

## Dr. Ting-Han Lin of Chang Gung University (Update 2024/06/21)

### SCI Journal Paper

2024

1. Jia-Mao Chang, [Ting-Han Lin](#), Kai-Chi Hsiao, Kuo-Ping Chiang, Yin-Hsuan Chang, and Ming-Chung Wu\*, "Gas-Solid Phase Reaction Derived Silver Bismuth Iodide Rudorffite: Structural Insight and Exploring Photocatalytic Potential of CO<sub>2</sub> Reduction", **2024, *Advanced Science***, 2024, 2309526. (▲:0; SCI; IF:14.3 at 2023; Ranking:32/438=7.3% in Materials Science, Multidisciplinary)
2. Shih-Cheng Tsao, Kuo-Hsuan Chang, Yi Fu, Han-Hsiang Tai, [Ting-Han Lin](#), Ming-Chung Wu, and Jer-Chyi Wang\*, "Heterogeneous Integration of Memristive and Piezoresistive MDMO-PPV-Based Copolymers in Nociceptive Transmission with Fast and Slow Pain for an Artificial Pain-Perceptual System", **2024, *Small***, 2024, 202311040. (▲:0; SCI; IF:13.0 at 2023; Ranking:14/179=7.8% in Physics, Applied)
3. Yu-Hua Liu, Han-Hsiang Tai, Chi-An Ho, [Ting-Han Lin](#), Ming-Chung Wu, and Jer-Chyi Wang\*, "Highly Compatible and Reliable ZrN Interfacial Layer between TiN Top Electrode and Antiferroelectric ZrO<sub>2</sub> Thin Film to Boost the Electrocaloric Behavior", **2024, *Journal of the European Ceramic Society***, 44, 215-223. (▲:0; SCI; IF:5.8 at 2023; Ranking:2/31=6.5% in Materials Science, Ceramics)
4. Kai-Chi Hsiao†, Ching-Mei Ho†, [Ting-Han Lin](#), Shih-Hsuan Chen, Yin-Hsuan Chang, Ying-Han Liao, Jia-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", **2024, *International Journal of Energy Research***, 2024, 9990559. (▲:2; SCI; IF:4.3 at 2023; Ranking:4/40=10.0% in Nuclear Science & Technology)
5. Rashmiranjan Patra, Pradeep Kumar Panda, [Ting-Han Lin](#), Ming-Chung Wu, and Po-Chih Yang\*, "Graphitic Carbon Nitride Nanosheet and Ferroelectric PbTiO<sub>3</sub> Nanoplates S-Scheme Heterostructure for Enhancing Hydrogen Production and Textile Dye Degradation", **2024, *Chemical Engineering Science***, 259, 120133. (▲:0; SCI; IF:4.1 at 2023; Ranking:54/171=31.6% in Engineering, Chemical)
6. Ying-Han Liao†, Yin-Hsuan Chang†, [Ting-Han Lin](#), Kun-Mu Lee, and Ming-Chung Wu\*, "Recent Advances in Metal Oxide Electron Transport Layers for Enhancing the Performance of Perovskite Solar Cells", **2024, *Materials***, 17, 2722. (▲:0; SCI; IF:3.1 at 2023; Ranking:25/91=27.5% in Metallurgy & Metallurgical Engineering)

2023

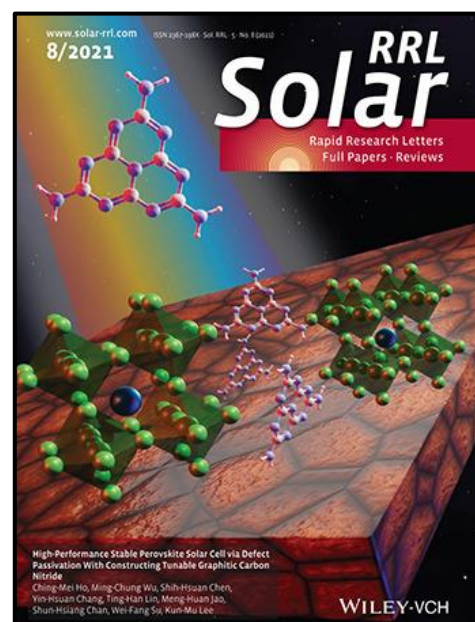
7. [Ting-Han Lin](#)†, Yin-Hsuan Chang†, Ting-Hung Hsieh†, Yu-Ching Huang\*, and Ming-Chung Wu\*, "Electrospun SnO<sub>2</sub>/WO<sub>3</sub> Heterostructure Nanocomposite Fiber for Enhanced Acetone Vapor Detection", **2023, *Polymers***, 15, 4318. (▲:0; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
8. Yin-Hsuan Chang, Ting-Hung Hsieh, Kai-Chi Hsiao, [Ting-Han Lin](#), Kai-Hsiang Hsu\*, and Ming-Chung Wu\*, "Electrospun Fibrous Nanocomposite Sensing Materials for Monitoring Biomarkers in Exhaled Breath", **2023, *Polymers***, 15, 1833. (▲:1; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)
9. Ming-Chung Wu\*, Yin-Hsuan Chang, Yi-Jing Lu, Kai-Chi Hsiao, [Ting-Han Lin](#), Jia-Mao Chang, Kai-Hsiang Hsu, Jen-Fu Hsu\*, and Kun-Mu Lee\*, "Modulating Incident Light for Improved CO<sub>2</sub> Photoreduction in Freestanding Silver Bismuth Iodide/Nanocellulose Films with Exotic Gold Nanoparticles", **2023, *Materials Science in Semiconductor Processing***, 162, 107505. (▲:1; SCI; IF:4.2 at 2023; Ranking:19/79=24.1% in Physics, Condensed Matter)

