Prof. Ming-Chung Wu of Chang Gung University (Update 2026/10/19)

International Conference Papers List

2026-

1. Hong-Yi Lin, Kai-Chi Hsiao, Shu-Chi Lu, Ting-Han Lin, Jia-Mao Chang, Kun-Mu Lee, and Ming-Chung Wu*, "Synthesis of Dual-Function Carbazole Modifiers for Accelerating Hole Transport and Passivating Defects in Perovskite Solar Cells", ***2026 SDSE 4nd International Conference on Smart Devices and Sustainable Energy (SDSE 2026)***, Oct. 14-16, New Taipei, Taiwan. **(Excellent Poster Award)**

2. Yi-Ming Yu, Yen-Chang Chen, Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, " Molecular Passivation of Interfacial Defects via Nicotinic Acid Derivatives for Efficient Perovskite Solar Cells", ***2026 SDSE 4nd International Conference on Smart Devices and Sustainable Energy (SDSE 2026)***, Oct. 14-16, New Taipei, Taiwan. **(Honorable Mentions Award)**

3. Kuan-Ying Wu, Jia-Mao Chang, Ting-Han Lin, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Near-Unity Solar CO_2-to-CH_4 Conversion Driven by a Floatable Topological Photothermal Plate", ***2026 SDSE 4nd International Conference on Smart Devices and Sustainable Energy (SDSE 2026)***, Oct. 14-16, New Taipei, Taiwan. **(Excellent Poster Award)**

4. Yen-Chang Chen, Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu*, "Balancing Lead Reduction and Device Performance through Barium Substitution in Perovskite Solar Cells", ***2026 IPS The 25th International conference on Photochemical Conversion and Storage of Solar Energy (IPS 2026)***, July. 12-17, Seoul, Korea. **(Oral Presentation)**

5. Yi-Ming Yu, Yen-Chang Chen, Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu*, "Molecular Passivation of Interfacial Defects in Perovskite Solar Cells Using Nicotinic Acid Derivatives", ***2026 IPS The 25th International conference on Photochemical Conversion and Storage of Solar Energy (IPS 2026)***, July. 12-17, Seoul, Korea. **(Oral Presentation)**

6. Pin-Hsuan Yeh, Jia-Mao Chang, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Cu-Doping Induces Sulfur Vacancies in SnS_2 Nanosheets for Synergistic Antibiotic Degradation and CO_2 Reduction", ***2026 JSAP The 73th Japan Society of Applied Physics Spring Meeting (JSAP 2026)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

7. Pei-Hsuan Lu, Jia-Mao Chang, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Photoreforming of Plastic Waste to Hydrogen Using Single-Atom Anchored Pt Decorated Graphitic Carbon Nitride", ***2026 JSAP The 73th Japan Society of Applied Physics Spring Meeting (JSAP 2026)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

8. Chen-Yang Tseng, Tzu-Chuan Yang, Ting-Han Lin, Karthekeyan Periasamy, Ming-Chung Wu, and Jer-Chyi Wang*, "Self-Powered Ultra-Violet Index Detection Using TiO_2-NFs-blended P(VDF-TrFE) Piezoelectric Nanogenerators", ***2026 JSAP The 73th Japan Society of Applied Physics Spring Meeting (JSAP 2026)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

2025-

9. Ming-Chung Wu*, Kai-Chi Hsiao, Chu-Liang Fu, Ting-Han Lin, Yin-Hsuan Chang, Yu-Ching Huang, Mu-Ping Nieh, Wei-Fang Su, and Mingda Li, "Giant Light-Matter Interaction Modulation via Semiconducting Matrix-DrivenQuantum Dot Coupling", ***2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)***, No. 30-Dec. 5, Boston, Massachusetts, United States of America.

10. Ting-Han Lin, Jia-Mao Chang, Yin-Hsuan Chang, and Ming-Chung Wu*, "Synergistic Integration of Carbonized Cellulose Nanofibers and Sulfur-Deficient Tin Disulfide Photocatalyst Sheets for Enhanced

Floatable Heterogeneous CO_2 Photoreduction", ***2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)***, No. 30-Dec. 5, Boston, Massachusetts, United States of America.

11. Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Photo-Assisted Kelvin Probe Force Microscopy for Probing Photoinduced Electronic Properties in CO_2 Photoreduction Materials", ***2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)***, No. 30-Dec. 5, Boston, Massachusetts, United States of America. **(Oral Presentation)**

12. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Floatable Hybrid Photothermal-Photocatalyst Sheet for Highly Selective Solar-Driven CO_2 to CH_4 via the Integration of Topological $Bi2_Se_3$ and $ZnIn_2S_4$ Photocatalysts", ***2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)***, No. 30-Dec. 5, Boston, Massachusetts, United States of America. **(Best Poster Award Nominee)**

13. Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu*, "Chelating Molecule-Assisted Interface Engineering for Enhanced Efficiency and Stability of Perovskite Solar Cells", ***2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)***, No. 30-Dec. 5, Boston, Massachusetts, United States of America.

14. Yen-Chang Chen, Ting-Han Lin, Yi-Ming Yu, and Ming-Chung Wu*, "Engineering Barium Substitution for Lead-Reduction Strategies in Perovskite Solar Cells", ***2025 NHSC The 14th Aseanian Conference on Nano Hybrid Solar Cells (NHSC 2025)***, Nov. 23-25, Hsinchu, Taiwan.

15. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, and Jia-Mao Chang, "Ultrasensitive Detection of Organic Analytes Using Self-Precipitated Au-Titanate Nanofiber SERS Substrates", ***2025 IEDMS International Electron Devices & Materials Symposium (IEDMS 2025)***, Oct. 30-31, Hsinchu, Taiwan.

16. Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, "Chelating Molecule-Mediated Interface Passivation in Defective Perovskites: A DFT Study on Carrier Recombination Suppression ", ***2025 IEDMS International Electron Devices & Materials Symposium (IEDMS 2025)***, Oct. 30-31, Hsinchu, Taiwan. **(Oral Presentation)**

17. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Engineering $BaTiO_3$/Ag-Doped TiO_2 Heterostructures for Synergistically Enhanced Piezo-Photocatalytic CO_2 Reduction", ***2025 IEDMS International Electron Devices & Materials Symposium (IEDMS 2025)***, Oct. 30-31, Hsinchu, Taiwan. **(Oral Presentation)**

18. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Floatable Photothermal-Photocatalyst Sheet for Highly Selective Solar-Driven Carbon Dioxide to Methane Conversion", ***2025 SDSE 3ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2025)***, Oct. 15-17, New Taipei, Taiwan.

