

SCI Journal Paper

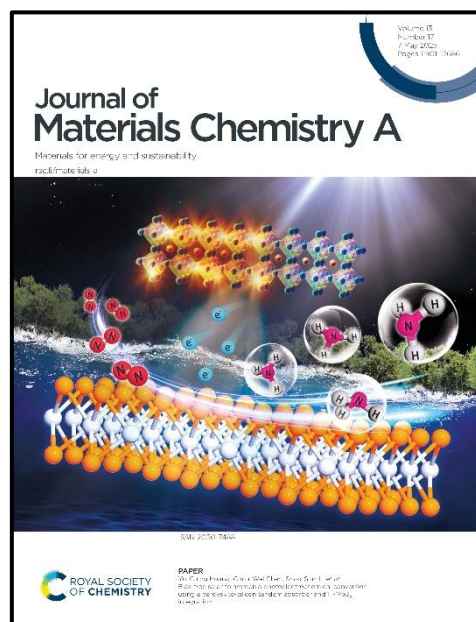
2026-

1. Shih-Han Huang, Ssu-Yung Chung, Fang-Chun Su, Chia-Feng Li, You-Ren Chen, Ting-Han Lin, Hou-Chin Cha, Yi-Sheng Chen, Chih-Chien Lee, [Yu-Ching Huang*](#), and Shun-Wei Liu*, "A Defect-Engineered Vacuum Evaporation Strategy for High-Efficiency Indoor Perovskite Mini Solar Modules", **2026, *Small Methods***, e70654. (▲:0; SCI; IF:9.1 at 2024; Ranking:68/461=14.8% in Materials Science, Multidisciplinary)
2. 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)
3. [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)
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6. 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)
7. 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)

