# Prof. Yu-Ching Huang of Ming Chi University of Technology (Update 2026/01/14)

## ■ SCI Journal Paper

### 2026-

1. Yu-Hung Hsiao, Lan-Sheng Yang, Shih-Han Huang, Hou-Chin Cha, Wen-Ting Li, Sheng-Long Jeng, Yu-Chiang Chao*, and Yu-Ching Huang*, "Chiral Ligand-Assisted Interface Modulation for Reduced Voltage Loss in Perovskite Solar Cells", **2026, *Solar Energy***, 305, 114276. (▲**:0**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

2. Yin-Hsuan Chang†, Ming-Chung Wu†*, Ting-Han Lin, Jia-Mao Chang, Yu-Ching Huang*, and Jer-Chyi Wang*, "Self-Precipitated Metal-Doped Titanate Nanofiber Substrates for Surface-Enhanced Raman Scattering of Organic Analytes", **2026, *Journal of the Taiwan Institute of Chemical Engineers***, 178, 106396. (▲**:0**; SCI; **IF:6.3** at 2024; Ranking:31/175=17.7% in Engineering, Chemical)

3. Zhi-Hao Huang, Hou-Chin Cha, Kun-Mu Lee*, and Yu-Ching Huang*, "Broadband, Low-Noise and Fast Short-Wave Infrared Photodetection Enabled by Thermally Robust All-Polymer Organic Photodetectors", **2026**, ***Next Materials***, 10, 101451. (▲**:0**)

### 2025-

4. Ming-Chung Wu*, Kai-Chi Hsiao, Chuliang Fu, Ting-Han Lin, Yin-Hsuan Chang, Yu-Ching Huang, Mu-Ping Nieh, Wei-Fang Su, and Mingda Li*, "Giant, Non-Perturbative Tuning of Light-Matter Interaction of Embedded Quantum Dots in Semiconducting Matrices", **2025**, ***Advanced Composites and Hybrid Materials***, 8, 281. (▲**:0**; SCI; **IF:21.8** at 2024; Ranking:1/34=2.9% in Materials Science, Composites)

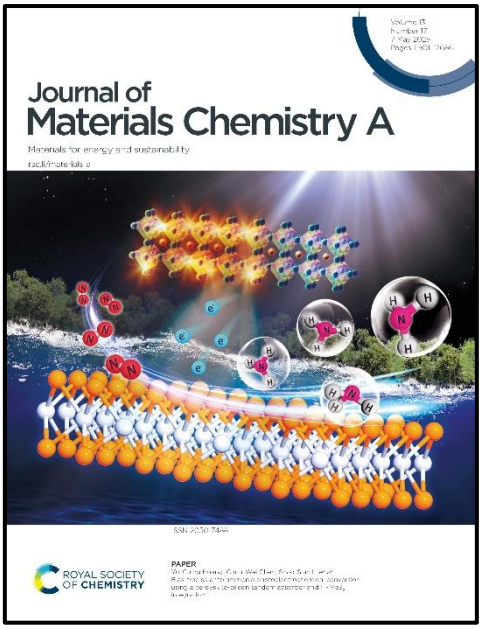
5. Yu-Ching Huang*, Sheng-Wen Huang, Chia-Feng Li, Shih-Han Huang, Feng-Yu Tsai, and Wei-Fang Su, "A Comprehensive Optimization of Highly Efficient MA-Free Wide-Bandgap Perovskites for 4-T Perovskite/Silicon Tandem Solar Cells", **2025**, ***Chemical Engineering Journal***, 503, 158272. (▲**:1**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

6. Chia-Feng Li, Shih-Han Huang, You-Ren Chen, Hou-Chin Cha, Ssu-Yung Chung, Yu-Hung Hsiao, Feng-Yu Tsai*, and Yu-Ching Huang*, "Sequential Slot-Die Coating of Perovskite Solar Cell Modules Under Ambient Conditions with Precise Phase-Transition Control", **2025**, ***Chemical Engineering Journal***, 517, 164194. (▲**:0**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

7. Li-Chen Su*, Xin-Hui Wang, Chun-Jen Shih, Zhi-Hao Huang, Ying-Feng Chang, Chen-Kai Chang, Chi-Yun Wang, Yu-Ching Huang*, and Shun-Wei Liu*, "Unleashing Instant On-Site Naked-Eye Detection by a Portable NIR-SPR Platform with Organic Upconversion", **2025**, ***Chemical Engineering Journal***, 525, 170464. (▲**:0**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

8. Jiawen Cong, Zhi-Hao Huang, Shun-Wei Liu, Zhenghui Luo*, Fu-Zong Liu, Zhanxiang Chen, Kun-Mu Lee, Yu-Ching Huang*, and Chuluo Yang*, "Efficient SWIR Organic Photodetectors with Spectral Detection Extending to 1.4 µm Using a Benzobisthiadiazole-Based Acceptor", **2025**, ***Small***, 21, 2410418. (▲**:2**; SCI; **IF:12.1** at 2024; Ranking:14/187=7.5% in Physics, Applied)

