Prof. Yu-Ching Huang of Ming Chi University of Technology (Update 2023/11/13)

SCI Journal Paper

2023-

1. 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)

2. 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)

3. 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)

4. 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)

5. 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)

6. 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!!)**

7. 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)

8. 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)

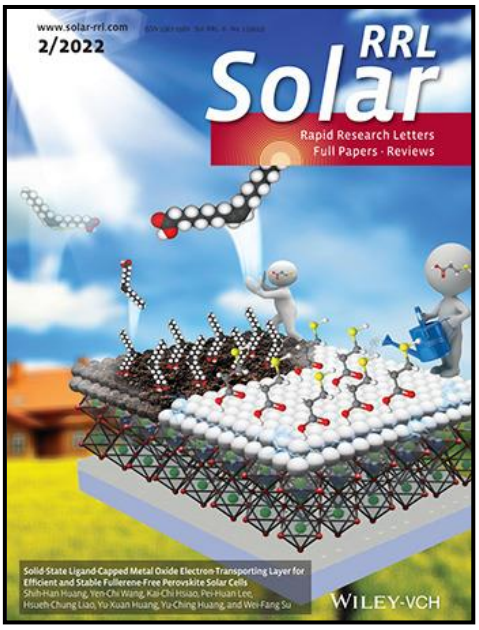
9. Ting-Han Lin†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, Yu-Ching Huang*, and Ming-Chung Wu*, "Electrospun SnO_2/WO_3 Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023**, ***Polymers***, 15, 4318. (▲**:0**; SCI; **IF:5.0** at 2022; Ranking:16/86=18.6% in Polymer Science)

10. 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)

11. Hou-Chin Cha, Yu-Ching Huang*, Chia-Feng Li, and Cheng-Si Tsao*, "Uniformity and Process Stability of the Slot-Die Coated PTB7:$PC_{71}BM$ 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)

12. 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)

13. 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 PbI_2 Precursor", **2023, *Organic Electronics***, 120, 106847. (▲**:0**; SCI; **IF:3.2** at 2022; Ranking:61/159=38.4% in Physics, Applied)

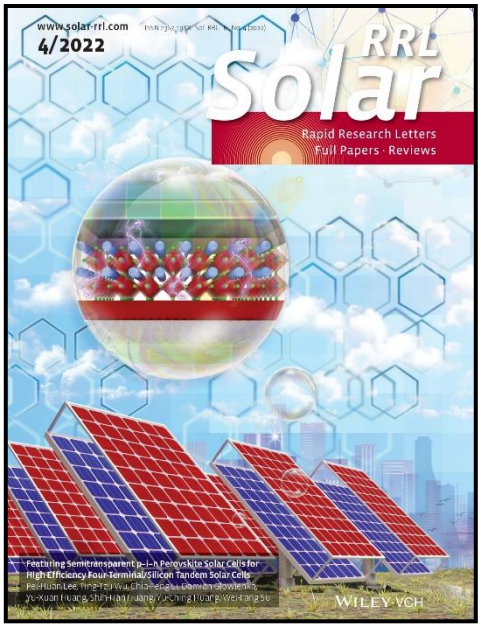


14. Shao-Jiun Yang, Tzu-Yi Yu, Jia-Shing Yu, Yu-Ching Huang, Meng-Fang Lin*, and Wei-Fang Su, "Novel Polypeptide Composite Fibers Scaffold with Internal Chemical Boundary", **2023, *Journal of Polymer Research***, 30, 312. (▲**:0**; SCI; **IF:2.8** at 2022; Ranking:44/86=51.2% in Polymer Science)

2022-

15. 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!!)**

16. 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!!)**



17. 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)

18. 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)

19. 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)

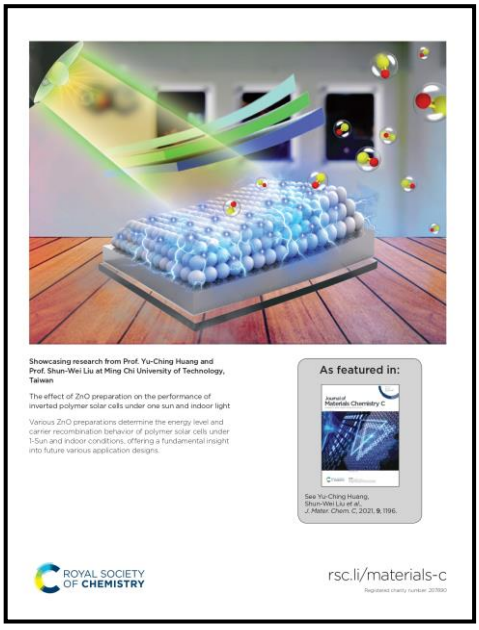
20. Zhi-Hao Huang, Madhuja Layek, Chia-Feng Li, Yu-Ching Huang*, and Kun-Mu Lee*, "Cesium Lead Bromide Nanocrystals: Synthesis, Modification, and Application to O_2 Sensing", **2022**, ***Sensors***, 22, 8853. (▲**:0**; SCI; **IF:3.9** at 2022; Ranking:19/63=30.2% in Instruments & Instrumentation)

2021-

21. 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. (▲**:19**; SCI; **IF:17.6** at 2022; Ranking:18/342=5.3% in Materials Science, Multidisciplinary)

22. 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)

