Prof. Ming-Chung Wu of Chang Gung University (Update 2026/10/19)

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***, 680, 380-387. (**▲: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-C_3N_4 Enables Electronic Flexibility and Enhanced Microplastics Photoreforming", **2026**, ***Advanced Science***, 13, 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)

9. Thi Thuong Nguyen†, Quang Tan Nguyen†, Ting-Han Lin, Ming-Chung Wu, Nguyen Xuan Duong, Dinh Nam Nguyen, Hung-Anh Tran Vu, Viet Huong Nguyen*, and Duy Linh Vu*, "Conformal TiO_2 Nanolayers on Electrospun PVDF Fibers via Spatial Atomic Layer Deposition for Enhanced Triboelectric Charge Generation", **2026**, ***Nanoscale***, 18, 16855-16866. (**▲:0**; SCI; **IF:5.2** at 2025; Ranking:46/191=24.1% in Physics, Applied)

2025

10. 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)

11. 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 Cu_3N_x Clusters on TiO_2 Nanosheets to The Sub-Nanometric Scale for Enhancing NH_3 Photosynthesis", **2025**, ***Chemical Engineering Journal***, 515, 163915. (▲**:4**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

12. 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)

13. 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 Bi_2Se_3 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)

14. 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!!)**

15. 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

16. 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***, 11, 2309526. (▲**:15**; SCI; **IF:14.1** at 2025; Ranking:24/250=9.6% in Chemistry, Multidisciplinary)

17. 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)

18. 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)

19. 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)

20. 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***, 63, e202317628. (**▲:93**; SCI; **IF:17.6** at 2025; Ranking:16/250=6.4% in Chemistry, Multidisciplinary)

21. 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 NociceptiveTransmission 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)

22. Wei-Hao Chiu, Ying-Kai Huang, Shih-Hsuan Chen, Ming-Chung Wu, Gao Chen, and Kun-Mu Lee*, "Exploring the Efficiency Enhancement of Perovskite Solar Cells by Chemical Bath Depositing SnO_2 on Mesoporous TiO_2 Electrode", **2024**, ***Materials Today Chemistry***, 41, 102329. (**▲:11**; SCI; **IF:7.4** at 2025; Ranking:57/250=22.8% in Chemistry, Multidisciplinary)

23. 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 TiO_2-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)

24. 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 ZrO_2 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)

25. 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)

26. Rashmiranjan Patra, Pradeep Kumar Panda, Ting-Han Lin, Ming-Chung Wu, and Po-Chih Yang*, "Graphitic Carbon Nitride Nanosheet and Ferroelectric $PbTiO_3$ 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)

2023

27. 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)

28. 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)

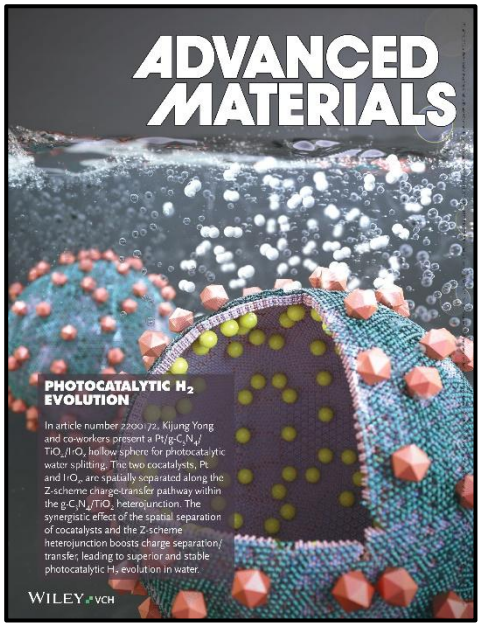
29. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, Ting-Han Lin, Kai-Hsiang Hsu*, and Ming-Chung Wu*, "Electrospun Fibrous Nanocomposite Sensing Materials for Monitoring Biomarkers in Exhaled Breath", **2023**, ***Polymers***, 15, 1833. (**▲:7**; SCI; **IF:5.8** at 2025; Ranking:18/96=18.8% in Polymer Science)