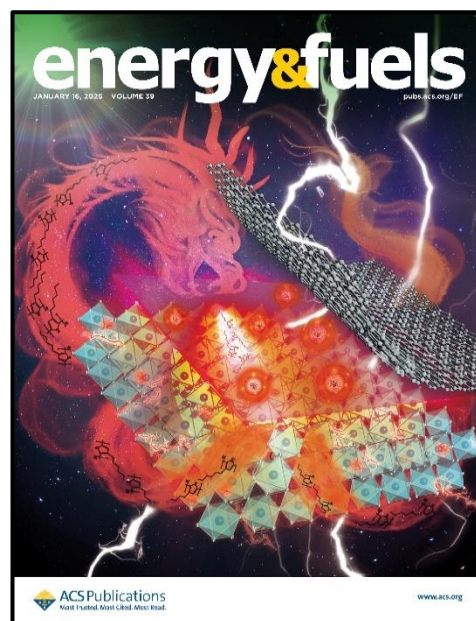
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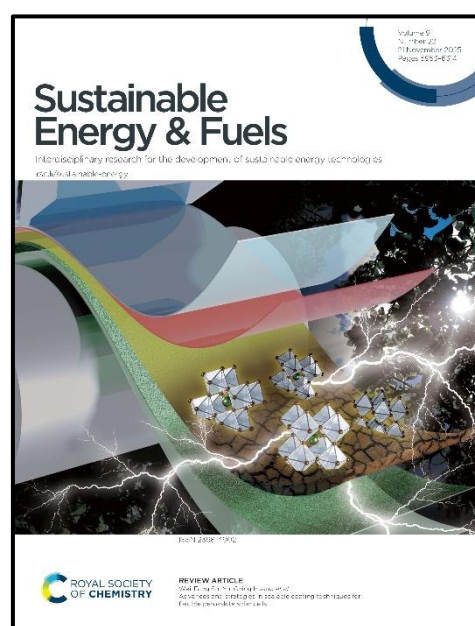
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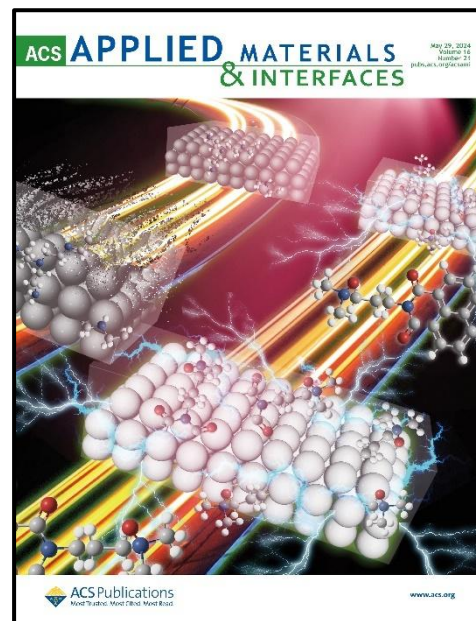
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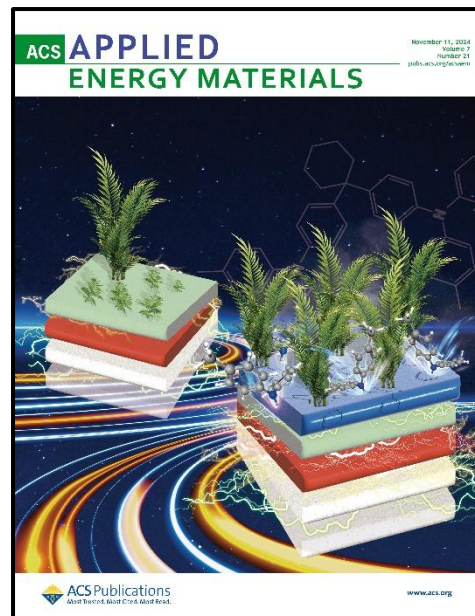
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37. [Yu-Ching Huang†](#), Sheng-Fan Wang†, Bo-Cheng Chen, Zih-Syuan Yang, Meng-Chi Li, Xun-Ying Wu, Meng-Jey Youh, Hui-Yun Chou, Yu-Xen Lin, Wanchai Assavalapsakul†, Arunee Thitithanyanont, and Li-Chen Su, "Towards Cost-Effective and Lightweight Surface 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)
38. 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)
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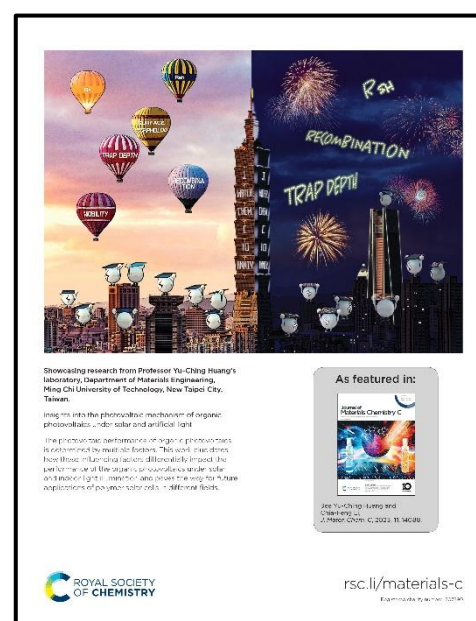