9. Yu-Sheng Hsiao*, Jen-Hsien Huang, Hong-Yu Lin, Jui-Hsiung Huang, Lin-Yang Weng, Ta-Hung Cheng, Wei Kong Pan, Shih-Chieh Hsu*, Huei Chu Weng*, and Yu-Ching Huang*, "Recovery of $V_2O_5$ from Spent Catalysts and Its Application in Vanadium Electrolytes for Vanadium Redox Flow Batteries", **2025**, ***Journal of Energy Storage***, 116, 115990. (▲**:1**; SCI; **IF:9.8** at 2024; Ranking:26/182=14.3% in Energy & Fuels)




**10.** Tsung-Hsin Liu, Yu-Hsiang Huang, Yu-Xuan Huang, Yang-Sheng Lu, Tsung-Min Tsai, Chen Chang, e Pai-Chia Kuo, Jessie Shiue, Yu-Ching Huang*, Chun-Wei Chen*, Chia-Chun Chen, and Shao-Sian Li*, "Bias-Free Solar to Ammonia Photoelectrochemical Conversion Using a Perovskite-Silicon Tandem Absorber and 1T-$MoS_2$ Integration", **2025, *Journal of Materials Chemistry A***, 13, 12104-12112. (▲**:0**; SCI; **IF:9.5** at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary) **(Selected as a front cover of Journal of Materials Chemistry A!!)**

**11.** Nakyung Kim, Yunna Kim, Jiyoung Kwon, Gui-Min Kim, Hee Joon Jung, Jinu Park, Sukki Lee, Seoyeon Park, Doh C. Lee, Yu-Ching Huang*, and Byungha Shin*, "Improving the Performance of Vacuum-Deposited Perovskite Light-Emitting Diodes via a Tailored Sequential Deposition Strategy", **2025, *ACS Applied Materials & Interfaces***, 17, 56289-56298. (▲**:0**; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

**12.** Cheng-Yueh Chen, Hao-Cheng Lin, Pei-En Jan, Hung-Ming Chen, Yung-Tang Chuang, Chia-Feng Li, Yu-Ching Huang, and Hao-Wu Lin*, "Dual-Mode Photonic Synapse Based on a Lead-Free 2D Ruddlesden-Popper Perovskite for Neuromorphic Vision", **2025, *ACS Applied Materials & Interfaces***, 17, 48547-48554. (▲**:0**; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

**13.** Chin-Wei Lin, Jing-Han Huang, Po-Han Lin, Ting-Bin Chen, Li-Min Wang, Yu-Ching Huang*, and Kuen-Lin Chen*, "Ultrasensitive MiRNA-135a-5p Biochip for Early Alzheimer's Disease Detection Utilizing Magneto-Optical Faraday Effect and Magnetoplasmonic Nanoparticles", **2025**, ***Sensors and Actuators B: Chemical***, 427, 137134. (▲**:0**; SCI; **IF:7.7** at 2024; Ranking:2/79=2.5% in Instruments & Instrumentation)

**14.** Yu-Sheng Hsiao*, Jen-Hsien Huang, Shih-An Liu, Jui-Hsiung Huang, Lin-Yang Weng, Sheng-Wei Liao, Chih-Wei Hu, Wei Kong Pang, Shih-Chieh Hsu*, Huei Chu Weng*, and Yu-Ching Huang*, "Designing Core-Shell $LiNi_{0.5}Mn_{1.5}O_4$-Based Cathode Materials with Enhanced Rate Capability and Improved Cycling Stability", **2025**, ***Applied Surface Science***, 684, 161892. (▲**:0**; SCI; **IF:6.9** at 2024; Ranking:3/23=13.0% in Materials Science, Coatings & Films)

**15.** Hou-Chin Cha, Ssu-Yung Chung, Shih-Han Huang, Chia-Feng Li, Shun-Wei Liu*, and Yu-Ching Huang*, "Mechanism-Guided Design and Process Optimization of a Roll-to-Sheet Coating System for Flexible Perovskite Solar Cells", **2025, *Solar Energy***, 301, 113933. (▲**:0**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

**16.** Yu-Sheng Hsiao*, Hsueh-Sheng Tseng, Lin-Yang Weng, Sheng-Wei Liao, Jen-Hsien Huang, Wei Kong Pang, Shih-Chieh Hsu*, Huei Chu Weng*, and Yu-Ching Huang*, "Interfacial Nanoarchitectonics of $SiO_x$ via CVD Carbon Coating and Vapor-Phase Polymerized PEDOT for Enhanced Lithium-Ion Battery Anode Performance", **2025**, ***Journal of the Taiwan Institute of Chemical Engineers***, 173, 106148. (▲**:0**; SCI; **IF:6.3** at 2024; Ranking:31/175=17.7% in Engineering, Chemical)

