

## Prof. Ming-Chung Wu of Chang Gung University (Update 2025/02/24)

### SCI Journal Paper

#### 2025

1. 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)
2. 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. (▲:0; SCI; IF:5.2 at 2023; Ranking:51/171=29.8% in Engineering, Chemical) **(Selected as a supplementary cover of *Energy & Fuels*!!)**



#### 2024

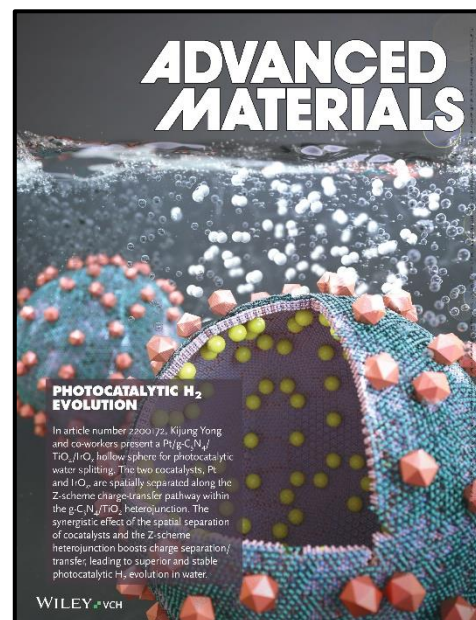
3. Jia-Mao Chang, Ting-Han Lin, Kai-Chi Hsiao, Kuo-Ping Chiang, Yin-Hsuan Chang, and [Ming-Chung Wu\\*](#), "Gas-Solid Phase Reaction Derived Silver Bismuth Iodide Rudorffite: Structural Insight and Exploring Photocatalytic Potential of CO<sub>2</sub> Reduction", **2024, *Advanced Science***, 11, 2309526. (▲:1; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
4. 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)
5. 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)
6. 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. (▲:0; SCI; IF:18.5 at 2023; Ranking:9/231=3.9% in Chemistry, Multidisciplinary)
7. 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<sub>2</sub> Electrolysis for Directly Driving Fuel Cell", **2024, *Angewandte Chemie-International Edition***, 63, e202317628. (▲:17; SCI; IF:16.1 at 2023; Ranking:11/231=4.8% in Chemistry, Multidisciplinary)

8. Shih-Cheng Tsao, Kuo-Hsuan Chang, Yi Fu, Han-Hsiang Tai, Ting-Han Lin, [Ming-Chung Wu](#), and Jer-Chyi Wang\*, "Heterogeneous Integration of Memristive and Piezoresistive MDMO-PPV-Based Copolymers in Nociceptive Transmission with Fast and Slow Pain for an Artificial Pain-Perceptual System", **2024, *Small***, 20, 202311040. (▲:0; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
9. 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<sub>2</sub> on Mesoporous TiO<sub>2</sub> Electrode", **2024, *Materials Today Chemistry***, 41, 102329. (▲:0; SCI; IF:6.7 at 2023; Ranking:43/231=18.6% in Chemistry, Multidisciplinary)
10. 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<sub>2</sub> 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)
11. 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<sub>2</sub>-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)
12. Chun-Yu Chang, An-Jey A. Su, Meng-Fang Lin, Kai-Chi Hsiao, Yu-Ting Lin, Yu-Sheng Hsiao, [Ming-Chung Wu\\*](#), Yu-Ching Huang\*, and Wei-Fang Su\*, "Investigating Long Term Storage Stability and Drug Release Behavior of Polypeptide Based Fibrous Scaffold for Tissue Engineering Application", **2024, *Materials Chemistry and Physics***, 321, 129503. (▲:0; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
13. Rashmiranjan Patra, Pradeep Kumar Panda, Ting-Han Lin, [Ming-Chung Wu](#), and Po-Chih Yang\*, "Graphitic Carbon Nitride Nanosheet and Ferroelectric PbTiO<sub>3</sub> 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)

## 2023

14. Kai-Chi Hsiao, Yen-Fu Yu, Ching-Mei Ho, Meng-Huan Jao, Yu-Hsiang Chang, Shih-Hsuan Chen, Yin-Hsuan Chang, Wei-Fang Su, Kun-Mu Lee\*, and [Ming-Chung Wu\\*](#), "Doping Engineering of Carrier Transporting Layers for Ambient-Air-Stable Lead-Free Rudorffite Solar Cells Prepared by Thermal-Assisted Doctor Blade Coating", **2023, *Chemical Engineering Journal***, 451, 138807. (▲:12; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
15. Yuan-Yu Chiu, Shih-Hsuan Chen, Kun-Mu Lee, Tz-Feng Lin, and [Ming-Chung Wu\\*](#), "Side Chain Modulated Carbazole-Based Bifunctional Hole-Shuttle Interlayer Simultaneously Improves Interfacial Energy Level Alignment and Defect Passivation in High-Efficiency Perovskite Solar Cells", **2023, *Chemical Engineering Journal***, 477, 147208. (▲:3; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
16. 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)
17. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, Yu-Ching Huang\*, and [Ming-Chung Wu\\*](#), "Electrospun SnO<sub>2</sub>/WO<sub>3</sub> Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:0; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)

