

Prof. Yu-Ching Huang of Ming Chi University of Technology (Update 2026/04/10)

SCI Journal Paper

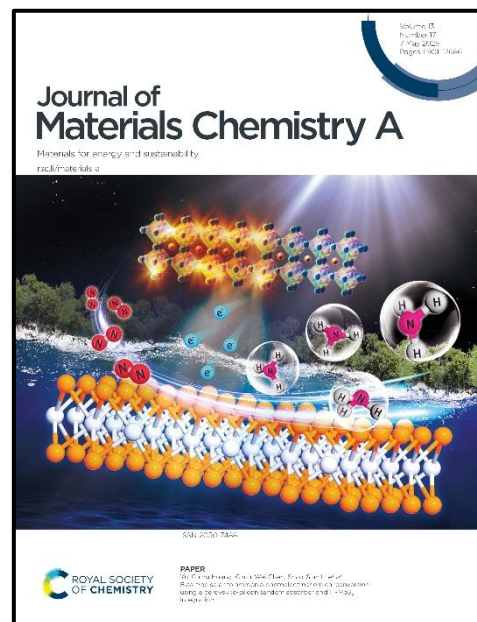
2026-

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. Yu-Ching Huang*, Zhi-Hao Huang, Hong-Yu Chen, Fu-Zong Liu, Zih-Ting Chen, Sheng-Long Jeng, and Chih-Chien Lee, "Impact of Energetic Disorder on Noise Performance in Thick-Film Photomultiplication Organic Photodetectors", **2026, *Surfaces and Interfaces***, 89, 109144. (▲:0; SCI; IF:6.3 at 2024; Ranking:4/23=17.4% in Materials Science, Coatings & Films)
3. 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)
4. Hou-Chin Cha, Shih-Han Cheng, Chia-Feng Li, Ssu-Yung Chung, Pin-Hao Zhao, Yun-Ming Sung, and Yu-Ching Huang*, "Ultrafast Processed Electron Transport Layers Enable High-Efficiency Slot-Die Coated Indoor Organic Photovoltaics", **2026, *Surface and Coatings Technology***, 520, 133025. (▲:0; SCI; IF:6.1 at 2024; Ranking:5/23=21.7% in Materials Science, Coatings & Films)
5. Pradeep Kumart†, Chia-Feng Li, Hou-Chin Cha, Yun-Ming Sung, Yu-Ching Huang*, and Kuen-Lin Chen*, "Defect Passivation and Enhanced Hole Extraction in Inverted Perovskite Solar Cells via CeO₂@MoS₂ Interfacial Engineering", **2026, *Nanomaterials***, 16, 188. (▲:0; SCI; IF:4.3 at 2024; Ranking:57/187=30.5% in Physics, Applied)
6. 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)

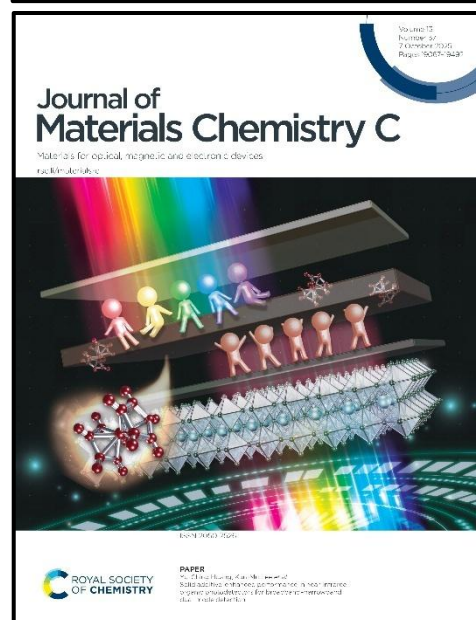
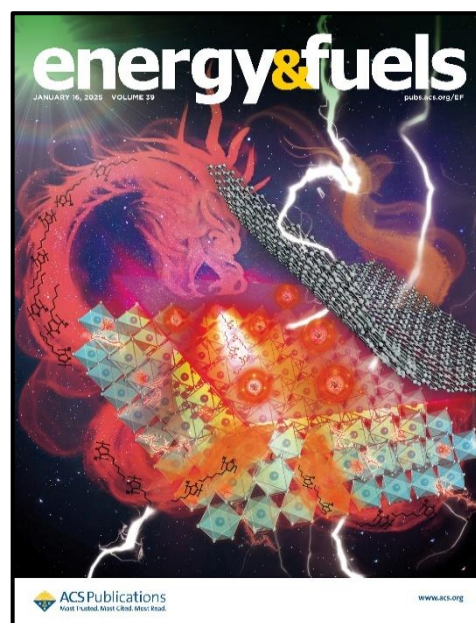
2025-

7. 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)
8. 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)
9. 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)
10. 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)

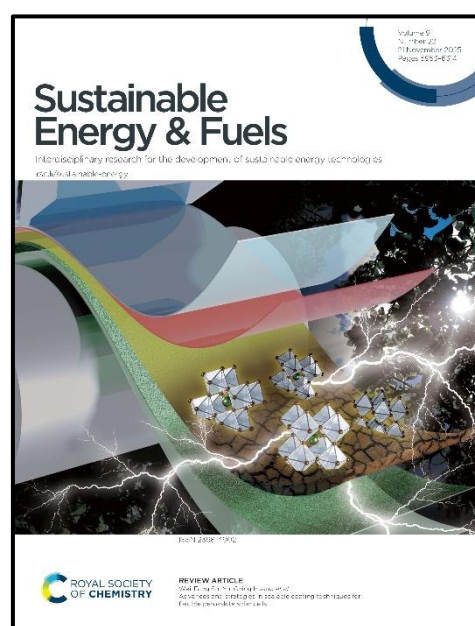
11. Jiawen Cong, Zhi-Hao Huang, Shun-Wei Liu, Zhenghui Luo*, Fu-Zong Liu, Zhanxiang Chen, Kun-Mu Lee, [Yu-Ching Huang*](#), and Chuluo Yang*, "Efficient SWIR Organic Photodetectors with Spectral Detection Extending to 1.4 μm Using a Benzobisthiadiazole-Based Acceptor", **2025, *Small***, 21, 2410418. (▲:2; SCI; IF:12.1 at 2024; Ranking:14/187=7.5% in Physics, Applied)
12. 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)
13. 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-MoS₂ 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*!!**)
14. 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)
15. 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)
16. 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)
17. 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}O₄-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)
18. 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)



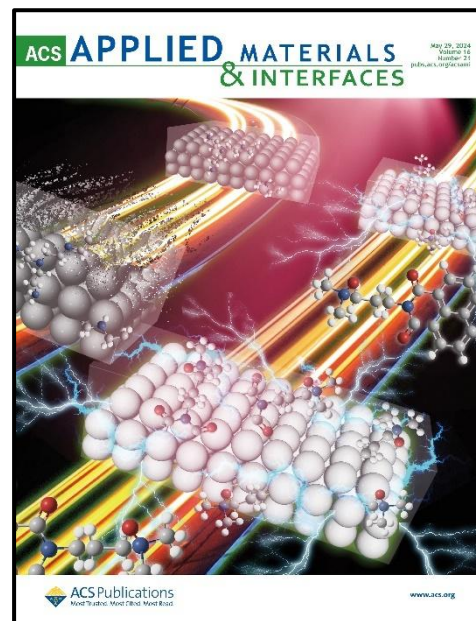
19. Yu-Sheng Hsiao*, Hsueh-Sheng Tseng, Lin-Yang Weng, Sheng-Wei Liao, Jen-Hsien Huang, Wei Kong Pang, Shih-Chieh Hsu*, Hwei Chu Weng*, and Yu-Ching Huang*, "Interfacial Nanoarchitectonics of SiO_x via CVD Carbon Coating and Vapor-Phase Polymerized PEDOT for Enhanced Lithium-Ion Battery Anode Performance", **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)
20. Pradeep Kumar†, Zu-Yin Deng†, Yu-Ching Huang, Jui-Yang Chang, Chin-Ya Chiou, Bal Chandra Yadav, Hepsiba Kochupappy Siju, Chiu-Hsien Wu, and Kuen-Lin Chen*, "Synergistic Effects of Au/Ag-Modified Fe₃O₄@MoS₂ 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)
21. 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)
22. 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)
23. 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)
24. 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!!)**
25. 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!!)**