**17.** Pradeep Kumar†, Zu-Yin Deng†, Yu-Ching Huang, Jui-Yang Chang, Chin-Ya Chiou, Bal Chandra Yadav, Hephsiba Kochupappy Siju, Chiu-Hsien Wu, and Kuen-Lin Chen*, "Synergistic Effects of Au/Ag-Modified $Fe_3O_4$@$MoS_2$ Nanocomposites in Photocatalytic Methylene Blue Degradation Under Green Light", **2025**, ***Surfaces and Interfaces***, 72, 107059. (▲**:0**; SCI; **IF:6.3** at 2024; Ranking:4/23=17.4% in Materials Science, Coatings & Films)

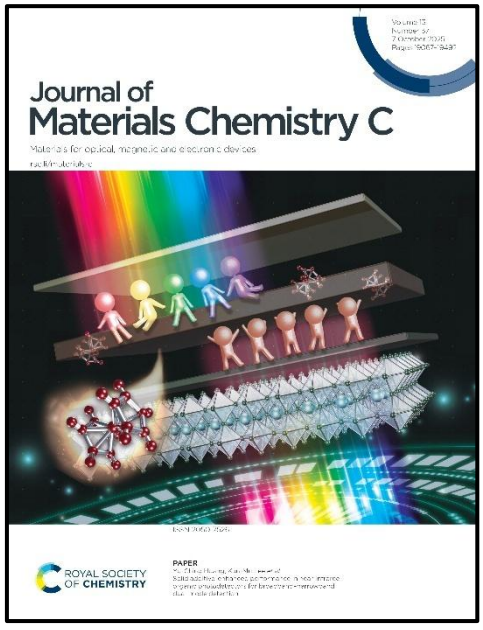
**18.** Zhi-Hao Huang, You-Ren Chen, Hou-Chin Cha, Sheng-Long Jeng, Kun-Mu Lee*, and Yu-Ching Huang*, "Mechanistic Insights into Additive-Driven Dark Current and Responsivity in Organic Photodetector with Varied Film Thickness", **2025**, ***Surface and Coatings Technology***, 515, 132701. (▲**:0**; SCI; **IF:6.1** at 2024; Ranking:5/23=21.7% in Materials Science, Coatings & Films)

**19.** 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:6.0** at 2024; Ranking:24/124=19.4% in Engineering, Biomedical)

**20.** Dun-Heng Tan, Chun-Yu Chang*, Yu-Ching Huang*, Meng-Fang Lin, and Wei-Fang Su*, "Biomimicking Extracellular Matrix Fabricated from Alginate-Polypeptide Hydrogel with Aligned Fibrous Structure", **2025**, ***Colloids and Surfaces A: Physicochemical and Engineering Aspects***, 727, 138120. (▲**:0**; SCI; **IF:5.4** at 2024; Ranking:61/185=33.0% in Chemistry, Physical)


**21.** 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:5.3** at 2024; Ranking:42/175=24.0% in Engineering, Chemical) **(Selected as a supplementary cover of Energy & Fuels!!)**

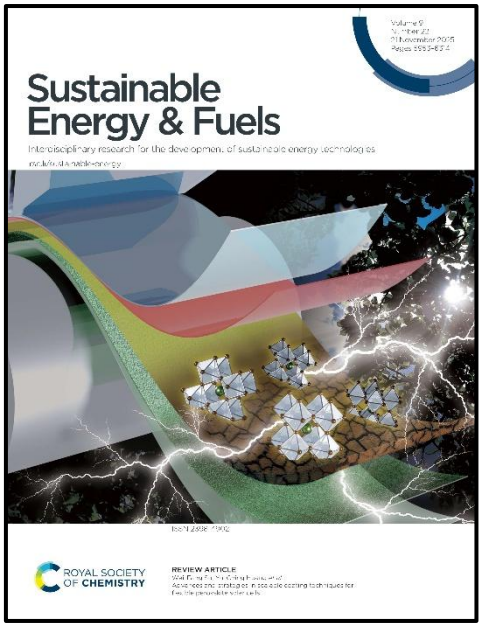
**22.** Yu-Ching Huang*, Zhi-Hao Huang, Bo-Chen Chen, Hou-Chin Cha, and Kun-Mu Lee*, "Solid Additive-Enhanced Performance in Near-Infrared Organic Photodetectors for Broadband-Narrowband Dual-Mode Detection", **2025**, ***Journal of Materials Chemistry C***, 13, 19174-19182. (▲**:0**; SCI; **IF:5.1** at 2024; Ranking:45/187=24.1% in Physics, Applied) **(Selected as a front cover of Journal of Materials Chemistry C!!)**




