

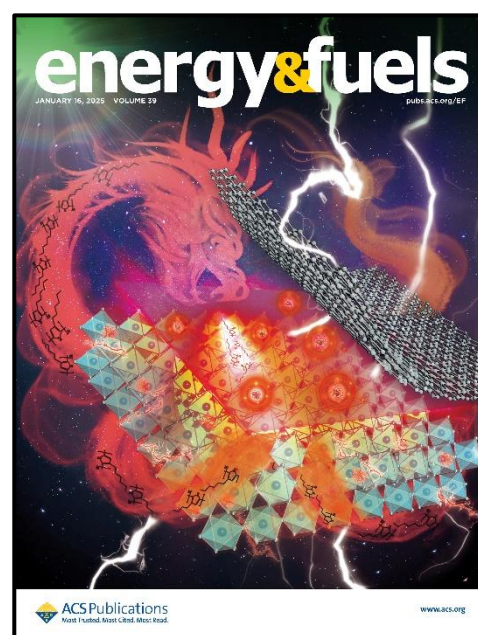
SCI Journal Paper

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 Cu_3N_x Clusters on TiO_2 Nanosheets to The Sub-Nanometric Scale for Enhancing NH_3 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)
3. 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*!!)

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4. 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. (▲:1; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
5. 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)
6. 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)
7. 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 $\text{Au}@ \text{CdS}$ 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)

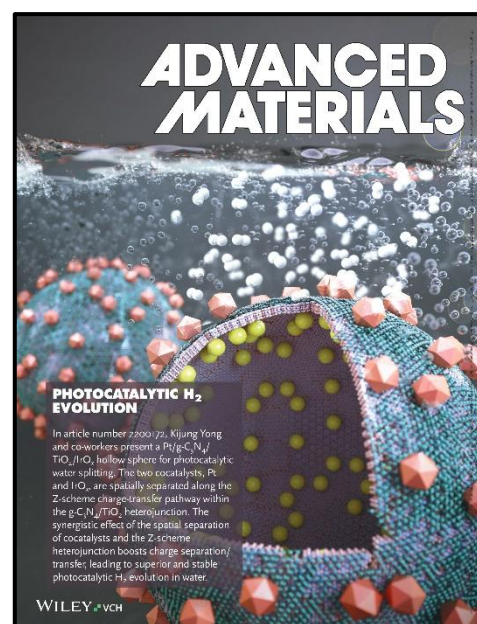


8. Chao Zhang†, Xiaobin Hao†, Jiatang Wang, Xiayu Ding, Yuan Zhong, Yawen Jiang, [Ming-Chung Wu](#), Ran Long, Wanbing Gong, Changhao Liang, Weiwei Cai*, Jingxiang Low*, and Yujie Xiong*, "Concentrated Formic Acid from CO₂ Electrolysis for Directly Driving Fuel Cell", **2024, *Angewandte Chemie-International Edition***, 63, e202317628. (▲:17; SCI; IF:16.1 at 2023; Ranking:11/231=4.8% in Chemistry, Multidisciplinary)
9. 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)
10. Wei-Hao Chiu, Ying-Kai Huang, Shih-Hsuan Chen, [Ming-Chung Wu](#), Gao Chen, and Kun-Mu Lee*, "Exploring the Efficiency Enhancement of Perovskite Solar Cells by Chemical Bath Depositing SnO₂ on Mesoporous TiO₂ Electrode", **2024, *Materials Today Chemistry***, 41, 102329. (▲:0; SCI; IF:6.7 at 2023; Ranking:43/231=18.6% in Chemistry, Multidisciplinary)
11. 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)
12. 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)
13. 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)
14. 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)

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16. 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)
17. 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)

18. 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)
19. [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. (▲:0; SCI; IF:4.4 at 2023; Ranking:60/179=33.5% in Physics, Applied)
20. [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)
21. Hyun-Sik Moon, Kai-Chi Hsiao, [Ming-Chung Wu](#), Yongju Yun, Yung-Jung Hsu, and Kijung Yong*, "Spatial Separation of Cocatalysts on Z-Scheme Organic/Inorganic Heterostructure Hollow Spheres for Enhanced Photocatalytic H₂ Evolution and in-Depth Analysis of the Charge-Transfer Mechanism", **2023, *Advanced Materials***, 35, 2200172. (▲:156; SCI; IF:27.4 at 2023; Ranking:3/231=1.3% in Chemistry, Multidisciplinary) **(Selected as a frontispiece cover of Advanced Materials!!)**
22. Ishita Chakraborty[†], [Ming-Chung Wu](#)[†], Sz-Nai Lian, and Chao-Sung Lai*, "Self-Powered Broadband Photodetection with Mixed-Phase Black TiO₂-Assisted Output Boosting of a Biobased Triboelectric Nanogenerator", **2023, *Chemical Engineering Journal***, 452, 139138. (▲:5; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
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24. 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. (▲:0; SCI; IF:4.3 at 2023; Ranking:137/438=31.3% in Materials Science, Multidisciplinary)
25. Forest Shih-Sen Chien*, Asmida Herawati, Ching-Mei Ho, Hsi-Lien Hsiao, Tsong-Shin Tim, Chang-Ren Wang, Kwai-Kong Ng, Subir Das, Fu-Jen Kao, and [Ming-Chung Wu*](#), "Charge Relaxation Associated with Photo-Induced Deactivation of Various Traps in MAPbI₃ Films", **2023, *Journal of physics D-Applied Physics***, 56, 305105. (▲:0; SCI; IF:3.1 at 2023; Ranking:68/179=38.0% in Physics, Applied)
26. Seoungjun Ahn, Wei-Hao Chiu, Hsin-Ming Cheng, Vembu Suryanarayanan, Gao Chen, Yu-Ching Huang*, [Ming-Chung Wu*](#), and Kun-Mu Lee*, "Enhancing Efficiency and Stability of Perovskite Solar Cells Through Two-Step Deposition Method with the Addition of Cesium Halides to PbI₂ Precursor", **2023, *Organic Electronics***, 120, 106847. (▲:1; SCI; IF:2.7 at 2023; Ranking:77/179=43.0% in Physics, Applied)