19. Hong-Yi Lin, Yueh-Lin Lin, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, "Density Functional Theory Analysis of Chelating Molecule Passivation in Defective Perovskites: Implications for Efficiency Enhancement", ***2025 SDSE 3ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2025)***, Oct. 15-17, New Taipei, Taiwan. **(Excellent Poster Award)**

20. Ying-Han Liao, Ze-Han Wu, Jia-Mao Chang, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Bismuth Selenide/Silver Bismuth Iodide 2D/2D Heterostructure for Photocatalytic Carbon Dioxide Reduction", ***2025 WMC, WMS & IUMRS-ICA The 3rd World Materials Conference, The 9th World Materials Summit & International Union of Materials Research Societies International Conference in Asia (IUMRS-ICA 2025)***, Oct. 14-17, Guilin, China. **(High Level Poster Presentation)**

21. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Designing High Efficiency CO_2 Reduction Photocatalysts-Insights from a Photo-Assisted Kelvin Probe Force Microscopy

Study", ***2025 E-MRS European Materials Research Society Fall Meeting (E-MRS 2025)***, Sep. 15-18, Warsaw, Poland. **【NSTC-114-2923-E-182-001-MY3】**

22. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Designing High Efficiency CO_2 Reduction Photocatalysts-Insights from a Photo-Assisted Kelvin Probe Force Microscopy Study", ***2025 E-MRS European Materials Research Society Fall Meeting (E-MRS 2025)***, Sep. 15-18, Warsaw, Poland. **【NSTC-114-2923-E-182-001-MY3】**

23. Yin-Hsuan Chang, Shun-Hsiang Chan, Shih-Hsuan Chen, Kai-Chi-Hsiao, Ting-Han Lin, Ying-Han Liao, Hong-Yi Lin, and Ming-Chung Wu*, "Exploring the Maximum Barium Substitution at the Perovskite B-Site: Structural and Photovoltaic Implications in Hybrid Halide Perovskite Solar Cells", ***2025 E-MRS European Materials Research Society Fall Meeting (E-MRS 2025)***, Sep. 15-18, Warsaw, Poland.

24. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, and Jia-Mao Chang, "Revealing Photocatalytic Efficiency with Photo-Assisted Kelvin Probe Force Microscopy", ***2025 GCIM The 3rd Global Conference of Innovation Materials & MRS-K Spring Meeting (GCIM 2025)***, June. 16-19, Jeju, South Korea.

25. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Achieving High Selectivity for CO_2 Reduction to CH_4 through Photothermal-Photocatalysis with Topological Bi_2Se_3 and $ZnIn_2S_4$ Photocatalysts", ***2025 GCIM The 3rd Global Conference of Innovation Materials & MRS-K Spring Meeting (GCIM 2025)***, June. 16-19, Jeju, South Korea. **(Best Poster Award)** **【BMRPC74】**

26. Hong-Yi Lin, Ting-Han Lin, Kai-Chi Hsiao, Shu-Chi Lu, and Ming-Chung Wu*, "Strategic Passivation of Perovskite Layer Interfaces Using Multiple Functional Groups to Enhance Photovoltaic Performance", ***2025 GCIM The 3rd Global Conference of Innovation Materials & MRS-K Spring Meeting (GCIM 2025)***, June. 16-19, Jeju, South Korea. **【BMRPKC74】**

27. Ting-Han Lin, Jia-Mao Chang, Yu-Chi Peng, Yen-Chang Chen, Yin-Hsuan Chang, Kun-Mu Lee, and Ming-Chung Wu*, "Enhanced Hydrogen Production via Synergistic Photo-Piezocatalysis in $BaTiO_3/ZnIn_2S_4$ Heterostructures", ***2025 JSAP The 72th Japan Society of Applied Physics Spring Meeting (JSAP 2025)***, Mar. 14-17, Tokyo, Japan.

28. Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, Ciao-Yun Huang, and Ming-Chung Wu*, "Graphitic Carbon Nitride Nanosheets with Single-Atom Platinum for Efficient Hydrogen Generation via Plastic Photoreforming", ***2025 JSAP The 72th Japan Society of Applied Physics Spring Meeting (JSAP 2025)***, Mar. 14-17, Tokyo, Japan.

29. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Achieving High Selectivity for CO_2 Reduction to CH_4 through Photothermal-Photocatalysis with Topological Bi_2Se_3 and $ZnIn_2S_4$ Photocatalysts", ***2025 JSAP The 72th Japan Society of Applied Physics Spring Meeting (JSAP 2025)***, Mar. 14-17, Tokyo, Japan.

2024-

30. Ming-Chung Wu*, Ting-Han Lin, Jia-Mao Chang, Yin-Hsuan Chang, and Ying-Han Liao, "Designing High-Efficiency Photocatalysts—Insights from a Photo-Assisted Kelvin Probe Force Microscopy Study", ***2024 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2024)***, Dec. 1-6, Boston, Massachusetts, United States of America.

31. Ting-Han Lin, Jia-Mao Chang, Yu-Chi Peng, Yen-Chang Chen, Yin-Hsuan Chang, Kun-Mu Lee, and Ming-Chung Wu*, "Synergistic Enhancement of Hydrogen Production through Photo-Piezocatalytic $BaTiO_3/ZnIn_2S_4$ Heterostructures", ***2024 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2024)***, Dec. 1-6, Boston, Massachusetts, United States of America.

32. Yin-Hsuan Chang, "Photoreforming of Plastic Waste to Hydrogen Using Single-Atom Anchored Pt Decorated Graphitic Carbon Nitride", ***2024 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2024)***, Dec. 1-6, Boston, Massachusetts, United States of America. **(Oral Presentation)**

33. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Synergistic Photothermal and Photocatalytic Reduction of Carbon Dioxide to Methane via the Integration of Topological Bismuth Selenide and Zinc Indium Sulfide Photocatalysts", ***2024 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2024)***, Dec. 1-6, Boston, Massachusetts, United States of America. **(Best Poster Award Nominee)**

34. Ming-Chung Wu*, Ying-Hann Liao, Shun-Hsiang Chan, Shih-Hsuan Chen, Yuan-Yu Chiu, Yin-Hsuan Chang, Ting-Han Lin, and Kun-Mu Lee, "Predicting the Quality of Photovoltaic Materials in Lead-Reduced Perovskite Solar Cells Using Photo-Assisted Kelvin Probe Force System", ***2024 PVSEC-35 The 35rd International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)***, Nov. 10-15, Numazu, Japan.

35. Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, Kun-Mu Lee, and Ming-Chung Wu*, "Enhancing the Photovoltaic Conversion Efficiency of Perovskite Solar Cells through Interface Engineering Using Chelating Molecules", ***2024 PVSEC-35 The 35rd International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)***, Nov. 10-15, Numazu, Japan. **【BMRPC74】**

36. Shu-Chi Lu, Ting-Han Lin, Kun-Mu Lee, Tz-Feng Lin, and Ming-Chung Wu*, "Enhancement of Power Conversion Efficiency and Stability in Perovskite Solar Cells Using Long Carbon Chain Carbazole Derivatives", ***2024 PVSEC-35 The 35rd International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)***, Nov. 10-15, Numazu, Japan. **【NSTC-113-2922-I-182-029】**

37. Kuo-Ping Chiang, Jia-Mao Chang, Ting-Han Lin, and Ming-Chung Wu*, "Novel Nanoscale Silver Bismuth Iodide Co-Catalysts on Titanium Dioxide Nanofibers for Enhanced Photocatalytic CO_2 Reduction", ***2024 SDSE 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)***, Oct. 16-18, New Taipei, Taiwan.

