung Liao, Yi Chou, Che-Pu Hsu, Wei-Che Yen, Chih-Min Chuang, Yun-Yue Lin, Chun-Wei Chen, Yang-Fang Chen*, and Wei-Fang Su*, "Manipulation of Nanoscale Phase Separation and Optical Properties of P3HT/PMMA Polymer Blends for Photoluminescent Electron Beam Resist", **2010, *Journal of Physical Chemistry B***, 114, 10277-10284. (▲:27; SCI; IF:3.2 at 2025; Ranking:28/81=34.6% in Biophysics)

2009-

135. [Ming-Chung Wu](#), Yi Chou, Chih-Min Chuang, Che-Pu Hsu, Chin-Feng Lin, Yang-Fang Chen*, and Wei-Fang Su*, "High-Sensitivity Raman Scattering Substrate Based on Au/La_{0.7}Sr_{0.3}MnO₃ Periodic Arrays", **2009, *ACS Applied Materials & Interfaces***, 1, 2484-2490. (▲:14; SCI; IF:7.8 at 2025; Ranking:106/472=22.5% in Materials Science, Multidisciplinary)
136. [Ming-Chung Wu](#), Hsueh-Chung Liao, Hsi-Hsing Lo, Sharon Chen, Yun-Yue Lin, Wei-Che Yen, Tsung-Wei Zeng, Chun-Wei Chen, Yang-Fang Chen, and Wei-Fang Su*, "Nanostructured Polymer Blends (P3HT/PMMA): Inorganic Titania Hybrid Photovoltaic Devices", **2009, *Solar Energy Materials and Solar Cells***, 93, 961-965. (▲:30; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
137. Yu-Ching Huang, Yu-Chia Liao, Shao-Sian Li, [Ming-Chung Wu](#), Chun-Wei Chen, and Wei-Fang Su*, "Study of The Effect of Annealing Process on The Performance of P3HT/PCBM Photovoltaic Devices Using Scanning Probe Microscopy", **2009, *Solar Energy Materials and Solar Cells***, 93, 888-892. (▲:106; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)
138. [Ming-Chung Wu](#), Hsi-Hsing Lo, Hsueh-Chung Liao, Sharon Chen, Yun-Yue Lin, Wei-Che Yen, Tsung-Wei Zeng, Yang-Fang Chen, Chun-Wei Chen, and Wei-Fang Su*, "Using Scanning Probe Microscopy to Study The Effect of Molecular Weight of Poly(3-hexylthiophene) on The Performance of Poly(3-hexylthiophene):TiO₂ Nanorod Photovoltaic Devices", **2009, *Solar Energy Materials and Solar Cells***, 93, 869-873. (▲:19; SCI; IF:6.6 at 2025; Ranking:37/191=19.4% in Physics, Applied)

139. Ming-Chung Wu, Yun-Yue Lin, Sharon Chen, Hsueh-Chung Liao, Yi-Jen Wu, Chun-Wei Chen, Yang-Fang Chen*, and Wei-Fang Su*, "Enhancing Light Absorption and Carrier Transport of P3HT by Doping Multiwall Carbon Nanotubes", **2009, *Chemical Physics Letters***, 468, 64-68. (▲:96; SCI; IF:2.9 at 2025; Ranking:14/38=36.8% in Physics, Atomic, Molecular & Chemical)
140. Ming-Chung Wu, Chih-Min Chuang, Jih-Fong Lin, Yu-Ching Huang, Yang-Fang Chen*, and Wei-Fang Su*, "Nanopatterned Optical and Magnetic $\text{La}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ Arrays: Synthesis, Fabrication, and Properties", **2009, *Journal of Materials Research***, 24, 394-403. (▲:3; SCI; IF:2.9 at 2025; Ranking:286/472=60.6% in Materials Science, Multidisciplinary)
141. Yu-Ching Huang, Shang-Yu Chuang, Ming-Chung Wu, Hsuen-Li Chen, Chun-Wei Chen, and Wei-Fang Su*, "Quantitative Nanoscale Monitoring The Effect of Annealing Process on The Morphology and Optical Properties of P3HT/PCBM Thin Film Used in Photovoltaic Devices", **2009, *Journal of Applied Physics***, 106, 034506. (▲:32; SCI; IF:2.7 at 2025; Ranking:107/191=56.0% in Physics, Applied)

