

Dr. Ting-Han Lin of Chang Gung University (Update 2025/05/20)

SCI Journal Paper

2025

1. 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. (▲:0; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
2. 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. (▲:0; SCI; IF:6.8 at 2023; Ranking:17/123=13.8% in Engineering, Biomedical)

2024

3. 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. (▲:1; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
4. Seoungjun Ahn, Wei-Hao Chiu, Wei-Chen Chu, Pei-Yu Chen, [Ting-Han Lin](#), and Kun-Mu Lee*, "A Systematic Investigation of PVDF-HFP in Perovskite Solar Cells for Improved Space Mission Reliability", **2024, *Chemical Engineering Journal***, 496, 153974. (▲:0; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
5. Shih-Cheng Tsao, Kuo-Hsuan Chang, Yi Fu, Han-Hsiang Tai, [Ting-Han Lin](#), Ming-Chung Wu, and Jer-Chyi Wang*, "Heterogeneous Integration of Memristive and PiezoresistiveMDMO-PPV-Based Copolymers in NociceptiveTransmission with Fast and Slow Pain for an ArtificialPain-Perceptual System", **2024, *Small***, 20, 202311040. (▲:0; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
6. 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. (▲:0; SCI; IF:6.8 at 2023; Ranking:17/123=13.8% in Engineering, Biomedical)
7. Yu-Hua Liu, Han-Hsiang Tai, Chi-An Ho, [Ting-Han Lin](#), Ming-Chung Wu, and Jer-Chyi Wang*, "Highly Compatible and Reliable ZrN Interfacial Layer between TiN Top Electrode and Antiferroelectric ZrO₂ Thin Film to Boost the Electrocaloric Behavior", **2024, *Journal of the European Ceramic Society***, 44, 215-223. (▲:0; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
8. 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. (▲:0; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)

9. 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. (▲:2; SCI; IF:4.3 at 2023; Ranking:4/40=10.0% in Nuclear Science & Technology)
10. 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. (▲:6; SCI; IF:4.1 at 2023; Ranking:54/171=31.6% in Engineering, Chemical)
11. 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. (▲:3; SCI; IF:3.1 at 2023; Ranking:25/91=27.5% in Metallurgy & Metallurgical Engineering)

2023

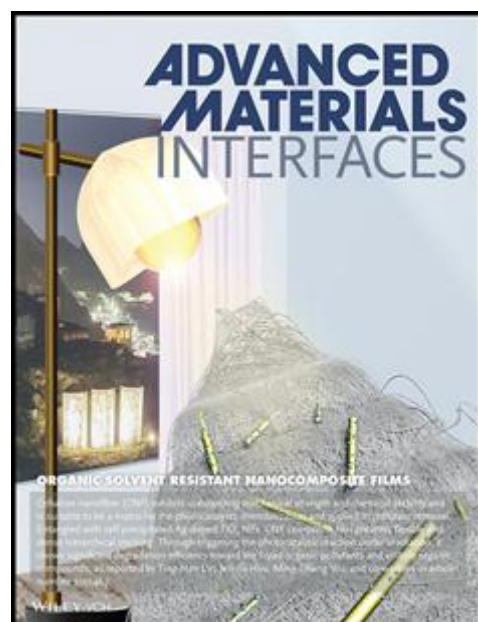
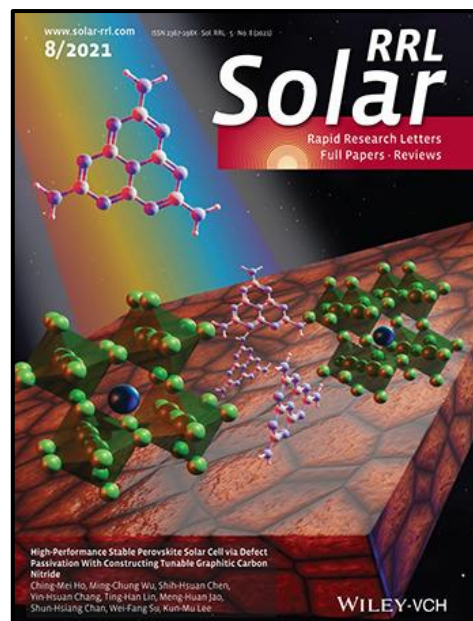
12. [Ting-Han Lin](#)[†], Yin-Hsuan Chang[†], Ting-Hung Hsieh[†], Yu-Ching Huang*, and Ming-Chung Wu*, "Electrospun SnO₂/WO₃ Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:0; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
13. 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. (▲:1; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
14. Ming-Chung Wu*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, [Ting-Han Lin](#), Jia-Mao Chang, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Kun-Mu Lee*, "Modulating Incident Light for Improved CO₂ Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films with Exotic Gold Nanoparticles", **2023, *Materials Science in Semiconductor Processing***, 162, 107505. (▲:1; SCI; IF:4.2 at 2023; Ranking:19/79=24.1% in Physics, Condensed Matter)

