

Prof. Ming-Chung Wu of Chang Gung University (Update 2022/11/17)

International Conference Papers List

2022-

1. Kun-Mu Lee*, Seoungjun Ahn, and [Ming-Chung Wu](#), "Enhanced Efficiency and Stability of Quasi-2D/3D Perovskite Solar Cells by Blade Coating Method", **2022 PVSEC-33 The 33rd International Photovoltaic Science and Engineering Conference (PVSEC-33 2022)**, Nov. 13-17, Nagoya, Japan.
2. Yin-Hsuan Chang, Shun-Hsiang Chan, Yi-Ying Li, Shih-Hsian Chen, Chinh-Mei Ho, Kai-Chi Hsiao, and [Ming-Chung Wu*](#), "Defect Passivation Toward High-Performance Perovskite Solar Cells", **2022 ICGET-TW The 2022 International Conference on Green Electrochemical Technologies and the 2022 Annual Meeting of Electrochemical Society of Taiwan (ICGET-TW 2022)**, Nov. 10-12, Hsinchu, Taiwan.
3. Tzu-Chuan Yang, Ping-Jung Huang, Peng-Nang Chen, Tzu-Wei Hsu, [Ming-Chung Wu*](#), and Jer-Chyi Wang, "Enhanced Output Performance of P(VDF-TrFE) Piezoelectric Nanogenerators with DMF and Toluene Co-Solvent Dissolving Process", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan.
4. Shih-Cheng Tsao, Yi Fu, Tzu-Chuan Yang, Peng-Nang Chen, Tzu-Wei Hsu, [Ming-Chung Wu*](#), and Jer-Chyi Wang, "Thickness Dependence of Resistive Switching Characteristics in Flexible Cu/MDMP-PPV/ITO ReRAMs", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**
5. Ying-Han Liao, Shih-Hsuan Chen, Ching-Mei Ho, Shun-Hsiang Chan, and [Ming-Chung Wu*](#), "High Efficiency Perovskite Solar Cells based on Planar or Mesoporous Metal Doping TiO₂ Electron Extraction Layer", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**
6. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, and [Ming-Chung Wu*](#), "Exhaled Breath Sensor Based on an Electrospun Nanofiber-Based Sensing Materials for Non-Invasive Diagnostic Applications", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan.
7. Kai-Chi Hsiao, Shun-Hsiang Chan, Wei-Cheng Chen, Tzu-Hao Lin, Kun-Mu Lee, and [Ming-Chung Wu*](#), "Realize the Counterbalance Between Sustainability and Photovoltaic Performance of Organometal Halide Perovskite Solar Cell", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**

2021-

8. Jia-Mao Chang, Ting-Han Lin, Kou-Ping Chiang, and [Ming-Chung Wu*](#), "Vapor-Assisted Synthesis of Novel Silver Bismuth Iodide Crystal for Efficient Photocatalytic CO₂ Reduction", **2021 IEDMS International Electron Devices & Materials Symposium (IEDMS 2021)**, Nov. 18-19, Kaohsiung, Taiwan.
9. Yu-Hsiang Chang, Yen-Fu Yu, Kai-Chi Hsiao, Shih-Hsuan Chen, and [Ming-Chung Wu*](#), "Enhance Power Conversion Efficiency of Non-Toxic Rudorfittes Solar Cells Through Modification of Carrier Transporting Layer", **2021 IEDMS International Electron Devices & Materials Symposium (IEDMS 2021)**, Nov. 18-19, Kaohsiung, Taiwan. **(Excellent Poster Paper Award)**
10. Tien-Hao Chen, Ting-Han Lin, and [Ming-Chung Wu*](#), "Synthesis of Sulfur-Vacancy Defects on SnS₂/Carbonized CNF Nanocomposite Film for Photocatalytic Application", **2021 IEDMS International Electron Devices & Materials Symposium (IEDMS 2021)**, Nov. 18-19, Kaohsiung, Taiwan.