2008-

142. Ming-Chung Wu, Chih-Min Chuang, Yang-Fang Chen*, and Wei-Fang Su*, "Fabrication and Optical Properties of Periodical Structures Based on A Water-developable and Tunable $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Resist", **2008, *Journal of Materials Chemistry***, 18, 780-785. (▲:8; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
143. Ming-Chung Wu, Chia-Hao Chang, His-Hsing Lo, Yi-Shen Lin, Yun-Yue Lin, Wei-Che Yen, Yang-Fang Chen, Chun-Wei Chen*, and Wei-Fang Su*, "Nanoscale Morphology and Performance of Molecular-Weight-Dependent Poly(3-hexylthiophene)/ TiO_2 Nanorods Hybrid Solar Cell", **2008, *Journal of Materials Chemistry***, 18, 4079-4102. (▲:34; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
144. Chih-Tao Chien, Ming-Chung Wu, Hung-Hsien Yang, Jih-Jen Wu, Wei-Fang Su, Chao-Sung Lin, Yang-Fang Chen, and Chun-Wei Chen*, "Polarization-dependent Confocal Raman Microscopy of an Individual ZnO Nanorod", **2008, *Applied Physics Letters***, 92, 223102. (▲:36; SCI; IF:3.8 at 2025; Ranking:68/191=35.6% in Physics, Applied)
145. Ming-Chung Wu, Yi-Jen Wu, Yu-Ching Huang, Chih-Min Chuang, Kuo-Chung Cheng, Chin-Feng Lin, Yang-Fang Chen*, and Wei-Fang Su*, "Surface Potential and Magnetic Properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Periodic Arrays Fabricated by Direct Electron Beam Writing", **2008, *Journal of Applied Physics***, 104, 024517. (▲:2; SCI; IF:2.7 at 2025; Ranking:107/191=56.0% in Physics, Applied)
146. Ming-Chung Wu, Chih-Min Chuang, His-Hsing Lo, Kuo-Chung Cheng, Yang-Fang Chen*, and Wei-Fang Su*, "Surface Plasmon Resonance Enhanced Photoluminescence from Au Coated Periodic Arrays of CdSe Quantum Dots and Polymer Composite Thin Film", **2008, *Thin Solid Films***, 517, 863-866. (▲:6; SCI; IF:2.4 at 2025; Ranking:47/81 =58.0% in Physics, Condensed Matter)

2007-

147. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su*, "Silver Cofirability Differences between $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$ and $\text{Zn}_3\text{Nb}_2\text{O}_8$ ", **2007, *Journal of the European Ceramic Society***, 27, 3017-3021. (▲:8; SCI; IF:6.3 at 2025; Ranking:2/34=5.9% in Materials Science, Ceramics)
148. Ming-Chung Wu, Ming-Kang Hsieh, Yu-Ching Huang, Cheng-Wei Yen, Welter Huang, and Wei-Fang Su*, "Low Sintering $\text{BaNd}_2\text{Ti}_4\text{O}_{12}$ Microwave Ceramics Prepared by CuO Atomic Layer Coated Powder", **2007, *Journal of the European Ceramic Society***, 27, 2835-2839. (▲:17; SCI; IF:6.3 at 2025; Ranking:2/34=5.9% in Materials Science, Ceramics)
149. Yu-Ching Huang, Ming-Chung Wu, Tze-Hsuan Chang, Jean-Fu Kiang, and Wei-Fang Su*, "Broadband DR Antenna Made of High-Q Ceramic", **2007, *Journal of the European Ceramic Society***, 27, 2841-2844. (▲:8; SCI; IF:6.3 at 2025; Ranking:2/34=5.9% in Materials Science, Ceramics)

2006-

150. Ming-Chung Wu, Stanislav Kamba, Viktor Bovtun, and Wei-Fang Su*, "Comparison of Microwave Dielectric Behavior between $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$ and $\text{Bi}_{1.5}\text{ZnNb}_{1.5}\text{O}_7$ ", **2006, *Journal of the European Ceramic Society***, 26, 1889-1893. (▲:31; SCI; IF:6.3 at 2025; Ranking:2/34=5.9% in Materials Science, Ceramics)
151. Ming-Chung Wu, Kuo-Tung Huang, and Wei-Fang Su*, "Microwave Dielectric Properties of Doped $\text{Zn}_3\text{Nb}_2\text{O}_8$ Ceramics Sintered below 950°C and Their Compatibility with Silver Electrode", **2006, *Materials Chemistry and Physics***, 98, 406-409. (▲:33; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
152. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su*, "Silver Cofirable $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$ Microwave Ceramics Containing CuO Based Dopants", **2006, *Materials Chemistry and Physics***, 100, 391-394. (▲:22; SCI; IF:5.2 at 2025; Ranking:165/472=35.0% in Materials Science, Multidisciplinary)
153. Chih-Min Chuang, Ming-Chung Wu, Kuo-Chung Cheng, Yang-Fang Chen, and Wei-Fang Su*, "High Intensity Fluorescence of Photoactivated Silver Oxide from Composite Thin Film with Periodic Array Structure", **2006, *Applied Physics Letters***, 89, 061912. (▲:25; SCI; IF:3.8 at 2025; Ranking:68/191=35.6% in Physics, Applied)
154. Chih-Min Chuang, Ming-Chung Wu, Yu-Ching Huang, Yang-Fang Chen, Ching-Fuh Lin, and Wei-Fang Su*, "Nanolithography Made from Dual Function Water Based Spin-Coatable LSMO Resist", **2006, *Nanotechnology***, 17, 4399-4004. (▲:19; SCI; IF:2.9 at 2025; Ranking:96/191=50.3% in Physics, Applied)

■ Non-SCI Journal Paper Publications

1. Tzu-Yi Yu, Yun-Hsiu Tseng, Ming-Chung Wu, Cheng-Si Tsao, and Wei-Fang Su*, "Three-Dimensional Tomography of Cellulose Nanofibers-Polypeptides Nanocomposite Hydrogels", **2022, *Future Trends and Challenges of Molecular Imaging and AI Innovation***, 272, 43-49. (EI; Conference Paper)
2. Ming-Chung Wu, Chih-Min Chuang, Yu-Ching Huang, Yi-Jen Wu, Kuo-Chung Cheng, Ching-Fuh Lin, Yang-Fang Chen, and Wei-Fang Su*, "Nanopatterned Optical and Magnetic Nanopatterned $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Arrays: Synthesis, Fabrication, and Properties", **2010, *Proceeding of SPIE***, 7603, 76031H, 1-12. (▲:1; EI; Invited Paper)