30. 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. (**▲:9**; SCI; **IF:5.8** at 2025; Ranking:18/96=18.8% in Polymer Science)

31. 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. (**▲:2**; SCI; **IF:5.2** at 2025; Ranking:85/369=23.0% in Engineering, Electrical & Electronic)

32. 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)

33. 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. (**▲:325**; SCI; **IF:29.1** at 2025; Ranking:5/250=2.0% in Chemistry, Multidisciplinary) **(Selected as a frontispiece cover of Advanced Materials!!)**



34. 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. (**▲:21**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

35. 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)

36. 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)

37. 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. (**▲:4**; SCI; **IF:3.2** at 2025; Ranking:86/191=45.0% in Physics, Applied)

38. 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. (**▲:10**; SCI; **IF:2.9** at 2025; Ranking:96/196=49.0% in Physics, Applied)

2022

39. 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. (**▲:30**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

40. 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)

41. 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)

42. 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. (**▲:37**; SCI; **IF:13.2** at 2025; Ranking:1/58=1.7% in Chemistry, Organic)

43. 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. (**▲:5**; SCI; **IF:6.0** at 2025; Ranking:144/472=30.5% in Materials Science, Multidisciplinary)

44. 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)

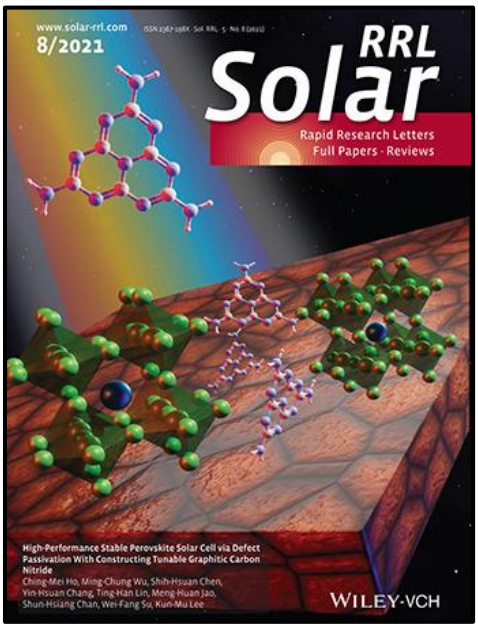
45. Kun-Mu Lee*†, Shun-Hsiang Chan*†, Chang-Chieh Ting, Shih-Hsuan Chen, Wei-Hao Chiu, Vembu Suryanarayanan, Jen-Fu Hsu, Ching-Yuan Liu*, and Ming-Chung Wu*, "Surfactant Tween 20 Controlled Perovskite Film Fabricated by Thermal Blade Coating for Efficient Perovskite Solar Cells", **2022**, ***Nanomaterials***, 12, 2651. (**▲:10**; SCI; **IF:4.8** at 2025; Ranking:52/192=27.1% in Physics, Applied)

2021-

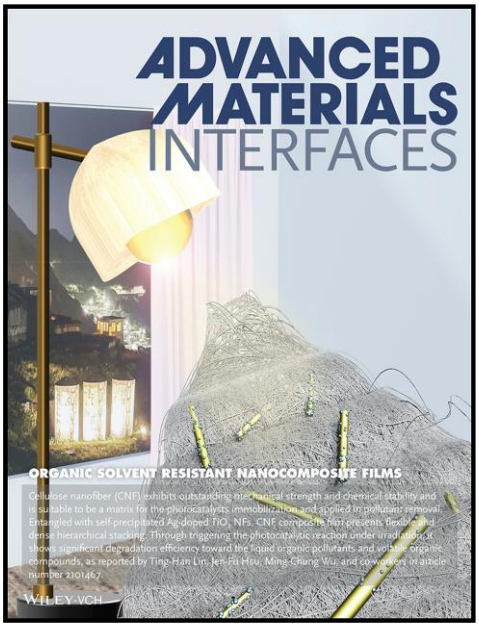
46. Kai-Chi Hsiao, Bo-Ting Lee, Meng-Huan Jao, Ting-Han Lin, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Chloride Gradient Render Carrier Extraction of Hole Transport Layer for High V_{oc} and Efficient Inverted Organometal Halide Perovskite Solar Cell", **2021**, ***Chemical Engineering Journal***, 409, 128100. (▲**:20**; SCI; **IF:12.5** at 2025; Ranking:4/88=4.5% in Engineering, Environmental)