18. **Ming-Chung Wu**<sup>†</sup>, Ching-Mei Ho<sup>†</sup>, Kai-Chi Hsiao<sup>†</sup>, Shih-Hsuan Chen, Yin-Hsuan Chang, Meng-Huan Jao, "Antisolvent Engineering to Enhance Photovoltaic Performance of Methylammonium Bismuth Iodide Solar Cells", **2023, *Nanomaterials***, 13, 59. (▲:0; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
19. **Ming-Chung Wu**<sup>\*</sup>, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, Ting-Han Lin, Jia-Mao Chang, Kai-Hsiang Hsu, Jen-Fu Hsu<sup>\*</sup>, and Kun-Mu Lee<sup>\*</sup>, "Modulating Incident Light for Improved CO<sub>2</sub> 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)
20. Hyun-Sik Moon, Kai-Chi Hsiao, **Ming-Chung Wu**, Yongju Yun, Yung-Jung Hsu, and Kijung Yong<sup>\*</sup>, "Spatial Separation of Cocatalysts on Z-Scheme Organic/Inorganic Heterostructure Hollow Spheres for Enhanced Photocatalytic H<sub>2</sub> Evolution and in-Depth Analysis of the Charge-Transfer Mechanism", **2023, *Advanced Materials***, 35, 2200172. (▲:156; SCI; IF:27.4 at 2023; Ranking:3/231=1.3% in Chemistry, Multidisciplinary) (**Selected as a frontispiece cover of *Advanced Materials*!!**)
21. Ishita Chakraborty<sup>†</sup>, **Ming-Chung Wu**<sup>†</sup>, Sz-Nai Lian, and Chao-Sung Lai<sup>\*</sup>, "Self-Powered Broadband Photodetection with Mixed-Phase Black TiO<sub>2</sub>-Assisted Output Boosting of a Biobased Triboelectric Nanogenerator", **2023, *Chemical Engineering Journal***, 452, 139138. (▲:5; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
22. Yun-Hsiu Tseng, Tien-Li Ma, Dun-Heng Tan, An-Jey A. Su<sup>\*</sup>, Kia M. Washington, Chun-Chieh Wang, Yu-Ching Huang, **Ming-Chung Wu**<sup>\*</sup>, and Wei-Fang Su, "Injectable Hydrogel Guides Neurons Growth with Specific Directionality", **2023, *International Journal of Molecular Sciences***, 24, 7952. (▲:1; SCI; IF:4.9 at 2023; Ranking:83/231=35.9% in Chemistry, Multidisciplinary)
23. An-Jey A. Su, Ning Jiang, Shyh-Chyang Luo, Kia M. Washington, **Ming-Chung Wu**, Yu-Ching Huang<sup>\*</sup>, and Wei-Fang Su<sup>\*</sup>, "Fibrous Polypeptide Based Bioscaffold Delivery of Minocycline Hydrochloride for Nerve Regeneration", **2023, *Materials Chemistry and Physics***, 305, 127974. (▲:0; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
24. Forest Shih-Sen Chien<sup>\*</sup>, 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**<sup>\*</sup>, "Charge Relaxation Associated with Photo-Induced Deactivation of Various Traps in MAPbI<sub>3</sub> Films", **2023, *Journal of physics D-Applied Physics***, 56, 305105. (▲:0; SCI; IF:3.1 at 2023; Ranking:68/179=38.0% in Physics, Applied)
25. Seoungjun Ahn, Wei-Hao Chiu, Hsin-Ming Cheng, Vembu Suryanarayanan, Gao Chen, Yu-Ching Huang<sup>\*</sup>, **Ming-Chung Wu**<sup>\*</sup>, and Kun-Mu Lee<sup>\*</sup>, "Enhancing Efficiency and Stability of Perovskite Solar Cells Through Two-Step Deposition Method with the Addition of Cesium Halides to PbI<sub>2</sub> Precursor", **2023, *Organic Electronics***, 120, 106847. (▲:1; SCI; IF:2.7 at 2023; Ranking:77/179=43.0% in Physics, Applied)