11. Yu-Ching Huang*, Yu-Hsiang Cheng, Zih-Ting Chen, Zhi-Hao Huang, Kun-Mu Lee, and [Ming-Chung Wu*](#), "Study of the Conducting Polymer as the Interfacial Buffer Layer of Screen-Printed Electrodes for Perovskite Solar Cells", **2021 TACT International Thin Films Conference (TACT 2021)**, Nov. 15-18, Virtual Conference.
12. Kou-Ping Chiang, Ting-Han Lin, Yin-Hsuan Chang, Jia-Mao Chang, Kai-Chi Hsiao, and [Ming-Chung Wu*](#), "Enhanced Photocatalytic CO₂ Reduction Activity of Silver-Bismuth Iodide Decorated TiO₂ NFs by Chemical Vapor Deposition", **2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021)**, Nov. 13-17, Virtual Conference.
13. Jia-Mao Chang, Ting-Han Lin, Kou-Ping Chiang, and [Ming-Chung Wu*](#), "Manipulating the Microstructure of Novel Silver Bismuth Iodide Crystal for Efficient Photocatalytic CO₂ Reduction", **2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021)**, Nov. 13-17, Virtual Conference.
14. Ting-Hun Hsieh, Yin-Hsuan Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "Ultra-Sensitive Breath Acetone Detection by Polymer Nanocomposite Sensing Material for Non-Invasive Diabetics Health Monitoring", **2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021)**, Nov. 13-17, Virtual Conference. **(First Prize)**

2020-

15. Ting-Han Lin, Duy Linh Vu, [Ming-Chung Wu*](#), and Chao-Sung Lai, "Using Electrospun PANI/P3TI/PMMA Fibers for Highly-Sensitive Detection of Volatile Organic Compounds Vapor", **2020 ICSS International Conference on Smart Sensors, 25th Symposium of Association of Chemical Sensors in Taiwan, and 23rd Nano Engineering and Microsystem Technology Conference (ICSS 2020)**, Oct. 19-20, Kaohsiung, Taiwan. **(Oral Presentation) (Best Oral Paper Award)**
16. Chi-Hung Lin, [Ming-Chung Wu*](#), Ding-Hong Xie, and Chao-Sung Lai, "Detection of Volatile Organic Compounds Using Aligned Ag/QR/PMMA Freestanding Fibrous Film", **2020 ICSS International Conference on Smart Sensors, 25th Symposium of Association of Chemical Sensors in Taiwan, and 23rd Nano Engineering and Microsystem Technology Conference (ICSS 2020)**, Oct. 19-20, Kaohsiung, Taiwan.
17. Meng-Huan Jao, Shun-Hsiang Chan, [Ming-Chung Wu*](#), and Chao-Sung Lai, "Pseudopotential Generated Element Code as Efficient Descriptor to Predict Material Properties", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
18. Shun-Hsiang Chan, Meng-Huan Jao, [Ming-Chung Wu*](#), and Chao-Sung Lai, "Enhanced Photovoltaic Performance of 2D/3D Ba-Doped Perovskite Solar Cells by Phenethylammonium Chloride Addition", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan. **(Oral Presentation)**
19. Yin-Hsuan Chang, Ting-Han Lin, Yu-Han Liao, and [Ming-Chung Wu*](#), "Efficient Removal of Organic Pollutants with Reusable Cellulose Nanofiber/Titanium Dioxide Nanofiber Composite Film", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
20. Qian-Han Wang, Shih-Hsuan Chen, and [Ming-Chung Wu*](#), "Using Composition Engineering to Enhance Photovoltaic Performance of Lead-Free Silver Bismuth Iodide Solar Cells", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
21. Yen-Fu Yu, Shih-Hsuan Chen, and [Ming-Chung Wu*](#), "Improved the Photovoltaic Performance of Ag₃BiI₆ Solar Cells by Band Alignment Engineering", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
22. Yu-Zhe Liu, Kun Mu Lee*, and [Ming-Chung Wu*](#), "Sequential Preparation of Fluorine-Doped Tin Oxide Films for High-Efficiency Perovskite Solar Cells", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.