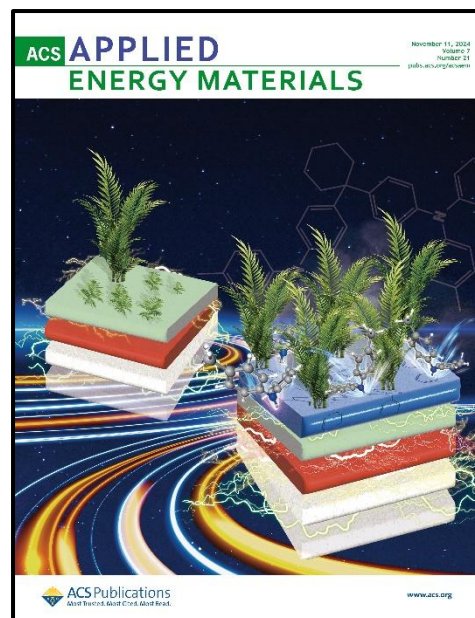
26. Chia-Yuan Chen*, Yu-Fan Chang, Yen-Chen Shih, Ying-Chuan Liu, Chi-Feng Chiu, Rahma Rahayu Dinarlita, Tsung-Yu Tsai, Chieh-Ming Hung, Hou-Chin Cha, You-Ren Chen, Zhi-Hao Huang, Yu-Cheng Zhang, Hui-Chieh Lin, Wei-Chen Chu, Wei-Hao Chiu, Sie-Rong Li, Ting-Jui Chang, Yi-Hong Liao, Siti Utari Rahayu, 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)
27. 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)
28. 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!!)**
29. 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-**
30. 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)
31. 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 Li₃VO₄ 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)
32. 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 CsPbBr₃ 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)



33. 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)
34. 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 Fe₃O₄@MoS₂@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)
35. [Yu-Ching Huang*](#), Tai-Yuan Wang, Zhi-Hao Huang, and Svetta 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!!)**
36. [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)
37. 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)
38. 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)
39. 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)
40. 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 TiO₂ 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)

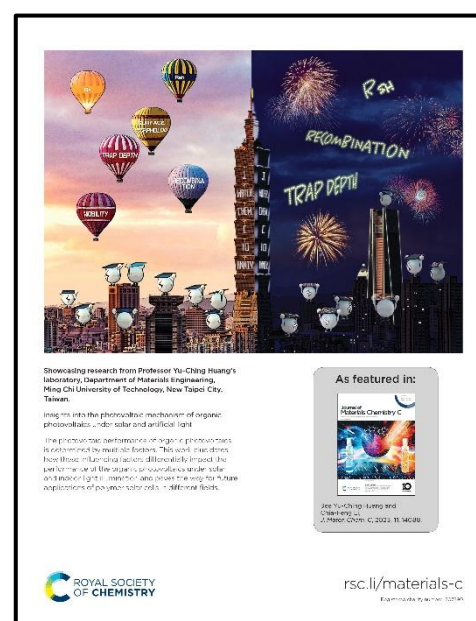


41. Chia-Feng Li, Shih-Han Cheng, Hou-Chin Cha, Ssu-Yung Chung, Damian Glowienka, Chih-Min Chuang, and Yu-Ching Huang*, "Tailoring the Transport Layer Interface for Relative Indoor and Outdoor Photovoltaic Performance", **2024, ACS Applied Energy Materials**, 7, 10203-10211. (▲:1; SCI; IF:5.5 at 2024; Ranking:135/460=29.3% in Materials Science, Multidisciplinary) (Selected as a supplementary cover of ACS Applied Energy Materials!!)
42. 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)
43. Hou-Chin Cha, Chia-Feng Li, Tsui-Yun Chung, Wei-Yang Ma, Cheng-Si Tsao*, and Yu-Ching Huang*, "Spray-Coated MoO₃ 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)
44. 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)
45. 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)
46. 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)
47. Pradeep Kumart†, 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 Fe₃O₄@Au@m-ABS Nanoparticles", **2024, Nanomaterials**, 14, 1175. (▲:4; SCI; IF:4.3 at 2024; Ranking:57/187=30.5% in Physics, Applied)
48. 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)
49. 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-

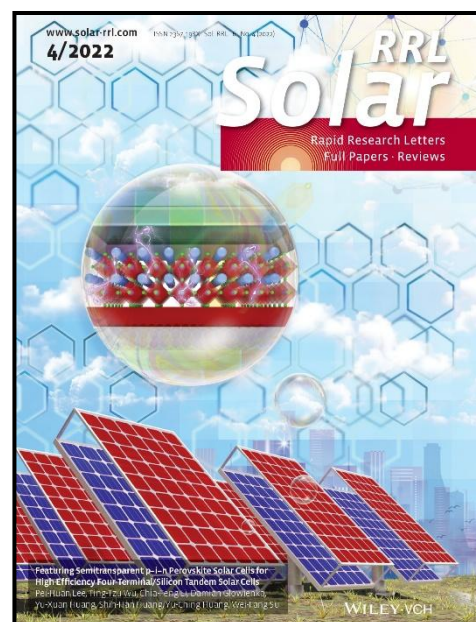
50. Po-Ting Lai, Cheng-Yueh Chen, Hao-Cheng Lin, Bo-Yuan Chuang, Kai-Hua Kuo, Christopher R. Greve, Tsung-Kai Su, Guang-Hsun Tan, Chia-Feng Li, Sheng-Wen Huang, Kai-Yuan Hsiao, Eva M. Herzig, Ming-Yen Lu, [Yu-Ching Huang](#), Ken-Tsung Wong*, and Hao-Wu Lin*, "Harnessing 2D Ruddlesden-Popper Perovskite 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)
51. [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)
52. Chun-Jen Shih, [Yu-Ching Huang](#), Tai-Yung Wang, Chang-Wei Yu, I-Sheng Hsu, Abdul Khalik Akbar, Jai-Yi Lin, Sajal Biring, Jiun-Haw Lee*, and Shun-Wei Liu*, "Transparent Organic Upconversion Devices Displaying High-Resolution, Single-Pixel, Low-Power Infrared Images Perceived by Human Vision", **2023, *Science Advances***, 9, eadd7526. (▲:26; SCI; **IF:12.5** at 2024; Ranking:12/135=8.9% in Multidisciplinary Science)
53. Nurul Ridho Al Amin, Chih-Chien Lee, Yu-Chen Huang, Chun-Jen Shih, Richie Estrada, Sajal Biring, Meng-Hsueh Kuo, Chia-Feng Li, [Yu-Ching Huang*](#), and Shun-Wei Liu*, "Achieving a Highly Stable Perovskite Photodetector with a Long Lifetime Fabricated via an All-Vacuum Deposition Process", **2023, *ACS Applied Materials & Interfaces***, 15, 21284-21295. (▲:17; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)
54. M. Mustaqeem*, S. Kamal, N. Ahmad, Pi-Tai Chou, Kung-Hsuan Lin, [Yu-Ching Huang](#), Gunag-Yu Guo, Christy Roshini Paul Inbaraj, Wei-Kuo Li, Hsuan-Chun Yao, Kuang-Lieh Lu*, and Yang-Fang Chen*, "Chiral Metal-Organic Framework Based Spin-Polarized Flexible Photodetector with Ultrahigh Sensitivity", **2023, *Materials Today Nano***, 21, 100303. (▲:16; SCI; **IF:8.2** at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)
55. Yun-Ming Sung, Cheng-Hsun-Tony Chang, Cheng-Si Tsao*, Hua-Kai Lin, Hou-Chin Cha, Pei-Cheng Jiang, Tian-Cheng Liu, Kang-Wei Chang, [Yu-Ching Huang*](#), and Jyh-Shen Tsay*, "Dramatic Improvement in The Stability and Mechanism of High-Performance Inverted Polymer Cells Featuring a Solution-Processed Buffer Layer", **2023, *Nanoscale***, 15, 3375-3386. (▲:5; SCI; **IF:5.1** at 2024; Ranking:45/187=24.1% in Physics, Applied)
56. [Yu-Ching Huang*](#), and Chia Feng Li, "Insights into the Photovoltaic Mechanism of Organic Photovoltaics Under Solar and Artificial Light", **2023, *Journal of Materials Chemistry C***, 11, 14079-14087. (▲:2; SCI; **IF:5.1** at 2024; Ranking:45/187=24.1% in Physics, Applied) **(Selected as an back cover of *Journal of Materials Chemistry C*!!)**
57. Yun-Hsiu Tseng, Tien-Li Ma, Dun-Heng Tan, An-Jey A. Su*, Kia M. Washington, Chun-Chieh Wang, [Yu-Ching Huang](#), Ming-Chung Wu*, 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 2024; Ranking:72/319=22.6% in Biochemistry & Molecular biology)