## 2022

10. Tzu-Yi Yu, Yu-Kai Tseng, [Ting-Han Lin](#), Tzu-Chia Wang, Yun-Hsiu Tseng, Yin-Hsuan Chang, Ming-Chung Wu\*, and Wei-Fang Su\*, "Effect of Cellulose Compositions and Fabrication Methods on Mechanical Properties of Polyurethane-Cellulose Composites", **2022, *Carbohydrate Polymers***, 291, 119549. (▲:9; SCI; IF:10.7 at 2023; Ranking:1/94=1.1% in Polymer Science)
11. Yi-Pei Jiang†, Ming-Chung Wu†, [Ting-Han Lin](#), Yin-Hsuan Chang, and Jer-Chyi Wang\*, "Color Discrimination in Color Vision Deficiency: Photon-Assisted Piezoelectric IGZO Color-Tactile Sensors with P(VDF-TrFE)/Metal-Decorated TiO<sub>2</sub>-Nanofibers Nanocomposites", **2022, *Advanced Materials Technologies***, 7, 2101147. (▲:1; SCI; IF:6.4 at 2023; Ranking:120/438=27.4% in Materials Science, Multidisciplinary)
12. Tzu-Yi Yu, Yun-Hsiu Tseng, Chun-Chieh Wang, [Ting-Han Lin](#), Ming-Chung Wu, Cheng-Si Tsao\*, and Wei-Fang Su\*, "Three Level Hierarchical 3D Network Formation and Structure Elucidation of Wet Hydrogel of Tunable-High-Strength Nanocomposite", **2022, *Macromolecular Materials and Engineering***, 307, 2100871. (▲:2; SCI; IF:4.2 at 2023; Ranking:31/94=33.0% in Polymer Science)