38. Hong-Yi Lin, Shu-Chi Lu, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, "Strategic Passivation of Perovskite Layer Interfaces Using Multiple Functional Groups to Enhance Photovoltaic Performance", ***2024 SDSE 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)***, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions Award)**

39. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Synergistic CO_2-to-CH_4 Conversion via Photothermal and Photocatalytic Integration of Topological BizSes and ZnInS Photocatalysts", ***2024 SDSE 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)***, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions)**

40. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Construction of BaTiO/Ag-Doped TiO_2 Heterostructures to Enhance Carbon Dioxide Reduction Reaction via Synergistic Piezo-Photocatalysis", ***2024 SDSE 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)***, Oct. 16-18, New Taipei, Taiwan. **(Second Award)**

41. Hao-Yun Yu, Ting-Hung Hsieh, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Advanced Fibrous Sensing Materials for Non-Invasive Detection of Acetone Vapor and CO_2 Gas via Electrospinning Technique ", ***2024 SDSE 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)***, Oct. 16-18, New Taipei, Taiwan.

42. Yin-Hsuan Chang, Ciao-Yun Huang, Ting-Han Lin, Jia-Mao Chang, and Ming-Chung Wu*, "Single-Atom Platinum Anchored Graphitic Carbon Nitride Nanosheets for Photoreforming Plastic to Hydrogen", ***2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)***, Sep. 16-20, Niigata, Japan. **(Oral Presentation)**

43. Kuo-Ping Chiang, Jia-Mao Chang, Ting-Han Lin, and Ming-Chung Wu*, "Novel Nanoscale Silver Bismuth Iodide Co-Catalyst on Titanium Dioxide Nanofibers for Enhanced Photocatalytic CO_2 Reduction", ***2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)***, Sep. 16-20, Niigata, Japan. **【BMRPC74】**

44. Yen-Chang Chen, Ting-Han Lin, Kuo-Ping Chiang, Jia-Mao Chang, and Ming-Chung Wu*, "Boosting CO_2 Reduction Reaction via Synergistic Photo-Piezocatalysis in Ag-Doped $BaTiO_3/TiO_2$ Heterostructures", ***2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)***, Sep. 16-20, Niigata, Japan. **(Oral Presentation)**

45. Tzu-Chuan Yang, Tzu-Wei Hsu, Ting-Han Lin, Ming-Chung Wu, and Jer-Chi Wang*, "High Efficient Piezoelectric Nanogenerators with TiO_2-NFs-Doped P(VDF-TrFE) Copolymers via Ultrviolet Thermal Annealing", ***2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)***, Sep. 16-20, Niigata, Japan. **(Oral Presentation)**

46. Ming-Chung Wu*, Yin-Hsuan Chang, Yuan-Yu Chiu, Shih-Hsuan Chen, Ying-Han Liao, and Shun-Hsiang Chan, "Lead-Reduced Halide Perovskite Solar Cells-Predicting the Quality of Photovoltaic Materials with Photo-Assisted Kelvin Probe Force System", ***2024 E-MRS European Materials Research Society Spring Meeting (E-MRS 2024)***, May. 27-31, Strasbourg, France. **(Oral Presentation)**

47. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jia-Mao Chang, Ying-Han Liao, and Ming-Chung Wu*, "Surface-Enhanced Raman Scattering Detection Platform by Using Self-Precipitation Au Nanoparticles on TiO_2 Nanofibers", ***2024 E-MRS European Materials Research Society Spring Meeting (E-MRS 2024)***, May. 27-31, Strasbourg, France.

48. Ming-Chung Wu*, Shih-Hsuan Chen, Shun-Hsiang Chan, Yuan-Yu Chiu, Ting-Han Lin, Yin-Hsuan Chang, Ying-Han Liao, and Ku-Mun Lee*, "Lead-Reduced Halide Perovskite Solar Cells-Predicting the Quality of Photovoltaic Materials with Photo-Assisted Kelvin Probe Force System", ***2024 IC ME&D The 34th International Conference on Molecular Electronics and Devices (IC ME&D 2024)***, May. 9-10, Pohang, Korea.

49. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jia-Mao Chang, and Ming-Chung Wu*, "A Facile Platform for Surface-Enhanced Raman Scattering Detection by Self-Precipitation Au Nanoparticles on TiO_2 Nanofibers", ***2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)***, Mar. 22-25, Tokyo, Japan. **(Oral Presentation)**

50. Ze-Han Wu, Jia-Mao Chang, Ting-Han Lin, and Ming-Chung Wu*, "Construction of 2D/2D Bi_2Se_3/SBI Topological Heterostructure for Photocatalytic Degradation of Organic Pollutants", ***2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)***, Mar. 22-25, Tokyo, Japan.

51. Wei-Zhe Lin, Kai-Chi Hsiao, Ting-Han Lin, Kuo-Ping Chiang, and Ming-Chung Wu*, "Development of Heat-Resistant Naphthalene-Based Epoxy Resin with Ag-TiO_2 Nanocomposite for Enhanced Surface Hydrophilicity in Coatings", ***2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)***, Mar. 22-25, Tokyo, Japan.

52. Hong-Yi Lin, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, "Enhancing the Power Conversion Efficiency of Perovskite Solar Cells through A Chelating Molecules-Based Strategy", ***2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)***, Mar. 22-25, Tokyo, Japan. **(Oral Presentation)**

53. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, and Ming-Chung Wu*, "Enhanced Photo-Piezocatalytic Performance through Synergistic Effects for Silver-Modified $BaTiO_3/TiO_2$ Heterostructure", ***2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)***, Mar. 22-25, Tokyo, Japan. **(Poster Award)**

2023-

54. Ming-Chung Wu*, "Lead-Reduced Halide Perovskite Solar Cells with Photo-Assisted Kelvin Probe Microscopy", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America. (**Invited Speaker**)

55. Ming-Chung Wu*, Kai-Chi Hsiao, Yin-Hsuan Chang, Jia-Mao Chang, and Ting-Han Lin, "Characterization of Ag_3BiI_6 Rudorffite Absorber for Ambient-Air-Stable, Lead-Free, and Efficiency Solar Cells through Scanning Analyzer", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America.

56. Ming-Chung Wu*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Optimizing CO_2 Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films through Incident Light Modulation and Integration of Gold Nanoparticles", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America.

