

Dr. Ting-Han Lin of Chang Gung University (Update 2025/06/11)

Award List

2025-

1. 張家茂, 林廷翰, 蔣國斌, 張胤萱, 吳明忠*, "建構拓撲 $\text{Bi}_2\text{Se}_3/\text{ZnIn}_2\text{S}_4$ 偕同光熱與光催化實現二氧化碳高選擇性還原為甲烷", 第 20 屆台塑關係企業應用技術研討會, Jun. 6, 新北市-明志科技大學. (研發論文競賽優勝)
2. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Designing High-Efficiency Photocatalysts—Insights from a Photo-Assisted Kelvin Probe Force Microscopy Study", 2025 中華民國高分子學會年會, Jan. 15-16, 台中-朝陽科技大學. (海報發表及競賽佳作) 【MOST 113-2628-E-182-001-MY4】
3. Ting-Hung Hsieh, Hao-Yun Yu, Yin-Hsuan Chang, Ting-Han Lin, and Ming-Chung Wu*, "Multifunctional Electrospun Nanocomposite Fibers for the Detection of Various Biomarkers in Exhaled Breath", 2025 中華民國高分子學會年會, Jan. 15-16, 台中-朝陽科技大學. (海報發表及競賽優等) 【MOST 111-2628-E-182-001-MY2】

2024-

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. 吳明忠*, 林廷翰, 張胤萱, "光重整廢塑料製氫裝置", 2024 台灣創新技術博覽會, Oct. 17-19, 台北世貿 1 館. (發明競賽銅牌獎)
6. 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)
7. Jia-Mao Chang, Ting-Han Lin, Yin-Hsuan Chang, and Ming-Chung Wu*, "Synergistic CO_2 -to- CH_4 Conversion via Photothermal and Photocatalytic Integration of Topological Bi₂Se₃ and ZnIn₂S₄ Photocatalysts", 2024 SDSE 2nd International Conference on Smart Devices and Sustainable Energy (SDSE 2024), Oct. 16-18, New Taipei, Taiwan. (Honorable Mentions)
8. Yen-Chang Chen, Ting-Han Lin, Jia-Mao Chang, Kuo-Ping Chiang, and Ming-Chung Wu*, "Construction of BaTiO_3/Ag -Doped TiO_2 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)
9. 林廷翰, 張胤萱, 張家茂, 蔣國斌, 廖盈涵, 吳明忠*, "塑料裂解與製氫—新式單原子光觸媒原型反應器", 第 19 屆台塑關係企業應用技術研討會, Jun. 14, 桃園市-長庚大學. (研發實物競賽第三名)
10. 陳彥璋, 林廷翰, 蔣國斌, 張家茂, 吳明忠*, "藉由壓電-光協同催化效應增益銀摻雜 $\text{BaTiO}_3/\text{TiO}_2$ 奈米異質結構觸媒性能之應用與機制探討", 第 19 屆台塑關係企業應用技術研討會, Jun. 14, 桃園市-長庚大學. (研發論文暨海報競賽優勝)

11. 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)
12. Yu-Chi Peng, Kuo-Ping Chiang, Jia-Mao Chang, [Ting-Han Lin](#), and Ming-Chung Wu*, "Enhancing Solar-Driven Photocatalytic Hydrogen Production through Incorporation of ZnIn₂S₄ with BaTiO₃ Piezocatalyst to Decompose Polymeric Biomass", **2024 中華民國高分子學會年會**, Jan. 24-25, 台南-國立成功大學. (海報論文競賽佳作) 【MOST 112-2813-C-182-036-E】
13. Mei-Yu Chen, Ting-Hung Hsieh, Yin-Hsuan Chang, [Ting-Han Lin](#), and Ming-Chung Wu*, "Multifunctional Electrospun Nanocomposite Fibers for the Detection of Various Biomarkers in Exhaled Breath", **2024 中華民國高分子學會年會**, Jan. 24-25, 台南-國立成功大學. (海報論文競賽優等) 【MOST 111-2628-E-182-001-MY2】