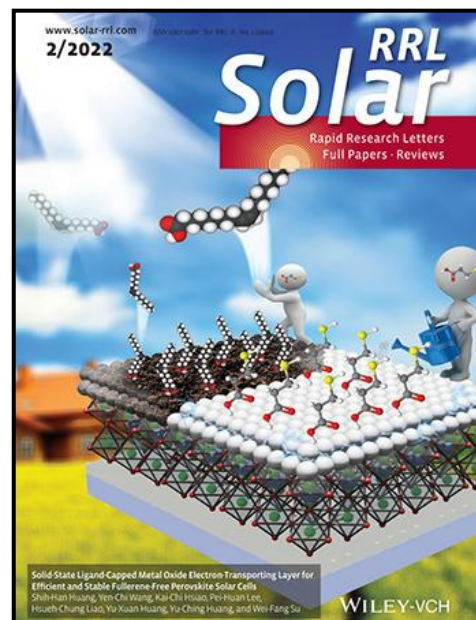
58. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, **Yu-Ching Huang***, and Ming-Chung Wu*, "Electrospun SnO₂/WO₃ Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:2; SCI; IF:4.9 at 2024; Ranking:19/94=20.2% in Polymer Science)
59. **Yu-Ching Huang*†**, Hou-Chin Cha†, Shih-Han Huang, Chia-Feng Li, Svette Reina Merden Santiago, and Cheng Si-Tsao*, "Highly Efficient Flexible Roll-to-Roll Organic Photovoltaics Based on Non-Fullerene Acceptors", **2023, *Polymers***, 15, 4005. (▲:9; SCI; IF:4.9 at 2024; Ranking:19/94=20.2% in Polymer Science)
60. Hou-Chin Cha, **Yu-Ching Huang***, Chia-Feng Li, and Cheng-Si Tsao*, "Uniformity and Process Stability of the Slot-Die Coated PTB7:PC₇₁BM Organic Photovoltaic Improved by Solvent Additives", **2023, *Materials Chemistry and Physics***, 302, 127684. (▲:5; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
61. 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. (▲:3; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
62. Chia-Feng Li, Hung-Che Huang, Shih-Han Huang, Yu-Hung Hsiao, Priyanka Chaudhary, Chun-Yu Chang, Feng-Yu Tsai, Wei-Fang Su, and **Yu-Ching Huang***, "High-Performance Perovskite Solar Cells and Modules Fabricated by Slot-Die Coating with Nontoxic Solvents", **2023, *Nanomaterials***, 13, 1760. (▲:10; SCI; IF:4.3 at 2024; Ranking:57/187=30.5% in Physics, Applied)
63. Shao-Jiun Yang, Tzu-Yi Yu, Jia-Shing Yu, **Yu-Ching Huang**, Meng-Fang Lin*, and Wei-Fang Su, "Novel Polypeptide Composite Fibers Scaffold with Internal Chemical Boundary", **2023, *Journal of Polymer Research***, 30, 312. (▲:0; SCI; IF:2.8 at 2024; Ranking:48/94=51.1% in Polymer Science)
64. 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. (▲:5; SCI; IF:2.6 at 2024; Ranking:97/187=51.9% in Physics, Applied)

2022-

65. Yun-Ming-Sung, Cheng-Si Tsao*, Hua-Kai Lin, Hou-Chin Cha, and **Yu-Ching Huang***, "Scale-Up Fabrication and Characteristic Study of Oligomer-Like Small-Molecule Solar Cells by Ambient Halogen-Free Sheet-to-Sheet and Roll-to-Roll Slot-Die Coating", **2022, *Solar Energy***, 231, 536-545. (▲:9; SCI; IF:6.6 at 2024; Ranking:51/182=28.0% in Energy & Fuels)
66. Tienli Ma, Chiehming Tsai, Shyhchyang Luo, Weili Chen, **Yu-Ching Huang***, and Wei-Fang Su*, "Chemical Structures and Compositions of Peptide Copolymer Films Affect Their Functional Properties for Cell Adhesion and Cell Viability", **2022, *Reactive and Functional Polymers***, 175, 105265. (▲:3; SCI; IF:5.1 at 2024; Ranking:17/94=18.1% in Polymer Science)
67. Pei-Huan Lee, Ting-Tzu Wu, Chia-Feng Li, Damian Glowienka, Yu-Xuan Huang, Shih-Han Huang, **Yu-Ching Huang***, and Wei-Fang Su*, "Featuring Semitransparent p-i-n Perovskite Solar Cells for High-Efficiency Four-Terminal/Silicon Tandem Solar Cells", **2022, *Solar RRL***, 6, 2100891. (▲:18; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
(Selected as an inside front cover of Solar RRL!!)