57. Ting-Han Lin, Jia-Mao Chang, Yi-Lin Wang, Kai-Chi Hsiao, Kun-Mu Lee, and Ming-Chung Wu*, "Exploring Photo-Piezocatalysis in Heterostructured Barium Titanate and Titanium Dioxide: Insights from Photo-Triggered Contact Potential Differences", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America.

58. Yin-Hsuan Chang, Rei-Yang Li, Ying-Han Liao, Ting-Han Lin, and Ming-Chung Wu*, "Machine Learning-Based Prediction of Crystal Structure Proportions in Ag-TiO_2 Nanofibers for Enhanced Photocatalytic Activity", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America. **【BMRPC74】**

59. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, Kai-Chi Hsiao, and Ming-Chung Wu*, "Gas-Solid Phase Reaction-Driven CO_2 Reduction: Exploring the Photocatalytic Potential of Silver-Bismuth-Iodide Rudorffite", ***2023 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2023)***, Nov. 26-Dec. 1, Boston, Massachusetts, United States of America.

60. Yu-Chi Peng, Kuo-Ping Chiang, Yen-Chang Chen, Jia-Mao Chang, Ting-Han Lin, and Ming-Chung Wu*, "Enhanced Solar-Driven Photocatalytic Hydrogen Production through Incorporation of $ZnIn_2S_4$ with $BaTiO_3$ Piezocatclyst", ***2023 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2023)***, Nov. 17-20, Hsinchu, Taiwan.

61. Yen-Chang Chen, Jia-Mao Chang, Ting-Han Lin, Yi-Lin Wang, and Ming-Chung Wu*, "Construction of $BaTiO_3/TiO_2$ Heterostructures through Varied TiO_2 Templates for Enhanced Piezocatalytic Performance", ***2023 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2023)***, Nov. 17-20, Hsinchu, Taiwan.

62. Ming-Chung Wu*, Ying-Han Liao, Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, Shan-Hsiang Chan, Yu-Ching Huang, and Kun-Mu Lee, "High-Performance Perovskite Solar Cells Based on Various Metal-Doped TiO_2 Electron Transport Layer", ***2023 PVSEC-34 The 34rd International Photovoltaic Science and Engineering Conference (PVSEC-34 2023)***, Nov. 6-10, Shenzhen, China.

63. Ying-Han Liao, Kai-Chi Hsiao, Ching-Mei Ho, Ting-Han Lin, Shih-Hsuan Chen, Yin-Hsuan Chang, Jao-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", ***2023 PVSEC-34 The 34rd International Photovoltaic Science and Engineering Conference (PVSEC-34 2023)***, Nov. 6-10, Shenzhen, China. **【BMRPC74】**

64. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, Ting-Han Lin, Ming-Chung Wu*, and Kai-Hsiang Hsu*, "Electrospun Nanocomposite Fibers for Exhaled Breath Biomarker Detection", ***2023 IEDMS International Electron Devices & Materials Symposium (IEDMS 2023)***, Oct. 19-20, Kaohsiung, Taiwan.

65. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jao-Mao Chang, and Ming-Chung Wu*, "Self-Precipitation Au Nanoparticles on TiO_2 Nanofibers for Surface-Enhanced Raman Scattering Detection", ***2023 IEDMS International Electron Devices & Materials Symposium (IEDMS 2023)***, Oct. 19-20, Kaohsiung, Taiwan.

66. Ming-Chung Wu*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, and Ting-Han Lin, "Enhancing CO_2 Photoreduction via Incident Light Modulation in Silver Bismuth Iodide/Nanocellulose Films and the Integration of Gold Nanoparticles", ***2023 JSAP The 84th Japan Society of Applied Physics Autumn Meeting (JSAP 2023)***, Sep. 19-23, Kumamoto, Japan.

67. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jia-Mao Chang, and Ming-Chung Wu*, "Surface Self-Precipitation Au Nanoparticles on TiO_2 Nanofibers for Surface-Enhanced Raman Scattering Detection of Environmental Hazards", ***2023 JSAP The 84th Japan Society of Applied Physics Autumn Meeting (JSAP 2023)***, Sep. 19-23, Kumamoto, Japan.

68. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, Kai-Chi Hsiao, and Ming-Chung Wu*, "Exploring Photo-Piezocatalysis in Heterostructured Barium Titanate and Titanium Dioxide: Insights from Photo-Triggered Contact Potential Differences", ***2023 JSAP The 84th Japan Society of Applied Physics Autumn Meeting (JSAP 2023)***, Sep. 19-23, Kumamoto, Japan. **(Oral Presentation)**

69. Ting-Han Lin, Kuo-Ping Chiang, Jia-Mao Chang, Kun-Mu Lee, and Ming-Chung Wu*, "Multidimensional Ternary Heterostructured Self-Precipitated Ag Nanoparticles on TiO_2@$SrTiO_3$ for Photoreforming of Plastics Face Mask to Hydrogen", ***2023 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2023)***, Apr. 10-15, San Francisco, California, United States of America. **【BMRPC74】**

70. Kai-Chi Hsiao, Ting-Han Lin, Wei-Fang Su, and Ming-Chung Wu*, "Chloride Gradient Renders Carrier Extraction of Hole for High V_{oc} and Efficient Inverted Organometal Halide Perovskite Solar Cell", ***2023 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2023)***, Apr. 10-15, San Francisco, California, United States of America.

71. Yin-Hsuan Chang, Shih-Hsuan Chen, Ching-Mei Ho, Shun Hsiang Chan, Ying-Han Liao, and Ming-Chung Wu*, "Mechanism Study of High Efficiency Perovskite Solar Cells Based on Planar or Mesoporous Metal-Doped TiO_2 Electron Extraction Layer", ***2023 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2023)***, Apr. 10-15, San Francisco, California, United States of America.

72. Jia-Mao Chang, Kai-Chi Hsiao, Ching-Mei Ho, Shun-Hsiang Chan, Kun-Mu Lee, and Ming-Chung Wu*, "Realize the Counterbalance Between Sustainability And Photovoltaic Performance of Organometal Halide Perovskite Solar Cell", ***2023 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2023)***, Apr. 10-15, San Francisco, California, United States of America.

73. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, Ting-Han Lin, and Ming-Chung Wu*, "Electrospun Sensing Materials for Monitoring Exhaled Diabetes Biomarker", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

74. Ying-Han Liao, Shih-Hsuan Chen, Ching-Mei Ho, Shun-Hsiang Chan, and Ming-Chung Wu*, "Interface Engineering for Achieving Efficient and Low Hysteretic Behavior Perovskite Solar Cells Based on TiO_2 Mesopores Electron Extraction Layer", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

75. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Silver Bismuth Iodide Rudorffite for Photocatalytic CO_2 Reduction", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**

76. Yuan-Yu Chiu, Kai-Chi Hsiao, Ching-Mei Ho, Shih-Hsuan Chen, and Ming-Chung Wu*, "2-Chloroethyl Vinyl Ether Chain-Grafted Carbazole Derivatives Interlayer Enhances Power Conversion Efficeincy of

Perovskite Solar Cells", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan.