2023-

14. Ting-Hung Hsieh, Yin-Hsuan Chang, [Ting-Han Lin](#), Kai-Chi Hsiao, and Ming-Chung Wu*, "Breath Acetone Sensing Based on Polymer Nanocomposite Sensing Material for Application in Non-Invasive Diabetics Monitoring", **2023 中華民國高分子學會年會**, Jan. 17-18, 桃園-長庚大學. (海報論文競賽優等) 【MOST 110-2628-E-182-001】

2022-

15. 王哲麒, Rajat Subhra Karmakar, [林廷翰](#), 吳明忠*, 張國軒, "藉由 PEDOT:PSS 與 ITO 電極間之抑制介面塗層提升壓阻式壓力感測器之可靠度", **台灣化學工程學會 69 週年年會暨國科會化學工程學門成果發表會&台、日、韓、捷化學工程國際研討會**, Dec. 2-3, 新北-淡江大學. (石延平教授論文獎)
16. Ting-Hung Hsieh, Yin-Hsuan Chang, [Ting-Han Lin](#), Kai-Chi Hsiao, and Ming-Chung Wu*, "Ultra-Sensitive Breath Acetone Detection by Polymer Nanocomposite Sensing Material", **台灣化學工程學會 69 週年年會暨國科會化學工程學門成果發表會&台、日、韓、捷化學工程國際研討會**, Dec. 2-3, 新北-淡江大學. 【MOST 111-2221-E-182-040-MY3】 (海報競賽佳作)
17. Jia-Mao Chang, [Ting-Han Lin](#), Yin-Hsuan Chang, and Ming-Chung Wu*, "Composition Engineering in Silver Bismuth Iodide for Efficient Photocatalytic CO₂ Reduction", **中國材料科學學會 111 年年會**, Nov. 18-19, 苗栗-國立聯合大學. 【MOST 111-2221-E-182-040-MY3】 (海報競賽特優)
18. Jia-Mao Chang, [Ting-Han Lin](#), Yin-Hsuan Chang, and Ming-Chung Wu*, "Composition Engineering in Silver Bismuth Iodide for Efficient Photocatalytic CO₂ Reduction", **2022 第二十八屆用戶年會暨研討會**, Aug. 30-Sep. 1, 新竹-國家同步輻射研究中心. (壁報人氣獎)
19. Yin-Hsuan Chang, Yu-Han Liao, [Ting-Han Lin](#), and Ming-Chung Wu*, "Organic Solvent Resistant Nanocomposite Films Made Self-Precipitated Ag/TiO₂ Nanofibers and Cellulose Nanofiber for Harmful Voltaic Organic Compounds Photodegradation", **2022 中華民國高分子學會年會**, Jan. 18-19, 台中-國立勤益科技大學. 【MOST 110-2628-E-182-001】 (論文海報競賽銅牌)

2021-

20. 吳明忠*, 張胤萱, [林廷翰](#), 盧怡靜, 張家茂, "奈米光觸媒纖維複合紙燈罩 360° 無死角淨化空氣", **110 年度複合材料設計競賽**, Dec. 17, 台中-逢甲大學. (佳作)
21. 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)

22. 林廷翰, 張胤萱, 王前翰, 張家茂, 吳明忠*, "塑氫專案", 2021 長庚大學青年老闆築夢計畫校際盃創新創業競賽, Mar. 6, 桃園-長庚大學. (第三名及評審特別獎)

2020-

23. Kai-Chi Hsiao, Meng-Huan Jao, Kuo-Yu Tian, Ting-Han Lin, Dinh-Phuc Tran, Hsueh-Chung Liao, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su*, "Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High Efficiency p-i-n Planar Solar Cell via Air-Processable Method", 2020 中國材料科學學會年會, Nov. 6-7, 新北-明志科技大學. (論文海報競賽特優)
24. Kuo-Ping Chiang, Ting-Han Lin, Yin-Hsuan Chang, Jia-Mao Chang, Jen-Fu Hsu, Kai-Hsiang Hsu, and Ming-Chung Wu*, "Highly Efficient Solar-Driven Photodegradation on Antibiotics by Self-Precipitated Ag NPs/TiO₂ Nanofibers Photocatalyst", 2020 台灣化學工程學會 67 週年年會暨科技部化學工程學門成果發表會&台日韓捷永續化學工程國際研討會, Oct. 23-24, 新竹-國立清華大學. 【MOST 109-2221-E-182-059】 (海報論文競賽佳作)
25. Yen-Ting Lin, Chi-Hui Tsao, Ting-Han Lin, and Ming-Chung Wu*, "Solar-Triggered Silver Doped Titanium Oxide Nanofibers with High Efficient Photothermal Therapy for Tumor Ablation", 2020 台灣化學工程學會 67 週年年會暨科技部化學工程學門成果發表會&台日韓捷永續化學工程國際研討會, Oct. 23-24, 新竹-國立清華大學. 【MOST 109-2221-E-182-059】 (海報論文競賽優勝)
26. 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)

