

International Conference Papers List

2025-

1. 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.
2. 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)
3. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Engineering BaTiO₃/Ag-Doped TiO₂ Heterostructures for Synergistically Enhanced Piezo-Photocatalytic CO₂ Reduction", **2025 IEDMS International Electron Devices & Materials Symposium (IEDMS 2025)**, Oct. 30-31, Hsinchu, Taiwan. (Oral Presentation)
4. 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 3rd International Conference on Smart Devices and Sustainable Energy (SDSE 2025)**, Oct. 15-17, New Taipei, Taiwan.
5. 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 3rd International Conference on Smart Devices and Sustainable Energy (SDSE 2025)**, Oct. 15-17, New Taipei, Taiwan. (Excellent Poster Award)
6. 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)
7. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Designing High Efficiency CO₂ 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]
8. Ming-Chung Wu*, Yin-Hsuan Chang, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Designing High Efficiency CO₂ 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]
9. 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.
10. 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.

11. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Achieving High Selectivity for CO₂ Reduction to CH₄ through Photothermal-Photocatalysis with Topological Bi₂Se₃ and ZnIn₂S₄ 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】
12. 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】
13. 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 BaTiO₃/ZnIn₂S₄ Heterostructures", **2025 JSAP The 72th Japan Society of Applied Physics Spring Meeting (JSAP 2025)**, Mar. 14-17, Tokyo, Japan.
14. 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.
15. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Achieving High Selectivity for CO₂ Reduction to CH₄ through Photothermal-Photocatalysis with Topological Bi₂Se₃ and ZnIn₂S₄ Photocatalysts", **2025 JSAP The 72th Japan Society of Applied Physics Spring Meeting (JSAP 2025)**, Mar. 14-17, Tokyo, Japan.

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16. 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.
17. 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 BaTiO₃/ZnIn₂S₄ Heterostructures", **2024 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2024)**, Dec. 1-6, Boston, Massachusetts, United States of America.
18. 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)
19. 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)
20. 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.

21. 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】**
22. 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】**
23. 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 CO₂ Reduction", **2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan.
24. 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 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions Award)**
25. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Synergistic CO₂-to-CH₄ Conversion via Photothermal and Photocatalytic Integration of Topological Bi₂S₃ and ZnInS Photocatalysts", **2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions)**
26. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and [Ming-Chung Wu*](#), "Construction of BaTiO₃/Ag-Doped TiO₂ Heterostructures to Enhance Carbon Dioxide Reduction Reaction via Synergistic Piezo-Photocatalysis", **2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Second Award)**
27. 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 CO₂ Gas via Electrospinning Technique ", **2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan.
28. 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)**
29. 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 CO₂ Reduction", **2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)**, Sep. 16-20, Niigata, Japan. **【BMRPC74】**
30. Yen-Chang Chen, Ting-Han Lin, Kuo-Ping Chiang, Jia-Mao Chang, and [Ming-Chung Wu*](#), "Boosting CO₂ Reduction Reaction via Synergistic Photo-Piezocatalysis in Ag-Doped BaTiO₃/TiO₂ Heterostructures", **2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)**, Sep. 16-20, Niigata, Japan. **(Oral Presentation)**
31. Tzu-Chuan Yang, Tzu-Wei Hsu, Ting-Han Lin, [Ming-Chung Wu](#), and Jer-Chi Wang*, "High Efficient Piezoelectric Nanogenerators with TiO₂-NFs-Doped P(VDF-TrFE) Copolymers via Ultraviolet Thermal Annealing", **2024 JSAP The 85th Japan Society of Applied Physics Autumn Meeting (JSAP 2024)**, Sep. 16-20, Niigata, Japan. **(Oral Presentation)**

32. [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)**
33. 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 TiO₂ Nanofibers", **2024 E-MRS European Materials Research Society Spring Meeting (E-MRS 2024)**, May. 27-31, Strasbourg, France.
34. [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.
35. 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 TiO₂ Nanofibers", **2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)**, Mar. 22-25, Tokyo, Japan. **(Oral Presentation)**
36. Ze-Han Wu, Jia-Mao Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "Construction of 2D/2D Bi₂Se₃/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.
37. 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-TiO₂ 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.
38. 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)**
39. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, and [Ming-Chung Wu*](#), "Enhanced Photo-Piezocatalytic Performance through Synergistic Effects for Silver-Modified BaTiO₃/TiO₂ Heterostructure", **2024 JSAP The 71th Japan Society of Applied Physics Spring Meeting (JSAP 2024)**, Mar. 22-25, Tokyo, Japan. **(Poster Award)**

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40. [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)**
41. [Ming-Chung Wu*](#), Kai-Chi Hsiao, Yin-Hsuan Chang, Jia-Mao Chang, and Ting-Han Lin, "Characterization of Ag₃BiI₆ 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.
42. [Ming-Chung Wu*](#), Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, Ting-Han Lin, Jia-Mao Chang, and Ying-Han Liao, "Optimizing CO₂ 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.