47. 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)

48. 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)



49. 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!!)**



50. 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!!)**

51. 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)

52. 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)

53. 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)

54. 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. (▲**:31**; SCI; **IF:11.4** at 2025; Ranking:28/250=11.2% in Chemistry, Multidisciplinary)

55. 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)

56. 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)

57. 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/I_2 for Efficient Perovskite Solar Cells", **2021**, ***Nanomaterials***, 11, 1607. (▲**:7**; SCI; **IF:4.8** at 2025; Ranking:52/192=27.1% in Physics, Applied)

58. 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)

59. 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)

60. 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. (▲**:7**; SCI; **IF:3.0** at 2025; Ranking:11/38=28.9% in Physics, Atomic, Molecular & Chemical)

2020-

61. 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. (▲**:20**; SCI; **IF:11.8** at 2025; Ranking:16/191=8.4% in Physics, Applied)

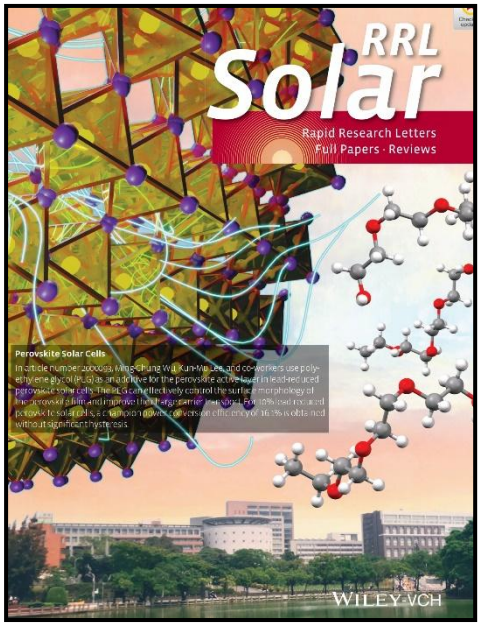
62. Ming-Chung Wu*, Chih-Kunag Kao, Tz-Feng Lin, Shun-Hsiang Chan, Shih-Hsuan Chen, Chi-Hung Lin, Yu-Ching Huang, Ziming Zhou, Kai Wang, and Chao-Sung Lai*, "Surface Plasmon Resonance Amplified Efficient Polarization-Selective Volatile Organic Compounds CdSe-CdS/Ag/PMMA Sensing Material", **2020**, ***Sensors and Actuators B: Chemical***, 309, 127760. (▲**:25**; SCI; **IF:8.3** at 2025; Ranking:2/81=2.5% in Instruments & Instrumentation)

63. Ying-Han Liao, Yin-Hsuan Chang, Ting-Han Lin, Shun-Hsiang Chan, Kun-Mu Lee, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Ming-Chung Wu*, "Boosting the Power Conversion Efficiency of Perovskite Solar Cells Based on Sn Doped TiO_2 Electron Extraction Layer via Modification the TiO_2 Phase Junction", **2020, *Solar Energy***, 205, 390-398. (▲**:17**; SCI; **IF:7.9** at 2025; Ranking:50/191=26.2% in Energy & Fuels)