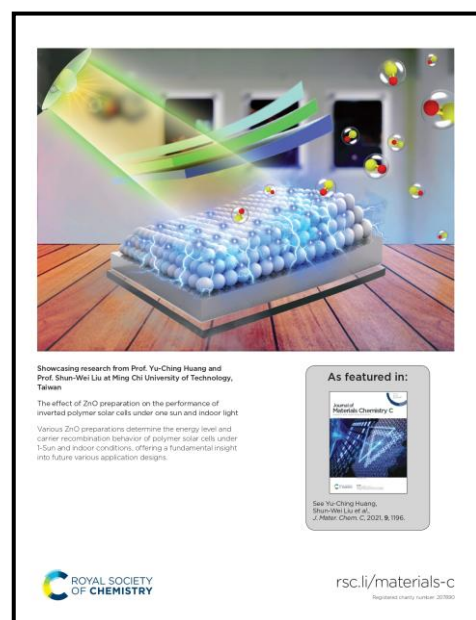


68. Shih-Han Huang, Yen-Chi Wang, Kai-Chi Hsiao, Pei-Huan Lee, Hsueh-Chung Liao, Yu-Xuan Huang, [Yu-Ching Huang*](#), and Wei-Fang Su, "Solid-State Ligand-Capped Metal Oxide Electron-Transporting Layer for Efficient and Stable Fullerene-Free Perovskite Solar Cells", **2022, *Solar RRL***, 6, 2100671. (▲:5; SCI; IF:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary) **(Selected as a back cover of Solar RRL!!)**
69. Pradeep Kumar, Utkarsh Kumar, [Yu-Ching Huang](#), Po-Yi Tsai, Chia-Hao Liu, Chiu-Hsien Wu, Wen-Min Huang, and Kuen-Lin Chen*, "Photocatalytic Activity of a Hydrothermally Synthesized γ -Fe₂O₃@Au/MoS₂ Heterostructure for Organic Dye Degradation Under Green Light", **2022, *Journal of Photochemistry & Photobiology A: Chemistry***, 433, 114186. (▲:6; SCI; IF:4.7 at 2024; Ranking:68/185=36.8% in Chemistry, Physical)
70. Meng-Fang Lin, Kang-Wei Chang, Chia-Hsien Lee, Xin-Xian Wu, and [Yu-Ching Huang*](#), "Electrospun P3HT/PVDF-HFP Semiconductive Nanofibers for Triboelectric Nanogenerators", **2022, *Scientific Reports***, 12, 14842. (▲:34; SCI; IF:3.9 at 2024; Ranking:25/135=18.5% in Multidisciplinary Science)
71. Zhi-Hao Huang, Madhuj Layek, Chia-Feng Li, [Yu-Ching Huang*](#), and Kun-Mu Lee*, "Cesium Lead Bromide Nanocrystals: Synthesis, Modification, and Application to O₂ Sensing", **2022, *Sensors***, 22, 8853. (▲:2; SCI; IF:3.5 at 2024; Ranking:24/79=30.4% in Instruments & Instrumentation)



2021-

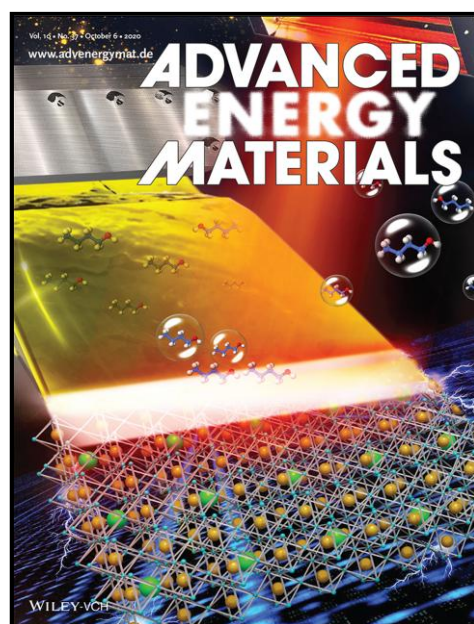
72. Yun-Ming Sung, Meng-Zhen Li, Dian Luo, Yan-De Li, Sajal Biring, [Yu-Ching Huang](#), Chun-Kai Wang, Shun-Wei Liu*, and Ken-Tseng Wong**, "A Micro-Cavity Forming Electrode with High Thermal Stability for Semi-Transparent Colorful Organic Photovoltaic Exceeding 13% Power Conversion Efficiency", **2021, *Nano Energy***, 80, 105565. (▲:33; SCI; IF:17.1 at 2024; Ranking:10/187=5.3% in Physics, Applied)
73. Pei-Huan Lee, Ting-Tzu Wu, Chia-Feng Li, Damian Głowienka, Yi-Hsuan Sun, Yi-Ting Lin, Hung-Wei Yen, Cheng-Gang Huang, Yulia Galagan, [Yu-Ching Huang*](#), and Wei-Fang Su*, "Highly Crystalline Colloidal Nickel Oxide Hole Transport Layer for Low-Temperature Processable Perovskite Solar Cell", **2021, *Chemical Engineering Journal***, 412, 128746. (▲:19; SCI; IF:13.2 at 2024; Ranking:3/83=3.6% in Engineering, Environmental)
74. Ching-Yu Lee, Cheng-Si Tsao, Hua-Kai Lin, Hou-Chin Cha, Tsui-Yun Chung, Yun-Ming Sung, and [Yu-Ching Huang*](#), "Encapsulation Improvement and Stability of Ambient Roll-to-Roll Slot-Die Coated Organic Photovoltaic Modules", **2021, *Solar Energy***, 213, 136-144. (▲:14; SCI; IF:6.6 at 2024; Ranking:51/182=28.0% in Energy & Fuels)
75. Yun-Ming Sung, Abdul Khalik, Akbar, Sajal Biring, Chia-Feng Li, [Yu-Ching Huang*](#), and Shun-Wei Liu*, "The Effect of ZnO Preparation on the Performance of Inverted Polymer Solar Cells Under One Sun and Indoor Light", **2021, *Journal of Materials Chemistry C***, 9, 1196-1204. (▲:16; SCI; IF:5.1 at 2024; Ranking:45/187=24.1% in Physics, Applied) **(Selected as an inside back cover of Journal of Materials Chemistry C!!)**



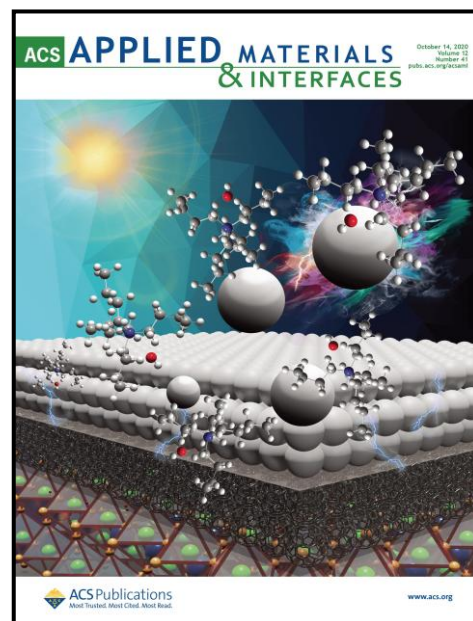
76. Zong-Liang Tseng*, Shih-Hung Lin, Jian-Fu Tang, [Yu-Ching Huang](#), Wei-Lun Huang, Yi-Ting Lee, and Lung-Chien Chen*, "Polymeric Hole Transport Materials for Red CsPbI₃ Perovskite Quantum-Dot Light-Emitting Diodes", **2021, *Polymers***, 13, 896. (▲:9; SCI; IF:4.9 at 2024; Ranking:19/94=20.2% in Polymer Science)
77. Bing Huang Jiang†, Ya-Juan Peng†, [Yu-Ching Huang](#), Ru-Jong Jeng, Tien-Shou Shieh, Ching-I Huang*, and Chih-Ping Chen, "Greater Miscibility and Energy Level Alignment of Conjugated Polymers Enhance the Optoelectronic Properties of Ternary Blend Films in Organic Photovoltaics", **2021, *Dyes and Pigments***, 193, 109543. (▲:9; SCI; IF:4.2 at 2024; Ranking:4/31=12.9% in Materials Science, Textiles)
78. Jing-Han Chen*, Tej Poudel Chhetri, Chung-Kai Chang, [Yu-Ching Huang](#), David P. Young, Igor Dubenko, Saikat Talapatra, Naushad Ali, and Shane Stadler, "The Influence of Hydrostatic Pressure and Annealing Conditions on the Magnetostructural Transitions in MnCoGe", **2021, *Journal of Applied Physics***, 129, 215108. (▲:19; SCI; IF:1.8 at 2024; Ranking:138/187=73.8% in Physics, Applied)