2019-

27. Ting-Han Lin, Ching-Ting Chiu, and Ming-Chung Wu*, "Construction of 3D/1D Porous g-C₃N₄/TiO₂ with Z-Scheme Heterostructure for Efficient Water", 2019 台灣化學工程學會 66 週年年會暨科技部化學工程學門成果發表會, Nov. 8-9, 台中-東海大學. (海報論文競賽佳作)
28. Yin-Hsuan Chang, Ting-Han Lin, Yu-Han Liao, Chiao-Yun Huang, and Ming-Chung Wu*, "Hierarchically Cellulose Nanofiber/TiO₂ Nanofiber Composite Film for Organic Pollutant Photodegradation", 2019 台灣化學工程學會 66 週年年會暨科技部化學工程學門成果發表會, Nov. 8-9, 台中-東海大學. (海報論文競賽優勝)
29. 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)

2018-

30. 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 (2018CSPM1), July 26-29, Wuhan, China. (Excellent Poster Award)
31. 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 (2018CSPM1), July 26-29, Wuhan, China. (Excellent Poster Award)

32. 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 Flexible Substrate Prepared by TEMPO-Oxidized Cellulose Nanofibers", **2018 第 41 屆中華民國高分子學會年會及前瞻高分子科學與技術國際研討會暨 106 年度科技部高分子學門成果發表會**, Jan. 12-13, 台北市-國立臺北科技大學. (海報論文競賽佳作)

2017-

33. 廖于涵, [林廷翰](#), 蔣國斌, 吳明忠*, 鄭雅文, 吳建慧, 陳玉振, 陳博明, 洪萬墩, "高透明度纖維素奈米纖維紙的製備與其應用", **第15屆台塑關係企業應用技術研討會**, Jun. 16, 桃園市-長庚大學. (研發論文獎優勝)
34. [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)

2016-

35. [林廷翰](#), 王威凱, 吳明忠*, 鄭雅文, 吳建慧, 陳玉振, 陳博明, 洪萬墩, "纖維素奈米纖維之合成、材料分析與其應用開發", **第14屆台塑關係企業應用技術研討會**, 2016 Jun. 22, 新北市-明志科技大學. (研發論文獎優勝)

2015-

36. [林廷翰](#), 詹順翔, 黃瑋康, 吳明忠*, "以 P3HT/PCBM 複合薄膜製作低成本、高效能與即時偵測的揮發性有機化合物感測器", **2015 International Symposium on Smart-Sensing Technology (ISST 2015)**, Jun. 5, 桃園市-長庚大學. (海報論文競賽佳作)
37. 詹順翔, 吳明忠*, [林廷翰](#), 許喬惟, 林唯芳, "調控 P3HT/PMMA 感測纖維排列方式來提升感測器靈敏度之探討", **2015 International Symposium on Smart-Sensing Technology (ISST 2015)**, Jun. 5, 桃園市-長庚大學. (海報論文競賽佳作)

2014-

38. Ming-Chung Wu*, Shun-Hsiang Chan, and [Ting-Han Lin](#), "Fabrication and Photocatalytic Characteristics of Electrospun Polyvinyl Alcohol/Silk/Titania Composite Textiles", **2014 The 6th International Symposium on Functional Materials (ISFM 2014)**, Aug. 4-7, Clarke Quay/Riverside, Singapore. (Best Poster Award)

2013-

39. 詹順翔, [林廷翰](#), 吳明忠*, "自清淨抗菌蠶絲光觸媒奈米纖維布", **第 11 屆台塑關係企業應用技術研討會**, 2013 Jun. 28, 桃園市-長庚大學. (研發論文競賽學校組 優良獎)