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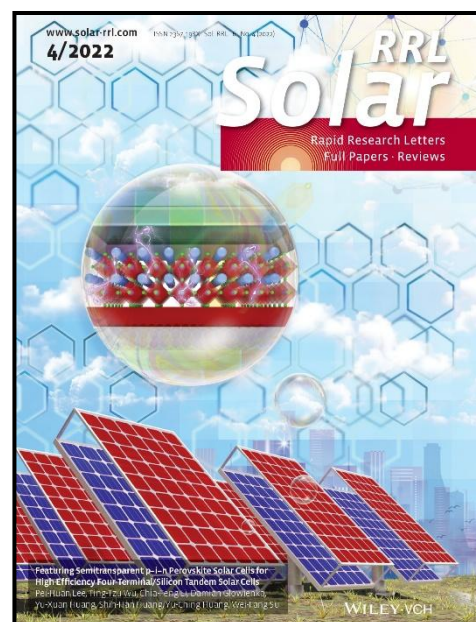
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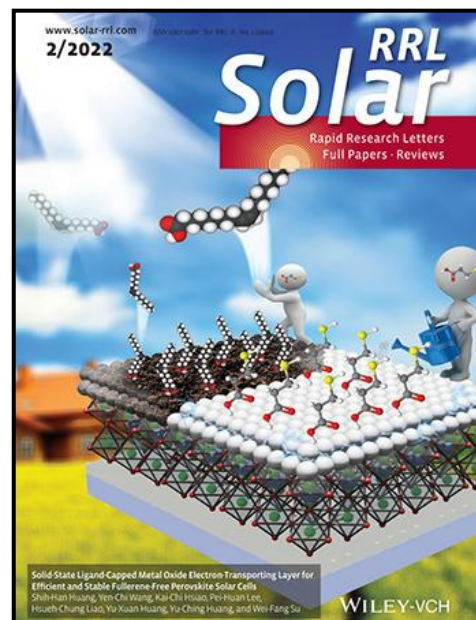
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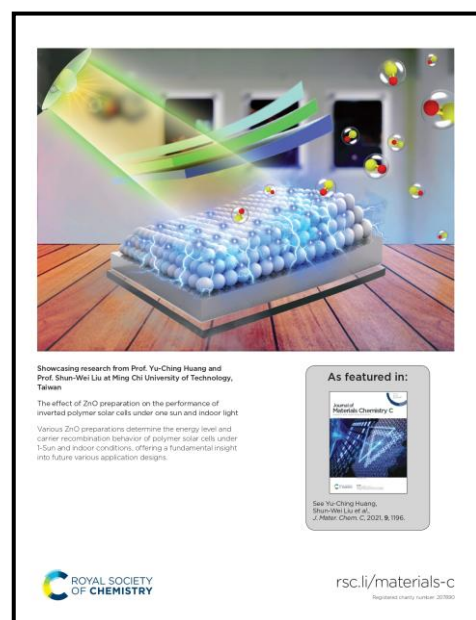


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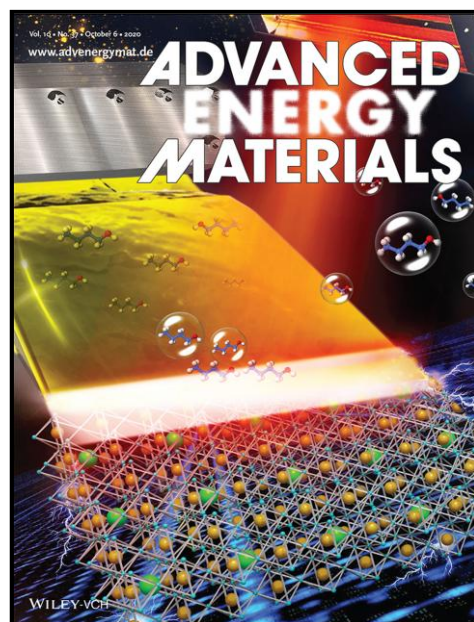
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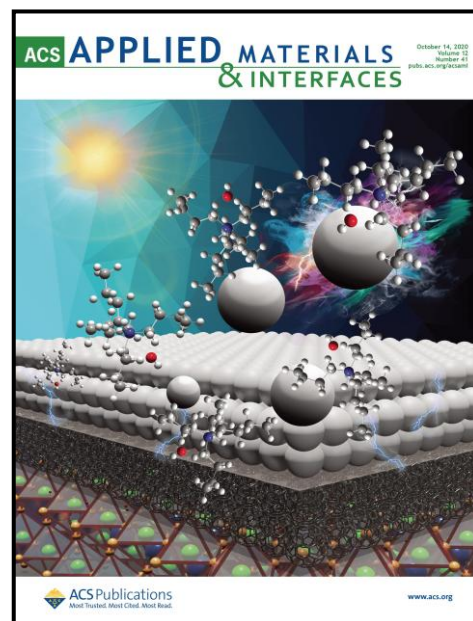
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