2020-

79. Chuang-Yi Liao, Yao Chen, Chun-Chieh Lee, Gang Wang Nai-Wei Teng, Chia-Hao Lee, Wei-Long Li, Yu-Kuang Chen, Chia-Hua Li, Hsuan-Lin Ho, Phoebe Huei-Shuan Tan, Binghao Wang, [Yu-Ching Huang](#), Ryan M. Young, Michael R. Wasielewski, Tobin J. Marks*, Yi-Ming Chang*, and Antonio Facchetti*, "Processing Strategies for an Organic Photovoltaic Module with Over 10% Efficiency", **2020, *Joule***, 4, 189-206. (▲:183; SCI; IF:35.4 at 2024; Ranking:3/182=1.6% in Energy & Fuels)
80. Shih-Han Huang, Cheng-Kang Guan, Pei-Huan Lee, Hung-Che Huang, Chia-Feng Li, [Yu-Ching Huang*](#), and Wei-Fang Su*, "Toward All Slot-Die Fabricated High Efficiency Large Area Perovskite Solar Cell Using Rapid Near Infrared Heating in Ambient Air", **2020, *Advanced Energy Materials***, 10, 2001567. (▲:81; SCI; IF:26.0 at 2024; Ranking:5/182=2.7% in Energy & Fuels) **(Selected as an inside back cover of *Advanced Energy Materials*!!)**
81. Miaosheng Wang, Ya-Ze Li, Hung-Cheng Chen, Che-Wei Liu, Yi-Sheng Chen, Yuan-Chih Lo, Cheng-Si Tsao, [Yu-Ching Huang](#), Shun-Wei Liu*, Ken-Tsung Wong*, and Bin Hu*, "Unveiling the Underlying Mechanism of Record-High Efficiency Organic Near-Infrared Photodetector Harnessing a Single-Component Photoactive Layer", **2020, *Materials Horizons***, 2020, 7, 1171-1179. (▲:19; SCI; IF:10.7 at 2024; Ranking:27/239=11.3% in Chemistry, Multidisciplinary)
82. Shih-Han Huang, Kuo-Yu Tian, Hung-Che Huang, Chia-Feng Li, Wei-Cheng Chu, Kun-Mu Lee, [Yu-Ching Huang*](#), and Wei-Feng Su*, "Controlling the Morphology and Interface of the Perovskite Layer for Scalable High-Efficiency Solar Cells Fabricated Using Green Solvents and Blade Coating in an Ambient Environment", **2020, *ACS Applied Materials & Interfaces***, 12, 26041-26049. (▲:51; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)



83. Pei-Huan Lee, Ting-Tzu Wu, Kuo-Yu Tian, Chia-Feng Li, Cheng-Hung Hou, Jing-Jong Shyue, Chun-Fu Lu, [Yu-Ching Huang*](#), and Wei-Feng Su*, "Work-Function-Tunable Electron Transport Layer of Molecule-Capped Metal Oxide for a High-Efficiency and Stable p-i-n Perovskite Solar Cell", **2020, *ACS Applied Materials & Interfaces***, 12, 45936-45949. (▲:33; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary) **(Selected as a front cover of ACS Applied Materials & Interfaces!!)**



84. 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. (▲:21; SCI; IF:7.7 at 2024; Ranking:2/79=2.5% in Instruments & Instrumentation)

85. Pei-Huan Lee, Bo-Ting Li, Chia-Feng Lee, Zhi-Hao Huang, [Yu-Ching Huang*](#), and Wei-Feng Su**, "High-Efficiency Perovskite Solar Cell Using Cobalt Doped Nickel Oxide Hole Transport Layer Fabricated by NIR Process", **2020, *Solar Energy Materials and Solar Cells***, 208, 110352. (▲:51; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)

2019-

86. Hung-Yu Lin, Chien-Yu Chen, Bo-Wei Hsu, Yu-Lun Cheng, Wei-Lun Tsai, [Yu-Ching Huang*](#), Cheng-Si Tsao, and Hao-Wu Lin*, "Efficient Cesium Lead Halide Perovskite Solar Cells Through Alternative Thousand-Layer Rapid Deposition", **2019, *Advanced Functional Materials***, 29, 1905163. (▲:42; SCI; IF:19.0 at 2024; Ranking:9/187=4.8% in Physics, Applied)

87. [Yu-Ching Huang*](#), Wei-Shin Liu, Cheng-Si Tsao*, and Leeyih Wang*, "Mechanistic Insights into the Effect of Polymer Regioregularity on the Thermal Stability of Polymer Solar Cells", **2019, *ACS Applied Materials & Interfaces***, 11, 40310-40319. (▲:12; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

88. [Yu-Ching Huang*](#), Chia-Feng Li, Zhi-Hao Huang, Po-Hung Liu, and Cheng-Si Tsao*, "Rapid and Sheet-to-Sheet Slot-Die Coating Manufacture of Highly Efficient Perovskite Solar Cells Processed Under Ambient Air", **2019, *Solar Energy***, 177, 255-261. (▲:38; SCI; IF:6.6 at 2024; Ranking:51/182=28.0% in Energy & Fuels)

89. [Yu-Ching Huang*](#), De-Han Lu, Chia-Feng Li, Cheng-Wei Chou, Hou-Chin Cha, and Cheng-Si Tsao, "Printed Silver Grid Incorporated with PEIE Doped ZnO as an Auxiliary Layer for High-Efficiency Large-Area Sprayed Organic Photovoltaics", **2019, *IEEE Journal of Photovoltaics***, 9, 1297-1301. (▲:4; SCI; IF:2.6 at 2024; Ranking:97/187= 51.9% in Physics, Applied)

90. Yun-Ming Sung, [Yu-Ching Huang*](#), Forest Shih-Sen Chien, and Cheng-Si Tsao, "Mechanism and Analysis of Thermal Burn-In Degradation of OPVs Induced by Evaporated HTL", **2019, *IEEE Journal of Photovoltaics***, 9, 694-699. (▲:13; SCI; IF:2.6 at 2024; Ranking:97/187= 51.9% in Physics, Applied)

2018-

91. Shu-Wen Dai, Bo-Wei Hsu, Chien-Cu Chen, Chia-An Lee, Hsiao-Yun Liu, Hsiao-Fang Wang, Yu-Ching Huang, Tien-Lin Wu, Arumugam Manikandan, Rong-Ming Ho, Cheng-Si Tsao, Chien-Hong Cheng, Yu-Lun Chueh, and Hao-Wu Lin*, "Perovskite Quantum Dots with Near Unity Solution and Neat-Film Photoluminescent Quantum Yield by Novel Spray Synthesis", **2018, *Advanced Materials***, 30, 1705532. (▲:110; SCI; IF:26.8 at 2024; Ranking:10/460=2.2% in Materials Science, Multidisciplinary)
92. Chia-Te Yen, Yu-Ching Huang*, Zheng-Lin Yu, Hou-Chin Cha, Hsia-Tsai Hsiao, Yu-Ting Liang, Forest Shih-Sen Chien, and Cheng-Si Tsao*, "Performance Improvement and Characterization of Spray-Coated Organic Photodetectors", **2018, *ACS Applied Materials & Interfaces***, 10, 33399-33406. (▲:13; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)
93. Yu-Ching Huang*, Cheng-Wei Chou, De-Han Lu, Charn-Ying Chen, and Cheng-Si Tsao, "All-Spray-Coated Inverted Semitransparent Organic Solar Cells and Modules", **2018, *IEEE Journal of Photovoltaics***, 8, 144-150. (▲:12; SCI; IF:2.6 at 2024; Ranking:97/187= 51.9% in Physics, Applied)

