

Prof. Ming-Chung Wu of Chang Gung University (Update 2024/11/07)

SCI Journal Paper

2024

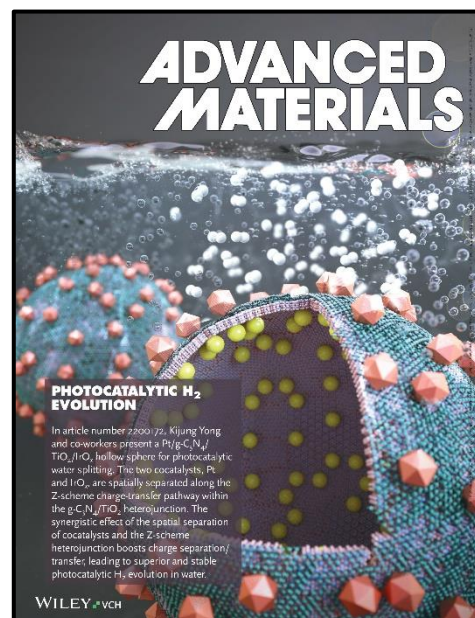
1. Jia-Mao Chang, Ting-Han Lin, Kai-Chi Hsiao, Kuo-Ping Chiang, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Gas-Solid Phase Reaction Derived Silver Bismuth Iodide Rudorffite: Structural Insight and Exploring Photocatalytic Potential of CO₂ Reduction", **2024, *Advanced Science***, 11, 2309526. (▲:0; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
2. 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)
3. 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. (▲:0; SCI; IF:3.1 at 2023; Ranking:25/91=27.5% in Metallurgy & Metallurgical Engineering)
4. 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***, 2024, 2402392. (▲:0; SCI; IF:18.5 at 2023; Ranking:9/231=3.9% in Chemistry, Multidisciplinary)
5. 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. (▲:8; SCI; IF:16.1 at 2023; Ranking:11/231=4.8% in Chemistry, Multidisciplinary)
6. 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***, 2024, 202311040. (▲:0; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
7. 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)
8. 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)

