

Dr. Ting-Han Lin of Chang Gung University (Update 2024/5/15)

SCI Journal Paper

2024

1. Jia-Mao Chang, [Ting-Han Lin](#), Kai-Chi Hsiao, Kuo-Ping Chiang, Yin-Hsuan Chang, and Ming-Chung Wu*, "Gas-Solid Phase Reaction Derived Silver Bismuth Iodide Rudorffite: Structural Insight and Exploring Photocatalytic Potential of CO₂ Reduction", **2024, *Advanced Science***, 2024, 2309526. (▲:0; SCI; IF:15.1 at 2022; Ranking:24/344=7.0% in Materials Science, Multidisciplinary)
2. Rashmiranjan Patra, Pradeep Kumar Panda, [Ting-Han Lin](#), Ming-Chung Wu, and Po-Chih Yang*, "Graphitic Carbon Nitride Nanosheet and Ferroelectric PbTiO₃ Nanoplates S-Scheme Heterostructure for Enhancing Hydrogen Production and Textile Dye Degradation", **2024, *Chemical Engineering Science***, 259, 120133. (▲:0; SCI; IF:4.7 at 2022; Ranking:37/142=26.0% in Engineering, Chemical)
3. Kai-Chi Hsiao†, Ching-Mei Ho†, [Ting-Han Lin](#), Shih-Hsuan Chen, Yin-Hsuan Chang, Ying-Han Liao, Jia-Mao Chang, Tz-Feng Lin*, Yu-Ching Huang*, Kun-Mu Lee*, and Ming-Chung Wu*, "Ceiling of Barium Substitution for B-Site Cation in Organometal Halide Perovskite Solar Cells", **2024, *International Journal of Energy Research***, 2024, 9990559. (▲:0; SCI; IF:4.6 at 2022; Ranking:1/34=2.9% in Nuclear Science & Technology)

2023

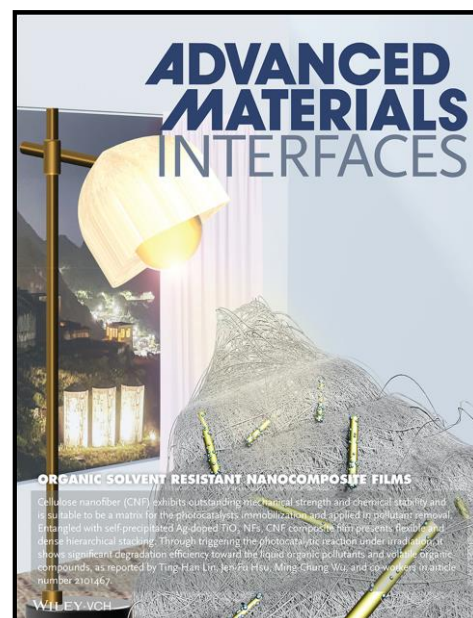
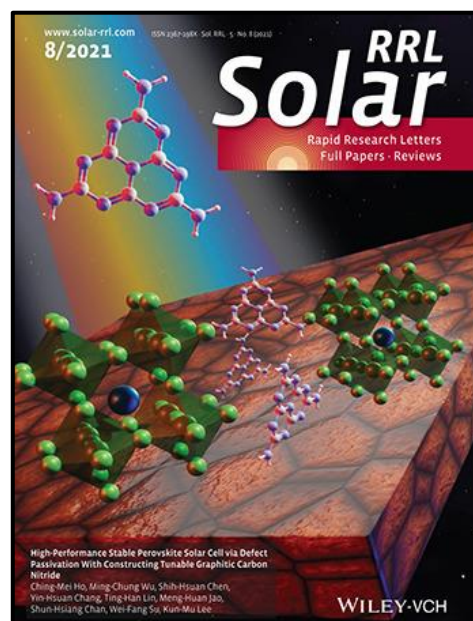
4. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, [Ting-Han Lin](#), Kai-Hsiang Hsu*, and Ming-Chung Wu*, "Electrospun Fibrous Nanocomposite Sensing Materials for Monitoring Biomarkers in Exhaled Breath", **2023, *Polymers***, 15, 1833. (▲:0; SCI; IF:5.0 at 2022; Ranking:16/86=18.6% in Polymer Science)
5. [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. (▲:0; SCI; IF:5.0 at 2022; Ranking:16/86=18.6% in Polymer Science)
6. 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. (▲:0; SCI; IF:4.1 at 2022; Ranking:44/159=27.7% in Physics, Applied)