23. Ya-Ting Chan, Yi-Pei Jiang, Yi Fu, [Ming-Chung Wu](#), Kuo-Hsuan Chang, and Jer-Chyi Wang*, "Effects of Electrode Materials on SiO₂ Nanoparticle Incorporated Ionic Liquid/Poly(Vinylidene Fluoride) Actuators", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
24. Tzu-Chuan Yang, Rajat Subhra Karmaker, Shih-Hsuan Chen, Yu-Jen Lu, [Ming-Chung Wu](#), and Jer-Chyi Wang*, "Superior Characteristics of MDMO-PPV Piezoresistive Pressure Sensors with 1×1 Cross-Point Electrode Structure", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
25. Yi Fu, Yu-Hua Liu, Han-Hsiang Tai, Kuo-Hsuan Chang, [Ming-Chung Wu](#), and Jer-Chyi Wang*, "Gold Nanoparticles Incorporated PEG Tactile Sensing Unit for the Implementation in Diagnosis of Parkinson's Disease", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
26. Ishita Chakraborty,jsap [Ming-Chung Wu](#), and Chao-Sung Lai*, "PDMS@TiO₂ NPs Composite Based High Performance TENG", **2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)**, Oct. 15-16, Taoyuan, Taiwan.
27. [Ming-Chung Wu*](#), Kai-Chi Hsiao, Yin-Hsuan Chang, and Krisztián Kordás, "Photo-Kelvin Probe Force Microscopy Study on Carrier Transport Mechanism of Core/Shell Heterostructure TiO₂ Photocatalysts", **2020 CCE IV International Conference on Catalysis and Chemical Engineering (CCE 2020)**, Feb. 24-26, Los Angeles, California, United. **(Oral Presentation)**
28. Ting-Han Lin, Yin-Hsuan Chang, Ching-Ting Chiu, and [Ming-Chung Wu*](#), "Construction of 2D/1D g-C₃N₄/TiO₂ with Z-Scheme Heterostructure for Efficient Water Splitting", **2020 CCE IV International Conference on Catalysis and Chemical Engineering (CCE 2020)**, Feb. 24-26, Los Angeles, California, United. **(Oral Presentation)**
29. Yin-Hsuan Chang, Ting-Han Lin, Yu-Han Liao, Ying-Han Liao, and [Ming-Chung Wu*](#), "Cellulose Nanofiber/Titanium Dioxide Nanowire Film for Reusable Organic Pollutant Photosdegradation", **2020 CCE IV International Conference on Catalysis and Chemical Engineering (CCE 2020)**, Feb. 24-26, Los Angeles, California, United. **(Oral Presentation)**

2019-

30. Ting-Han Lin, Yu-Han Liao, Yin-Hsuan Chang, Ying-Han Liao, and [Ming-Chung Wu*](#), "Hierarchically Cellulose Nanofiber/Titanium Dioxide Nanowire Film with Morphological Matching Forreusable Organic Pollutant Photodegradation", **2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)**, Dec. 1-6, Boston, Massachusetts, United.
31. [Ming-Chung Wu*](#), Yen-Tung Lin, Shih-Hsuan Chen, Ying-Han Liao, and Shun-Hsiang Chan, "High Power Conversion Efficiency of Perovskite Solar Cells Based on Low-Temperature Zn-Doped TiO₂ Electron Extraction Layer", **2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)**, Dec. 1-6, Boston, Massachusetts, United.
32. Chi-Hung Lin, [Ming-Chung Wu*](#), Tz-Feng Lin, Shun-Hsiang Chan, Ting-Han Lin, Kai Wang, and Chao-Sung Lai, "Ultrasensitive Detection of Volatile Organic Compounds by Freestanding Aligned Ag/CdSe-CdS/PMMA Texture with Double-Sild UV-Ozone Treatment", **2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)**, Dec. 1-6, Boston, Massachusetts, United.
33. Ting-Han Lin, Yu-Han Liao, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Hierarchically Cellulose Nanofiber/TiO₂ Nanofiber Composite Film for The Reusable Organic Pollutant Photodegradation", **2019 APAM The Congress of Asia Pacific Academy of Materials (APAM 2019)**, Nov. 15-18, Guangzhou, China. **(Oral Presentation)**