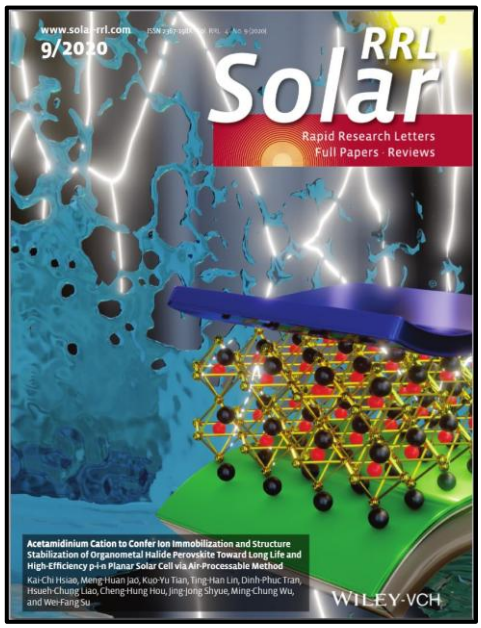
64. Shun-Hsiang Chan, Ming-Chung Wu*, Yi-Ying Li, Kun-Mu Lee, Yang-Fang Chen, and Wei-Fang Su*, "Barium Doping Effect on the Photovoltaic Performance and Stability of $MA_{0.4}FA_{0.6}Ba_xPb_{1-x}I_yCl_{3-y}$ Perovskite Solar Cells", **2020**, ***Applied Surface Science***, 521, 146451. (▲**:11**; SCI; **IF:6.6** at 2025; Ranking:37/191=19.4% in Physics, Applied)

65. 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)

66. 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!!)**



67. 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!!)**



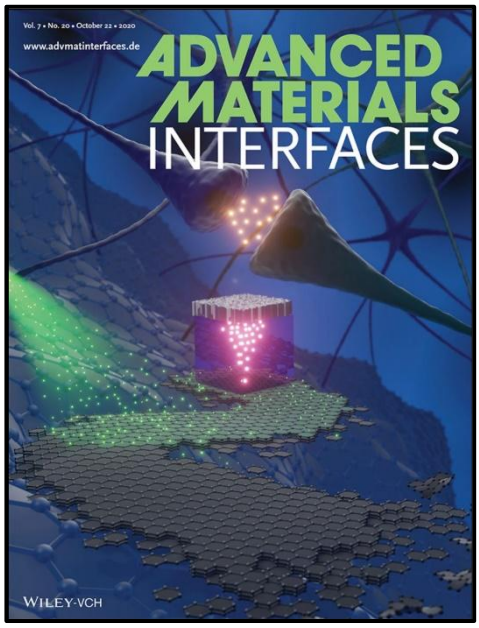
68. Meng-Huan Jao, Shun-Hsiang Chan, Ming-Chung Wu*, and Chao-Sung Lai*, "Element Code from Pseudopotential as Efficient Descriptors for Machine Learning Model to Explore Potential Lead-Free Halide Perovskite", **2020**, ***Journal of Physical Chemistry Letters***, 11, 8914-8921. (▲**:11**; SCI; **IF:4.5** at 2025; Ranking:7/39=18.0% in Physics, Atomic, Molecular & Chemical)

69. 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)

70. 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. (▲**:6**; SCI; **IF:5.1** at 2025; Ranking:15/81=18.5% in Instruments & Instrumentation)

71. 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)

72. 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!!)**



73. 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. (▲**:42**; SCI; **IF:2.9** at 2025; Ranking:96/196=49.0% in Physics, Applied)

2019-

74. 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-Silde 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)

75. 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)

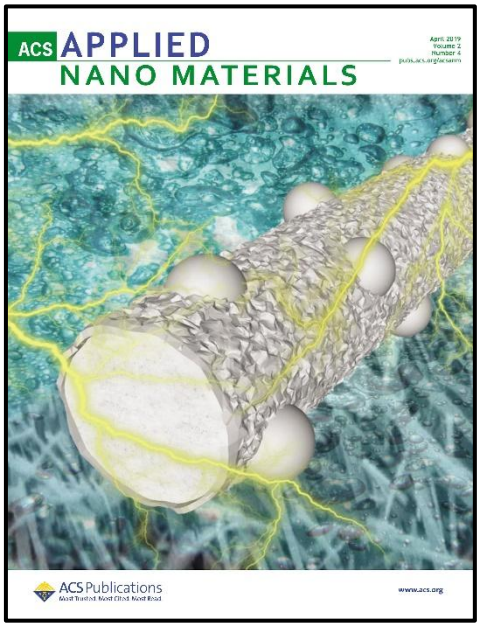
76. Duy Linh Vu, Yi-Ying Li, Ting-Han Lin, and Ming-Chung Wu*, "Fabrication and Humidity Sensing Property of UV/Ozone Treated PANI/PMMA Electrospun Fibers", **2019**, ***Journal of the Taiwan Institute of Chemical Engineers***, 99, 250-257. (▲**:17**; SCI; **IF:6.9** at 2025; Ranking:37/183=20.2% in Engineering, Chemical)