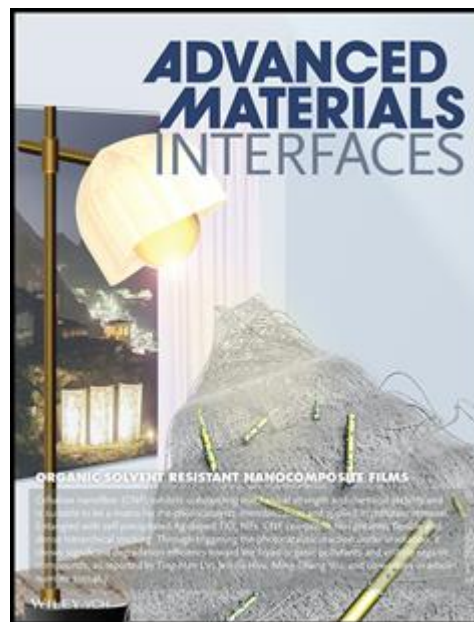
## 2021-

13. Kai-Chi Hsiao, Bo-Ting Lee, Meng-Huan Jao, [Ting-Han Lin](#), Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su\*, "Chloride Gradient Render Carrier Extraction of Hole Transport Layer for High V<sub>oc</sub> and Efficient Inverted Organometal Halide Perovskite Solar Cell", **2021, *Chemical Engineering Journal***, 409, 128100. (▲:14; SCI; IF:13.3 at 2023; Ranking:3/81=3.7% in Engineering, Environmental)
14. [Ting-Han Lin](#), Ming-Chung Wu\*, Yen-Ting Lin, Chi-Hui Tsao, Yin-Hsuan Chang, Kuo-Ping Chiang, Yu-Ting Huang, and Yu-Jen Lu\*, "Solar-Triggered Photothermal Therapy for Tumor Ablation by Ag Nanoparticles Self-Precipitated on Structural Titanium Oxide Nanofibers", **2021, *Applied Surface Science***, 552, 149428. (▲:9; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
15. Ching-Mei Ho†, Ming-Chung Wu\*†, Shih-Hsuan Chen, Yin-Hsuan Chang, [Ting-Han Lin](#), Meng-Huan Jao, Shun-Hsiang Chan, Wei-Fang Su, and Kun-Mu Lee\*, "High-Performance Stable Perovskite Solar Cell via Defect Passivation with Constructing Tunable Graphitic Carbon Nitride", **2021, *Solar RRL***, 5, 2100257. (▲:9; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) **(Selected as an inside back cover of Solar RRL!!)**
16. Tzu-Chuan Yang, Yi-Pei Jiang, [Ting-Han Lin](#), Shih-Hsuan Chen, Ching-Mei Ho, Ming-Chung Wu, and Jer-Chyi Wang\*, "N-Butylamine-Modified Graphite Nanoflakes Blended in Ferroelectric P(VDF-TrFE) Copolymers for Piezoelectric Nanogenerators with High Power Generation Efficiency", **2021, *European Polymer Journal***, 159, 110754. (▲:4; SCI; IF:5.8 at 2023; Ranking:12/94=12.8% in Polymer, Science)
17. Jer-Chyi Wang\*, Rajat Subhra Karmakar, [Ting-Han Lin](#), Ming-Chung Wu\*, and Kuo-Hsuan Chang\*, "Reaction-Inhibited Interfacial Coating Between PEDOT:PSS Sensing Membrane and ITO Electrode for Highly-Reliable Piezoresistive Pressure Sensing Applications", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 126, 297-306. (▲:5; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)



18. Ting-Han Lin<sup>†</sup>, Ming-Chung Wu<sup>\*†</sup>, Kou-Ping-Chiang, Yin-Hsuan Chang, Jen-Fu Hsu, Kai-Hsiang Hsu\*, and Kun-Mu Lee\*, "Unveiling the Surface Precipitation Effect of Ag Ions in Ag-Doped TiO<sub>2</sub> Nanofibers Synthesized by One-Step Hydrothermal Method for Photocatalytic Hydrogen Production", **2021, *Journal of the Taiwan Institute of Chemical Engineers***, 120, 291-299. (▲:10; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)

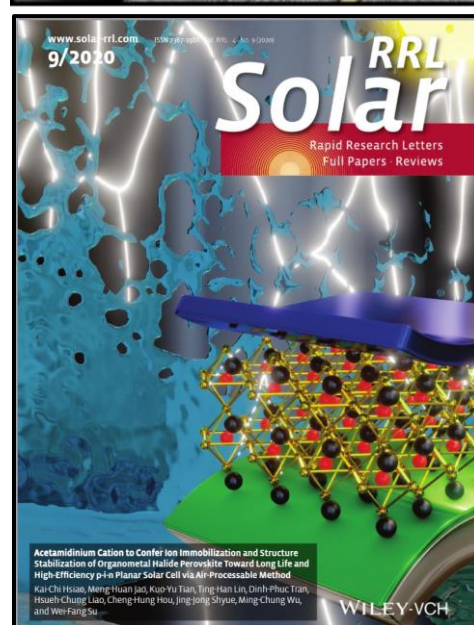
19. Ting-Han Lin, Yu-Han Liao, Kun-Mu Lee, Yin-Hsuan Chang, Kai-Hsiang Hsu, Jen-Fu Hsu\*, and Ming-Chung Wu\*, "Organic Solvent Resistant Nanocomposite Films Made from Self-Precipitated Ag/TiO<sub>2</sub> Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation", **2021, *Advanced Materials Interfaces***, 8, 2101467. (▲:9; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) **(Selected as a frontispiece of *Advanced Materials Interfaces*!!)**



20. Ting-Han Lin, Yin-Hsuan Chang, Kuo-Ping Chiang, Jer-Chyi Wang\*, and Ming-Chung Wu\*, "Nanoscale Multidimensional Pd/TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> Catalyst for Efficient Solar-Driven Photocatalytic Hydrogen Production", **2021, *Catalysts***, 11, 59. (▲:10; SCI; IF:3.8 at 2023; Ranking:114/178=64.0% in Chemistry, Physical)