34. Yin-Hsuan Chang, Chi-Hung Lin, Tz-Feng Lin, Shun-Hsiang Chan, Ting-Han Lin, Kai Wang, Chao-Sung Lai, and Ming-Chung Wu*, "Efficient Polarization-Selective CdSe-CdS/PMMA Sensing Material for Detection of Volatile Organic Compounds Detection", **2019 APAM The Congress of Asia Pacific Academy of Materials (APAM 2019)**, Nov. 15-18, Guangzhou, China.
35. Shih-Hsuan Chen, Yen-Tung Lin, and Ming-Chung Wu*, "Control Perovskite Crystallization via Interface Engineering for Highly Efficient Low-Temperature Perovskite Solar Cells", **2019 A-COE The 11th Asian Conference on Organic Electronics (A-COE 2019)**, Nov. 6-9, New Taipei, Taiwan. (Excellent Poster Award)
36. Ching-Mei Ho, Shih-Hsuan Chen, and Ming-Chung Wu*, "Two-Dimensional Additive Promoting Crystal Growth for High-Performance Perovskite Solar Cells", **2019 A-COE The 11th Asian Conference on Organic Electronics (A-COE 2019)**, Nov. 6-9, New Taipei, Taiwan.
37. Chi-Hung Lin, Ting-Han Lin, Shun-Hsiang Chan, Yin-Hsuan Chang, Tz-Feng Lin, Ziming Zhou, Kai Wang, Chao-Sung Lai, and Ming-Chung Wu*, "Highly Sensitive Freestanding Ag/CdSe-CdS/PMMA Sensors for Volatile Organic Compounds Detection", **2019 FAPS The 6th Federation of Asian Polymer Societies Polymer Congress (FAPS 2019)**, Oct. 27-30, Taipei, Taiwan.
38. Yin-Hsuan Chang, Yi-Ying Li, Shun-Hsiang Chan, and Ming-Chung Wu*, "Enhanced Photovoltaic Performance Lead-Reduced Perovskite Solar Cells by Polymer Additives", **2019 FAPS The 6th Federation of Asian Polymer Societies Polymer Congress (FAPS 2019)**, Oct. 27-30, Taipei, Taiwan. (Oral Presentation)
39. Ming-Chung Wu*, Yin-Hsuan Chang, Ying-Han Liao, Shun-Hsiang Chan, and Yi-Yin Li, "High-Performance and Stable Perovskite Solar Cells by Adding Polymer Additive in Barium Doped Methylammonium Lead Halide", **2019 JSAP The 80th Japan Society of Applied Physics Autumn Meeting (JSAP 2019)**, Sep. 18-21, Sapporo, Hokkaido University, Japan.
40. Yin-Hsuan Chang, Kai-Chi Hsiao, Krisztián Kordás, and Ming-Chung Wu*, "Peering into Carrier Transport Mechanism of Anatase/Rutile Core/Shell TiO₂ NFs Photocatalysts by Photo-Kelvin Probe Force Microscopy", **2019 JSAP The 80th Japan Society of Applied Physics Autumn Meeting (JSAP 2019)**, Sep. 18-21, Sapporo, Hokkaido University, Japan. (Oral Presentation)
41. Ying-Han Liao, and Ming-Chung Wu*, "Photophysics of Perovskite Solar Cells based on Sn-TiO₂ Electron Extraction Layer Revealed by Time-Resolved Photoluminescence Spectroscopy", **2019 JSAP The 80th Japan Society of Applied Physics Autumn Meeting (JSAP 2019)**, Sep. 18-21, Sapporo, Hokkaido University, Japan. (Oral Presentation)
42. Ming-Chung Wu*, Shun-Hsiang Chan, Shih-Hsuan Chen, Yen-Tung Lin, and Yin-Hsuan Chang, "High-Efficiency Perovskite Solar Cells by Modifying Zn-Doped TiO₂ Electron Extraction Layer", **2019 10th International Conference on Materials for Advanced Technologies (ICMAT 2019)**, June. 23-28, Marina Bay Sands, Singapore.
43. Ming-Chung Wu*, Shun-Hsiang Chan, and Yi-Ying Li, "High Performance and Long-Term Stability Lead-Reduced Perovskite Solar Cells Based on Mesoscopic Zn-TiO₂ Electron Transport Layer", **2019 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2019)**, Apr. 22-26, Phoenix, Arizona, United States.
44. Yin-Hsuan Chang, Kai-Chi Hsiao, Krisztián Kordás, and Ming-Chung Wu*, "Synthesis of Core-Shell Rutile/Anatase Heterojunction Titanium Dioxide for Efficient Photocarrier Separation and Enhanced Photocatalytic Performance", **2019 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2019)**, Apr. 22-26, Phoenix, Arizona, United States.

