

Dr. Ting-Han Lin of Chang Gung University (Update 2025/11/21)

Award List

2025-

1. 張胤萱, 李昱憲, 林廷翰, 李坤穆, 吳明忠*, "裂縫中綻放的花朵", 2025 台灣材料科學微結構影像美學競賽, Nov. 14-15, 新竹-國立陽明交通大學. (銀質獎)
2. 吳明忠*, 林廷翰, 張胤萱, "一種以光重整製造氫的方法", 2025 台灣創新技術博覽會, Oct. 16-18, 台北世貿 1 館. (鴻海特別獎)
3. 吳明忠*, 林廷翰, 張胤萱, "一種以光重整製造氫的方法", 2025 台灣創新技術博覽會, Oct. 16-18, 台北世貿 1 館. (台達特別獎)
4. 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)
5. 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)
6. 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 第三十一屆用戶年會暨研討會, Sep. 2-4, 新竹-國家同步輻射研究中心. (壁報佳作)
7. 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)
8. 張家茂, 林廷翰, 蔣國斌, 張胤萱, 吳明忠*, "建構拓撲 Bi₂Se₃/ZnIn₂S₄ 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)
9. 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】
10. 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】

11. 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)
12. 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)
13. 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)
14. 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)
15. 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)
16. 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)
17. 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 BaTiO₃/TiO₂ 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)
18. 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)
19. 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】
20. 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-

21. 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-

22. 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)
23. 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)
24. 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)
25. 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)
26. 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-

27. 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)
28. 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)
29. 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-

30. 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)

31. 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)**
32. 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)**
33. [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-

34. [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)**
35. 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)**
36. 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-

37. [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)**
38. 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)**
39. Yu-Han Liao, [Ting-Han Lin](#), Kuo-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-

40. 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)
41. 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-

42. 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-

43. 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)
44. 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-

45. 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-

46. 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)