## 2022

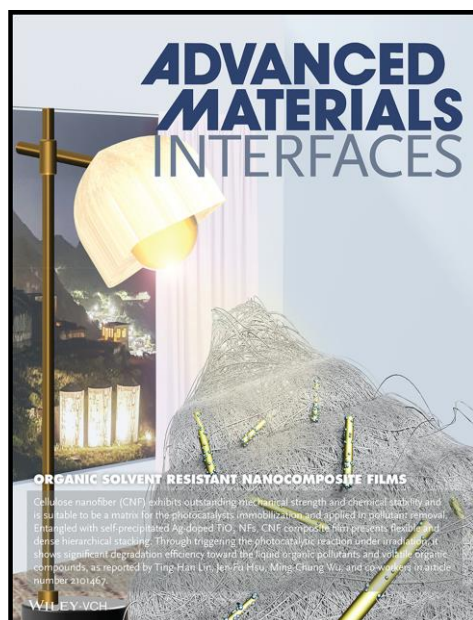
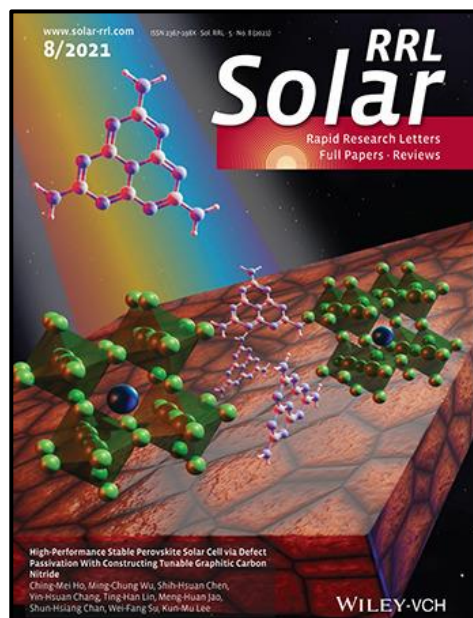
26. Shih-Hsuan Chen, Ching-Mei Ho, Yin-Hsuan Chang, Kun-Mu Lee, and [Ming-Chung Wu\\*](#), "Efficient Perovskite Solar Cells with Low J-V Hysteretic Behavior on Mesoporous Sn-Doped TiO<sub>2</sub> Electron Extraction Layer", **2022, *Chemical Engineering Journal***, 445, 136761. (▲:17; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
27. 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. (▲:5; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)
28. [Ming-Chung Wu\\*](#), Qian-Han Wang, Kai-Chi Hsiao, Shih-Hsuan Chen, Ching-Mei Ho, Meng-Huan Jao, Yin-Hsuan Chang, and Wei-Fang Su, "Composition Engineering to Enhance the Photovoltaic Performance and to Prolong the Lifetime for Silver Bismuth Iodide Solar Cell", **2022, *Chemical Engineering Journal Advances***, 10, 100275. (▲:9; SCI; IF:5.5 at 2023; Ranking:31/170=18.2% in Engineering, Chemical)
29. 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)
30. 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<sub>2</sub>-Nanofibers Nanocomposites", **2022, *Advanced Materials Technologies***, 7, 2101147. (▲:1; SCI; IF:6.4 at 2023; Ranking:120/438=27.4% in Materials Science, Multidisciplinary)
31. Kun-Mu Lee\*†, Shun-Hsiang Chan\*†, Chang-Chieh Ting, Shih-Hsuan Chen, Wei-Hao Chiu, Vembu Suryanarayanan, Jen-Fu Hsu, Ching-Yuan Liu\*, and [Ming-Chung Wu\\*](#), "Surfactant Tween 20 Controlled Perovskite Film Fabricated by Thermal Blade Coating for Efficient Perovskite Solar Cells", **2022, *Nanomaterials***, 12, 2651. (▲:3; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
32. 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-

33. 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<sub>oc</sub> 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)
34. 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)



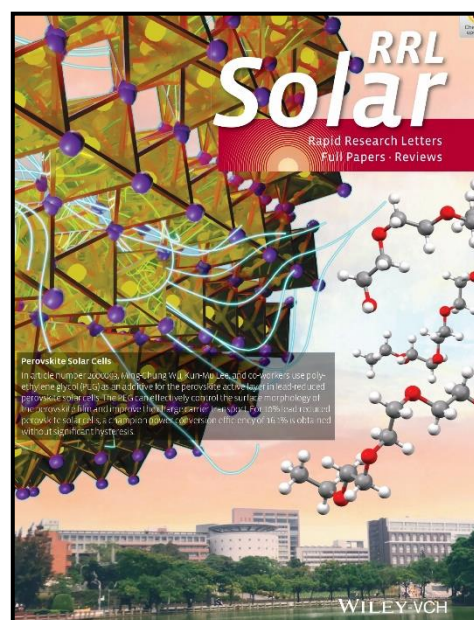
35. Ching-Mei Ho<sup>†</sup>, [Ming-Chung Wu<sup>\\*†</sup>](#), Shih-Hsuan Chen, Yin-Hsuan Chang, Ting-Han Lin, Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee\*, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", **2021, *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!!)**
36. Ting-Han Lin<sup>†</sup>, [Ming-Chung Wu<sup>\\*†</sup>](#), Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu\*, and Kun-Mu Lee\*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO<sub>2</sub> Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021, *Journal of the Taiwan Institute of Chemical Engineers*, 120, 291-299. (▲:10; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)**
37. 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<sub>2</sub> 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*!!)**
38. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang\*, and [Ming-Chung Wu\\*](#), "Nanoscale Multidimensional Pd/TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", **2021, *Catalysts*, 11, 59. (▲:10; SCI; IF:3.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)**
39. [Ming-Chung Wu\\*](#), Ruei-Yu Kuo, Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, and Wei-Feng Su, "Alkali Metal Cation Incorporated Ag<sub>3</sub>BiI<sub>6</sub> Absorbers for Efficient and Stable Rudorffite Solar Cells", **2021, *Oxford Open Materials Science*, 1, itab017. (▲:3; SCI; IF:2.9 at 2023; Ranking:220/438=50.2% in Materials Science, Multidisciplinary)**
40. Kun-Mu Lee\*, Shun-Hsiang Chan, Min-Yao Hou, Wei-Cheng Chu, Shih-Hsuan Chen, Sheng-Min Yu, and [Ming-Chung Wu\\*](#), "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Thermal Assisted Blade Coating Method", **2021, *Chemical Engineering Journal*, 405, 126992. (▲:18; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)**
41. Ishita Chakraborty, Sz-Nian La, [Ming-Chung Wu](#), Hsun-Yen Lin, Chuan Li, Jyh Ming Wu\*, and Chao-Sung Lai\*, "Charge Trapping with α-Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Accompanied by Human Hair Towards an Enriched Triboelectric Series and a Sustainable Circular Bioeconomy", **2021, *Materials Horizons*, 2021, 8, 3149-3162. (▲:13; SCI; IF:12.2 at 2023; Ranking:43/438=9.8% in Materials Science, Multidisciplinary)**
42. 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)**