45. Shih-Hsuan Chen, [Ming-Chung Wu*](#), and Yen-Tung Lin, "High-Efficiency Perovskite Solar Cells Prepared by Low-Temperature Solution-Process for Commercialization", **2019 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2019)**, Apr. 22-26, Phoenix, Arizona, United States.
46. Chi-Hung Lin, Ting-Han Lin, Ching-Ting Chiu, and [Ming-Chung Wu*](#), "Construction Of 2D/1D g-C₃N₄/TiO₂ with Z-Scheme Heterostructure of Efficient Water Splitting", **2019 3rd International Workshop on Graphene and C₃N₄-based Photocatalysts (IWGCP3 2019)**, Mar. 23-26, Wuhan, China. **(Excellent Poster Award)**
47. Ting-Han Lin, Ying-Han Liao, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Sn Doping Effect on Crystal Structure of TiO₂ Electron Extraction Layer for Organometal Halide Perovskite Solar Cells", **2019 3rd International Workshop on Graphene and C₃N₄-based Photocatalysts (IWGCP3 2019)**, Mar. 23-26, Wuhan, China.
48. [Ming-Chung Wu*](#), Shun-Hsiang Chan, Ying-Han Liao, and Yi-Ying Li, "Enhancing the Performance of Perovskite Solar Cells by Modifying Lead-Reduced Perovskite Absorber and Metal-Doped TiO₂ Electron Extraction Layer", **2019 The 2nd International Conference on Advanced Energy Materials (ICAEM 2019)**, Jan. 23-26, Singapore. **(Oral Presentation)**