**23.** Chia-Yuan Chen*, Yu-Fan Chang, Yen-Chen Shih, Ying-Chuan Liu, Chi-Feng Chiu, Rahma Rahayu Dinarlita, Tsung-Yu Tsai, Chieh-Ming Hung, Hou-Chin Cha, You-Ren Chen, Zhi-Hao Huang, Yu-Cheng Zhang, Hui-Chieh Lin, Wei-Chen Chu, Wei-Hao Chiu, Sie-Rong Li, Ting-Jui Chang, Yi-Hong Liao, Siti Utari Rahayu, Bo-Yu Han, Yun-Tou Lin, Pei-Ling Wang, Zi-Ting Liao, Jhao-Yun Tsai, Zhong-En Shi, Chia-Tse Hsu, Po-Shun Hsu, Po-Yuan Chen, Jia-Zhen Li, Anjali Thakran, Yu-Ting Chen, Yu-Sheng Li, Hao-Wei Yu, Chu-Chen Chueh*, Tzung-Fang Guo*, Chih-Wei Chu*, Leeyih Wang*, Kuo-Chuan Ho*, Fang-Chung Chen*, Chih-Ping Chen*, Yian Tai*, Chun-Ting Li*, Ming-Way Lee*, Chih-Liang Wang*, Shih-Sheng Sun*, Kun-Mu Lee*, Zong-Liang Tseng*, Yu-Ching Huang*, Pi-Tai Chou*, Chung-Wen Ko*, and Chun-Guey Wu*, "Round-Robin Interlaboratory Comparison of Large-Area Organic Thin-Film and Perovskite Solar Cells", **2025**, ***Solar RRL***, e202500538. (▲**:0**; SCI; **IF:4.7** at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)

**24.** Aditi Kumar, Bo-Han Chen*, Chao-Yang Lin, Nikita A. Shumilov, Nikita A. Shumilov, Yu-Chiang Chao, Li-Kang Chu, Chia-Feng Li, Yu-Ching Huang, Shang-Da Yang, Michael B. Price, Paul A. Hume*, Justin M. Hodgkiss*, and Kai Chen*, "Ultrafast Transient Electroabsorption Illuminates Additive Effects for Enhancing Non-fullerene Photovoltaic Devices", ***2025***, ***Journal of Physical Chemistry Letters***, 16, 10703-10711. (▲**:0**; SCI; **IF:4.6** at 2024; Ranking:7/39=18.0% in Physics, Atomic, Molecular & Chemical)

**25.** Hou-Chin Cha, Shih-Han Huang, Chia-Feng Li, Feng-Yu Tsai, Wei-Fang Su*, and Yu-Ching Huang*, "Advances and Strategies in Scalable Coating Techniques for Flexible Perovskite Solar Cells", ***2025***, ***Sustainable Energy & Fuels***, 9, 5962-6006. (▲**:0**; SCI; **IF:4.1** at 2024; Ranking:186/461=40.3% in Materials Science, Multidisciplinary) **(Selected as a front cover of Sustainable Energy & Fuels!!)**




**26.** Shih-Han Huang, Chien-Te Tsou, Yu-Hung Hsiao, Chia-Feng Li, You-Ren Chen, Wei-Fang Su*, and Yu-Ching Huang*, "High-Efficiency Perovskite Solar Cell with an Air-Processable Active Layer via Sequential Deposition", **2025**, ***Materials and Sustainability***, 1, 3. (▲**:0**)

**2024-**

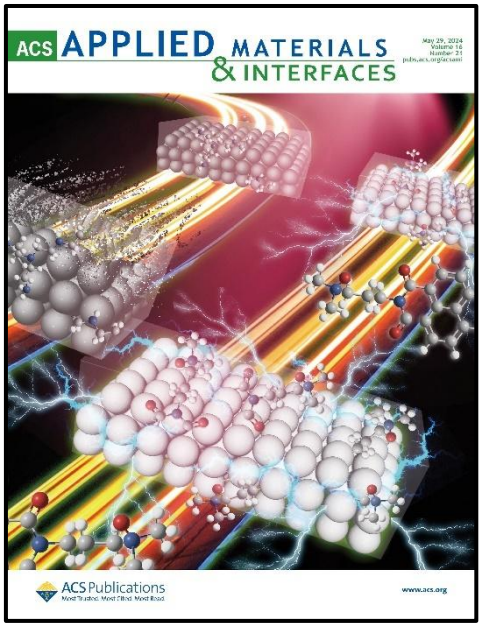
**27.** Yu-Sheng Hsiao, Chao-Yuan Lin, Lin-Yang Weng, Chun-Han Hsu, Ta-Hung Cheng, Jen-Hsien Huang, Nian-Jheng Wu, Wei Kong Pang, Shih-Chieh Hsu*, Huei Chu Weng*, and Yu-Ching Huang*, "In-Situ Synthesis of NbC Nanoparticle-Decorated Polyimide-Derived graphene for Enhanced Thermal Management", **2024**, ***Chemical Engineering Journal***, 483, 149007. (▲**:4**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

