

SCI Journal Paper

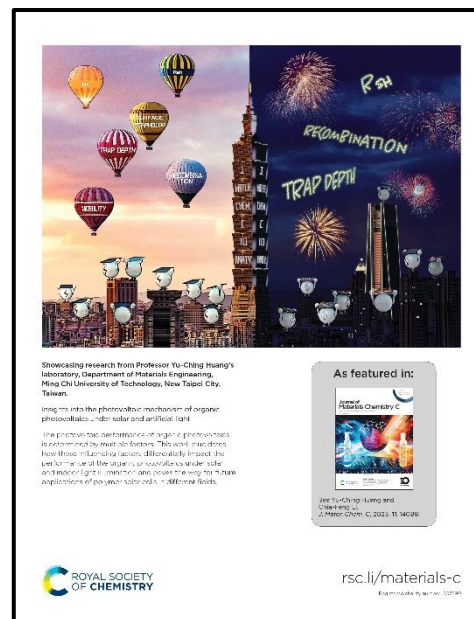
2024-

1. 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. (▲:0; SCI; IF:8.4 at 2022; Ranking:1/63=1.6% in Instruments & Instrumentation)
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. (▲:0; SCI; IF:4.6 at 2022; Ranking:1/34=2.9% in Nuclear Science & Technology)

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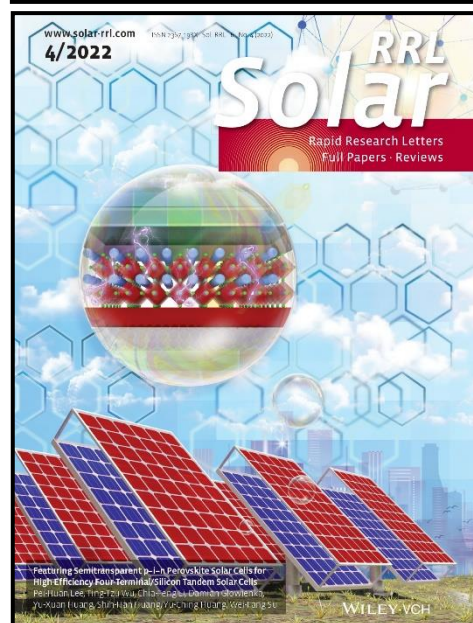
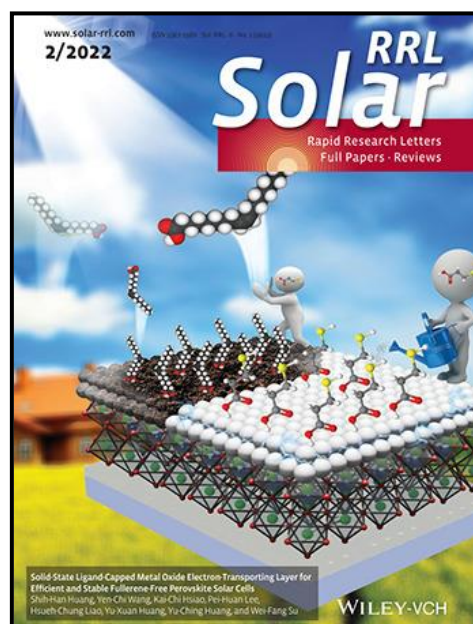
3. Po-Ting Lai, Cheng-Yueh Chen, Hao-Cheng Lin, Bo-Yuan Chuang, Kai-Hua Kuo, Christopher R. Greve, Tsung-Kai Su, Guang-Hsun Tan, Chia-Feng Li, Sheng-Wen Huang, Kai-Yuan Hsiao, Eva M. Herzig, Ming-Yen Lu, Yu-Ching Huang, Ken-Tsung Wong*, and Hao-Wu Lin*, "Harnessing 2D Ruddlesden-Popper Perovskite with Polar Organic Cation for Ultrasensitive Multibit Nonvolatile Transistor-Type Photomemristors", **2023, *ACS Nano***, 17, 25552-25564. (▲:0; SCI; IF:17.1 at 2022; Ranking:20/342=5.8% in Materials Science, Multidisciplinary)
4. 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. (▲:0; SCI; IF:15.1 at 2022; Ranking:5/140=3.6% in Engineering, Chemical)
5. 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. (▲:0; SCI; IF:13.6 at 2022; Ranking:7/73=9.6% in Multidisciplinary Science)
6. 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. (▲:0; SCI; IF:10.3 at 2022; Ranking:44/342=12.9% in Materials Science, Multidisciplinary)
7. 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. (▲:0; SCI; IF:9.5 at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)