## 2020-

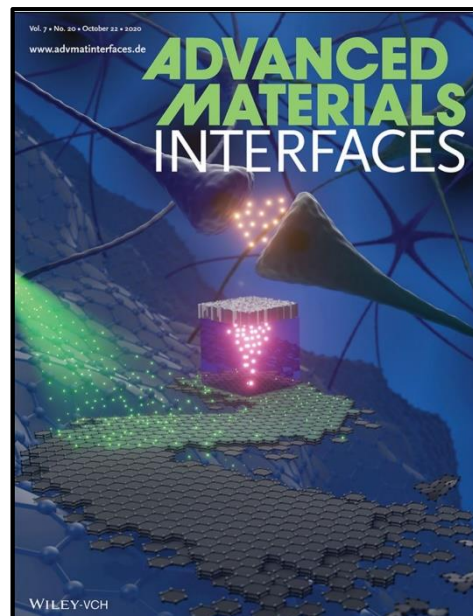
21. Kai-Chi Hsiao, Meng-Huan Jao, Kuo-Yu Tian, Ting-Han Lin, Dinh-Phuc Tran, Hsueh-Chung Liao, Cheng-Hung Hou, Jing-Jong Shyue, Ming-Chung Wu, and Wei-Fang Su\*, "Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-i-n Planar Cell via Air-Processable Method", **2020, *Solar RRL***, 4, 2000197. (▲:14; SCI; IF:6.0 at 2023; Ranking:114/438=26.0% in Materials Science, Multidisciplinary) **(Selected as a inside front cover of *Solar RRL*!!)**



22. Ying-Han Liao, Yin-Hsuan Chang, Ting-Han Lin, Shun-Hsiang Chan, Kun-Mu Lee, Kai-Hsiang Hsu, Jen-Fu Hsu\*, and Ming-Chung Wu\*, "Boosting the Power Conversion Efficiency of Perovskite Solar Cells Based on Sn Doped TiO<sub>2</sub> Electron Extraction Layer via Modification the TiO<sub>2</sub> Phase Junction", **2020, *Solar Energy***, 205, 390-398. (▲:13; SCI; IF:6.0 at 2023; Ranking:62/173=35.8% in Energy & Fuels)

23. Duy Linh Vu, Tz-Feng Lin, Ting-Han Lin, and Ming-Chung Wu\*, "Highly-Sensitive Detection of Volatile Organic Compounds Vapor by Electrospun PANI/P3TI/PMMA Fibers", **2020, *Polymers***, 12, 455. (▲:10; SCI; IF:4.7 at 2023; Ranking:17/94=18.1% in Polymer Science)

24. Ya-Ting Chan, Yi Fu, Feng-Yu Wu, Ho-Wei Wang, [Ting-Han Lin](#), Shun-Hsiang Chan, Ming-Chung Wu, and Jer-Chyi Wang\*, "Compacted Self-Assembly Graphene with Hydrogen Plasma Surface Modification for Robust Artificial Electronic Synapses of Gadolinium Oxide Memristors", **2020, *Advanced Materials Interfaces***, 7, 2000860. (▲:7; SCI; IF:4.3 at 2023; Ranking:157/438=35.8% in Materials Science, Multidisciplinary) **(Selected as an inside front cover cover of *Advanced Materials Interfaces*!!)**
25. Yi-Pei Jiang, Tzu-Chuan Yang, [Ting-Han Lin](#), Ching-Mei-Ho, Shun-Hsiang Chan, Ming-Chung Wu, and Jer-Chyi Wang\*, "Layer-Dependent Solvent Vapor Annealing on Stacked Ferroelectric P(VDF-TrFE) Copolymers for Highly Efficient Nanogenerator Applications", **2020, *Polymer***, 204, 122822. (▲:7; SCI; IF:4.1 at 2023; Ranking:16/94=17.0% in Polymer Science)