77. Ting-Hung Hsieh, Kai-Chi Hsiao, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Electrospun Ag/PVP/PMMA Porous Nanofibers for Monitoring Exhaled Diabetes Biomarker", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan.

78. Yi-Lin Wang, Jia-Mao Chang, Ting-Han Lin, and Ming-Chung Wu*, "$BaTiO_3/TiO_2$ Nanocomposite for Piezo-Photocatalytic Wastewater Treatment", ***2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)***, Mar. 15-18, Tokyo, Japan.

2022-

79. 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.

80. 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.

81. 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.

82. 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)**

83. 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 TiO_2 Electron Extraction Layer", ***2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)***, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**

84. 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.

85. 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-

86. 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 CO_2 Reduction", ***2021 IEDMS International Electron Devices & Materials Symposium (IEDMS 2021)***, Nov. 18-19, Kaohsiung, Taiwan.

87. 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)**

88. Tien-Hao Chen, Ting-Han Lin, and Ming-Chung Wu*, "Synthesis of Sulfur-Vacancy Defects on SnS_2/Carbonized CNF Nanocomposite Film for Photocatalytic Application", ***2021 IEDMS International Electron Devices & Materials Symposium (IEDMS 2021)***, Nov. 18-19, Kaohsiung, Taiwan.

89. 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.

90. Kou-Ping Chiang, Ting-Han Lin, Yin-Hsuan Chang, Jia-Mao Chang, Kai-Chi Hsiao, and Ming-Chung Wu*, "Enhanced Photocatalytic CO_2 Reduction Activity of Silver-Bismuth Iodide Decorated TiO_2 NFs by Chemical Vapor Deposition", ***2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021)***, Nov. 13-17, Virtual Conference.

91. 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 CO_2 Reduction", ***2021 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2021)***, Nov. 13-17, Virtual Conference.

92. 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-

93. 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)**

94. 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.

95. 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.

96. 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)**

97. 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.

98. 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.

99. Yen-Fu Yu, Shih-Hsuan Chen, and Ming-Chung Wu*, "Improved the Photovoltaic Performance of Ag_3BiI_6 Solar Cells by Band Alignment Engineering", ***2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)***, Oct. 15-16, Taoyuan, Taiwan.

100. 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.

101. Ya-Ting Chan, Yi-Pei Jiang, Yi Fu, Ming-Chung Wu, Kuo-Hsuan Chang, and Jer-Chyi Wang*, "Effects of Electrode Materials on SiO_2 Nanoparticle Incorporated Ionic Liquid/Poly(Vinylidene Fluoride) Actuators", ***2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)***, Oct. 15-16, Taoyuan, Taiwan.

102. 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.

103. 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.

104. Ishita Chakraborty, Ming-Chung Wu, and Chao-Sung Lai*, "PDMS@TiO_2 NPs Composite Based High Performance TENG", ***2020 IEDMS International Electron Devices & Materials Symposium (IEDMS 2020)***, Oct. 15-16, Taoyuan, Taiwan.

105. 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 TiO_2 Photocatalysts", ***2020 CCE IV International Conference on Catalysis and Chemical Engineering (CCE 2020)***, Feb. 24-26, Los Angeles, California, United States of America. **(Oral Presentation)**

106. Ting-Han Lin, Yin-Hsuan Chang, Ching-Ting Chiu, and Ming-Chung Wu*, "Construction of 2D/1D g-C_3N_4/TiO_2 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 States of America. **(Oral Presentation)**

107. 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 States of America. **(Oral Presentation)**

2019-

108. 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 States of America.

109. 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 TiO_2 Electron Extraction Layer", ***2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)***, Dec. 1-6, Boston, Massachusetts, United States of America.

110. 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 States of America.

111. Ting-Han Lin, Yu-Han Liao, Yin-Hsuan Chang, and Ming-Chung Wu*, "Hierarchically Cellulose Nanofiber/TiO_2 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)**

112. 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.

113. 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**)

114. 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.

115. 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.

116. 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)**

117. 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.

118. Yin-Hsuan Chang, Kai-Chi Hsiao, Krisztián Kordás, and Ming-Chung Wu*, "Peering into Carrier Transport Mechanism of Anatase/Rutile Core/Shell TiO_2 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)**

119. Ying-Han Liao, and Ming-Chung Wu*, "Photophysics of Perovskite Solar Cells based on Sn-TiO_2 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)**

120. 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 TiO_2 Electron Extraction Layer", ***2019 10th International Conference on Materials for Advanced Technologies (ICMAT 2019)***, June. 23-28, Marina Bay Sands, Singapore.

121. 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-TiO_2 Electron Transport Layer", ***2019 MRS***

Materials Research Society Spring Meeting & Exhibit (MRS 2019), Apr. 22-26, Phoenix, Arizona, United States of America.

122. 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 of America.

123. 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 of America.

124. Chi-Hung Lin, Ting-Han Lin, Ching-Ting Chiu, and Ming-Chung Wu*, "Construction 0f 2D/1D g-C_3N_4/TiO_2 with Z-Scheme Heterostructure of Efficient Water Splitting", ***2019 3rd International Workshop on Graphene and C_3N_4-based Photocatalysts (IWGCP3 2019)***, Mar. 23-26, Wuhan, China. **(Excellent Poster Award)**

125. Ting-Han Lin, Ying-Han Liao, Yin-Hsuan Chang, and Ming-Chung Wu*, "Sn Doping Effect on Crystal Structure of TiO_2 Electron Extraction Layer for Organometal Halide Perovskite Solar Cells", ***2019 3rd International Workshop on Graphene and C_3N_4-based Photocatalysts (IWGCP3 2019)***, Mar. 23-26, Wuhan, China.

126. 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 TiO_2 Electron Extraction Layer", ***2019 The 2rd International Conference on Advanced Energy Materials (ICAEM 2019)***, Jan. 23-26, Singapore. **(Oral Presentation)**

2018-

127. 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 TiO_2 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.

128. Yin-Hsuan Chang, Ting-Han Lin, Kuo-Ping Chiang, and Ming-Chung Wu*, "Magnetic Separable Fe_3O_4/Ag/TiO_2 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)**

129. Ying-Han Liao, Shun-Hsiang Chan, and Ming-Chung Wu*, "Tuning Metal-Doped TiO_2 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)**

130. 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 TiO_2 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.