43. 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)
44. Kun-Mu Lee\*, Shun-Hsiang Chan, Wei-Hao Chiu, Seoungjun Ahn, Chang-Chieh Ting, Yin-Hsuan Chang, Vembu Suryanarayanan, [Ming-Chung Wu\\*](#), and Ching-Yuan Liu\*, "Reduced Defect in Organic-Lead Halide Perovskite Film by De-Layer Thermal Annealing Combined with KI/I<sub>2</sub> for Efficient Perovskite Solar Cells", **2021, *Nanomaterials***, 11, 1607. (▲:6; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
45. Wei-Hao Chiu, Kun-Mu Lee\*, Vembu Suryanarayanan, Jen-Fu Hsu\*, and [Ming-Chung Wu\\*](#), "Controlled Photoanode Properties for Large-Area Efficient and Stable Dye-Sensitized Photovoltaic Modules", **2021, *Nanomaterials***, 11, 2125. (▲:5; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
46. Mamina Sahoo, Az-Nian Lai, Jyh-Ming Wu, [Ming-Chung Wu](#), and Chao-Sung Lai\*, "Flexible Layered-Graphene Charge Modulation for Highly Stable Triboelectric Nanogenerator", **2021, *Nanomaterials***, 11, 2276. (▲:14; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
47. 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<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskite Films by Different Photon Energies", **2021, *Physical Chemistry Chemical Physics***, 23, 10919. (▲:3; SCI; IF:2.9 at 2023; Ranking:11/40=27.5% in Physics, Atomic, Molecular & Chemical)

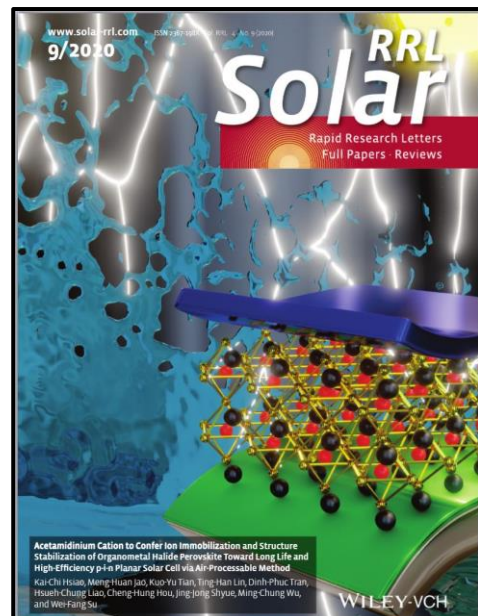
## 2020-

48. [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<sub>2</sub> Electron Transport Layer", **2020, *Small***, 16, 2002201. (▲:16; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
49. [Ming-Chung Wu\\*](#), Chih-Kunag Kao, Tz-Feng Lin, Shun-Hsiang Chan, Shih-Hsuan Chen, Chi-Hung Lin, Yu-Ching Huang, Ziming Zhou, Kai Wang, and Chao-Sung Lai\*, "Surface Plasmon Resonance Amplified Efficient Polarization-Selective Volatile Organic Compounds CdSe-CdS/Ag/PMMA Sensing Material", **2020, *Sensors and Actuators B: Chemical***, 309, 127760. (▲:18; SCI; IF:8.0 at 2023; Ranking:5/106=4.6% in Chemistry, Analytical)
50. Shun-Hsiang Chan, [Ming-Chung Wu\\*](#), Yi-Ying Li, Kun-Mu Lee, Yang-Fang Chen, and Wei-Fang Su\*, "Barium Doping Effect on the Photovoltaic Performance and Stability of MA<sub>0.4</sub>FA<sub>0.6</sub>Ba<sub>x</sub>Pb<sub>1-x</sub>lyCl<sub>3-y</sub> Perovskite Solar Cells", **2020, *Applied Surface Science***, 521, 146451. (▲:8; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
51. [Ming-Chung Wu\\*](#), Yi-Ying Li, Shun-Hsiang Chan, Kun-Mu Lee\*, and Wei-Fang Su, "Polymer Additives for Morphology Control in High-Performance Lead-Reduced Perovskite Solar Cells", **2020, *Solar RRL***, 4, 6, 2000093. (▲:17; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)  
**(Selected as a frontispiece of Solar RRL!!)**





52. 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!!)**



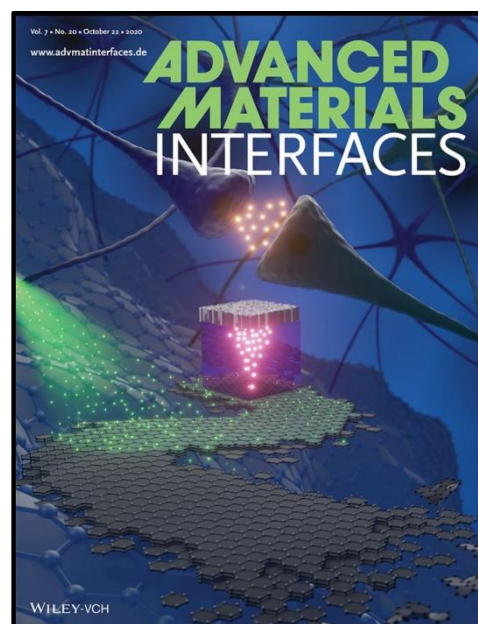
53. Ying-Han Liao, Yin-Hsuan Chang, Ting-Han Lin, Shun-Hsiang Chan, Kun-Mu Lee, Kai-Hsiang Hsu, Jen-Fu Hsu\*, and [Ming-Chung Wu\\*](#), "Boosting the Power Conversion Efficiency of Perovskite Solar Cells Based on Sn Doped TiO<sub>2</sub> Electron Extraction Layer via Modification the TiO<sub>2</sub> Phase Junction", **2020, *Solar Energy***, 205, 390-398. (▲:13; SCI; IF:6.0 at 2023; Ranking:62/173=35.8% in Energy & Fuels)