77. 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 TiO_2 Nanofibers", **2019**, ***Applied Surface Science***, 484, 326-334. (▲**:61**; SCI; SCI; **IF:6.6** at 2025; Ranking:37/191=19.4% in Physics, Applied)

78. Ming-Chung Wu*, Wei-Kang Huang, Ting-Han Lin, and Yu-Jen Lu*, "Photocatalytic Hydrogen Production and Photodegradation of Organic Dyes of Hydrogenated TiO_2 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)

79. 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 TiO_2 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)

80. Ming-Chung Wu*, Kai-Chi Hsiao, Yin-Hsuan Chang, and Krisztián Kordás, "Core-Shell Heterostructures of Rutile and Anatase TiO_2 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!!)**



81. 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)

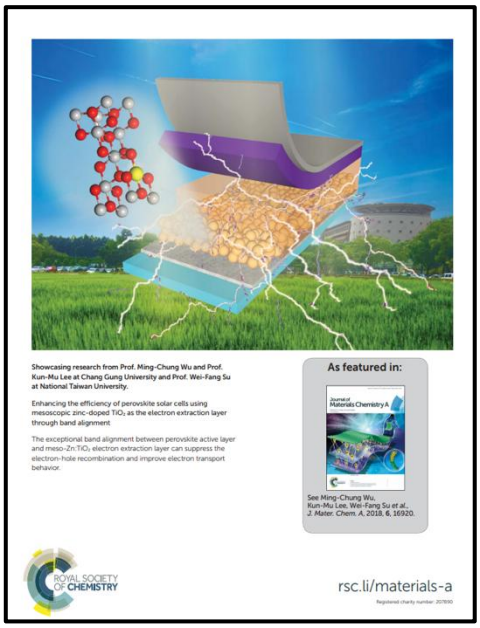
82. Yin-Hsuan Chang, and Ming-Chung Wu*, "Enhanced Photocatalytic Reduction of Cr(VI) by Combined Magnetic TiO_2-Based NFs and Ammonium Oxalate Hole Scavenger", **2019**, ***Catalysts***, 9, 72, 1-12. (▲**:34**; SCI; **IF:4.5** at 2025; Ranking:81/191=42.4% in Chemistry, Physical)

83. 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)

84. Ruey-Shin Juang, Chun-Ju Su, Ming-Chung Wu, His-Chuan Lu, Sea-Fue Wang, and An-Cheng Sun*, "Fabrication of Magnetic Fe_3O_4 Nanoparticles with Unidirectional Extension Pattern by a Facile and Eco-Friendly Microwave-Assisted Solvothermal Method", **2019**, ***Journal of Nanoscience and Nanotecnology***, 19, 7645-7653. (▲**:11**; SCI; **IF:1.134** at 2019; Ranking:137/177=77.4% in Chemistry, Multidisciplinary)

2018-

85. Ming-Chung Wu*, Shun-Hsiang Chan, Kun-Mu Lee*, Shih-Hsuan Chen, Meng-Huan Jao, Yang-Fang Chen, and Wei-Fang Su*, "Enhancing The Efficiency of Perovskite Solar Cells Using Mesoscopic Zinc-Doped TiO_2 as Electron Extraction Layer Through Band Alignment", **2018**, ***Journal of Materials Chemistry A***, 6, 16920-16931. (▲**: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!!)**



86. 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)

87. Ming-Chung Wu*, Po-Yeh Wu, Ting-Han Lin, and Tz-Feng Lin, "Photocatalytic Performance of Cu-Doped TiO_2 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)

88. Ming-Chung Wu*, Kai-Chi Hsiao, Yin-Hsuan Chang, and Shun-Hsiang Chan, "Photocatalytic Hydrogen Evolution of Palladium Nanoparticles Decorated Black TiO_2 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)

89. 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**, ***Chemsuschem***, 11, 3234-3242. (**▲:6**; SCI; **IF:5.9** at 2025; Ranking:73/250=29.2% in Chemistry, Multidisciplinary)