9. 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)
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13. 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)
14. 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)
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19. 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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21. 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)
22. 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)
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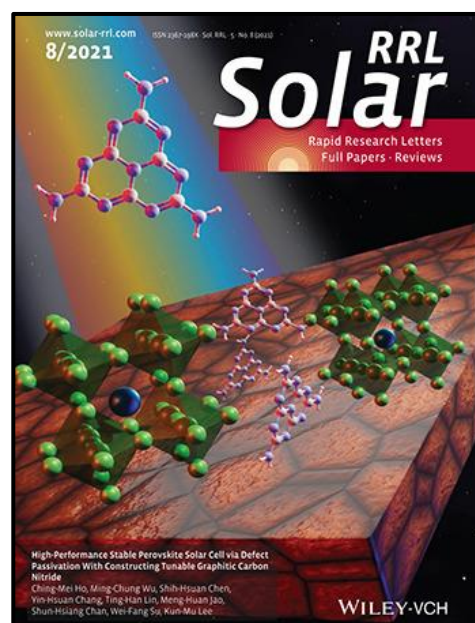
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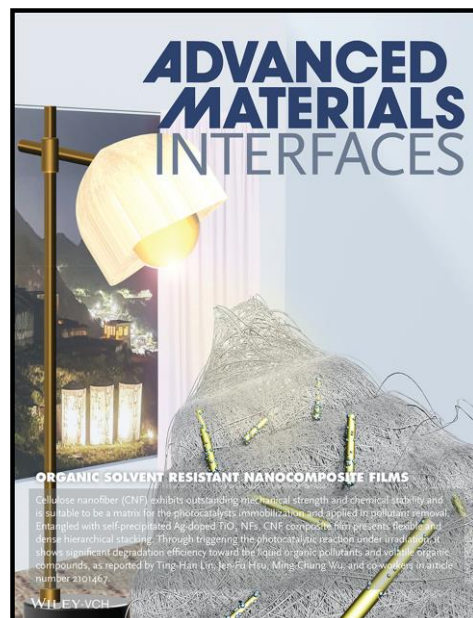
27. Tzu-Yi Yu, Yu-Kai Tseng, Ting-Han Lin, Tzu-Chia Wang, Yun-Hsiu Tseng, Yin-Hsuan Chang, [Ming-Chung Wu*](#), and Wei-Fang Su*, "Effect of Cellulose Compositions and Fabrication Methods on Mechanical Properties of Polyurethane-Cellulose Composites", **2022**, *Carbohydrate Polymers*, 291, 119549. (▲:9; SCI; IF:10.7 at 2023; Ranking:1/94=1.1% in Polymer Science)
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29. 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)
30. 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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33. 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!!)
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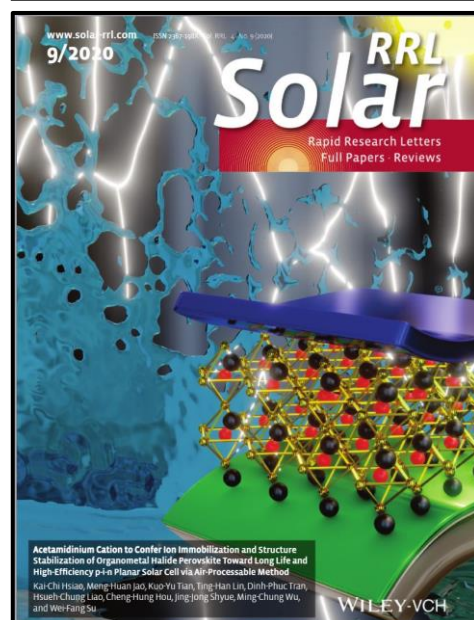
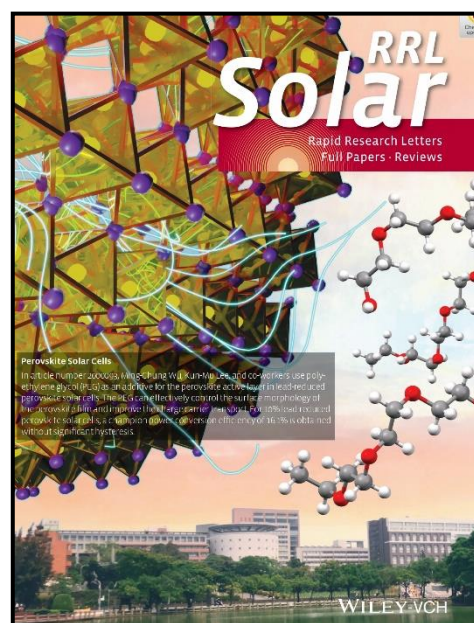
35. Ting-Han Lin, Yu-Han Liao, Kun-Mu Lee, Yin-Hsuan Chang, Kai-Hsiang Hsu, Jen-Fu Hsu*, and [Ming-Chung Wu*](#), "Organic Solvent Resistant Nanocomposite Films Made from Self-Precipitated Ag/TiO₂ Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021, *Advanced 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*!!)**
36. 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)
37. [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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39. 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)
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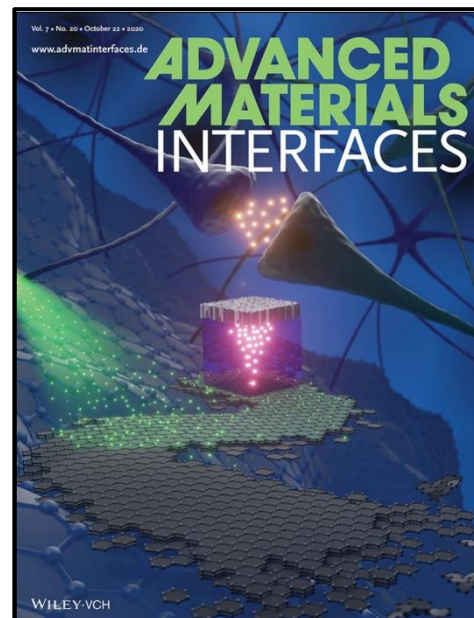
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50. Kai-Chi Hsiao, Meng-Huan Jao, Kuo-Yu Tian, Ting-Han Lin, Dinh-Phuc Tran, Hsueh-Chung Liao, Cheng-Hung Hou, Jing-Jong Shyue, [Ming-Chung Wu](#), and Wei-Fang Su*, "Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of 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!!)**
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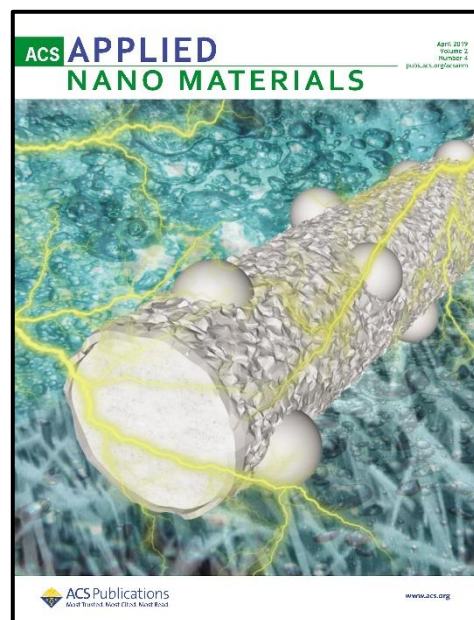
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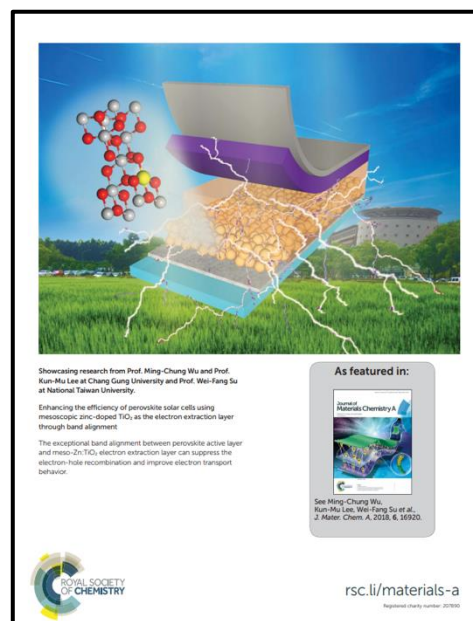
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