54. Meng-Huan Jao, Shun-Hsiang Chan, [Ming-Chung Wu\\*](#), and Chao-Sung Lai\*, "Element Code from Pseudopotential as Efficient Descriptors for Machine Learning Model to Explore Potential Lead-Free Halide Perovskite", **2020, *Journal of Physical Chemistry Letters***, 11, 8914-8921. (▲:10; SCI; IF:4.8 at 2023; Ranking:5/40=12.5% in Physics, Atomic, Molecular & Chemical)

55. 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)

56. Jer-Chyi Wang\*, Yi-Pei Jiang, Yu-Jie Lin, Shun-Hsiang Chan, and [Ming-Chung Wu\\*](#), "Trifluoroethylene Bond Enrichment in P(VDF-TrFE) Copolymers with Enhanced Ferroelectric Behaviors by Plasma Fluorination on Bottom Electrode", **2020, *Journal of the Taiwan Institute of Chemical Engineers***, 107, 152-160. (▲:2; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)

57. 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!!)**



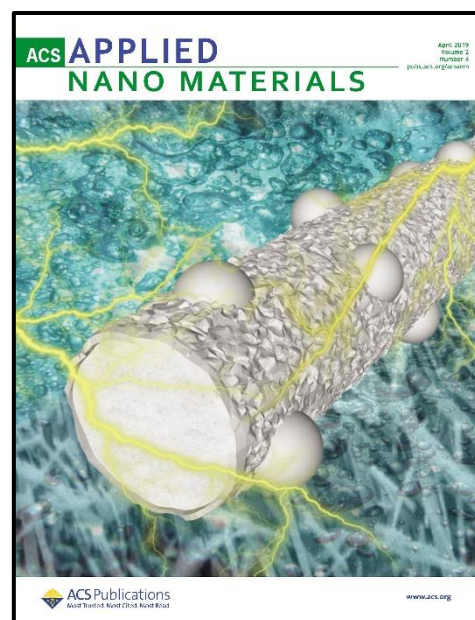
58. Yi-Pei Jiang, Tzu-Chuan Yang, Ting-Han Lin, Ching-Mei-Ho, Shun-Hsiang Chan, [Ming-Chung Wu](#), and Jer-Chyi Wang\*, "Layer-Dependent Solvent Vapor Annealing on Stacked Ferroelectric P(VDF-TrFE) Copolymers for Highly Efficient Nanogenerator Applications", **2020, *Polymer***, 204, 122822. (▲:7; SCI; IF:4.1 at 2023; Ranking:16/94=17.0% in Polymer Science)

59. 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<sub>4</sub>-Plasma-Treated IGZO Thin-Film Transistors Coated by P(VDF-TrFE) Copolymers", **2020, *Sensors and Actuators A: Physical***, 304, 111855. (▲:2; SCI; IF:4.1 at 2023; Ranking:14/76=18.4% in Instruments & Instrumentation)

60. Kun-Mu Lee\*, Wei-Jih Lin, Shih-Hsuan Chen, and [Ming-Chung Wu\\*](#), "Control of TiO<sub>2</sub> Electron Transport Layer Properties to Enhance Perovskite Photovoltaics Performance and Stability", **2020, *Organic Electronics***, 77, 105406. (▲:26; SCI; IF:2.7 at 2023; Ranking:77/179=43.0% in Physics, Applied)

## 2019-

61. [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. (▲:8; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
62. 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. (▲:31; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
63. [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<sub>2</sub> 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)
64. [Ming-Chung Wu\\*](#), Wei-Kang Huang, Ting-Han Lin, and Yu-Jen Lu\*, "Photocatalytic Hydrogen Production and Photodegradation of Organic Dyes of Hydrogenated TiO<sub>2</sub> 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)
65. 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<sub>2</sub> Electron Transport Layer", **2019, *Applied Surface Science***, 469, 18-26. (▲:39; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
66. 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)
67. 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)
68. [Ming-Chung Wu\\*](#), Kai-Chi Hsiao, Yin-Hsuan Chang, and Krisztián Kordás, "Core-Shell Heterostructures of Rutile and Anatase TiO<sub>2</sub> Nanofibers for Photocatalytic Solar Energy Conversion", **2019, *ACS Applied Nano Materials***, 2, 1970-1979. (▲:16; SCI; IF:5.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary) **(Selected as a supplementary cover of ACS Applied Nano Materials!!)**