2022

7. 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. (▲:2; SCI; IF:11.2 at 2022; Ranking:3/86=3.5% in Polymer Science)
8. 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. (▲:1; SCI; IF:6.8 at 2022; Ranking:82/342=24.0% in Materials Science, Multidisciplinary)
9. Tzu-Yi Yu, Yun-Hsiu Tseng, Chun-Chieh Wang, [Ting-Han Lin](#), Ming-Chung Wu, Cheng-Si Tsao*, and Wei-Fang Su*, "Three Level Hierarchical 3D Network Formation and Structure Elucidation of Wet Hydrogel of Tunable-High-Strength Nanocomposite", **2022, *Macromolecular Materials and Engineering***, 307, 2100871. (▲:1; SCI; IF:3.9 at 2022; Ranking:27/86=31.4% in Polymer Science)

2021-

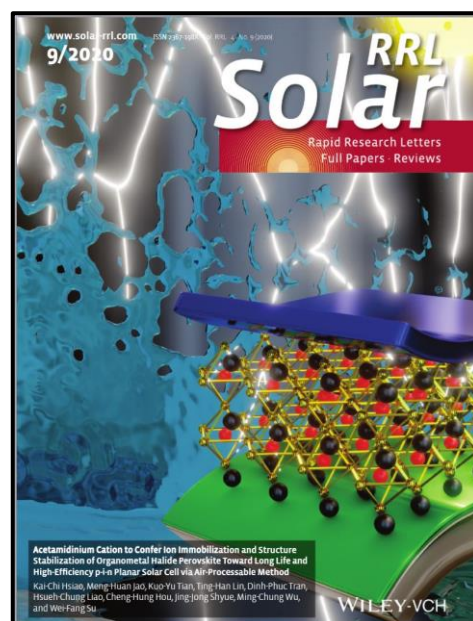
10. Kai-Chi Hsiao, Bo-Ting Lee, Meng-Huan Jao, [Ting-Han Lin](#), Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Chloride Gradient Render Carrier Extraction of Hole Transport Layer for High V_{oc} and Efficient Inverted Organometal Halide Perovskite Solar Cell", **2021, *Chemical Engineering Journal***, 409, 128100. (▲:12; SCI; IF:15.1 at 2022; Ranking:5/140=3.6% in Engineering, Chemical)
11. Ching-Mei Ho†, Ming-Chung Wu*†, Shih-Hsuan Chen, Yin-Hsuan Chang, [Ting-Han Lin](#), Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee*, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", **2021, *Solar RRL***, 5, 2100257. (▲:6; SCI; IF:7.9 at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**
12. [Ting-Han Lin](#), Ming-Chung Wu*, Yen-Ting Lin, Chi-Hui Tsao, Yin-Hsuan Chang, Kuo-Ping Chiang, Yu-Ting Huang, and Yu-Jen Lu*, "Solar-Triggered Photothermal Therapy for Tumor Ablation by Ag Nanoparticles Self-Precipitated on Structural Titanium Oxide Nanofibers", **2021, *Applied Surface Science***, 552, 149428. (▲:7; SCI; IF:6.7 at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)
13. Tzu-Chuan Yang, Yi-Pei Jiang, [Ting-Han Lin](#), Shih-Hsuan Chen, Ching-Mei Ho, Ming-Chung Wu, and Jer-Chyi Wang*, "N-Butylamine-Modified Graphite Nanoflakes Blended in Ferroelectric P(VDF-TrFE) Copolymers for Piezoelectric Nanogenerators with High Power Generation Efficiency", **2021, *European Polymer Journal***, 159, 110754. (▲:3; SCI; IF:6.0 at 2022; Ranking:7/86=8.1% in Polymer, Science)
14. Jer-Chyi Wang*, Rajat Subhra Karmakar, [Ting-Han Lin](#), Ming-Chung Wu*, and Kuo-Hsuan Chang*, "Reaction-Inhibited Interfacial Coating Between PEDOT:PSS Sensing Membrane and ITO Electrode for Highly-Reliable Piezoresistive Pressure Sensing Applications", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 126, 297-306. (▲:1; SCI; IF:5.7 at 2022; Ranking:25/140=17.9% in Engineering, Chemical)
15. [Ting-Han Lin](#)†, Ming-Chung Wu*†, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu*, and Kun-Mu Lee*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO₂ Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲:10; SCI; IF:5.7 at 2022; Ranking:25/140=17.9% in Engineering, Chemical)
16. [Ting-Han Lin](#), Yu-Han Liao, Kun-Mu Lee, Yin-Hsuan Chang, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Ming-Chung Wu*, "Organic Solvent Resistant Nanocomposite Films Made from Self-Precipitated Ag/TiO₂ Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021, *Advanced Materials Interfaces***, 8, 2101467. (▲:8; SCI; IF:5.4 at 2022; Ranking:107/342=31.3% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**



17. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang*, and Ming-Chung Wu*, "Nanoscale Multidimensional Pd/TiO₂/g-C₃N₄ Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", **2021, *Catalysts***, 11, 59. (▲:8; SCI; IF:3.9 at 2022; Ranking:71/161=44.1% in Chemistry, Physical)

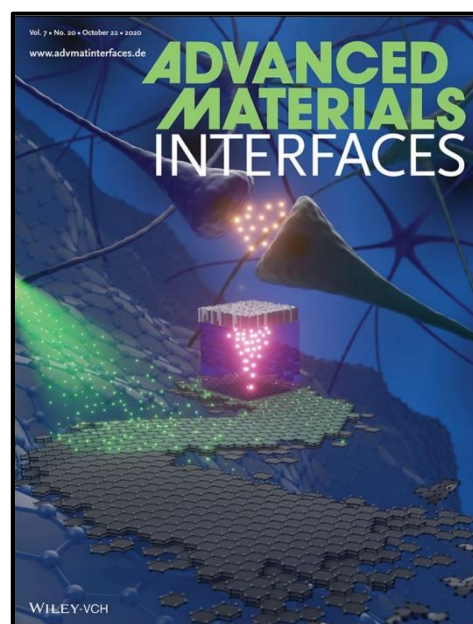
2020-

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



19. 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. (▲:12; SCI; IF:6.7 at 2022; Ranking:37/115=32.2% in Energy & Fuels)

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



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

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

2019-

23. 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-Sild UV-Ozone Treatment", **2019, ACS Applied Materials & Interfaces**, 11, 34454-34462. (▲:4; SCI; IF:9.5 at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)
24. 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. (▲:49; SCI; SCI; IF:6.7 at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)
25. 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. (▲:25; SCI; IF:6.7 at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)
26. 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. (▲:48; SCI; IF:6.4 at 2022; Ranking:85/342=24.9% in Materials Science, Multidisciplinary)
27. 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. (▲:13; SCI; IF:5.7 at 2022; Ranking:25/140=17.9% in Engineering, Chemical)

2018-

28. 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. (▲:77; SCI; IF:6.7 at 2022; Ranking:1/21=4.8% in Materials Science, Coatings & Films)
29. 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. (▲:4; SCI; IF:1.5 at 2022; Ranking:130/159=81.8% in Physics, Applied)

2017-

30. 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. (▲:45; SCI; IF:4.6 at 2022; Ranking:22/73=30.1% in Multidisciplinary Science)
31. 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. (▲:5; SCI; IF:3.4 at 2022; Ranking:56/159=35.2% in Physics, Applied)
32. 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. (▲:2; SCI; IF:1.5 at 2022; Ranking:130/159=81.8% in Physics, Applied)

33. 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. (▲:9; SCI; IF:1.5 at 2022; Ranking:130/159=81.8% in Physics, Applied)

2016-

34. Ming-Chung Wu*, Wei-Cheng Chen, [Ting-Han Lin](#), Kai-Chi Hsiao, Kun-Mu Lee*, and Chun-Guey Wu*, "Enhanced Open-Circuit Voltage of Dye-Sensitized Solar Cells Using Bi-Doped TiO₂ Nanofibers as Working Electrode and Scattering Layer", **2016, *Solar Energy***, 135, 22-28. (▲:16; SCI; IF:6.7 at 2022; Ranking:37/115=32.2% in Energy & Fuels)

2015-

35. 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. (▲:12; SCI; IF:1.3 at 2022; Ranking:290/342=84.8% in Materials Science, Multidisciplinary)

2014

36. 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 TiO₂-Based Nanowires: A Photo-Assisted Kelvin Probe Force Microscopy Study", **2014, *Journal of Nanoparticle Research***, 16, 1-11. (▲:11; SCI; IF:2.5 at 2022; Ranking:106/178=59.6% in Chemistry, Multidisciplinary)