2018-

49. [Ming-Chung Wu*](#), Shun-Hsiang Chan, Ying-Han Liao, and Yin-Hsuan Chang, "Enhanced Performance of Perovskite Solar Cells Based on Lead-Reduced Perovskite Absorber and Metal-Doped TiO₂ Electron Extraction Layer", **2018 IUMRS-ICA The 19th International Union of Materials Research Societies International Conference in Asia (IUMRS-ICA 2018)**, Oct. 31- Nov. 04, Bali, Indonesia.
50. Yin-Hsuan Chang, Ting-Han Lin, Kuo-Ping Chiang, and [Ming-Chung Wu*](#), "Magnetic Separable Fe₃O₄/Ag/TiO₂ Nanofibers for Removal of Hexavalent Chromium", **2018 IUMRS-ICA The 19th International Union of Materials Research Societies International Conference in Asia (IUMRS-ICA 2018)**, Oct. 31- Nov. 04, Bali, Indonesia. **(Oral Presentation)**
51. Ying-Han Liao, Shun-Hsiang Chan, and [Ming-Chung Wu*](#), "Tuning Metal-Doped TiO₂ Electron Extraction Layer for High-Performance Perovskite Solar Cells", **2018 IUMRS-ICA The 19th International Union of Materials Research Societies International Conference in Asia (IUMRS-ICA 2018)**, Oct. 31- Nov. 04, Bali, Indonesia. **(Oral Presentation)**
52. Shan-Hsiang Chan, [Ming-Chung Wu*](#), Kun-Mu Lee, Shih-Hsuan Chen, Meng-Huan Jao, Yang-Fang Chen, and Wei-Fang Su "Enhanced Photovoltaic Characteristics of Perovskite Solar Cells Using Mesoscopic Zn-Doped TiO₂ as Electron Extraction Layer", **2018 ISOS-11 The 11th International Summit on Organic and Hybrid Photovoltaics Stability (ISOS-11 2018)**, Oct. 21-25, Suzhou, China.
53. Yen-Tung Lin, Shih-Hsuan Chen, and [Ming-Chung Wu*](#), "High-Efficiency Perovskite Solar Cells Prepared by Low-Temperature Solution-Process", **2018 JSAP The 79th Japan Society of Applied Physics Autumn Meeting (JSAP 2018)**, Sep. 18-21, Nagoya, Japan. **(Oral Presentation)** **[106-2221-E-182-057-MY3]**
54. Yi-Ying Li, Shan-Hsiang Chan, and [Ming-Chung Wu*](#), "High Performance Lead-Reduced Mixed-Cation Perovskite Solar Cells", **2018 JSAP The 79th Japan Society of Applied Physics Autumn Meeting (JSAP 2018)**, Sep. 18-21, Nagoya, Japan. **(Oral Presentation)**
55. Ching-Mei Ho, Shan-Hsiang Chan, and [Ming-Chung Wu*](#), "Fabrication of Lead-Free (CH₃NH₃)₃Bi₂I₉ Solar Cell Using Anti-Solvent Engineering Treatment", **2018 JSAP The 79th Japan Society of Applied Physics Autumn Meeting (JSAP 2018)**, Sep. 18-21, Nagoya, Japan. **(Oral Presentation)**
56. Chi-Hung Lin, Shan-Hsiang Chan, Ching-Ying Chiu, and [Ming-Chung Wu*](#), "Etching Effect on Electrospun Ag/QR/PMMA Freestanding Film for Volatile Organic Compounds Detection", **2018 JSAP The 79th Japan Society of Applied Physics Autumn Meeting (JSAP 2018)**, Sep. 18-21, Nagoya, Japan. **(Oral Presentation)**