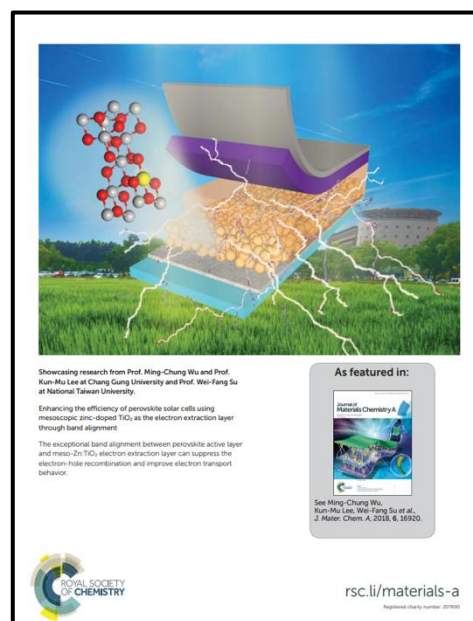




69. Yin-Hsuan Chang, and [Ming-Chung Wu\\*](#), "Enhanced Photocatalytic Reduction of Cr(VI) by Combined Magnetic TiO<sub>2</sub>-Based NFs and Ammonium Oxalate Hole Scavenger", **2019, *Catalysts***, 9, 72, 1-12. (▲:23; SCI; IF:3.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)
70. Shun-Hsiang 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. (▲:13; SCI; IF:2.6 at 2023; Ranking:288/438=65.8% in Materials Science, Multidisciplinary)
71. Ruey-Shin Juang, Chun-Ju Su, [Ming-Chung Wu](#), His-Chuan Lu, Sea-Fue Wang, and An-Cheng Sun\*, "Fabrication of Magnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles with Unidirectional Extension Pattern by a Facile and Eco-Friendly Microwave-Assisted Solvothermal Method", **2019, *Journal of Nanoscience and Nanotechnology***, 19, 7645-7653. (▲:8; SCI; IF:1.134 at 2019; Ranking:137/177=77.4% in Chemistry, Multidisciplinary)

## 2018-

72. [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<sub>2</sub> as Electron Extraction Layer Through Band Alignment", **2018, *Journal of Materials Chemistry A***, 6, 16920-16931. (▲:71; SCI; IF:10.7 at 2023; Ranking:49/438=11.2% in Materials Science, Multidisciplinary) **(Selected as a back cover of *Journal of Materials Chemistry A*!!)**
73. 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:7.5 at 2023; Ranking:48/231=20.8% in Chemistry, Multidisciplinary)
74. [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. (▲:46; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
75. [Ming-Chung Wu\\*](#), Po-Yeh Wu, Ting-Han Lin, and Tz-Feng Lin, "Photocatalytic Performance of Cu-Doped TiO<sub>2</sub> 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)
76. [Ming-Chung Wu\\*](#), Kai-Chi Hsiao, Yin-Hsuan Chang, and Shun-Hsiang Chan, "Photocatalytic Hydrogen Evolution of Palladium Nanoparticles Decorated Black TiO<sub>2</sub> Calcined in Argon Atmosphere", **2018, *Applied Surface Science***, 430, 407-414. (▲:40; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
77. [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<sub>2</sub> Hole Blocking Layer", **2018, *Solar RRL***, 2, 1800072. (▲:20; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary)
78. [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<sub>2</sub> Hole Blocking Layer", **2018, *ACS Applied Energy Materials***, 9, 4849-4859. (▲:13; SCI; IF:5.4 at 2023; Ranking:49/178=27.5% in Chemistry, Physical)



79. Ming-Chung Wu\*, Ming-Pin Lin, Ting-Han Lin, and Wei-Fang Su, "Ag/SiO<sub>2</sub> 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)
80. 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:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

## 2017-

81. 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. (▲:83; SCI; IF:10.7 at 2023; Ranking:49/438=11.2% in Materials Science, Multidisciplinary)
82. 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. (▲:4; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
83. 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. (▲:62; SCI; IF:6.3 at 2023; Ranking:27/179=15.1% in Physics, Applied)
84. 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. (▲:22; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
85. 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. (▲:15; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
86. 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<sub>2</sub> 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)
87. 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. (▲:13; SCI; IF:3.8 at 2023; Ranking:23/135=17.0% in Multidisciplinary Science)
88. 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)
89. Ming-Chung Wu\*, Yin-Hsuan Chang, and Ting-Han Lin, "Bismuth Doping Effect on Crystal Structure and Photodegradation Activity of Bi-TiO<sub>2</sub> Nanoparticles", **2017, *Japanese Journal of Applied Physics***, 56, 04CJ01. (▲:3; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

90. [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<sub>2</sub>", **2017, *Japanese Journal of Applied Physics***, 56, 04CP07. (▲:11; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

## 2016-

91. [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<sub>2</sub> as Electron Transport Layer", **2016, *Solar Energy Materials and Solar Cells***, 157, 447-453 (▲:92; SCI; IF:6.3 at 2023; Ranking:27/179=15.1% in Physics, Applied)
92. [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<sub>2</sub> 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)
93. [Ming-Chung Wu\\*](#), I-Chun Chang, Kai-Chi Hsiao, and Wei-Kang Huang, "Highly Visible-Light Absorbing Black TiO<sub>2</sub> Nanocrystals Synthesized by Sol-Gel Method and Subsequent Heat Treatment in Low Partial Pressure H<sub>2</sub>", **2016, *Journal of the Taiwan Institute of Chemical Engineers***, 63, 430-435. (▲:19; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
94. 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 (▲:15; SCI; IF:3.3 at 2023; Ranking:228/438=52.1% in Materials Science, Multidisciplinary)