**28.** Yu-Sheng Hsiao, Jen-Hsien Huang, Lin-Yang Weng, Ta-Hung Cheng, Han-Hsin Chiang, Cheng-Zhang Lu, Huei-Chu Weng*, Lars Thomsen, Bruce Cowie, Wei-Kong Pang*, and Yu-Ching Huang*, "Advancing $Li_3VO_4$ as A High-Performance Anode Material for Use in Lithium-Ion Batteries and Lithium-Ion Capacitors", **2024**, ***Chemical Engineering Journal***, 489, 150973. (▲**:9**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

**29.** Jinu Park, Hyunjin Cho, Joonyun Kim, Yu-Ching Huang, Nakyung Kim, Seoyeon Park, Yunna Kim, Sukki Lee, Jiyoung Kwon, Doh C. Lee*, and Byungha Shin*, "Efficient and Spectrally Stable Pure Blue Light-Emitting Diodes Enabled by Phosphonate Passivated $CsPbBr_3$ Nanoplatelets with Conjugated Polyelectrolyte-Based Energy Transfer Layer", **2024**, ***EcoMat***, 6, e12487. (▲**:0**; SCI; **IF:12.6** at 2024; Ranking:7/102=6.9% in Green & Sustainable science & Technology)

**30.** Chin-Wei Lin, Li-Yu Chen, Yu-Ching Huang, Pradeep Kumar, Yu-Zhi Guo, Chiu-Hsien Wu, Li-Min Wang, and Kuen-Lin Chen*, "Improving Sensitivity and Reproducibility of Surface-Enhanced Raman Scattering Biochips Utilizing Magnetoplasmonic Nanoparticles and Statistical Methods", **2024**, ***ACS Sensors***, 9, 305-314. (▲**:7**; SCI; **IF:9.1** at 2024; Ranking:4/111=3.6% in Chemistry, Analytical)

**31.** Pradeep Kumar, Zu-Yin Deng, Po-Yu Tsai, Chin-Ya Chiu, Chin-Wei Lin, Priyanka Chaudhary, Yu-Ching Huang*, and Kuen-Lin Chen*, "Enhanced Visible-Light Photocatalytic Activity of $Fe_3O_4$@$MoS_2$@Au Nanocomposites for Methylene Blue Degradation through Plasmon-Induced Charge Transfer", **2024**, ***Separation and Purification Technology***, 342, 126988. (▲**:8**; SCI; **IF:9.0** at 2024; Ranking:16/175=9.1% in Engineering, Chemical)




**32.** Yu-Ching Huang*, Tai-Yuan Wang, Zhi-Hao Huang, and Svette Reina Merden Solante Santiago, "Advancing Detectivity and Stability of Near-Infrared Organic Photodetectors via a Facile and Efficient Cathode Interlayer", **2024, *ACS Applied Materials & Interfaces***, 16, 27576-27586. (▲**:11**; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary) **(Selected as a supplementary cover of ACS Applied Materials & Interfaces!!)**

**33.** Yu-Ching Huang†, Sheng-Fan Wang†, Bo-Cheng Chen, Zih-Syuan Yang, Meng-Chi Li, Xun-Ying Wu, Meng-Jey Youh, Hui-Yun Chou, Yu-Xen Lin, Wanchai Assavalapsakul†, Arunee Thitithanyanont, and Li-Chen Su, "Towards Cost-Effective and Lightweight Surface Plasmon Resonance Biosensing for H5N1 Avian Influenza Virus Detection: Integration of Novel Near-Infrared Organic Photodetectors", **2024**, ***Sensors and Actuators B: Chemical***, 400, 134898. (▲**:10**; SCI; **IF:7.7** at 2024; Ranking:2/79=2.5% in Instruments & Instrumentation)

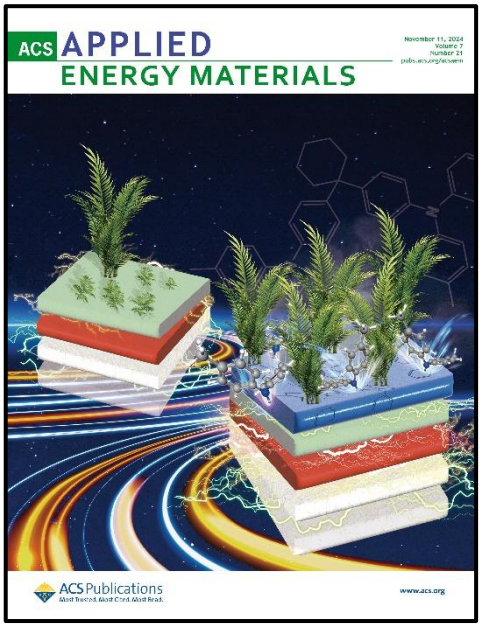
**34.** Chun-Jen Shih, Yi-Sheng Chen, Dian Luo, Chang-Wei Yu, Kuan-Hung Chen, Galing Murokinas, Yu-Chen Huang, Chia-Feng Li, Yu-Ching Huang*, and Shun-Wei Liu*, "Exploring Buried Interface in All-Vapor-Deposited Perovskite Photovoltaics", **2024,** ***Solar Energy***, 280, 112872. (▲**:2**; SCI; **IF:6.6** at 2024; Ranking:51/182=28.0% in Energy & Fuels)

