

Prof. Ming-Chung Wu of Chang Gung University (Update 2022/02/09)

International Conference Papers List

2021-

1. 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.
2. Yu-Hsiang Chang, Yen-Fu Yu, Kai-Chi Hsiao, Shih-Hsuan Chen, and [Ming-Chung Wu*](#), "Enhance Power Conversion Efficiency of Non-Toxic Rudorffites 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)**
3. 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.
4. 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.
5. 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.
6. 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.
7. 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-

8. 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)**
9. 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.
10. 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.

11. 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)**
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. [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)**
21. 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)**
22. 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)**

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23. 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.
24. [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.
25. 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.
26. 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)**
27. 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.
28. 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)**
29. 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.
30. 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.
31. 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)**
32. [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.
33. 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)**

34. 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)**
35. [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.
36. [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.
37. 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.
38. 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.
39. 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)**
40. 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.
41. [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-

42. [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.
43. 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)**
44. 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)**

45. 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.
46. 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]**
47. 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)
48. 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)
49. 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)
50. [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)
51. [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)
52. 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)
53. 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.
54. 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)
55. 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]**
56. 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)

57. 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)
58. 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.
59. 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.
60. 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)
61. 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)
62. 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]
63. 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-**
64. 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.
65. 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.
66. 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)
67. 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)

68. 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.
69. 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-]**
70. 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.
71. 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.
72. 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.
73. Shun-Hsiang Chan, [Ming-Chung Wu*](#), and Wei-Fang Su "Enhanced Power Conversion Efficiency of Perovskite Solar Cells Using CH₃NH₃Ba_{1-x}Pb_xI_{3-y}Cl_y as Active Layer" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation)
74. Wei-Kung Huang, Po-Yeh Wu, and [Ming-Chung Wu*](#), "Enhanced Photocatalytic Activity of Metal Decorated Hydrogenated TiO₂ NFs" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan.
75. Ting-Han Lin, Yu-Han Liao, Kou-Ping Chiang, [Ming-Chung Wu*](#), Ya-Wen Cheng, Chien-Hui Wu, Yu-Chen Chen, Po-Min Chen, and Wan-Tun Hung, "Fabrication and Characteristics of TiO₂ NFs/Cellulose NFs Composite Film" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation)
76. Shih-Hsuan Chen, Shun-Hsiang Chan, Chun-Fu Lu, Wei-Fang Su, and [Ming-Chung Wu*](#), "P3HT/PMMA Fibers Fabricated by Electrospinning Technique for High Sensitivity Volatile Organic Compounds Sensor" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation) **[105-2221-E-182-011-]**
77. Yin-Hsuan Chang, Ting-Han Lin, Po-Yen Wu, and [Ming-Chung Wu*](#), "High Photocatalytic Performance of Silver Doped Titanium Dioxide Nanofibers" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation)
78. Ying-Han Liao, Shun-Hsiang Chan, Tzu-Hao Lin, and [Ming-Chung Wu*](#), "Using Silver-Doped TiO₂ Electron Transport Layer to Enhance Photovoltaic Performance of Perovskite Structured Solar Cell" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation)
79. Yi-Ying Li, Yen-Tung Lin, and [Ming-Chung Wu*](#), "Synthesis and Photocatalytic Performance of Nickel-Decorated TiO₂ NFs" **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. (Oral Presentation)

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