131. 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】**

132. 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)**

133. Ching-Mei Ho, Shan-Hsiang Chan, and Ming-Chung Wu*, "Fabrication of Lead-Free $(CH_3NH_3)_3Bi_2I_9$ 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)**

134. 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)**

135. Ming-Chung Wu*, "Enhanced PCE of Perovskite Solar Cells by Tuning Perovskite-Structure Absorber and TiO_2-Based Electron Transport Layer", ***2018 International Conference of Frontier Materials and Green Materials***, Aug 14, Taipei, Taiwan. **(Invited Speaker)**

136. 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 TiO_2 Hole Blocking Layer", ***2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)***, July 26-29, Wuhan, China. **(Invited Speaker)**

137. Ting-Han Lin, Kuo-Ping Chiang, and Ming-Chung Wu*, "One-Pot Synthesis of Silver Oxide Nanoparticles Loaded TiO_2 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)**

138. Shih-Hsuan Chen, Shun-Hsiang Chan, Kun-Mu Lee, and Ming-Chung Wu*, "Enhancing Efficiency of Mesoporous Structure Perovskite Solar Cells Using Ag-Doped TiO_2 as Electron Transport Layer", ***2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)***, July 26-29, Wuhan, China.

139. Yin-Hsuan Chang, Ting-Han Lin, Kuo-Ping Chiang, and Ming-Chung Wu*, "Recyclable Magnetic Fe_3O_4/Ag/TiO_2 Photocatalyst for Removing Hexavalent Chromium", ***2018 Chinese Symposium on Photocatalytic Materials (2018 CSPM1)***, July 26-29, Wuhan, China. **(Excellent Poster Award)**

140. 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】**

141. Yin-Hsuan Chang, and Ming-Chung Wu*, "Reusable Ag/Fe_3O_4-TiO_2 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)**

142. Yu-Han Liao, Ting-Han Lin, Kou-Ping Chiang, and Ming-Chung Wu*, "Preparation and Photocatalytic Performance of TiO_2/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)**

143. 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.

144. 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.

145. 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 TiO_2 Hole Blocking Layer", ***2018 APAM The International Conference of Asia Pacific Academy of Materials (APAM 2018)***, June 19-22, Shenyang, China. **(Invited Speaker)**

146. 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)**

147. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and Ming-Chung Wu*, "High Photocatalytic Ag/TiO_2 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】**

148. Yin-Hsuan Chang, Kai-Chi-Hsiao, and Ming-Chung Wu*, "Core-Shell Heterojunction TiO_2 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-

149. 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 of America.

150. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and Ming-Chung Wu*, "High Photocatalytic Performance of Ag-TiO_2 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 of America.

151. Yin-Hsuan Chang, Kai-Chi Hsiao, and Ming-Chung Wu*, "Photocatalytic Performance of Core-Shell Heterojunction TiO_2 Nanofibers", ***2017 IUMRS-ICA International Union of Materials Research Societies International Conference in Asia (IUMRS 2017)***, Nov. 5-9, Taipei, Taiwan. **(Oral Presentation)**

152. 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)**

153. 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.

154. Ting-Han Lin, Ming-Pin Lin, Wei-Fang Su, and Ming-Chung Wu*, "Ag/SiO_2 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-】**

155. 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.

156. 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.

157. 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.

158. Shun-Hsiang Chan, Ming-Chung Wu*, and Wei-Fang Su "Enhanced Power Conversion Efficiency of Perovskite Solar Cells Using $CH_3NH_3Ba_{1-x}Pb_xI_{3-y}Cl_y$ as Active Layer", ***2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)***, Sep. 5-8, Fukuoka, Japan. **(Oral Presentation)**

159. 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.

160. 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 TiO_2 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)**

161. 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-】**

162. 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)**

163. Ying-Han Liao, Shun-Hsiang Chan, Tzu-Hao Lin, and Ming-Chung Wu*, "Using Silver-Doped TiO_2 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)**

164. 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)**

165. Yin-Hsuan Chang, Kai-Chi Hsiao, Po-Yeh Wu, Shun-Hsiang Chan, and Ming-Chung Wu*, "Photocatalytic Hydrogen Production of Palladium Nanoparticles Decorated Black TiO_2 Calcined in Argon Atmosphere", ***2017 IWGCP2 2nd International Workshop on Graphene and C_3N_4-Based Photocatalysts (IWGCP2 2017)***, Mar. 24-27, Wuhan, China.

166. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and Ming-Chung Wu*, "High Photocatalytic Performance of Ag/TiO_2 Nanofibers:Photodegradation of Organic Dye and Photocatalytic H_2 Generation", ***2017 IWGCP2 2nd International Workshop on Graphene and C_3N_4-Based Photocatalysts (IWGCP2 2017)***, Mar. 24-27, Wuhan, China. **(Best Poster Award)**

167. Kuo-Ping Chiang, Po-Yeh Wu, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Copper Doping Effects on Photocatalytic Properties of TiO_2 NFs", ***2017 IWGCP2 2nd International Workshop on Graphene and C_3N_4-Based Photocatalysts (IWGCP2 2017)***, Mar. 24-27, Wuhan, China.

168. Shun-Hsiang Chan, Ming-Chung Wu*, Tzu-Hao Lin, and Wei-Fang Su, "Enhanced Perovskite Solar Cells Performance Based on Barium Insertion in Methylammonium Lead Halide", ***2017 MCARE Materials Challenges in Alternative and Renewable Energy (MCARE 2017)***, Feb. 20-24, Jeju Island, Korea. **(Oral Presentation)** **【NERPD2F0021(MOST105-2221-E-182-011)】**

169. Tzu-Hao Lin, Ming-Chung Wu*, Shun-Hsiang Chan, Wei-Cheng Chen, Meng-Huan Jao, and Wei-Fang Su, "Calcium-Doped Perovskite Materials for Perovskite Photovoltaics", ***2017 MCARE Materials Challenges in Alternative and Renewable Energy (MCARE 2017)***, Feb. 20-24, Jeju Island, Korea. **(Oral Presentation)** **【NERPD2F0021(MOST105-2221-E-182-011)】**

170. Chih-Kuang Kao, Shun-Hsiang Cha, and Ming-Chung Wu*, "High Sensitivity Volatile Organic Compounds Sensor Made by Electrospinning Methyl Red/Poly (Methyl Methacrylate) Fibers", ***2017 MCARE Materials Challenges in Alternative and Renewable Energy (MCARE 2017)***, Feb. 20-24, Jeju Island, Korea. **(Best Poster Award)** **【NERPD2F0021(MOST105-2221-E-182-011)】**

171. Ying-Han Liao, Shun-Hsiang Chan, Tzu-Hao Lin, and Ming-Chung Wu*, "Silver-Doped TiO_2 Compact Layer Enhanced Photovoltaic Performance of Perovskite Solar Cells", ***2017 SICEAS Seoul International Conference on Engineering and Applied Sciences (SICEAS 2017)***, Feb. 7-9, Seoul, Korea. **(Oral Presentation)** **【NERPD2F0021(MOST105-2221-E-182-011)】**

