

Dr. Ting-Han Lin of Chang Gung University (Update 2025/12/17)

International Conference Papers List

2025-

1. 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-Driven Quantum Dot Coupling", **2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)**, No. 30-Dec. 5, Boston, Massachusetts, United States of America.
2. [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 CO₂ Photoreduction", **2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)**, No. 30-Dec. 5, Boston, Massachusetts, United States of America.
3. 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 CO₂ Photoreduction Materials", **2025 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2025)**, No. 30-Dec. 5, Boston, Massachusetts, United States of America. (Oral Presentation)
4. Jia-Mao Chang, [Ting-Han Lin](#), Yin-Hsuan Chang, and Ming-Chung Wu*, "Floatable Hybrid Photothermal-Photocatalyst Sheet for Highly Selective Solar-Driven CO₂ to CH₄ via the Integration of Topological Bi₂Se₃ and ZnIn₂S₄ 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)
5. 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.
6. 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.
7. 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.
8. 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)
9. 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)
10. 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.

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

22. 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.
23. [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.
24. 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)**
25. 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.
26. 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】**
27. 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】**
28. 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.
29. 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)**
30. 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 BizSes and ZnInS Photocatalysts", **2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions)**
31. Yen-Chang Chen, [Ting-Han Lin](#), Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Construction of BaTiO/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)**

32. 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.
33. 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)**
34. 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]**
35. 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)**
36. 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)**
37. 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.
38. 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.
39. 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)**
40. 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.
41. 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.
42. 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)**

43. 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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44. 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.
45. 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.
46. [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.
47. 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】**
48. 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.
49. 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.
50. 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.
51. 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】**
52. 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.

53. 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.
54. 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.
55. 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.
56. 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)
57. [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]**
58. 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.
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. 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)
61. 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.
62. 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.

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63. 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.
64. 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.

65. 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.
66. 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.
67. 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-

68. [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)**
69. 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.
70. [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)**
71. 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)**

2019-

72. [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 For reusable Organic Pollutant Photodegradation", **2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)**, Dec. 1-6, Boston, Massachusetts, United States of America.
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