2017-

94. Kiet Tuong Ly, Ren-Wu Chen Cheng, Hao-Wu Lin*, Yu-Jeng Shiau, Shih-Hung Liu, Pi-Tai Chou*, Cheng-Si Tsao, Yu-Ching Huang, and Yun Chi*, "Near-Infrared Organic Light-Emitting Diodes with Very High External Quantum Efficiency and Radiance", **2017, *Nature Photonics***, 11, 63-68. (▲:404; SCI; IF:32.9 at 2024; Ranking:1/125=0.8% in Optics)
95. Chien-Yu Chen, Hung-Yu Lin, Kai-Ming Chiang, Wei-Lun Tsai, Yu-Ching Huang, Cheng-Si Tsao, and Hao-Wu Lin*, "All-Vacuum-Deposited Stoichiometrically Balanced Inorganic Cesium Lead Halide Perovskite Solar Cells with Stabilized Efficiency Exceeding 11%", **2017, *Advanced Materials***, 29, 1605290. (▲:338; SCI; IF:26.8 at 2024; Ranking:10/460=2.2% in Materials Science, Multidisciplinary)
96. Chih-Yu Chang*, Bo-Chou Tsai, Min-Zhen Lin, Yu-Ching Huang, and Cheng-Si Tsao, "An Integrated Approach Towards the Fabrication of Highly Efficient and Long-Term Stable Perovskite Nanowire Solar Cells", **2017, *Journal of Materials Chemistry A***, 5, 22824-22833. (▲:35; SCI; IF:9.5 at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)
97. Yen-Ju Hsieh, Yu-Ching Huang, Wei-Shin Liu, Yu-An Su, Cheng-Si Tsao*, Syang-Peng Rwei, and Leeyih Wang*, "Insights into Morphological Instability of Bulk Heterojunction PTB7-Th/PCBM Solar Cells Upon High-Temperature Aging", **2017, *ACS Applied Materials & Interfaces***, 9, 14808-14816. (▲:43; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)
98. Yu-Ching Huang*, Hou-Chin Cha, Charn-Ying Chen, and Cheng-Si Tsao, "A Universal Roll-to-Roll Slot-Die Coating Approach towards High-Efficiency Organic Photovoltaics", **2017, *Progress in Photovoltaics***, 25, 928-935. (▲:37; SCI; IF:7.6 at 2024; Ranking:30/187=16.0% in Physics, Applied)
99. Chia-Yuan Chen*, Zih-Hong Jian, Shih-Han Huang, Kun-Mu Lee, Ming-Hsuan Kao, Chang-Hong Shen, Jia-Min Shieh, Chin-Li Wang, Chiung-Wen Chang, Bo-Zhi Lin, Ching-Yao Lin, Ting-Kuang Chang, Yun Chi, Cheng-Yu Chi, Wei-Ting Wang, Yian Tai, Ming-De Lu, Yung-Liang Tung, Po-Ting Chou, Wen-Ti Wu, Tahsin J. Chow, Peter Chen, Xiang-Hao Luo, Yuh-Lang Lee, Chih-Chung Wu, Chih-Ming Chen, Chen-Yu Yeh, Miao-Syuan Fan, Jia-De Peng, Kuo-Chuan Ho, Yu-Nan Liu, Hsiao-Yi Lee, Chien-Yu Chen, Hao-Wu Lin, Chia-Te Yen, Yu-Ching Huang, Cheng-Si Tsao, Yu-Chien Ting, Tzu-Chien Wei, and Chun-Guey Wu*, "Performance Characterization of Dye-Sensitized Photovoltaics under Indoor Lighting", **2017, *Journal of Physical Chemistry Letters***, 8, 1824-1830. (▲:52; SCI; IF:4.6 at 2024; Ranking:7/39=18.0% in Physics, Atomic, Molecular & Chemical)

100. Yu-Bing Lan, Pin-Hao Sher, Cheng-Kuang Lee, Chun-Wei Pao*, Cheng-Si Tsao*, [Yu-Ching Huang](#), Ping-Tsung Huang, Chih-I Wu, and Juen-Kai Wang*, "Revealing Ordered Polymer Packing during Freeze-Drying Fabrication of a Bulk Heterojunction Poly(3-hexylthiophene-2,5-diyl):[6,6]-Phenyl-C61-butyric Acid Methyl Ester Layer: In Situ Optical Spectroscopy, Molecular-Dynamic Simulation and X-ray Diffraction", **2017, *Journal of Physical Chemistry C***, 121, 14826-14834. (▲:7; SCI; IF:3.2 at 2024; Ranking:95/185=51.4% in Chemistry, Physical)

101. Chun-Yu Chang, [Yu-Ching Huang](#), Cheng-Si Tsao*, Chien-An Chen, Chun-Jen Su, and Wei-Fang Su*, "Quantitative Correlation of the Effects of Crystallinity and Additives on Nanomorphology and Solar Cell Performance of Isoindigo-Based Copolymers", **2017, *Physical Chemistry Chemical Physics***, 19, 23515-23523. (▲:1; SCI; IF:2.9 at 2024; Ranking:13/39=33.3% in Physics, Atomic, Molecular & Chemical)

2016-

102. Yi-Kai Chih, Jian-Chih Wang, Rei-Ting Yang, Chi-Ching Liu, Yun-Chorng Chang, Yaw-Shyan Fu, Wei-Chi Lai, Peter Chen, Ten-Chin Wen, [Yu-Ching Huang](#), Cheng-Si Tsao, and Tzung-Fang Guo*, "NiO_x Electrode Interlayer and CH₃NH₂/CH₃NH₃PbBr₃ Interface Treatment to Markedly Advance Hybrid Perovskite-Based Light-Emitting Diodes", **2016, *Advanced Materials***, 28, 8687-8694. (▲:155; SCI; IF:26.8 at 2024; Ranking:10/460=2.2% in Materials Science, Multidisciplinary)

103. Mahmoud E. Farahat, Cheng-Si Tsao, [Yu-Ching Huang](#), Sheng-Hsiung Chang, Widhya Budiawan, Chun-Guey Wu, and Chih-Wei Chu*, "Toward Environmentally Compatible Molecular Solar Cells Processed from Halogen-Free Solvents", **2016, *Journal of Materials Chemistry A***, 4, 7341-7351. (▲:27; SCI; IF:9.5 at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

104. Chih-Yu Chang*, Yu-Chia Chang, Wen-Kuan Huang, Wen-Chi Liao, Hung Wang, Chieh Yeh, Bo-Chou Tsai, [Yu-Ching Huang](#), and Cheng-Si Tsao, "Achieving High Efficiency and Improved Stability in Large-Area ITO-Free Perovskite Solar Cells with Thiol-Functionalized Self-Assembled Monolayers", **2016, *Journal of Materials Chemistry A***, 4, 7903-7913. (▲:68; SCI; IF:9.5 at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

105. Chun-Yu Chang, [Yu-Ching Huang](#), Cheng-Si Tsao*, and Wei-Fang Su*, "Formation Mechanism and Control of Perovskite Films from Solution to Crystalline Phase Studied by In-Situ Synchrotron Scattering", **2016, *ACS Applied Materials & Interfaces***, 8, 26712-26721. (▲:71; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

106. Shu-Hua Chou, Hao-Wei Kang, Shu-Ting Chang, Kuan-Yi Wu, Guillermo C. Bazan, Chien-Lung Wang*, Hong-Lin Lin, Jung-Hao Chang, Hao-Wu Lin*, [Yu-Ching Huang](#), Cheng-Si Tsao, and Ken-Tsung Wong*, "Cofacial versus Coplanar Arrangement in Centrosymmetric Packing Dimers of Dipolar Small Molecules: Structural Effects on the Crystallization Behaviors and Optoelectronic Characteristics", **2016, *ACS Applied Materials & Interfaces***, 8, 18266-18276. (▲:13; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