172. Yu-Han Liao, Po-Yeh Wu, Ting-Han Lin, and Ming-Chung Wu*, "Visible Light Active Silver-Ion Doped TiO_2 Photocatalyst", ***2017 SICEAS Seoul International Conference on Engineering and Applied Sciences (SICEAS 2017)***, Feb. 7-9, Seoul, Korea. **(Oral Presentation)** **【NERPD2F0021(MOST105-2221-E-182-011)】**

173. Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Bismuth Doping Effect on Crystal Structure and Photocatalytic Activity of Bismuth-TiO_2 Nanoparticles", ***2017 SICEAS Seoul International Conference on Engineering and Applied Sciences (SICEAS 2017)***, Feb. 7-9, Seoul, Korea. **(Oral Presentation)**. **【NERPD2F0021(MOST105-2221-E-182-011)】**

2016-

174. Shun-Hsiang Chan, Ming-Chung Wu*, Meng-Huan Jao, and Wei-Fang Su, "Enhanced Power Conversion Efficiency of Perovskite Solar Cell Based on Zinc-Doped TiO_2 Electron Transport Layer", ***2016 NGSC International Symposium on Next-Generation Solar Cells and Soar Energy Conversion (NGSC 2016)***, Nov. 21-24, Hsinchu, Taiwan. **【NERPD2F0021(MOST105-2221-E-182-011)】**

175. Tzu-Hao Lin, Ming-Chung Wu*, Shun-Hsiang Chan, Wei-Cheng Chen, Meng-Huan Jao, and Wei-Fang Su, "Ca-Doped Perovskite Solar Materials for Perovskite Photovoltaic", ***2016 NGSC International Symposium on Next-Generation Solar Cells and Soar Energy Conversion (NGSC 2016)***, Nov. 21-24, Hsinchu, Taiwan. **【NERPD2F0021(MOST105-2221-E-182-011)】**

176. Ting-Han Lin, Kai-Chi Hsiao, Jyun-Sian Chih, Po-Yeh Wu, Tz-Feng Lin, and Ming-Chung Wu*, "Photocatalytic Performance of Multi-Morphological Nb-doped TiO_2 Nanofibers", ***2016 International Conference on Solid State Devices and Material (SSDM 2016)***, Sep. 26-29, Tsukuba, Japan. **【NERPD2F0021(MOST105-2221-E-182-011)、QCRPD602】**

177. Yin-Hsuan Chang, Kai-Chi Hsiao, Ting-Han Lin, Po-Yeh Wu, Yu-Kai Tseng, Tz-Feng Lin, and Ming-Chung Wu*, "Bismuth Doping Effect on Structural and Photocatalytic Activity of Bi-Doped TiO_2 Nanoparticles ", ***2016 International Conference on Solid State Devices and Material (SSDM 2016)***, Sep. 26-29, Tsukuba, Japan. **【NERPD2F0021(MOST105-2221-E-182-011)、QCRPD602】**

178. Tzu-Hao Lin, Ming-Chung Wu*, Shun-Hsiang Chan, Wei-Cheng Chen, Meng-Huan Jao, and Wei-Fang Su, "Ca-Doped Perovskite Solar Materials for high-Efficiency Hybrid Solar Cells", ***26th IUPAC Symposium on Photochemistry (IUPAC 2016)***, Apr. 3-8, Osaka, Japan. **(Oral Presentation)【BMRPC74】**

179. Shun-Hsiang Chan, Ming-Chung Wu*, Meng-Huan Jao, and Wei-Fang Su, "Enhanced Power Conversion Efficiency of Perovskite Solar Cell Based on Zinc-Doped TiO_2 Electron Transport Layer", ***26th IUPAC Symposium on Photochemistry (IUPAC 2016)***, Apr. 3-8, Osaka, Japan. **(Oral Presentation)【BMRPC74】**

180. Ming-Chung Wu*, Po-Yeh Wu, Ching-Hsiang Chen, Wei-Kang Huang, Kai-Chi Hsiao, Shun-Hsiang Chan, Ting-Han Lin, Kun-Mu Lee, and Wei-Fang Su, "Hydrogenated TiO_2 Nanofibers with High Solar-Light-Assisted Photocatalytic Performance", ***5th International Solvothermal and Hydrothermal Association Conference (ISHA 2016)***, Jan. 17-20, Tainan, Taiwan. **【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

181. Ming-Chung Wu*, Wei-Cheng Chen, Wei-Kang Huang, and Ting-Han Lin, "Photocatalytic Performance of Metal Nanoparticles Decorated Hydrogenated TiO_2 Nanofibers", ***5th International Solvothermal and Hydrothermal Association Conference (ISHA 2016)***, Jan. 17-20, Tainan, Taiwan. **(Oral Presentation)【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

2015-

182. Ming-Chung Wu*, Kai-Chi Hsiao, Po-Yeh Wu, Wei-Kang Huang, and Ting-Han Lin, "Enhanced Visible-Light-Active Photocatalytic Performance of Black TiO_2 Nanoparticles", ***2015 World Conference on Innovation, Engineering, and Technology (IET 2015)***, Sep. 8-10, Kyoto, Japan. **(Oral Presentation)【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

183. Ming-Chung Wu*, Wei-Kang Huang, and Ting-Han Lin, "Photocatalytic Performance of Metal Nanoparticles Decorated Hydrogenated Titanium Dioxide Nanofibers", ***2015 World Conference on Innovation, Engineering, and Technology (IET 2015)***, Sep. 8-10, Kyoto, Japan. **(Oral Presentation)【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

184. Ming-Chung Wu*, I-Chun Chang, Kai-Chi Hsiao, and Wei-Kang Huang, "Highly Visible-Light Absorbing Black TiO_2 Nanocrystals Synthesized by Sol-Gel Method and Subsequent Heat Treatment in Low Partial Pressure H_2", ***11th International Conference on Ceramic Materials and Components for Energy and Environmental Applications (2015CMCEE)***, June 14-19, Vancouver, B.C., Canada. **【BMRPC74】**

185. Ming-Chung Wu*, Shun-Hsiang Chan, and Wei-Fang Su, "High-Sensitivity Volatile Organic Compounds Sensing Chip Made by Aligned P3HT/PMMA Fibers", ***The 3rd International Symposium on Fundamental and Applied Sciences (2015 ISFAS)***, March 22-24, Osaka, Japan. **(Oral Presentation)【BMRPC74】**

186. Ming-Chung Wu*, Ting-Han Lin, Jyun-Sian Chih, and Wei-Cheng Chen, "Visible-Light-Induced Photodegradation Performance of Multi-Morphological Nb-Doped Titanium Dioxide Nanomaterials", ***The 3rd International Symposium on Fundamental and Applied Sciences (2015 ISFAS)***, March 22-24, Osaka, Japan. **(Oral Presentation)【BMRPC74】**