2022

15. 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. (▲:9; SCI; IF:10.7 at 2023; Ranking:1/94=1.1% in Polymer Science)
16. 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:6.4 at 2023; Ranking:120/438=27.4% in Materials Science, Multidisciplinary)
17. Tzu-Yi Yu, Yun-Hsiu Tseng, Chun-Chieh Wang, [Ting-Han Lin](#), Ming-Chung Wu, Cheng-Si Tsao*, and Wei-Fang Su*, "Three Level Hierarchical 3D Network Formation and Structure Elucidation of Wet Hydrogel of Tunable-High-Strength Nanocomposite", **2022, *Macromolecular Materials and Engineering***, 307, 2100871. (▲:2; SCI; IF:4.2 at 2023; Ranking:31/94=33.0% in Polymer Science)

2021-

18. 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. (▲:14; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
19. [Ting-Han Lin](#), Ming-Chung Wu*, Yen-Ting Lin, Chi-Hui Tsao, Yin-Hsuan Chang, Kuo-Ping Chiang, Yu-Ting Huang, and Yu-Jen Lu*, "Solar-Triggered Photothermal Therapy for Tumor Ablation by Ag Nanoparticles Self-Precipitated on Structural Titanium Oxide Nanofibers", **2021, *Applied Surface Science***, 552, 149428. (▲:9; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
20. 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. (▲:9; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**
21. Tzu-Chuan Yang, Yi-Pei Jiang, [Ting-Han Lin](#), Shih-Hsuan Chen, Ching-Mei Ho, Ming-Chung Wu, and Jer-Chyi Wang*, "N-Butylamine-Modified Graphite Nanoflakes Blended in Ferroelectric P(VDF-TrFE) Copolymers for Piezoelectric Nanogenerators with High Power Generation Efficiency", **2021, *European Polymer Journal***, 159, 110754. (▲:4; SCI; IF:5.8 at 2023; Ranking:12/94=12.8% in Polymer, Science)
22. Jer-Chyi Wang*, Rajat Subhra Karmakar, [Ting-Han Lin](#), Ming-Chung Wu*, and Kuo-Hsuan Chang*, "Reaction-Inhibited Interfacial Coating Between PEDOT:PSS Sensing Membrane and ITO Electrode for Highly-Reliable Piezoresistive Pressure Sensing Applications", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 126, 297-306. (▲:5; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
23. [Ting-Han Lin](#)†, Ming-Chung Wu*†, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu*, and Kun-Mu Lee*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO_2 Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲:10; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
24. [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. (▲:9; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of Advanced Materials Interfaces!!)**

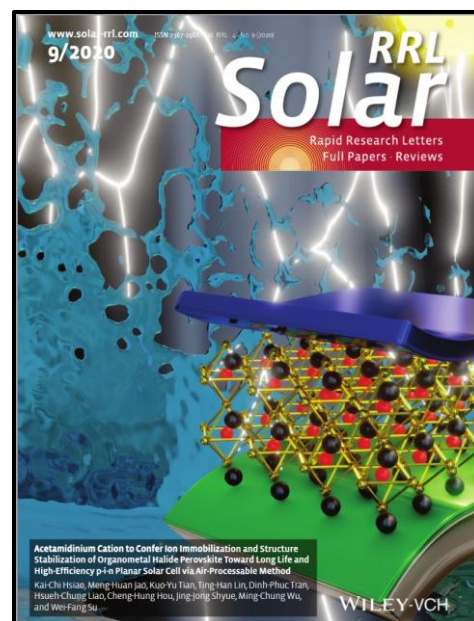


25. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang*, and Ming-Chung Wu*, "Nanoscale Multidimensional Pd/TiO₂/g-C₃N₄ Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", **2021, *Catalysts***, 11, 59. (▲:10; SCI; IF:3.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)