## 2015-

95. 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. (▲:75; SCI; IF:8.4 at 2023; Ranking:3/94=3.2% in Polymer Science)
96. [Ming-Chung Wu\\*](#), Pei-Huan Lee, and Dai-Lung Lee, "Enhanced Photocatalytic Activity of Palladium Decorated TiO<sub>2</sub> Nanofibers Containing Anatase-Rutile Mixed Phase", **2015, *International Journal of Hydrogen Energy***, 40, 4558-4566. (▲:38; SCI; IF:8.1 at 2023; Ranking:8/45=17.8% in Electrochemistry)
97. [Ming-Chung Wu\\*](#), Kai-Chi Hsiao, and Hsin-Chun Lu, "Synthesis of InGaZnO<sub>4</sub> Nanoparticles Using Low Temperature Multistep Co-Precipitation Method", **2015, *Materials Chemistry and Physics***, 162, 386-391. (▲:14; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
98. 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. (▲:62; SCI; IF:3.9 at 2023; Ranking:93/231=40.3% in Chemistry, Multidisciplinary)
99. Kun-Mu Lee, Sheng Hsiung Chang\*, [Ming-Chung Wu](#), and Chun-Guey Wu\*, "Raman and Photoluminescence Investigation of CdS/CdSe Quantum Dots on TiO<sub>2</sub> Nanoparticles with Multi-Walled Carbon Nanotubes and Their Application in Solar Cells", **2015, *Vibrational Spectroscopy***, 80, 66-69. (▲:9; SCI; IF:2.7 at 2023; Ranking:74/178=41.6% in Chemistry, Physical)
100. [Ming-Chung Wu\\*](#), Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication and Photocatalytic Performance of Electrospun PVA/Silk/TiO<sub>2</sub> 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

101. 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<sub>2</sub> for Organic Dye Detecting", **2014**, *RSC Advances*, 4, 10043-10050. (▲:34; SCI; IF:3.9 at 2023; Ranking:93/231=40.3% in Chemistry, Multidisciplinary)
102. Yu-Chieh Tu, Chun-Yu Chang, Ming-Chung Wu, Jing-Jong Shyue, and Wei-Fang Su\*, "BiFeO<sub>3</sub>/YSZ Bilayer Electrolyte for Low Temperature Solid Oxide Fuel Cell", **2014**, *RSC Advances*, 4, 38, 19925-19931. (▲:2; SCI; IF:3.9 at 2023; Ranking:93/231=40.3% in Chemistry, Multidisciplinary)
103. 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<sub>2</sub> Nanorods Oxygen Sensor", **2014**, *RSC Advances*, 4, 44, 22926-22930. (▲:9; SCI; IF:3.9 at 2023; Ranking:93/231=40.3% in Chemistry, Multidisciplinary)
104. Ming-Chung Wu\*, Jyun-Sian Chih, and Wei-Kang Huang, "Bismuth Doping Effect on TiO<sub>2</sub> Nanofibers for Morphological Change and Photocatalytic Performance", **2014**, *CrystEngComm*, 16, 10692-10699. (▲:58; SCI; IF:2.6 at 2023; Ranking:6/33=18.2% in Crystallography)
105. Ming-Chung Wu\*, Hsueh-Chung Liao, Yu-Cheng Cho, Che-Pu Hsu, Ting-Han Lin, Wei-Fang Su, Andras Sapi, Akos Kukovecz, Zoltan Konya, Andrey Shchukarev, Anjana Sarkar, William Larsson, Jyri-Pekka Mikkola, Melinda Mohl, Geza Toth, Heli Jantunen, Anna Valtanen, Mika Huuhtanen, Riitta L. Keiski, and Krisztian Kordas, "Photocatalytic Activity of Nitrogen Doped TiO<sub>2</sub>-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)
106. 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<sub>2</sub>-Pd Based Nanoparticles", **2014**, *Thin Solid Films*, 570, 371-375. (▲:13; SCI; IF:2.0 at 2023; Ranking:14/23 =60.9% in Materials Science, Coatings & Films)

## 2013-

107. 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<sub>2</sub> Nanofiber Photocatalysts", **2013**, *Journal of Materials Chemistry A*, 1, 5715-5720. (▲:38; SCI; IF:10.7 at 2023; Ranking:49/438=11.2% in Materials Science, Multidisciplinary)
108. 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. (▲:24; SCI; IF:6.7 at 2023; Ranking:7/106=6.6% in Chemistry, Analytical)

## 2012-

109. 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. (▲:51; SCI; IF:10.5 at 2023; Ranking:17/178=9.6% in Chemistry, Physical)
110. 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. (▲:60; SCI; IF:6.7 at 2023; Ranking:7/106=6.6% in Chemistry, Analytical)

111. 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<sub>3</sub> Nanoparticles and Their Gas Sensing Properties", **2012**, *Journal of Materials Chemistry*, 22, 17878-17886. (▲:59; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
112. [Ming-Chung Wu](#), Shih-Wen Chen, Jia-Han Li, Yi Chou, Jih-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:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
113. 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. (▲:49; SCI; IF:2.6 at 2023; Ranking:6/33=18.2% in Crystallography)
114. Meng-Huan Jao, Hsueh-Chung Liao, [Ming-Chung Wu](#), and Wei-Fang Su\*, "Synthesis and Characterization of Wurtzite Cu<sub>2</sub>ZnSnS<sub>4</sub> Nanocrystals", **2012**, *Japanese Journal of Applied Physics*, 51, 10NC30. (▲:14; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)
115. [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. (▲:20; SCI; IF:1.134 at 2019; Ranking:137/177=77.4% in Chemistry, Multidisciplinary)

## 2011-

116. [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. (▲:138; SCI; IF:15.8 at 2023; Ranking:24/438=5.5% in Materials Science, Multidisciplinary)
117. [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<sub>2</sub> Nanofibers and Their Flexible Composite Films: Decomposition of Organic Dyes and Efficient H<sub>2</sub> Generation from Ethanol-Water Mixture", **2011**, *Nano Research*, 4, 360-369. (▲:106; SCI; IF:9.5 at 2023; Ranking:19/179=10.6% in Physics, Applied)
118. 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. (▲:22; SCI; IF:3.3 at 2023; Ranking:228/438=52.1% in Materials Science, Multidisciplinary)
119. 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)
120. 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:1.5 at 2023; Ranking:62/79=78.5% in Physics, Condensed Matter)