**35.** Kai-Leng Huang, Chia-Feng Li, Yu-Chi Chen, Sheng-Wen Huang, Yu-Ching Huang, Wei-Fang Su, and Feng-Yu Tsai*, "Effects of Hydrazine compounds as Additives on The Characteristics of Organic-Inorganic Hybrid Lead-Tin Perovskite Photovoltaic Device", **2024**, ***Journal of Alloys and Compounds***, 1004, 175832. (▲**:0**; SCI; **IF:6.3** at 2024; Ranking:11/96=11.5% in Metallurgy & Metallurgical Engineering)

**36.** Chieh-Ming Tsai, Chia-Feng Li, Yu-Ching Huang, Feng-Yu Tsai, and Wei-Fang Su*, "Transparent Low Moisture Permeable Coating for Perovskite Solar Cell Encapsulation", **2024**, ***Surface and Coatings Technology***, 482, 130695. (▲**:1**; SCI; **IF:6.1** at 2024; Ranking:5/23=21.7% in Materials Science, Coatings & Films)

**37.** Yu-Sheng Hsiao, Jen-Hsien Huang, Hong-Yu Lin, Wei-Kong Pang, Min-Tzu Hung, Ta-Hung Cheng, Shih-Chieh Hsu*, Huei Chu Weng*, and Yu-Ching Huang*, "Surface-Modified Graphite Felt Incorporating Synergistic Effects of $TiO_2$ Decoration, Nitrogen Doping, and Porous Structure for High-Performance Vanadium Redox Flow Batteries", **2024**, ***Surface and Coatings Technology***, 484, 130785. (▲**:3**; SCI; **IF:6.1** at 2024; Ranking:5/23=21.7% in Materials Science, Coatings & Films)

**38.** Chia-Feng Li, Shih-Han Cheng, Hou-Chin Cha, Ssu-Yung Chung, Damian Glowienka, Chih-Min Chuang, and Yu-Ching Huang*, "Tailoring the Transport Layer Interface for Relative Indoor and Outdoor Photovoltaic Performance", **2024**, ***ACS Applied Energy Materials***, 7, 10203-10211. (▲**:1**; SCI; **IF:5.5** at 2024; Ranking:135/460=29.3% in Materials Science, Multidisciplinary) **(Selected as a supplementary cover of ACS Applied Energy Materials!!)**




**39.** Minh Nhat Pham, Chun-Jen Su, Yu-Ching Huang, Kun-Ta Lin, Ting-Yu Huang, Yu-Ying Lai, Chen-An Wang, Yong-Kang Liaw, Ting-Han Lin, Keng-Cheng Wan, Cheng-Tai He, Yu-Han Huang, Yong-Ping Yang, Hsuan-Yen Wei, U-Ser Jeng, Jrjeng Ruan, Chan Luo, Ye Huang, Guillermo C. Bazan, and Ben B. Y. Hsu*, "Forming Long-Range Order of Semiconducting Polymers through Liquid-Phase Directional Molecular Assemblies", **2024**, ***Macromolecules***, 57, 3544-3556. (▲**:2**; SCI; **IF:5.2** at 2024; Ranking:15/94=16.0% in Polymer, Science)

**40.** Hou-Chin Cha, Chia-Feng Li, Tsui-Yun Chung, Wei-Yang Ma, Cheng-Si Tsao*, and Yu-Ching Huang*, "Spray-Coated $MoO_3$ Hole Transport Layer for Inverted Organic Photovoltaics", **2024**, ***Polymers***, 16, 981. (▲**:3**; SCI; **IF:4.9** at 2024; Ranking:19/94=20.2% in Polymer Science)

**41.** Tsui-Yun Chung, Hou-Chin Cha*, Chih-Min Chuang, Cheng-Si Tsao, Damian Glowienka, Yi-Han Wang, Hui-Chun Wu, and Yu-Ching Huang*, "Developing Screen-Printing Processes for Silver Electrodes Towards All-Solution Coating Processes for Solar Cells", **2024**, ***Polymers***, 16, 3012. (▲**:0**; SCI; **IF:4.9** at 2024; Ranking:19/94=20.2% in Polymer Science)