90. 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 TiO_2 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)

91. 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 TiO_2 Hole Blocking Layer", **2018**, ***Solar RRL***, 2, 1800072. (**▲:24**; SCI; **IF:4.8** at 2025; Ranking:182/472=38.6% in Materials Science, Multidisciplinary)

92. Ming-Chung Wu*, Ming-Pin Lin, Ting-Han Lin, and Wei-Fang Su, "Ag/SiO_2 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)

93. 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-

94. 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)

95. 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)

96. 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)

97. 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)

98. 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)

99. Ming-Chung Wu*, Ching-Hsiang Chen, Wei-Kang Huang, Kai-Chi Hsiao, Ting-Han Lin, Shun-Hsiang Chan, Po-Yeh Wu, Chun-Fu Lu, Yin-Hsuan Chang, Tz-Feng Lin, Kai-Hsiang Hsu, Jen-Fu Hsu, Kun-Mu Lee, Jing-Jong Shyue, Krisztian Kordas, and Wei-Fang Su, "Improved Solar-Driven Photocatalytic Performance of Highly Crystalline Hydrogenated TiO_2 Nanofibers with Core-Shell Structure", **2017**, ***Scientific Reports***, 7, 40896. (**▲:54**; SCI; **IF:4.9** at 2025; Ranking:21/140=15.0% in Multidisciplinary Science)

100. 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)

101. 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)

102. Ming-Chung Wu*, Yin-Hsuan Chang, and Ting-Han Lin, "Bismuth Doping Effect on Crystal Structure and Photodegradation Activity of Bi-TiO_2 Nanoparticles", **2017**, ***Japanese Journal of Applied Physics***, 56, 04CJ01. (**▲:3**; SCI; **IF:1.7** at 2025; Ranking:145/191=75.9% in Physics, Applied)

103. 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 TiO_2", **2017**, ***Japanese Journal of Applied Physics***, 56, 04CP07. (**▲:14**; SCI; **IF:1.7** at 2025; Ranking:145/191=75.9% in Physics, Applied)

2016-

104. Ming-Chung Wu*, Wei-Cheng Chen, Ting-Han Lin, Kai-Chi Hsiao, Kun-Mu Lee*, and Chun-Guey Wu*, "Enhanced Open-Circuit Voltage of Dye-Sensitized Solar Cells Using Bi-Doped TiO_2 Nanofibers as Working Electrode and Scattering Layer", **2016**, ***Solar Energy***, 135, 22-28. (**▲:24**; SCI; **IF:7.9** at 2025; Ranking:50/191=26.2% in Energy & Fuels)

105. Ming-Chung Wu*, I-Chun Chang, Kai-Chi Hsiao, and Wei-Kang Huang, "Highly Visible-Light Absorbing Black TiO_2 Nanocrystals Synthesized by Sol-Gel Method and Subsequent Heat Treatment in Low Partial Pressure H_2", **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)

106. 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 TiO_2 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)

107. 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-

108. Ming-Chung Wu*, Pei-Huan Lee, and Dai-Lung Lee, "Enhanced Photocatalytic Activity of Palladium Decorated TiO_2 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)

109. 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)

110. 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)

111. Ming-Chung Wu*, Kai-Chi Hsiao, and Hsin-Chun Lu, "Synthesis of $InGaZnO_4$ 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)

112. Kun-Mu Lee, Sheng Hsiung Chang*, Ming-Chung Wu, and Chun-Guey Wu*, "Raman and Photoluminescence Investigation of CdS/CdSe Quantum Dots on TiO_2 Nanoparticles with Multi-Walled Carbon Nanotubes and Their Application in Solar Cells", **2015**, ***Vibrational Spectroscopy***, 80, 66-69. (▲**:10**; SCI; **IF:3.1** at 2025; Ranking:10/43=23.3% in Spectroscopy)

113. Ming-Chung Wu*, Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication and Photocatalytic Performance of Electrospun PVA/Silk/TiO_2 Nanocomposiite Textile", **2015**, ***Functional Materials Letters***, 8, 1540013. (▲**:15**; SCI; **IF:1.0** at 2025; Ranking:425/472=90.0% in Materials Science, Multidisciplinary)