**2010-**

121. 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<sub>2</sub> Nanorods Bulk Heterojunction Photovoltaic Devices", **2010**, *Nanoscale*, 2, 1448-1454. (▲:21; SCI; IF:5.8 at 2023; Ranking:42/179=23.5% in Physics, Applied)
122. 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. (▲:26; SCI; IF:2.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)

**2009-**

123. 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<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Periodic Arrays", **2009**, *ACS Applied Materials & Interfaces*, 1, 2484-2490. (▲:13; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
124. 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. (▲:29; SCI; IF:6.3 at 2023; Ranking:27/179=15.1% in Physics, Applied)
125. 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. (▲:101; SCI; IF:6.3 at 2023; Ranking:27/179=15.1% in Physics, Applied)
126. 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<sub>2</sub> Nanorod Photovoltaic Devices", **2009**, *Solar Energy Materials and Solar Cells*, 93, 869-873. (▲:17; SCI; IF:6.3 at 2023; Ranking:27/179=15.1% in Physics, Applied)
127. 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. (▲:92; SCI; IF:2.8 at 2023; Ranking:13/40=32.5% in Physics, Atomic, Molecular & Chemical)
128. Ming-Chung Wu, Chih-Min Chuang, Jih-Fong Lin, Yu-Ching Huang, Yang-Fang Chen\*, and Wei-Fang Su\*, "Nanopatterned Optical and Magnetic La<sub>0.6</sub>Ca<sub>0.4</sub>MnO<sub>3</sub> Arrays: Synthesis, Fabrication, and Properties", **2009**, *Journal of Materials Research*, 24, 394-403. (▲:3; SCI; IF:2.7 at 2023; Ranking:273/438=62.3% in Materials Science, Multidisciplinary)
129. 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 2023; Ranking:73/179=40.8% in Physics, Applied)



## 2008-

130. Ming-Chung Wu, Chih-Min Chuang, Yang-Fang Chen\*, and Wei-Fang Su\*, "Fabrication and Optical Properties of Periodical Structures Based on A Water-developable and Tunable  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$  Resist", **2008, *Journal of Materials Chemistry***, 18, 780-785. (▲:8; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
131. 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)/ $\text{TiO}_2$  Nanorods Hybrid Solar Cell", **2008, *Journal of Materials Chemistry***, 18, 4079-4102. (▲:33; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
132. 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:3.5 at 2023; Ranking:53/179=29.6% in Physics, Applied)
133. Ming-Chung Wu, Yi-Jen Wu, Yu-Ching Huang, Chih-Min Chuang, Kuo-Chung Cheng, Chin-Feng Lin, Yang-Fang Chen\*, and Wei-Fang Su\*, "Surface Potential and Magnetic Properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$  Periodic Arrays Fabricated by Direct Electron Beam Writing", **2008, *Journal of Applied Physics***, 104, 024517. (▲:2; SCI; IF:2.7 at 2023; Ranking:73/179=40.8% in Physics, Applied)
134. 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:2.0 at 2023; Ranking:14/23 =60.9% in Materials Science, Coatings & Films)

## 2007-

135. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su\*, "Silver Cofirability Differences between  $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$  and  $\text{Zn}_3\text{Nb}_2\text{O}_8$ ", **2007, *Journal of the European Ceramic Society***, 27, 3017-3021. (▲:7; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
136. Ming-Chung Wu, Ming-Kang Hsieh, Yu-Ching Huang, Cheng-Wei Yen, Welter Huang, and Wei-Fang Su\*, "Low Sintering  $\text{BaNd}_2\text{Ti}_4\text{O}_{12}$  Microwave Ceramics Prepared by CuO Atomic Layer Coated Powder", **2007, *Journal of the European Ceramic Society***, 27, 2835-2839. (▲:16; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
137. 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:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)

## 2006-

138. Ming-Chung Wu, Stanislav Kamba, Viktor Bovtun, and Wei-Fang Su\*, "Comparison of Microwave Dielectric Behavior between  $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$  and  $\text{Bi}_{1.5}\text{ZnNb}_{1.5}\text{O}_7$ ", **2006, *Journal of the European Ceramic Society***, 26, 1889-1893. (▲:30; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
139. Ming-Chung Wu, Kuo-Tung Huang, and Wei-Fang Su\*, "Microwave Dielectric Properties of Doped  $\text{Zn}_3\text{Nb}_2\text{O}_8$  Ceramics Sintered below 950°C and Their Compatibility with Silver Electrode", **2006, *Materials Chemistry and Physics***, 98, 406-409. (▲:32; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)

140. Ming-Chung Wu, Yu-Ching Huang, and Wei-Fang Su\*, "Silver Cofirable  $\text{Bi}_{1.5}\text{Zn}_{0.92}\text{Nb}_{1.5}\text{O}_{6.92}$  Microwave Ceramics Containing CuO Based Dopants", **2006**, *Materials Chemistry and Physics*, 100, 391-394. (▲:22; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
141. 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. (▲ :24; SCI; IF:3.5 at 2023; Ranking:53/179=29.6% in Physics, Applied)
142. 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 2023; Ranking:79/179=44.1% in Physics, Applied)

## ■ Non-SCI Journal Paper Publications

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