**42.** Yu-Ching Huang*, Chih-Chien Lee, Yung-Yuan Lee, Ssu-yung Chung, Hui-Chieh Lin, Uma Kasimayan*, Chia-Feng Li, and Shun-Wei Liu*, "High-Efficiency ITO-Free Organic Solar Cells Through Top Illumination", **2024**, ***Materials Advances***, 5, 2411-2419. (▲**:2**; SCI; **IF:4.7** at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)

**43.** 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. (▲**:1**; SCI; **IF:4.7** at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)

**44.** Pradeep Kumar†, Shih-Han Huang†, Chia-Yi Hsu, Ssu-Yung Chung, Hou-Chin Cha, Chih-Min Chuang, Kuen-Lin Chen*, and Yu-Ching Huang*, "Enhancing Power Conversion Efficiency of Organic Solar Cells with Magnetoplasmonic $Fe_3O_4$@Au@m-ABS Nanoparticles", **2024**, ***Nanomaterials***, 14, 1175. (▲**:4**; SCI; **IF:4.3** at 2024; Ranking:57/187=30.5% in Physics, Applied)

**45.** 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. (▲**:3**; SCI; **IF:4.2** at 2024; Ranking:1/41=2.4% in Nuclear Science & Technology)

**46.** Priyanka Chaudhary, Arpit Verma, Sandeep Chaudhary, Mahesh Kumar, Meng-Fang Lin*, Yu-Ching Huang*, Kuen-Lin Chen, and Bal Chandra Yadav*, "Design of a Humidity Sensor for a PPE Kit Using a Flexible Paper Substrate", **2024**, ***Langmuir***, 40, 9602-9612. (▲**:5**; SCI; **IF:3.9** at 2024; Ranking:88/239=36.8% in Chemistry, Multidisciplinary)

**2023-**

**47.** Po-Ting Lai, Cheng-Yueh Chen, Hao-Cheng Lin, Bo-Yuan Chuang, Kai-Hua Kuo, Christopher R. Greve, Tsung-Kai Su, Guang-Hsun Tan, Chia-Feng Li, Sheng-Wen Huang, Kai-Yuan Hsiao, Eva M. Herzig, Ming-Yen Lu, Yu-Ching Huang, Ken-Tsung Wong*, and Hao-Wu Lin*, "Harnessing 2D Ruddlesden-Popper Perovskite with Polar Organic Cation for Ultrasensitive Multibit Nonvolatile Transistor-Type Photomemristors", **2023**, ***ACS Nano***, 17, 25552-25564. (▲**:8**; SCI; **IF:16.0** at 2024; Ranking:28/460=6.1% in Materials Science, Multidisciplinary)

**48.** Yu-Ching Huang*, Zhi-Hao Huang, Tai-Yung Wang, Priyanka Chaudhary, Jen-Fu Hsu, and Kun-Mu Lee*, "A Promising Non-Fullerene Acceptor for Near-Infrared Organic Photodetectors Operating with Low Dark Current and High Response Speed", **2023**, ***Chemical Engineering Journal***, 464, 142633. (▲**:18**; SCI; **IF:13.2** at 2024; Ranking:3/83=3.6% in Engineering, Environmental)

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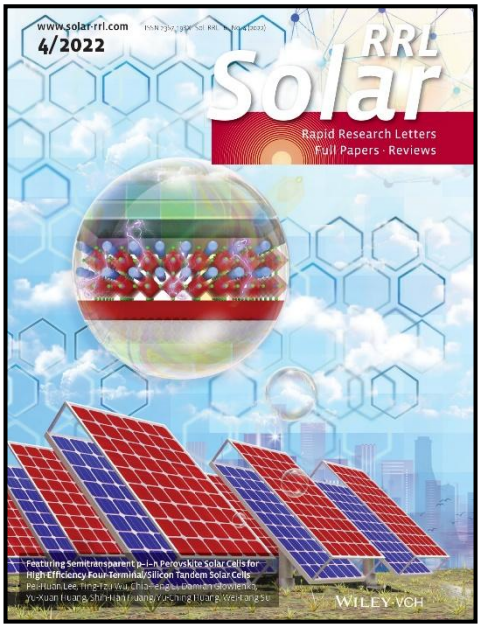


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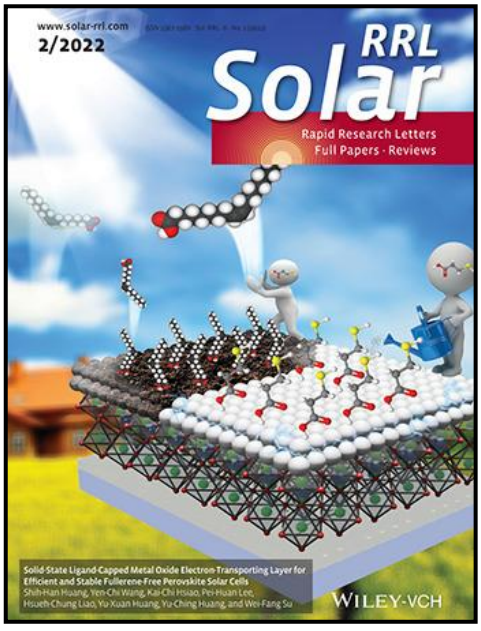


