

# Prof. Yu-Ching Huang of Ming Chi University of Technology (Update 2024/10/21)

## Award List

### 2024-

1. 黃裕清\*, 李嘉峰, 查厚錦, "高效率半透明鈣鈦礦太陽能電池技術", 2024 台灣創新技術博覽會, Oct. 17-19, 台北世貿 1 館. (未來科技獎)
2. Chia-Feng Li, Shih-Han Huang, You-Ren Chen, Wun-Ting Li, Hou-Chin Cha, Feng-Yu Tsai, and Yu-Ching Huang\*, "Scalable Sequential Deposition for Perovskite Solar Cells in Air", 2024 SDSE 2<sup>nd</sup>International Conference on Smart Devices and Sustainable Energy (SDSE 2024), Oct. 16-18, New Taipei, Taiwan. (Special Award)
3. Shih-Han Huang, Chien-Te Tsou, Chia-Feng Li, Hou-Chin Cha, and Yu-Ching Huang\*, "Perovskite Solar Cells with An Air-Processable Two-Step Active Layer", 2024 SDSE 2<sup>nd</sup>International Conference on Smart Devices and Sustainable Energy (SDSE 2024), Oct. 16-18, New Taipei, Taiwan. (Honorable Mentions)
4. Hou-Chin Cha, Shih-Han Cheng, Chia-Feng Li, Ssu-Yung Chung, Pin-Hao Zhao, and Yu-Ching Huang\*, "Optimizing the Electron Transport Layer for Enhanced Performance of Slot-Die Coated Indoor Organic Photovoltaics", 2024 SDSE 2<sup>nd</sup>International Conference on Smart Devices and Sustainable Energy (SDSE 2024), Oct. 16-18, New Taipei, Taiwan. (Honorable Mentions)
5. 譚惇恒, 林于婷, 林唯芳, 黃裕清\*, "以多肽生物纖維支架輸送鹽酸米諾環素用於神經再生", 第 19 屆台塑關係企業應用技術研討會, Jun. 14, 桃園市-長庚大學. (海報美工競賽佳作)

### 2021-

6. Yu-Ching Huang\*, Chi-Wei Wu, Yu-Xuan Huang, and Shao-Sian Li, "Additives Engineering to Replace Anti-Solvent Method", 2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021), Nov. 13-17, Virtual Conference. (Second Prize)

### 2020-

7. 黃裕清\*, 黃宇軒, 李嘉峰, "透過界面修飾來提升反式鈣鈦礦元件之性能", 2020 中國材料科學學會年會, Nov. 6-7, 新北-明志科技大學. (論文海報競賽優等)
8. 黃詩翰, 官振康, 李沛寰, 黃宏哲, 李嘉峰, 黃裕清, 林唯芳\*, "以近紅外光技術製備高效率大面積全狹縫塗佈式鈣鈦礦太陽能電池", 2020 中國材料科學學會年會, Nov. 6-7, 新北-明志科技大學. (論文海報競賽優等)
9. 吳庭慈, 李沛寰, 黃誠剛, 李嘉峰, 黃宇軒, 黃裕清, 林唯芳\*, "以濺鍍技術製備氧化銦銻透明電極並應用於鈣鈦礦/矽晶串疊型太陽能電池", 2020 中國材料科學學會年會, Nov. 6-7, 新北-明志科技大學. (論文海報競賽特優)
10. Yu-Ching Huang\*, Madhuj Layek, Chia-Feng Li, and Zhi-Hao Huang, "Effect of Different Substrates on Oxygen Sensing Using CsPbBr<sub>3</sub> Quantum Dots", 2020 ICSS International Conference on Smart Sensors, 25<sup>th</sup> Symposium of Association of Chemical Sensors in Taiwan, and 23<sup>rd</sup> Nano Engineering and Microsystem Technology Conference (ICSS 2020), Oct. 19-20, Kaohsiung, Taiwan. (Excellent Poster Award)

## 2015-

11. Hou-Chin Cha\*, Yu-Ching Huang\*, Chih-Min Chuang, Chia-Te Yen, De-Han Lu, Cheng-Wei Chou, Zheng-Lin Yu, Charn-Ying Chen, and Cheng-Si Tsao, "Critical Factors for Performance Improvement of Roll-to-Roll Slot-Die Coated Halogen-Free Inverted Polymer Solar Cells", **2015 IWFPE International Workshop on Flexible & Printable Electronics (IWFPE 2015)**, Nov. 4-6, Korea. (Best Poster Award)

## 2014-

12. 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\*, "Hierarchical Bulk Heterojunction Structure of Solution-Processed Small-Molecule Organic Solar Cell Studied by Synchrotron Scattering", **2014 IUMRS-ICEM International Union of Materials Research Societies-International Conference on Electronic Materials (IUMRS-ICEM 2014)**, June 10-14, Taipei, Taiwan. (Best Poster Award)

## 2008-

13. 黃裕清\*, 徐瑞鴻, 林雲躍, 廖佑加, 陳俊維, 林唯芳, "Improve Charge Separation and Transfer in P3HT/TiO<sub>2</sub> Nanorod Bulk Heterojunction Solar Cell Using Carboxylate Terminated 3-Hexylthiophene Oligomer", 中國材料科學學會年會, Nov. 21-22, 台北. (壁報論文優勝)

## 2006-

14. Yu-Ching Huang, Cheng-Wei Yen, Ming-Chung Wu, and Wei-Fang Su\*, "Sol-Gel Synthesis of Ba<sub>4</sub>Nd<sub>9.33</sub>Ti<sub>18</sub>O<sub>54</sub> Fiber and Its Application to Low-Shrinkage Microwave Dielectric Ceramics", **2006 MMA The 4<sup>th</sup> International Conference on Microwave Material and Their Applications (MMA 2006)**, June. 12-15, Oulu, Finland. (3<sup>rd</sup> Place Prize Poster Paper)
15. 吳明忠\*, 莊智閔, 黃裕清, 鄭國忠, 林清富, 陳永芳, 林唯芳, "Colossal Magnetoresistance and Photonic Crystal Behavior of Water Based Spin-Coatable La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Material", 中國材料科學學會年會, Nov. 24-25, 台南. (壁報論文優勝)
16. 黃裕清\*, 吳明忠, 張子軒, 江簡富, 林唯芳, "Broadband DR Antenna Made of High Q Ceramics", 中國材料科學學會年會, Nov. 24-25, 台南. (壁報論文佳作)
17. 吳明忠\*, 莊智閔, 黃裕清, 鄭國忠, 林清富, 陳永芳, 林唯芳, "Nanolithography Made from Water Based Spin-Coatable LSMO Resist", 中國材料科學學會年會, Nov. 24-25, 台南. (壁報論文佳作)

## 2005-

18. 黃裕清\*, 林唯芳, "奈米級龐磁阻材料 La<sub>0.3</sub>Sr<sub>0.7</sub>MnO<sub>3</sub> 之研究", 中國材料科學學會年會, Nov. 25-26, 台南. (壁報論文佳作)