57. [Ming-Chung Wu*](#), "Enhanced PCE of Perovskite Solar Cells by Tuning Perovskite-Structure Absorber and TiO₂-Based Electron Transport Layer", **2018 International Conference of Frontier Materials and Green Materials**, Aug 14, Taipei, Taiwan. (Invited Speaker)
58. [Ming-Chung Wu*](#), Tzu-Hao Lin, Shun-Hsiang Chan, Ying-Han Liao, and Yin-Hsuan Chang, "Enhanced Photovoltaic Performance of Perovskite Solar Cells Based on Alkaline Earth Metal-Doped Perovskite-structured Absorber and Metal-Doped TiO₂ Hole Blocking Layer", **2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)**, July 26-29, Wuhan, China. (Invited Speaker)
59. Ting-Han Lin, Kuo-Ping Chiang, and [Ming-Chung Wu*](#), "One-Pot Synthesis of Silver Oxide Nanoparticles Loaded TiO₂ Nanofibers and Its Synergistic Effect on Visible-Driven Photocatalytic Activity", **2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)**, July 26-29, Wuhan, China. (Excellent Poster Award)
60. Shih-Hsuan Chen, Shun-Hsiang Chan, Kun-Mu Lee, and [Ming-Chung Wu*](#), "Enhancing Efficiency of Mesoporous Structure Perovskite Solar Cells Using Ag-Doped TiO₂ as Electron Transport Layer", **2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)**, July 26-29, Wuhan, China.
61. Yin-Hsuan Chang, Ting-Han Lin, Kuo-Ping Chiang, and [Ming-Chung Wu*](#), "Recyclable Magnetic Fe₃O₄/Ag/TiO₂ Photocatalyst for Removing Hexavalent Chromium", **2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)**, July 26-29, Wuhan, China. (Excellent Poster Award)
62. Shun-Hsiang Chan, Shih-Hsuan Chen, Kun-Mu Lee, Wei-Fang Su, and [Ming-Chung Wu*](#), "High Power Conversion Efficiency of Perovskite Solar Cells Using Mesoscopic Zn-Doped TiO₂ as Electron Transport Layer", **2018 The 6th International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials (2018 ICCCI)**, July 9-12, Kurashiki, Japan. (Oral Presentation) 【106-2221-E-182-057-MY3】
63. Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Reusable Ag/Fe₃O₄-TiO₂ NFs for Photocatalytic Reduction of Hexavalent Chromium", **2018 The 6th International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials (2018 ICCCI)**, July 9-12, Kurashiki, Japan. (Oral Presentation)
64. Yu-Han Liao, Ting-Han Lin, Kou-Ping Chiang, and [Ming-Chung Wu*](#), "Preparation and Photocatalytic Performance of TiO₂/Cellulose Nanofibers Composite Film", **2018 The 6th International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials (2018 ICCCI)**, July 9-12, Kurashiki, Japan. (Oral Presentation)
65. Ying-Han Liao, Shun-Hsiang Chan, [Ming-Chung Wu*](#), and Wei-Fang Su, "Metal Doping Effects on TiO₂ Electron Transport Layer of Planar Perovskite-Structured Solar Cells", **2018 The 6th International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials (2018 ICCCI)**, July 9-12, Kurashiki, Japan.
66. Kou-Ping Chiang, Po-Yeh Wu, Yin-Hsuan Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "Enhanced Sunlight Photocatalytic Activity of Silver-Doped Titanium Dioxide Nanofiber", **2018 The 6th International Conference on the Characterization and Control of Interfaces for High Quality Advanced Materials (2018 ICCCI)**, July 9-12, Kurashiki, Japan.
67. [Ming-Chung Wu*](#), Tzu-Hao Lin, Shun-Hsiang Chan, Ying-Han Liao, and Yin-Hsuan Chang, "Enhanced PCE of Perovskite Solar Cells by Tuning Perovskite-Structured Absorber and TiO₂ Hole Blocking Layer", **2018 APAM The International Conference of Asia Pacific Academy of Materials (APAM 2018)**, June 19-22, Shenyang, China. (Invited Speaker)

68. Ming-Chung Wu*, Shun-Hsiang Chan, and Wei-Fang Su, "Using Barium Doped Methylammonium Lead Halide to Enhance the Performance of Perovskite-Structured Solar Cell", **2018 AEMC European Advanced Energy Materials and Technology Congress (AEMC 2018)**, Mar. 25-28, Stockholm, Sweden. (Oral Presentation)
69. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and Ming-Chung Wu*, "High Photocatalytic Ag/TiO₂ Nanofibers Prepared by Hydrothermal and a Simple Annealing Process in Air", **2018 AEMC European Advanced Energy Materials and Technology Congress (AEMC 2018)**, Mar. 25-28, Stockholm, Sweden. (Oral Presentation) 【106-2221-E-182-057-MY3】
70. Yin-Hsuan Chang, Kai-Chi-Hsiao, and Ming-Chung Wu*, "Core-Shell Heterojunction TiO₂ Nanofibers with High Photocatalytic Activity", **2018 AEMC European Advanced Energy Materials and Technology Congress (AEMC 2018)**, Mar. 25-28, Stockholm, Sweden. (Oral Presentation) 【106-2221-E-182-057-MY3】