107. Ming-Chih Lin, [Yu-Ching Huang*](#), Chia-Te Yen, Cheng-Si Tsao, and Yee-Wen Yen, "The Effect of Hole Transport Layer on The Thermal Stability of Inverted Polymer Solar Cells", **2016, *Polymer Degradation and Stability***, 134, 245-250. (▲:8; SCI; IF:7.4 at 2024; Ranking:7/94=7.4% in Polymer Science)

108. [Yu-Ching Huang*](#), Hou-Chin Cha, Charn-Ying Chen, and Cheng-Si Tsao, "Morphological Control and Performance Improvement of Organic Photovoltaic Layer of Roll-to-Roll Coated Polymer Solar Cells", **2016, *Solar Energy Materials and Solar Cells***, 150, 10-18. (▲:20; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)

109. [Yu-Ching Huang*](#), Cheng-Si Tsao*, Hou-Chin Cha, Chih-Min Chuang, Chun-Jen Su, U-Ser Jeng, and Charn-Ying Chen, "Correlation Between Hierarchical Structure and Processing Control of Large-Area Spray-Coated Polymer Solar Cells toward High Performance", **2016, *Scientific Reports***, 6, 20062. (▲:17; SCI; IF:3.9 at 2024; Ranking:25/135=18.5% in Multidisciplinary Science)

110. Chih-Yu Chang*, Bo-Chou Tsai, Yu-Cheng Hsiao, [Yu-Ching Huang](#), and Cheng-Si Tsao, "High-Performance Printable Hybrid Perovskite Solar Cells with an Easily Accessible N-Doped Fullerene as Cathode Interfacial Layer", **2016**, *Physical Chemistry Chemical Physics*, 18, 31836-31844. (▲:14; SCI; IF:2.9 at 2024; Ranking:13/39=33.3% in Physics, Atomic, Molecular & Chemical)

2015-

111. Karunakara Moorthy Boopathi, Mohan Ramesh, Packiyaraj Perumal, [Yu-Ching Huang](#), Cheng-Si Tsao, Yang-Fang Chen, Chih-Hao Lee, and Chih-Wei Chu, "Preparation of Metal Halide Perovskite Solar Cells through Liquid Droplet Assisted Method", **2015**, *Journal of Materials Chemistry A*, 3, 9257-9263. (▲:47; SCI; IF:9.5 at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

112. Hsueh-Chung Liao, Cheng-Si Tsao, Meng-Huan Jao, Che-Pu Hsu, [Yu-Ching Huang](#), Kuo-Yo Tian, Jing-Jong Shyue, Charn-Ying Chen, Chun-Jen Su, and Wei-Fang Su, "Hierarchical I-P and I-N Porous Heterojunction in Planar Perovskite Solar Cells", **2015**, *Journal of Materials Chemistry A*, 2015, 3, 10526-10535. (▲:16; SCI; IF:9.5 at 2024; Ranking:63/460=13.7% in Materials Science, Multidisciplinary)

113. Chun-Yu Chang, Cheng-Ya Chu, [Yu-Ching Huang](#), Chien-Wen Huang, Shuang-Yuan Chang, Chien-An Chen, Chi-Yang Chao, and Wei-Fang Su, "Tuning Perovskite Morphology by Polymer Additive for High Efficiency Solar Cell", **2015**, *ACS Applied Materials & Interfaces*, 7, 4955-4961. (▲:304; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

114. Mohan Ramesh, Karunakara Moorthy Boopathi, Tzu-Yen Huang, [Yu-Ching Huang](#), Cheng-Si Tsao, and Chih-Wei Chu, "Using an Airbrush Pen for Layer-By-Layer Growth of Continuous Perovskite Thin Films for Hybrid Solar Cells", **2015**, *ACS Applied Materials & Interfaces*, 7, 2359-2366. (▲:81; SCI; IF:8.2 at 2024; Ranking:83/460=18.0% in Materials Science, Multidisciplinary)

115. [Yu-Ching Huang](#), Cheng-Si Tsao*, Yi-Ju Cho, Kuan-Chen Chen, Kai-Ming Chiang, Sheng-Yi Hsiao, Chang-Wen Chen, Chun-Jen Su, U-Ser Jeng, and Hao-Wu Lin*, "Insight into Evolution, Processing and Performance of Multi-length-Scale Structures in Planar Heterojunction Perovskite Solar Cells", **2015**, *Scientific Reports*, 5, 13657. (▲:38; SCI; IF:3.9 at 2024; Ranking:25/135=18.5% in Multidisciplinary Science)

116. [Yu-Ching Huang](#), Cheng-Si Tsao*, Tzu-Yen Huang, Hou-Chin Cha, Dhananjaya Patra, Chun-Jen Su, U-Ser Jeng, Kuo-Chuan Ho, Kung-Hwa Wei, and Chih-Wei Chu*, "Quantitative Characterization and Mechanism of Formation of Multilength-Scale Bulk Heterojunction Structures in Highly Efficient Solution-Processed Small-Molecule Organic Solar Cells", **2015**, *Journal of Physical Chemistry C*, 119, 16507-16517. (▲:10; SCI; IF:3.2 at 2024; Ranking:95/185=51.4% in Chemistry, Physical)

2014-

117. Hou-Chin Cha*, [Yu-Ching Huang*](#), Fan-Hsuan Hsu, Chih-Min Chuang, De-Han Lu, Cheng-Wei Chou, Charn-Ying Chen, and Cheng-Si Tsao*, "Performance Improvement of Large-Area Roll-To-Roll Slot-Die-Coated Inverted Polymer Solar Cell by Tailoring Electron Transport Layer", **2014**, *Solar Energy Materials and Solar Cells*, 130, 191-198. (▲:35; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)

118. Hsueh-Chung Liao, Cheng-Si Tsao, [Yu-Ching Huang](#), Meng-Huan Jao, Kuo-Yu Tien, Chih-Min Chuang, Charn-Ying Chen, Chun-Jen Su, U-Ser Jeng, Yang-Fang Chen, and Wei-Fang Su, "Insights Into Solvent Vapor Annealing on The Performance of Bulk Heterojunction Solar Cell by Quantitative Nanomorphology Study", **2014**, *RSC Advances*, 4, 6246-6253. (▲:29; SCI; IF:4.6 at 2024; Ranking:75/239=31.4% in Chemistry, Multidisciplinary)

119. Cheng-Si Tsao, Chih-Min Chuang, Chun-Yu Chen, [Yu-Ching Huang](#), Hou-Chin Cha, Fan-Hsuan Hsu, Charn-Ying Chen, Yu-Chieh Tu, and Wei-Fang Su, "Reaction Kinetics and Formation Mechanism of TiO₂ Nanorods in Solution: An Insight into Oriented Attachment", **2014**, *Journal of Physical Chemistry C*, 118, 26332-26340. (▲:12; SCI; IF:3.2 at 2024; Ranking:95/185=51.4% in Chemistry, Physical)