8. 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. (▲:0; SCI; **IF:6.7** at 2022; Ranking:27/159=17.0% in Physics, Applied)
9. [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. (▲:0; SCI; **IF:6.4** at 2022; Ranking:31/159=19.5% in Physics, Applied) (**Selected as an back cover of Journal of Materials Chemistry C!!**)
10. 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. (▲:0; SCI; **IF:5.6** at 2022; Ranking:66/285=23.1% in Biochemistry & Molecular Biology)
11. 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. (▲:0; SCI; **IF:5.3** at 2022; Ranking:38/159=23.9% in Physics, Applied)
12. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, [Yu-Ching Huang*](#), and Ming-Chung Wu*, "Electrospun SnO₂/WO₃ Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:0; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Science)
13. [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. (▲:0; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Science)
14. 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. (▲:0; SCI; **IF:4.6** at 2022; Ranking:127/342=37.1% in Materials Science, Multidisciplinary)
15. 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:4.6** at 2022; Ranking:127/342=37.1% in Materials Science, Multidisciplinary)
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17. 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 2022; Ranking:44/86=51.2% in Polymer Science)



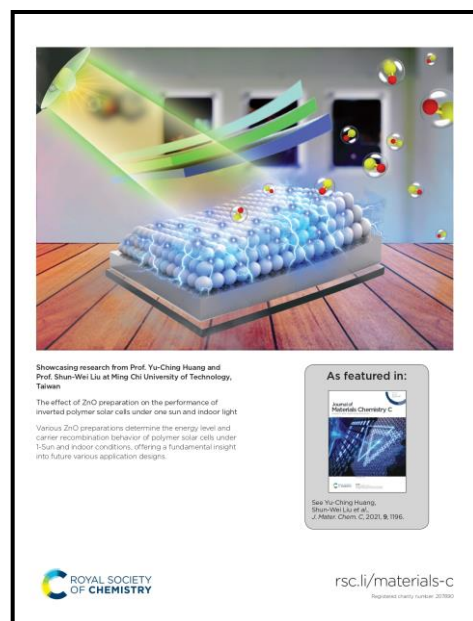
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18. Pei-Huan Lee, Ting-Tzu Wu, Chia-Feng Li, Damian Glowienka, Yu-Xuan Huang, Shih-Han Huang, **Yu-Ching Huang***, and Wei-Fang Su*, "Featuring Semitransparent p-i-n Perovskite Solar Cells for High-Efficiency Four-Terminal/Silicon Tandem Solar Cells", **2022, *Solar RRL*, 6, 2100891. (▲:5; SCI; IF:7.9 at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) (Selected as an inside front cover of Solar RRL!!)**
19. Shih-Han Huang, Yen-Chi Wang, Kai-Chi Hsiao, Pei-Huan Lee, Hsueh-Chung Laio, 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. (▲:1; SCI; IF:7.9 at 2022; Ranking:71/342=20.8% in Materials Science, Multidisciplinary) (Selected as a back cover of Solar RRL!!)**
20. 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. (▲:4; SCI; IF:6.7 at 2022; Ranking:37/115=32.2% in Energy & Fuels)**
21. Tienli Ma, Chiehming Tsai, Shyhchyang Luo, Weili Chen, **Yu-Ching Huang***, and WeiFang 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. (▲:2; SCI; IF:5.1 at 2022; Ranking:14/86=16.3% in Polymer Science)**
22. 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. (▲:7; SCI; IF:4.6 at 2022; Ranking:22/73=30.1% in Multidisciplinary Science)**
23. 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. (▲:0; SCI; IF:4.3 at 2022; Ranking:68/168=40.5% in Chemistry, Physical)**
24. 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. (▲:0; SCI; IF:3.9 at 2022; Ranking:19/63=30.2% in Instruments & Instrumentation)**