2020-

26. Kai-Chi Hsiao, Meng-Huan Jao, Kuo-Yu Tian, Ting-Han Lin, Dinh-Phuc Tran, Hsueh-Chung Liao, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-i-n Planar Cell via Air-Processable Method", **2020, *Solar RRL***, 4, 2000197. (▲:14; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)

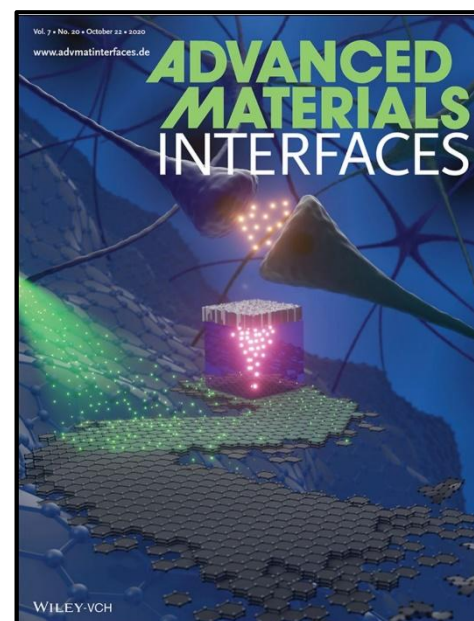
(Selected as a inside front cover of Solar RRL!!)



27. Ying-Han Liao, Yin-Hsuan Chang, Ting-Han Lin, Shun-Hsiang Chan, Kun-Mu Lee, Kai-Hsiang Hsu, Jen-Fu Hsu*, and Ming-Chung Wu*, "Boosting the Power Conversion Efficiency of Perovskite Solar Cells Based on Sn Doped TiO₂ Electron Extraction Layer via Modification the TiO₂ Phase Junction", **2020, *Solar Energy***, 205, 390-398. (▲:13; SCI; IF:6.0 at 2023; Ranking:62/173=35.8% in Energy & Fuels)

28. Duy Linh Vu, Tz-Feng Lin, Ting-Han Lin, and Ming-Chung Wu*, "Highly-Sensitive Detection of Volatile Organic Compounds Vapor by Electrospun PANI/P3TI/PMMA Fibers", **2020, *Polymers***, 12, 455. (▲:10; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)

29. Ya-Ting Chan, Yi Fu, Feng-Yu Wu, Ho-Wei Wang, Ting-Han Lin, Shun-Hsiang Chan, Ming-Chung Wu, and Jer-Chyi Wang*, "Compacted Self-Assembly Graphene with Hydrogen Plasma Surface Modification for Robust Artificial Electronic Synapses of Gadolinium Oxide Memristors", **2020, *Advanced Materials Interfaces***, 7, 2000860. (▲:7; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary)
(Selected as an inside front cover cover of Advanced Materials Interfaces!!)



30. 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. (▲:7; SCI; IF:4.1 at 2023; Ranking:16/94=17.0% in Polymer Science)

2019-

31. 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-Side UV-Ozone Treatment", **2019, ACS Applied Materials & Interfaces**, 11, 34454-34462. (▲:8; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
32. 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. (▲:52; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
33. 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. (▲:29; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
34. 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. (▲:15; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
35. 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. (▲:51; SCI; IF:5.4 at 2023; Ranking:49/178=27.5% in Chemistry, Physical)

2018-

36. 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. (▲:83; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
37. 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. (▲:7; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

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38. 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. (▲:48; SCI; IF:3.8 at 2023; Ranking:23/135=17.0% in Multidisciplinary Science)
39. 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:2.9 at 2023; Ranking:11/23=47.8% in Materials Science, Coatings & Films)
40. 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:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

41. 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. (:11; SCI; **IF:1.5** at 2023; Ranking:134/179=74.9% in Physics, Applied)

2016-

42. 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. (▲:20; SCI; **IF:6.0** at 2023; Ranking:62/173=35.8% in Energy & Fuels)

2015-

43. 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. (▲:14; SCI; **IF:1.2** at 2023; Ranking:366/438=83.6% in Materials Science, Multidisciplinary)

2014

44. 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. (▲:12; SCI; **IF:2.1** at 2023; Ranking:143/231=61.9% in Chemistry, Multidisciplinary)