

Prof. Ming-Chung Wu of Chang Gung University (Update 2024/12/10)

International Conference Papers List

2024-

1. [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.
2. 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.
3. 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)**
4. 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)**
5. [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 35th International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)**, Nov. 10-15, Numazu, Japan.
6. 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 35th International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)**, Nov. 10-15, Numazu, Japan.
7. 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 35th International Photovoltaic Science and Engineering Conference (PVSEC-35 2024)**, Nov. 10-15, Numazu, Japan.
8. 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.
9. 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)**

10. 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 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Honorable Mentions)**
11. 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 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan. **(Second Award)**
12. 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 2ndInternational Conference on Smart Devices and Sustainable Energy (SDSE 2024)**, Oct. 16-18, New Taipei, Taiwan.
13. 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)**
14. 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.
15. 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)**
16. 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)**
17. [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)**
18. 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.
19. [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.
20. 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)**

21. 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.
22. 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.
23. 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)**
24. 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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25. [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)**
26. [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.
27. [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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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 34rd International Photovoltaic Science and Engineering Conference (PVSEC-34 2023)**, Nov. 6-10, Shenzhen, China.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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)
40. 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.
41. 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.
42. 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.

43. 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.
44. 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)**
45. 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)**
46. 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)**
47. 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.
48. 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.
49. 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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50. Kun-Mu Lee*, Seungjun 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.
51. Yin-Hsuan Chang, Shun-Hsiang Chan, Yi-Ying Li, Shih-Hsian Chen, Ching-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.
52. 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.
53. 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)**
54. Ying-Han Liao, Shih-Hsuan Chen, Ching-Mei Ho, Shun-Hsiang Chan, and [Ming-Chung Wu*](#), "High Efficiency Perovskite Solar Cells based on Planar or Mesoporous Metal Doping TiO₂ Electron Extraction Layer", **2022 IEDMS International Electron Devices & Materials Symposium (IEDMS 2022)**, Oct. 27-28, Nantou, Taiwan. **(Oral Presentation)**

55. 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.
56. 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-

57. 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.
58. 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)**
59. 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.
60. 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.
61. 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.
62. 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.
63. 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-

64. 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)**
65. 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.

66. 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.
67. 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)**
68. 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.
69. 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.
70. 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.
71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
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77. 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)**
78. 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)**

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80. [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.
81. 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-Side UV-Ozone Treatment", **2019 MRS Materials Research Society Fall Meeting & Exhibit (MRS 2019)**, Dec. 1-6, Boston, Massachusetts, United States of America.
82. 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)**
83. 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.
84. 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)**
85. 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.
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88. [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.
89. 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)**

90. 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)**
91. [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.
92. [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.
93. 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.
94. 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.
95. 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)**
96. 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.
97. [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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99. 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)**
100. 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)**

101. 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.
102. 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]**
103. 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)
104. 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)
105. 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)
106. [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)
107. [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)
108. 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)
109. 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.
110. 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)
111. 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]**
112. 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)

113. 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)
114. 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.
115. 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.
116. 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)
117. 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)
118. 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]
119. 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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121. 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.
122. 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)
123. 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)

124. 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.
125. 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-]**
126. 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.
127. 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.
128. 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.
129. 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)**
130. 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.
131. 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)**
132. 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-]**
133. 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)**
134. 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)**
135. Yi-Ying Li, Yen-Tung Lin, and [Ming-Chung Wu*](#), "Synthesis and Photocatalytic Performance of Nickel-Decorated TiO₂ NFs", **2017 JSAP The 78th Japan Society of Applied Physics Autumn Meeting (JSAP 2017)**, Sep. 5-8, Fukuoka, Japan. **(Oral Presentation)**

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137. Ting-Han Lin, Po-Yeh Wu, Yin-Hsuan Chang, and [Ming-Chung Wu*](#), "High Photocatalytic Performance of Ag/TiO₂ Nanofibers: Photodegradation of Organic Dye and Photocatalytic H₂ Generation", **2017 IWGCP2 2nd International Workshop on Graphene and C₃N₄-Based Photocatalysts (IWGCP2 2017)**, Mar. 24-27, Wuhan, China. **(Best Poster Award)**
138. Kuo-Ping Chiang, Po-Yeh Wu, Yin-Hsuan Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "Copper Doping Effects on Photocatalytic Properties of TiO₂ NFs", **2017 IWGCP2 2nd International Workshop on Graphene and C₃N₄-Based Photocatalysts (IWGCP2 2017)**, Mar. 24-27, Wuhan, China.
139. 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)】**
140. 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)】**
141. 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)】**
142. Ying-Han Liao, Shun-Hsiang Chan, Tzu-Hao Lin, and [Ming-Chung Wu*](#), "Silver-Doped TiO₂ 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)】**
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144. Yin-Hsuan Chang, Ting-Han Lin, and [Ming-Chung Wu*](#), "Bismuth Doping Effect on Crystal Structure and Photocatalytic Activity of Bismuth-TiO₂ 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)】**

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146. 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)】**

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