2014

114. 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 SiO_2 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)

115. Yu-Chieh Tu, Chun-Yu Chang, Ming-Chung Wu, Jing-Jong Shyue, and Wei-Fang Su*, "$BiFeO_3$/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)

116. Che-Pu Hsu, Tsung-Wei Zeng, Ming-Chung Wu, Yu-Chieh Tu, Hsueh-Chung Liao, and Wei-Fang Su*, "Hybrid Poly(3-hexyl thiophene)-TiO_2 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)

117. Ming-Chung Wu*, Hseuh-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 TiO_2-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)

118. Ming-Chung Wu*, Jyun-Sian Chih, and Wei-Kang Huang, "Bismuth Doping Effect on TiO_2 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)

119. 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 TiO_2-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-

120. 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 TiO_2 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)

121. 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-

122. 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)

123. 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)

124. Jarmo Kukkola, Melinda Mohl, Anne-Riikka Leino, Geza Toth, Ming-Chung Wu, Andrey Shchukarev, Alexey Popov, Jyri-Pekka Mikkola, Janne Lauri, Markus Riihimaki, Jyrki Lappalainen, Heli Jantunen, and Krisztian Kordas*, "Inkjet-Printed Gas Sensors: Metal Decorated WO_3 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)

125. 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)

126. 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)

127. Meng-Huan Jao, Hsueh-Chung Liao, Ming-Chung Wu, and Wei-Fang Su*, "Synthesis and Characterization of Wurtzite Cu_2ZnSnS_4 Nanocrystals", **2012**, ***Japanese Journal of Applied Physics***, 51, 10NC30. (▲**:15**; SCI; **IF:1.7** at 2025; Ranking:145/191=75.9% in Physics, Applied)

128. 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-

129. 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)

130. 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 TiO_2 Nanofibers and Their Flexible Composite Films: Decomposition of Organic Dyes and Efficient H_2 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)

131. 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)

132. 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)

133. 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-

134. 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/TiO_2 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)

135. 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-

136. 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/$La_{0.7}Sr_{0.3}MnO_3$ 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)

137. 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)

138. 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)

139. 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):TiO_2 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)

140. 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)

141. Ming-Chung Wu, Chih-Min Chuang, Jhih-Fong Lin, Yu-Ching Huang, Yang-Fang Chen*, and Wei-Fang Su*, "Nanopatterned Optical and Magnetic $La_{0.6}Ca_{0.4}MnO_3$ 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)

142. 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-

143. 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 $La_{0.7}Sr_{0.3}MnO_3$ 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)

144. 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)

145. 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)

146. 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 $La_{0.7}Sr_{0.3}MnO_3$ 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)

147. 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-

148. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su*, "Silver Cofirability Differences between $Bi_{1.5}Zn_{0.92}Nb_{1.5}O_{6.92}$ and $Zn_3Nb_2O_8$", **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)

149. Ming-Chung Wu, Ming-Kang Hsieh, Yu-Ching Huang, Cheng-Wei Yen, Welter Huang, and Wei-Fang Su*, "Low Sintering $BaNd_2Ti_4O_{12}$ 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)

150. 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-

151. Ming-Chung Wu, Stanislav Kamba, Viktor Bovtun, and Wei-Fang Su*, "Comparison of Microwave Dielectric Behavior between $Bi_{1.5}Zn_{0.92}Nb_{1.5}O_{6.92}$ and $Bi_{1.5}ZnNb_{1.5}O_7$", **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)

152. Ming-Chung Wu, Kuo-Tung Huang, and Wei-Fang Su*, "Microwave Dielectric Properties of Doped $Zn_3Nb_2O_8$ 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)

153. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su*, "Silver Cofirable $Bi_{1.5}Zn_{0.92}Nb_{1.5}O_{6.92}$ 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)

154. 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)

155. 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 Nanopattterned $La_{0.7}Sr_{0.3}MnO_3$ Arrays: Synthesis, Fabrication, and Properties", **2010**, ***Proceeding of SPIE***, 7603, 76031H, 1-12. (▲**:1**; EI; Invited Paper)