2013-

120. Hsueh-Chung Liao, Cheng-Si Tsao*, Yu-Tsun Shao, Sheng-Yung Chang, Yu-Ching Huang, Chih-Min Chuang, Tsung-Han Lin, Charn-Ying Chen, Chun-Jen Su, U-Ser Jeng, Yang-Fang Chen, and Wei-Fang Su*, "Bi-Hierarchical Nanostructures of Donor-Acceptor Copolymer And Fullerene for High Efficient Bulk Heterojunction Solar Cells", **2013, *Energy & Environmental Science***, 6, 1938-1948. (▲:102; SCI; IF:30.8 at 2024 Ranking: Ranking:2/374=0.5% in Environmental Sciences)
121. Yu-Ching Huang*, Hou-Chin Cha, Chih-Min Chuang, Cheng-Si Tsao, Charn-Ying Chen, and Wei-Fang Su*, "Facile Hot Solvent Vapor Annealing for High Performance Polymer Solar Cell Using Spray Process", **2013, *Solar Energy Materials and Solar Cells***, 114, 24-30. (▲ :44; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)
122. Charn-Ying Chen, Cheng-Si Tsao*, Yu-Ching Huang, Hung-Wei Liu, Wen-Yen Chiu, Chih-Min Chuang, U-Ser Jeng, Chun-Jen Su, Wei-Ru Wu, Wei-Fang Su, and Leeyih Wang*, "Mechanism and Control of Structural Evolution of Polymer Solar Cell from Bulk Heterojunction to Thermally Unstable Hierarchical Structure", **2013, *Nanoscale***, 5, 7629-7638. (▲ :47; SCI; IF:5.1 at 2024; Ranking:45/187=24.1% in Physics, Applied)
123. Yu-Ching Huang*, Fan-Hsuan Hsu, Hou-Chin Chia, Chih-Min Chuang, Cheng-Si Tsao, and Charn-Ying Chen, "High-Performance ITO-Free Spray-Processed Polymer Solar Cells with Incorporating Ink-Jet Printed Silver Grids", **2013, *Organic Electronics***, 14, 2809-2817. (▲ :35; SCI; IF:2.6 at 2024; Ranking:97/187=51.9% in Physics, Applied)

2012-

124. Hsueh-Chung Liao, Cheng-Si Tsao*, Tsung-Han Lin, Meng-Huan Jao, Chih-Min Chuang, Sheng-Yong Chang, Yu-Ching Huang, Yu-Tsun Shao, Charn-Ying Chen, Chun-Jen Su, U-Ser Jeng, Yang-Fang Chen, and Wei-Fang Su*, "Nanoparticle Tuned Self-organization of Bulk Heterojunction Hybrid Solar Cell with Enhanced Performance", **2012, *ACS Nano***, 6, 1657-1666. (▲ :111; SCI; IF:16.0 at 2024; Ranking:28/460=6.1% in Materials Science, Multidisciplinary)
125. Yu-Ching Huang, Gregory C. Welch, Guillermo C. Bazan, Michael L. Chabinyc, and Wei-Fang Su*, "Self-Vertical Phase Separation Study of Nanoparticle/Polymer Solar Cells by Introducing Fluorinated Small Molecules", **2012, *Chemical Communications***, 48, 7250-7252. (▲ :18; SCI; IF:4.2 at 2024; Ranking:84/239=35.1% in Chemistry, Multidisciplinary)
126. Yu-Ching Huang, Cheng-Si Tsao*, Chih-Min Chuang, Chia-Hsin Lee, Fan-Hsuan Hsu, Hou-Chin Cha, Charn-Ying Chen, Tsung-Han Lin, Chun-Jen Su, U-Ser Jeng, and Wei-Fang Su*, "Small And Wide Angle X-ray Scattering Characterization of Bulk Heterojunction Polymer Solar Cells with Different Fullerene Derivatives", **2012, *Journal of Physical Chemistry C***, 116, 10238-10244. (▲:64; SCI; IF:3.2 at 2024; Ranking:95/185=51.4% in Chemistry, Physical)

2011-

127. Yu-Ching Huang, Jui-Hung Hsu, Yu-Chia Liao, Wei-Che Yen, Shao-Sian Li, Shiang-Tai Lin, Chun-Wei Chen, and Wei-Fang Su*, "Employing An Amphiphilic Interfacial Modifier to Enhance The Performance of A Poly(3-Hexylthiophene)/TiO₂ Hybrid Solar Cell", **2011, *Journal of Materials Chemistry***, 21, 4450-4456 (▲:53; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)

2010-

128. Yu-Ching Huang, Wei-Che Yen, Yu-Chia Liao, Ya-Chien Yu, Cheng-Chih Hsu, Mei-Lin Ho, Pi-Tai Chou, and Wei-Fang Su*, "Band Gap Aligned Conducting Interface Modifier Enhances The Performance of Thermal Stable Polymer-TiO₂ Nanorod Solar Cell", **2010, *Applied Physics Letters***, 96, 123501 (▲:27; SCI; IF:3.6 at 2024; Ranking:67/187=35.8% in Physics, Applied)

2009-

129. Shang-Yu Chuang, Hsuen-Li Chen*, Wen-Hao Lee, [Yu-Ching Huang](#), Wei-Fang Su, Wei-Ming Jen, and Chun-Wei Chen, "Regioregularity Effects in The Chain Orientation And Optical Anisotropy of Composite Polymer/Fullerene Films for High-Efficiency, Large-Area Organic Solar Cells", **2009, *Journal of Materials Chemistry***, 19, 5554-5560. (▲:43; SCI; IF:6.626 at 2013; Ranking:22/251=8.8% in Materials Science, Multidisciplinary)
130. [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. (▲:102; SCI; IF:6.3 at 2024; Ranking:36/187=19.3% in Physics, Applied)
131. Ming-Chung Wu, Chih-Min Chuang, Jih-Fong Lin, [Yu-Ching Huang](#), Yang-Fang Chen*, and Wei-Fang Su*, "Nanopatterned Optical and Magnetic $\text{La}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$ Arrays: Synthesis, Fabrication, And Properties", **2009, *Journal of Materials Research***, 24, 394-403. (▲:3; SCI; IF:2.9 at 2024; Ranking:257/460=55.9% in Materials Science, Multidisciplinary)
132. [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:1.8 at 2024; Ranking:138/187=73.8% in Physics, Applied)

2008-

133. Tze-Hsuan, Chang, [Yu-Ching Huang](#), Wei-Fang Su, and Jean-Fu Kiang*, "Wideband Dielectric Resonator Antenna With A Tunnel", **2008, *IEEE Antennas and Wireless Propagation Letters***, 7, 275-278 (▲:27; SCI; IF:4.8 at 2024; Ranking:88/366=24.0% in Engineering, Electrical & Electronic)
134. 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:1.8 at 2024; Ranking:138/187=73.8% in Physics, Applied)

2007-

135. [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:6.2 at 2024; Ranking:2/33=6.1% in Materials Science, Ceramics)
136. 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. (▲:8; SCI; IF:6.2 at 2024; Ranking:2/33=6.1% in Materials Science, Ceramics)
137. 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. (▲:17; SCI; IF:6.2 at 2024; Ranking:2/33=6.1% in Materials Science, Ceramics)
138. Yulia Galagan, [Yu-Ching Huang](#), Sergey Nedilko, and Wei-Fang Su*, "Facile Preparation of Environmental Stable High-Temperature Superconducting Ceramic And Polymer Composites", **2007, *Journal of the American Ceramic Society***, 90, 2673-2675. (▲:2; SCI; IF:3.8 at 2024; Ranking:4/33=12.1% in Materials Science, Ceramics)

2006-

139. 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:4.7 at 2024; Ranking:150/460=32.6% in Materials Science, Multidisciplinary)
140. 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:2.8 at 2024; Ranking:101/187=54.0% in Physics, Applied)

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 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)

Domestic Journal Paper Publications

2008-

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)
3. Ming-Chung Wu, M.-K. Hsieh, C.-W. Yen, Yu-Ching Huang, Wei-Ter Huang, and Wei-Fang Su, "Low Sintering $\text{BaNd}_2\text{Ti}_4\text{O}_{12}$ Microwave Ceramics Prepared by CuO Thin Layer Coated Powder", **2007**, *中華民國陶業研究學會會刊*, 26, 1, 30-38. (Invited Paper)