2017-

71. Shun-Hsiang Chan, Ming-Chung Wu*, and Wei-Fang Su, "Enhancing Perovskite Solar Cell Performance by Doping Barium in Methylammonium Lead Halide", **2017 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2017)**, Nov. 26-Dec. 1, Boston, Massachusetts, United States.
72. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and Ming-Chung Wu*, "High Photocatalytic Performance of Ag-TiO₂ Nanofibers Prepared by Combining the Hydrothermal Synthesis and Simple Heat-Treatment in Air Atmosphere", **2017 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2017)**, Nov. 26-Dec. 1, Boston, Massachusetts, United States.
73. Yin-Hsuan Chang, Kai-Chi Hsiao, and Ming-Chung Wu*, "Photocatalytic Performance of Core-Shell Heterojunction TiO₂ Nanofibers", **2017 IUMRS-ICA International Union of Materials Research Societies International Conference in Asia (IUMRS 2017)**, Nov. 5-9, Taipei, Taiwan. (Oral Presentation)
74. Tzu-Hao Lin, Ming-Chung Wu*, Shun-Hsiang Chan, Ying-Han Liao, and Wei-Fang Su*, "Fabrication and Characteristics of Reduced Lead Perovskite Solar Cell", **2017 IUMRS-ICA International Union of Materials Research Societies International Conference in Asia (IUMRS 2017)**, Nov. 5-9, Taipei, Taiwan. (Excellent Poster Award)
75. Chih-Kuang Kao, Shun-Hsiang Chan, and Ming-Chung Wu*, "Tuning Morphological Structure of Ag/QRs/PMMA Blend Fibers to Enhance the Sensitivity of Volatile Organic Compounds", **2017 IUMRS-ICA International Union of Materials Research Societies International Conference in Asia (IUMRS 2017)**, Nov. 5-9, Taipei, Taiwan.
76. Ting-Han Lin, Ming-Pin Lin, Wei-Fang Su, and Ming-Chung Wu*, "Ag/SiO₂ Surface-Enhanced Raman Scattering Substrate Detection in Plasticizer", **2017 SSDM International Conference on Solid State Devices and Materials (SSDM 2017)**, Sep. 19-22, Sendai, Japan. (Oral Presentation) 【105-2221-E-182-011-】
77. Shun-Hsiang Chan, Ming-Chung Wu*, Shih-Hsuan Chen, Wei-Fang Su, and Chao-Sung Lai, "Using Aligned P3HT/PMMA Fibers to Detect Volatile Organic Compounds", **2017 SSDM International Conference on Solid State Devices and Materials (SSDM 2017)**, Sep. 19-22, Sendai, Japan.
78. Shih-Hsuan Chen, Shun-Hsiang Chan, Ming-Chung Wu*, Wei-Fang Su, and Chao-Sung Lai, "Detection of Volatile Organic Compounds by Using Aligned P3HT/PMMA Blend Fibrous Film", **2017 IEMDS International Electron Devices & Materials Symposium (IEMDS 2017)**, Sep. 6-8, Hsinchu, Taiwan.

79. Yu-Han Liao, Ting-Han Lin, Kou-Ping Chiang, [Ming-Chung Wu*](#), Ya-Wen Cheng, Chien-Hui Wu, Yu-Chen Chen, Po-Min Chen, and Wan-Tun Hung, "Highly Transparent Cellulose Nanofiber Flexible Substrate", **2017 IEMDS International Electron Devices & Materials Symposium (IEMDS 2017)**, Sep. 6-8, Hsinchu, Taiwan.
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