2014-

187. Ming-Chung Wu*, Ting-Han Lin, Chiao-Wei Hsu, Shun-Hsiang Chan, and Kun-Mu Lee, "Fabrication and Photodegradation Characteristic of Electrospun PMMA/TiO_2 Nanocomposite Textiles", ***2014 Asian Workshop on Polymer and Processing (亞洲高分子加工研討會)(AWPP2014)***, Nov. 17-20, Kenting, Taiwan. **【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

188. Ming-Chung Wu*, Shun-Hsiang Chan, and Wei-Fang Su, "Electrospun P3HT/PMMA Blend Fibers for Low Cost Volatile Organic Compound Sensor Application", ***2014 Asian Workshop on Polymer and Processing (亞洲高分子加工研討會)(AWPP2014)***, Nov. 17-20, Kenting, Taiwan. **【NERPD2D0122(MOST103-2221-E-182-008-MY2)】**

189. Ming-Chung Wu*, Ting-Han Lin, Shun-Hsiang Chan, and Wei-Fang Su, "Electrospun P3HT/PMMA Blend Fiber for High Efficient, Real-Time and Low Cost Volatile Organic Compounds Sensors", ***2014 MRS Fall Meeting***, Nov. 30-Dec. 5, Boston, USA.【**NERPD2D0122(MOST103-2221-E-182-008-MY2)、BMRPC74**】

190. Ming-Chung Wu*, and Jyun-Sian Chih, "Structural and Photocatalytic Characteristics of Bismuth-Doped Titanium Dioxide Nanofibers", ***The 6th International Symposium on Functional Materials (ISFM 2014)***, Aug. 4-7, Clarke Quay/Riverside, Singapore. **(Oral Presentation)**【**台大 MOST103-3113-E-002-011**】

191. Ming-Chung Wu*, Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication and Photocatalytic Characteristics of Electrospun Polyvinyl Alcohol/Silk/Titania Composite Textiles", ***The 6th International Symposium on Functional Materials (ISFM 2014)***, Aug. 4-7, Clarke Quay/Riverside, Singapore. **(Best Poster Award)**【**台大 MOST103-3113-E-002-011**】

192. Ming-Chung Wu*, Kai-Chi Hsiao, and Hsin-Chun Lu, "Synthesis and Characteristics of IGZO Nanoparticles Using Low Temperature Multistep Co-Precipitation Method", ***The 6th International Symposium on Functional Materials (ISFM 2014)***, Aug. 4-7, Clarke Quay/Riverside, Singapore. 【**台大 MOST103-3113-E-002-011**】

193. Ming-Chung Wu*, Chiao-Wei Hsu, and Ting-Han Lin, "Fabrication and Photocatalytic Characteristics of PMMA/TiO_2 Nanocomposite Freestanding Films", ***2014 AMEE Workshop on Nanomaterials and Nanodevices (NMND 2014)***, April 26-27, Kowloon, Hong Kong. 【**NCRPD2CS071、BMRPC74**】

194. Ming-Chung Wu*, Wei-Kang Huang, and Shih-Han Huang, "Correlation between Crystal Structure and Photocatalytic Activity of Niobium-Doped Titanium Dioxide Nanoparticles", ***2014 AMEE Workshop on Nanomaterials and Nanodevices (NMND 2014)***, April 26-27, Kowloon, Hong Kong.【**NCRPD2CS071、BMRPC74**】

2013-

195. Ming-Chung Wu*, I-Chun Chang, and Wei-Kang Huang, "Influence of Palladium Oxidation State on Photocatalytic Activity of TiO_2 Photocatalyst Decorated with Pd/PdO Nanoparticles", ***2013 TACT International Thin Films Conference***, Oct. 5-9, Taipei, Taiwan.

196. Ming-Chung Wu*, Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication of Photocatalytic TiO_2/Polymer Blend Nanocomposite Flexible Cloth by Electro-Spinning Technique", ***2013 TACT International Thin Films Conference***, Oct. 5-9, Taipei, Taiwan.

197. Ming-Chung Wu*, I-Chun Chang, Che-Pu Hsu, and Wei-Fang Su, "Pd Oxidation State Effect on Photocatalytic Activity of N-Doped TiO_2 Na-Noparticles", ***2013 JSAP-MRS Joint Symposia, Aug. 16-20***, Kyoto, Japan. **(Oral Presentation)**【**BMRPC74**】

198. Ming-Chung Wu*, Shun-Hsiang Chan, and Ting-Han Lin, "Fabrication of PVA/Silk/TiO_2 Nanocomposite Fibers by Electrospinning Technique", ***2013 JSAP-MRS Joint Symposia***, Aug. 16-20, Kyoto, Japan. 【**BMRPC74**】

199. Ming-Chung Wu*, and Pei-Huan Lee, "High Photocatalytic Activity TiO_2 Nanofibers Consisted of Anatase-Rutile Phase", ***2013 JSAP-MRS Joint Symposia***, Aug. 16-20, Kyoto, Japan. 【**BMRPC74**】

200. Ming-Chung Wu, Hseuh-Chung Liao, Yu-Cheng Cho, Geza Toth, Yang-Fang Chen, Wei-Fang Su, and Krisztian Kordas, "Photo-Kelvin Probe Force Microscopy for Photocatalytic Performance Characterization of Single Filament of TiO_2 Nanofiber Photocatalysts", ***2013 MRS Spring Meeting***, Apr.1-5, San Francisco, USA. **(Oral Presentation)**

201. Hsueh-Chung Liao, Che-Pu Hsu, Ming-Chung Wu, Chun-Fu Lu, Po-Hsueh Chen, and Wei-Fang Su, "Conjugated Polymer/Nanoparticles Nanocomposites for High Efficient and Real-Time Volatile Organic Compounds Sensors", ***2013 MRS Spring Meeting***, Apr. 1-5, San Francisco, USA. **(Oral Presentation)**

202. Ming-Chung Wu, and Pei-Huan Lee, "Synthesis and Photocatalytic Performance of TiO_2 Nanofibers Consisted of a Mixture of Anatase/Rutile Crystalline", ***2013 MRS Spring Meeting***, Apr. 1-5, San Francisco, USA.

203. Po-Hsuen Chen, Ming-Chung Wu, Chau-Chung Wu, Wei-Fang Su, and Min-Huey Chen, "Electrospin of High Strength and Biodegradable Polyurethane/Ethyl Cellulose Nanofibrous Scaffold for Cardiac Tissue Repairing", ***2013 MRS Spring Meeting***, Apr. 1-5, San Francisco, USA.

204. Ming-Chung Wu, and Jyun-Sian Chih, "Synthesis and Photocatalytic Performance of Bi-Doped Anatase TiO_2 Nanofibers and Fabrication of Freestanding Films", ***2013 MRS Spring Meeting***, Apr. 1-5, San Francisco, USA.