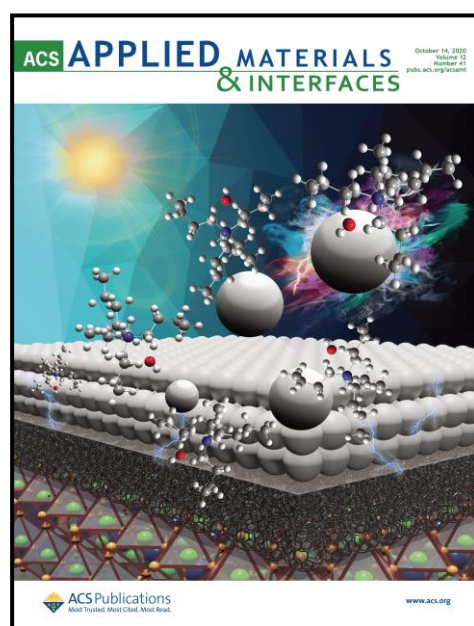
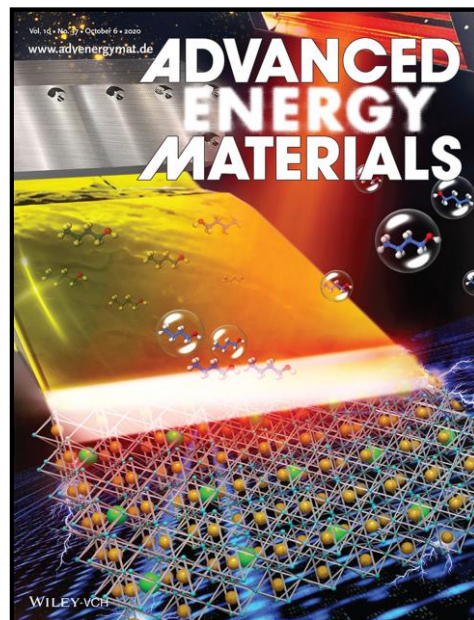
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26. Pei-Huan Lee, Ting-Tzu Wu, Chia-Feng Li, Damian Głowienka, Yi-Hsuan Sun, Yi-Ting Lin, Hung-Wei Yen, Cheng-Gang Huang, Yulia Galagan, [Yu-Ching Huang*](#), and Wei-Fang Su*, "Highly Crystalline Colloidal Nickel Oxide Hole Transport Layer for Low-Temperature Processable Perovskite Solar Cell", **2021, *Chemical Engineering Journal***, 412, 128746. (▲:6; SCI; IF:15.1 at 2022; Ranking:5/140=3.6% in Engineering, Chemical)
27. 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. (▲:6; SCI; IF:6.4 at 2022; Ranking:31/159=19.5% in Physics, Applied) **(Selected as an inside back cover of *Journal of Materials Chemistry C*!!)**
28. 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. (▲:4; SCI; IF:6.7 at 2022; Ranking:37/115=32.2%)
29. 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. (▲:4; SCI; IF:5.0 at 2022; Ranking:16/86=18.6% in Polymer Science)
30. Bing Huang Jiang†, Ya-Juan Peng†, [Yu-Ching Huang](#), Ru-Jong Jeng, Tien-Shou Shieh, Ching-I Huang*, and Chih-Ping Chen, "DPP Containing D-π-A Organic Dyes Toward Highly Efficient Dye-Sensitized Solar Cells", **2021, *Dyes and Pigments***, 193, 109543. (▲:4; SCI; IF:4.5 at 2022; Ranking:3/25=12.0% in Materials Science, Textiles)
31. 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. (▲:8; SCI; IF:3.2 at 2022; Ranking:61/159=38.4% in Physics, Applied)



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33. 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. (▲:48; SCI; IF:27.8 at 2022; Ranking:9/342=2.6% in Materials Science, Multidisciplinary) (Selected as an inside back cover of *Advanced Energy Materials*!!)
34. 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. (▲:13; SCI; IF:13.3 at 2022; Ranking:29/342=8.8% in Materials Science, Multidisciplinary)
35. 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. (▲:36; SCI; IF:9.5 at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)
36. 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. (▲:16; SCI; IF:9.5 at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary) (Selected as a front cover of *ACS Applied Materials & Interfaces*!!)
37. 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. (▲:9; SCI; IF:8.4 at 2022; Ranking:1/63=1.6% in Instruments & Instrumentation)



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39. 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. (▲:27; SCI; IF:19.0 at 2022; Ranking:8/178=4.5% in Chemistry, Multidisciplinary)
40. [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. (▲:8; SCI; IF:9.5 at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)
41. [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. (▲:27; SCI; IF:6.7 at 2022; Ranking:37/115=32.2% in Energy & Fuels)
42. [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. (▲:3; SCI; IF:3.0 at 2022; Ranking:68/159= 42.8% in Physics, Applied)
43. 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. (▲:6; SCI; IF:3.0 at 2022; Ranking:68/159= 42.8% in Physics, Applied)

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