23. 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!!)**



24. Ching-Yu Lee, Cheng-Si Tsao, Hua-Kai Lin, Hou-Chin Cha, Tsui-Yun Chung, Yun-Ming Sung, and Yu-Ching Huang*, "Ensapsulation 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%)

25. 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 $CsPbI_3$ 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)

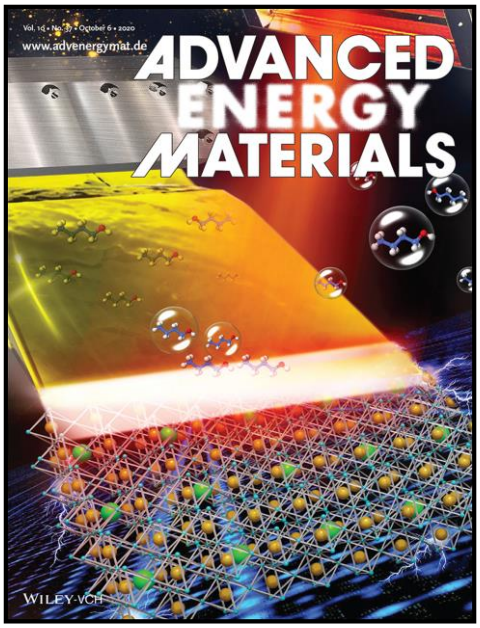
26. Bing Huang Jiang†, Ya-Juan Peng†, Yu-Ching Huang, Ru-Jong Jeng, Tien-Shou Shieh, Ching-I Huang*, and Chih-Ping Chen, "DPP Containing D-π-A Organic Dyes Toward Highly Efficient Dye-Sensitized Solar Cells", **2021**, ***Dyes and Pigments***, 193, 109543. (▲**:4**; SCI; **IF:4.5** at 2022; Ranking:3/25=12.0% in Materials Science, Textiles)

27. 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)

2020-

28. 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, Hsiuan-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. (▲**:0**; SCI; **IF:39.8** at 2022; Ranking:2/161=1.2% in Chemistry, Physical)

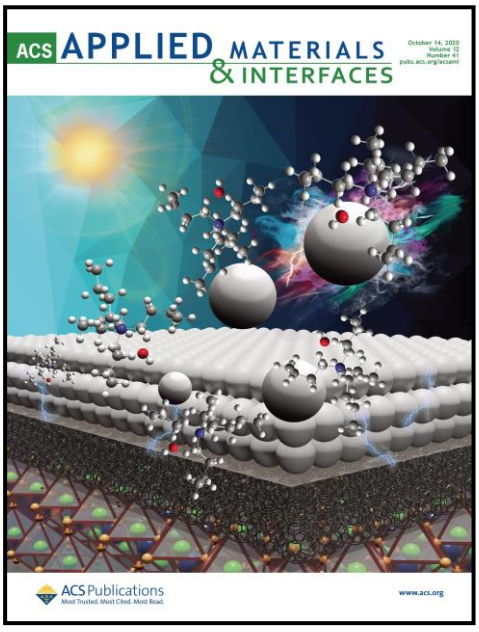
29. Shih-Han Huang, Cheng-Kang Guan, Pei-Huan Lee, Hung-Che Huang, Chia-Feng Li, Yu-Ching Huang*, and Wei-Fang Su*, "Toward All Slot-Die Fabricated High Efficiency Large Area Perovskite Solar Cell Using Rapid Near Infrared Heating in Ambient Air", **2020**, ***Advanced Energy Materials***, 10, 2001567. (▲**: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!!)**



30. 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)

31. 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)

32. 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; **I IF:9.5** at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary) **(Selected as a front cover of ACS Applied Materials & Interfaces!!)**



33. 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)

34. 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. (▲**:42**; SCI; **IF:6.9** at 2022; Ranking:26/159=16.4% in Physics, Applied)

2019-

35. 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)

36. 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)

37. 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)

38. 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)

39. 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)

2018-

40. 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. (▲**:75**; SCI; **IF:29.4** at 2022; Ranking:4/161=2.5% in Chemistry, Physical)

41. 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. (▲**:9**; SCI; **IF:9.5** at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)

42. 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. (▲**:11**; SCI; **IF:3.0** at 2022; Ranking:68/159= 42.8% in Physics, Applied)

2017-

43. 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. (▲**:294**; SCI; **IF:29.4** at 2022; Ranking:4/161=2.5% in Chemistry, Physical)

44. 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. (▲**:26**; SCI; **IF:11.9** at 2022; Ranking:11/115=9.6% in Energy & Fuels)

45. 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. (▲**:37**; SCI; **IF:9.5** at 2022; Ranking:55/342=16.1% in Materials Science, Multidisciplinary)

46. 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. (▲**:30**; SCI; **IF:6.7** at 2022; Ranking:27/159=17.0% in Physics, Applied)

47. 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. (▲**:43**; SCI; **IF:5.7** at 2022; Ranking:5/35=14.3% in Physics, Atomic, Molecular & Chemical)

48. 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 Heterojuction 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. (▲**:6**; SCI; **IF:3.7** at 2022; Ranking:156/342=45.6% in Materials Science, Multidisciplinary)

49. 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:3.3** at 2022; Ranking:9/35=25.7% in Physics, Atomic, Molecular & Chemical)

2016-

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