43. 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.
44. 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-TiO₂ 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】**
45. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, Kai-Chi Hsiao, and [Ming-Chung Wu*](#), "Gas-Solid Phase Reaction-Driven CO₂ 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.
46. 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 ZnIn₂S₄ with BaTiO₃ Piezocatalyst", **2023 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2023)**, Nov. 17-20, Hsinchu, Taiwan.
47. Yen-Chang Chen, Jia-Mao Chang, Ting-Han Lin, Yi-Lin Wang, and [Ming-Chung Wu*](#), "Construction of BaTiO₃/TiO₂ Heterostructures through Varied TiO₂ Templates for Enhanced Piezocatalytic Performance", **2023 MRSTIC Materials Research Society-Taiwan International Conference (MRSTIC 2023)**, Nov. 17-20, Hsinchu, Taiwan.
48. [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 TiO₂ Electron Transport Layer", **2023 PVSEC-34 The 34th International Photovoltaic Science and Engineering Conference (PVSEC-34 2023)**, Nov. 6-10, Shenzhen, China.
49. 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 34th International Photovoltaic Science and Engineering Conference (PVSEC-34 2023)**, Nov. 6-10, Shenzhen, China. **【BMRPC74】**
50. 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.
51. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jao-Mao Chang, and [Ming-Chung Wu*](#), "Self-Precipitation Au Nanoparticles on TiO₂ Nanofibers for Surface-Enhanced Raman Scattering Detection", **2023 IEDMS International Electron Devices & Materials Symposium (IEDMS 2023)**, Oct. 19-20, Kaohsiung, Taiwan.
52. [Ming-Chung Wu*](#), Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, and Ting-Han Lin, "Enhancing CO₂ 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.
53. Yin-Hsuan Chang, Ting-Han Lin, Kai-Chi Hsiao, Jia-Mao Chang, and [Ming-Chung Wu*](#), "Surface Self-Precipitation Au Nanoparticles on TiO₂ 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.

54. 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)**
55. Ting-Han Lin, Kuo-Ping Chiang, Jia-Mao Chang, Kun-Mu Lee, and [Ming-Chung Wu*](#), "Multidimensional Ternary Heterostructured Self-Precipitated Ag Nanoparticles on TiO₂@SrTiO₃ 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】**
56. 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.
57. 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 TiO₂ Electron Extraction Layer", **2023 MRS Materials Research Society Spring Meeting & Exhibit (MRS 2023)**, Apr. 10-15, San Francisco, California, United States of America.
58. 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.
59. 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)**
60. 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 TiO₂ Mesopores Electron Extraction Layer", **2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)**, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**
61. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "Silver Bismuth Iodide Rudorffite for Photocatalytic CO₂ Reduction", **2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)**, Mar. 15-18, Tokyo, Japan. **(Oral Presentation)**
62. 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 Efficiency of Perovskite Solar Cells", **2023 JSAP The 70th Japan Society of Applied Physics Spring Meeting (JSAP 2023)**, Mar. 15-18, Tokyo, Japan.
63. 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.
64. Yi-Lin Wang, Jia-Mao Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "BaTiO₃/TiO₂ 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-

65. 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.
66. 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.
67. 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.
68. 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)**
69. Ying-Han Liao, Shih-Hsuan Chen, Chinh-Mei Ho, Shun-Hsiang Chan, and [Ming-Chung Wu*](#), "High Efficiency Perovskite Solar Cells based on Planar or Mesoporous Metal Doping TiO₂ Electron Extraction Layer", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**
70. 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.
71. 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)**

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72. 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.
73. 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)**
74. 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.
75. 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.

76. 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.
77. 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.
78. 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)**

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79. 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)**
80. 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.
81. 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.
82. 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)**
83. 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.
84. 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.
85. 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.
86. 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.
87. 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.

88. 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.
89. 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.
90. Ishita Chakraborty, [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.
91. [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 States of America. **(Oral Presentation)**
92. 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 States of America. **(Oral Presentation)**
93. 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 Photodegradation", **2020 CCE IV International Conference on Catalysis and Chemical Engineering (CCE 2020)**, Feb. 24-26, Los Angeles, California, United States of America. **(Oral Presentation)**

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94. 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.
95. [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 States of America.
96. 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.
97. 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)**
98. 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.

99. 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)**
100. 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.
101. 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.
102. 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)**
103. [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.
104. 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)**
105. 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)**
106. [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.
107. [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 of America.
108. 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.
109. 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.

110. 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)
111. 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.
112. 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)

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113. 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.
114. 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)
115. 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)
116. 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.
117. 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】
118. 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)
119. 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)
120. 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)
121. 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)

122. 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)
123. 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)
124. 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.
125. 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)
126. 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】
127. 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)
128. 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)
129. 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.
130. 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.
131. 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)
132. 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)

133. 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】
134. 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】

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135. 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.
136. 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 of America.
137. 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)
138. 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)
139. 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.
140. 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-】
141. 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.
142. 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.
143. 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.
144. 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)

145. 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.
146. 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)**
147. 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-】**
148. 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)**
149. 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)**
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