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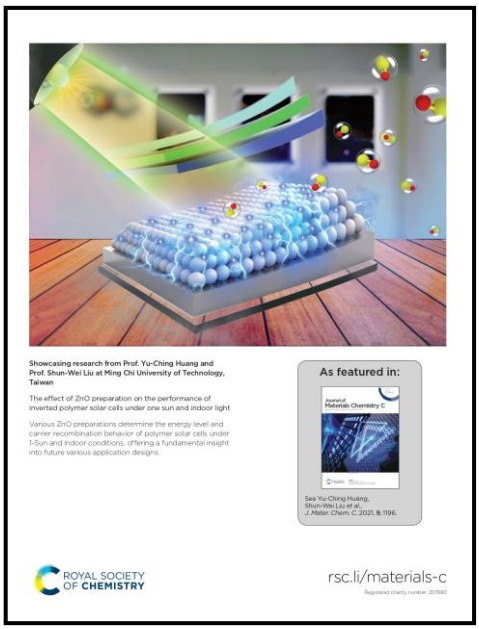


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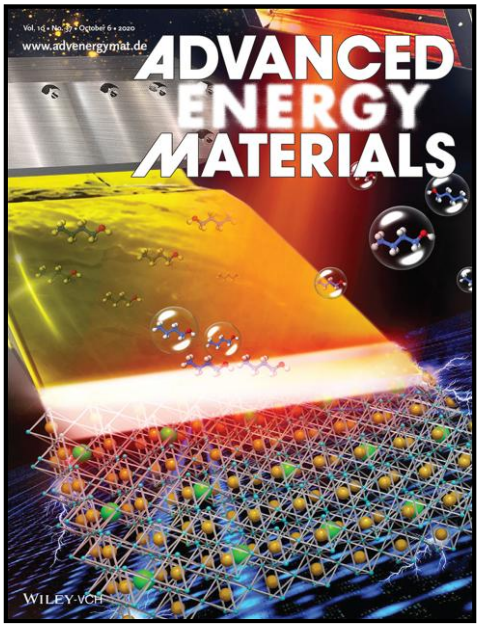


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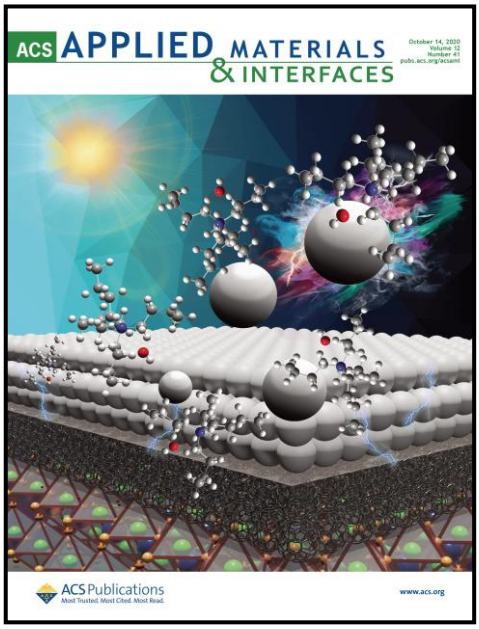


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## ■ Non-SCI Journal Paper Publications

**1.** 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 Nanopattterned $La_{0.7}Sr_{0.3}MnO_3$ Arrays: Synthesis, Fabrication, and Properties", **2010,** ***Proceeding of SPIE***, 7603, 76031H, 1-12. (▲**:1**; EI; Invited Paper)

## ■ Domestic Journal Paper Publications

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**1.** Yu-Ching Huang, Yu-Chia Liao, Jhi-Hung Hsu, Tsung-Han Lin, Ming-Chung Wu, and Wei-Fang Su, "Applications of Scanning Near-Field Microscope and Confocal Raman Spectrum on Photovoltaic Devices", **2008**, **科儀新知**, **29**, 5, 46-52. **(Invited Paper)**

**2007-**

**2.** Ming-Chung Wu, Yu-Ching Huang, Hsueh-Chung Liao, Tze-Hsuan Chang, Jean-Fu Kiang, and Wei-Fang Su, "Silver Cofirability Behavior of Zn-Nb Based Dielectric Ceramics and Application to Broadband Antenna", **2007**, **中華民國陶業研究學會會刊**, **26**, 1, 19-29. **(Invited Paper)**

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