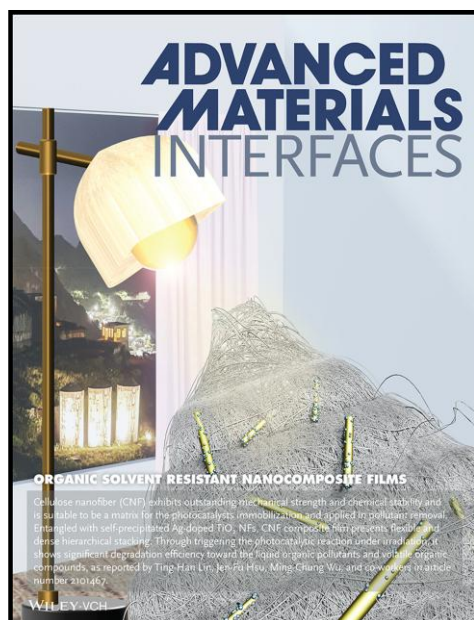
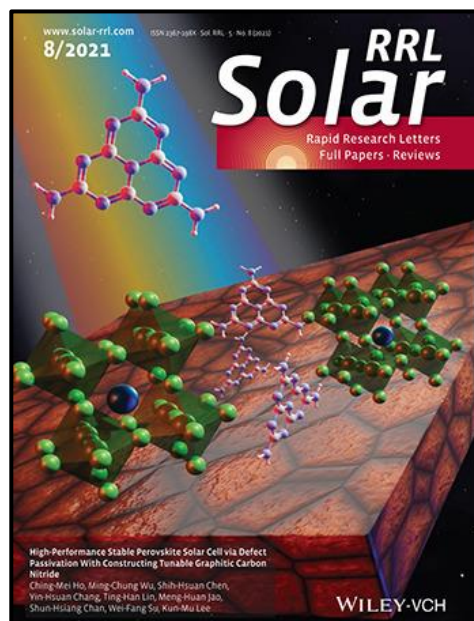
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27. Shih-Hsuan Chen, Ching-Mei Ho, Yin-Hsuan Chang, Kun-Mu Lee, and [Ming-Chung Wu*](#), "Efficient Perovskite Solar Cells with Low J-V Hysteretic Behavior on Mesoporous Sn-Doped TiO₂ Electron Extraction Layer", **2022, *Chemical Engineering Journal***, 445, 136761. (▲:17; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
28. 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)
29. [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)
30. 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)
31. 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)
32. 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)
33. 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)

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35. 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)

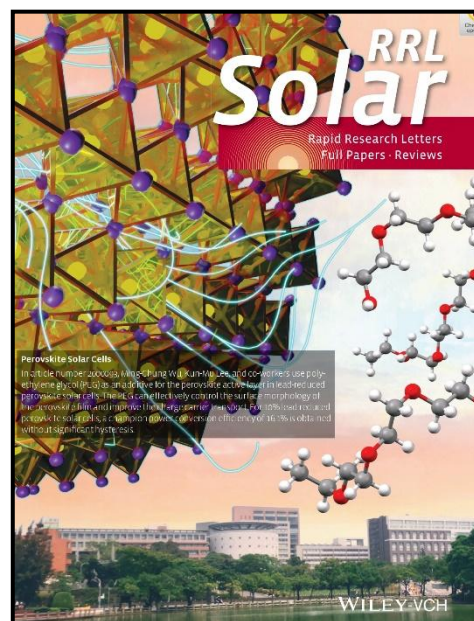
36. Ching-Mei Ho[†], [Ming-Chung Wu^{*†}](#), Shih-Hsuan Chen, Yin-Hsuan Chang, Ting-Han Lin, Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee*, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", **2021, *Solar RRL*, 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!!**)
37. 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:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
38. 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.** (▲:9; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) (**Selected as a frontispiece of Advanced Materials Interfaces!!**)
39. 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)
40. [Ming-Chung Wu*](#), Ruei-Yu Kuo, Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, and Wei-Feng Su, "Alkali Metal Cation Incorporated Ag₃BiI₆ 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)
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42. Ishita Chakraborty, Sz-Nian La, [Ming-Chung Wu](#), Hsun-Yen Lin, Chuan Li, Jyh Ming Wu*, and Chao-Sung Lai*, "Charge Trapping with α-Fe₂O₃ Nanoparticles Accompanied by Human Hair Towards an Enriched Triboelectric Series and a Sustainable Circular Bioeconomy", **2021, *Materials Horizons*, 2021, 8, 3149-3162.** (▲:13; SCI; IF:12.2 at 2023; Ranking:43/438=9.8% in Materials Science, Multidisciplinary)
43. 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)



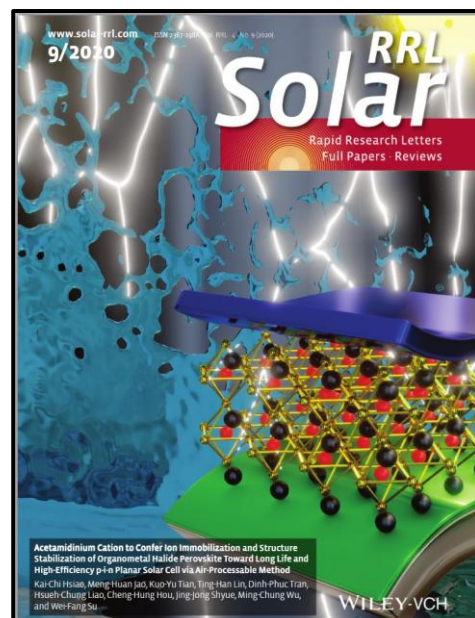
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50. [Ming-Chung Wu*](#), Chih-Kunag Kao, Tz-Feng Lin, Shun-Hsiang Chan, Shih-Hsuan Chen, Chi-Hung Lin, Yu-Ching Huang, Ziming Zhou, Kai Wang, and Chao-Sung Lai*, "Surface Plasmon Resonance Amplified Efficient Polarization-Selective Volatile Organic 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)
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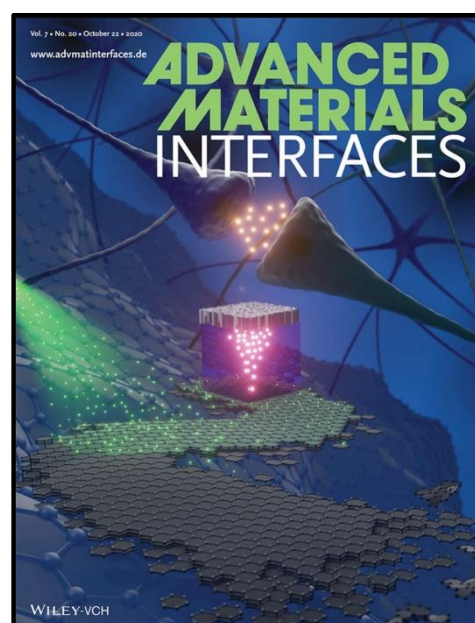
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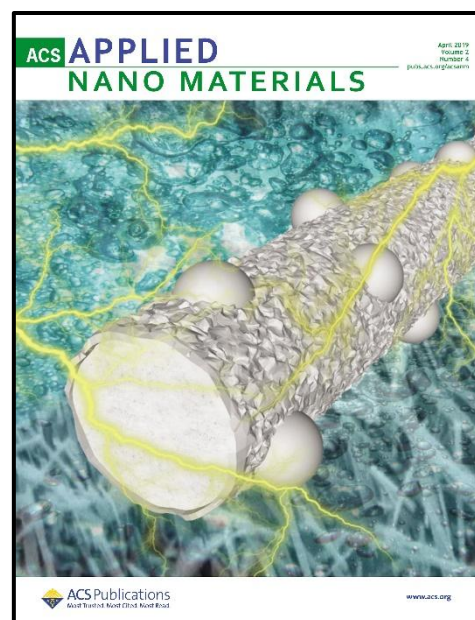
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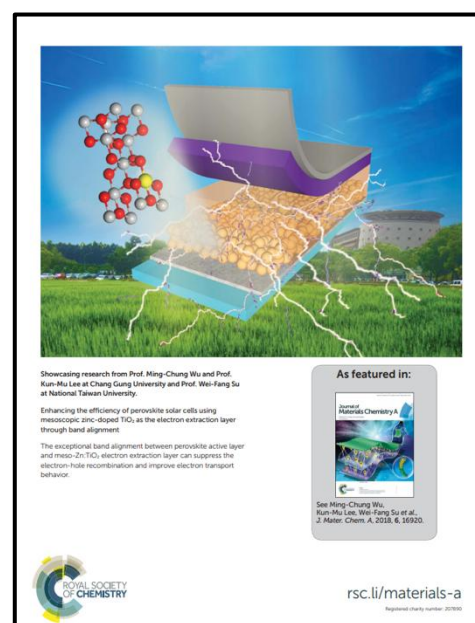
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