## 2019-

26. Ming-Chung Wu\*, Chi-Hung Lin, [Ting-Han Lin](#), Shun-Hsiang Chan, Yin-Hsuan Chang, Tz-Feng Lin, Ziming Zhou, Kai Wang, and Chao-Sung Lai\*, "Ultrasensitive Detection of Volatile Organic Compounds by Freestanding Aligned Ag/CdSe-CdS/PMMA Texture with Double-Sild UV-Ozone Treatment", **2019, *ACS Applied Materials & Interfaces***, 11, 34454-34462. (▲:8; SCI; IF:8.3 at 2023; Ranking:63/438=14.4% in Materials Science, Multidisciplinary)
27. Ming-Chung Wu\*, [Ting-Han Lin](#), Kai-Hsiang Hsu, and Jen-Fu Hsu\*, "Photo-Induced Disinfection Property and Photocatalytic Activity Based on the Synergistic Catalytic Technique of Ag Doped TiO<sub>2</sub> Nanofibers", **2019, *Applied Surface Science***, 484, 326-334. (▲:52; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
28. Ming-Chung Wu\*, Wei-Kang Huang, [Ting-Han Lin](#), and Yu-Jen Lu\*, "Photocatalytic Hydrogen Production and Photodegradation of Organic Dyes of Hydrogenated TiO<sub>2</sub> Nanofibers Decorated Metal Nanoparticles", **2019, *Applied Surface Science***, 469, 34-43. (▲:29; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
29. Duy Linh Vu, Yi-Ying Li, [Ting-Han Lin](#), and Ming-Chung Wu\*, "Fabrication and Humidity Sensing Property of UV/Ozone Treated PANI/PMMA Electrospun Fibers", **2019, *Journal of the Taiwan Institute of Chemical Engineers***, 99, 250-257. (▲:15; SCI; IF:5.5 at 2023; Ranking:37/171=21.6% in Engineering, Chemical)
30. Kai-Chi Hsiao, Meng-Huan Jao, Bo-Ting Lee, [Ting-Han Lin](#), Hsuen-Chung Stan Liao, Ming-Chung Wu, and Wei-Fang Su\*, "Enhancing Efficiency and Stability of Hot Casting p-i-n Perovskite Solar Cell via Dipolar Ion Passivation", **2019, *ACS Applied Energy Materials***, 2, 4821-4832. (▲:51; SCI; IF:5.4 at 2023; Ranking:49/178=27.5% in Chemistry, Physical)

## 2018-

31. Ming-Chung Wu\*, Po-Yeh Wu, [Ting-Han Lin](#), and Tz-Feng Lin, "Photocatalytic Performance of Cu-Doped TiO<sub>2</sub> Nanofibers Treated by the Hydrothermal Synthesis and Air-Thermal Treatment", **2018, *Applied Surface Science***, 430, 390-398. (▲:83; SCI; IF:6.3 at 2023; Ranking:1/23=4.3% in Materials Science, Coatings & Films)
32. Ming-Chung Wu\*, Ming-Pin Lin, [Ting-Han Lin](#), and Wei-Fang Su, "Ag/SiO<sub>2</sub> Surface-Enhanced Raman Scattering Substrate for Plasticizer Detection", **2018, *Japanese Journal of Applied Physics***, 57, 04FM07. (▲:7; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

## 2017-

33. Ming-Chung Wu\*, Ching-Hsiang Chen, Wei-Kang Huang, Kai-Chi Hsiao, [Ting-Han Lin](#), Shun-Hsiang Chan, Po-Yeh Wu, Chun-Fu Lu, Yin-Hsuan Chang, Tz-Feng Lin, Kai-Hsiang Hsu, Jen-Fu Hsu, Kun-Mu Lee, Jing-Jong Shyue, Krisztian Kordas, and Wei-Fang Su, "Improved Solar-Driven Photocatalytic Performance of Highly Crystalline Hydrogenated TiO<sub>2</sub> Nanofibers with Core-Shell Structure", **2017**, *Scientific Reports*, 7, 40896. (▲:48; SCI; IF:3.8 at 2023; Ranking:23/135=17.0% in Multidisciplinary Science)
34. Kun-Mu Lee\*, Chuan-Jung Lin, Yin-Hsuan Chang, [Ting-Han Lin](#), Vembu Suryanarayanan, and Ming-Chung Wu\*, "The Effect of Post-Baking Temperature and Thickness of ZnO Electron Transport Layer for Efficient Planar Heterojunction Organometal-Trihalide Perovskite Solar Cells", **2017**, *Coatings*, 7, 215-226. (▲:5; SCI; IF:2.9 at 2023; Ranking:11/23=47.8% in Materials Science, Coatings & Films)
35. Ming-Chung Wu\*, Yin-Hsuan Chang, and [Ting-Han Lin](#), "Bismuth Doping Effect on Crystal Structure and Photodegradation Activity of Bi-TiO<sub>2</sub> Nanoparticles", **2017**, *Japanese Journal of Applied Physics*, 56, 04CJ01. (▲:3; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)
36. Ming-Chung Wu\*, [Ting-Han Lin](#), Jyun-Sian Chih, Kai-Chi Hsiao, and Po-Yeh Wu, "Niobium Doping Induced Morphological Changes and Enhanced Photocatalytic Performance of Anatase TiO<sub>2</sub>", **2017**, *Japanese Journal of Applied Physics*, 56, 04CP07. (:11; SCI; IF:1.5 at 2023; Ranking:134/179=74.9% in Physics, Applied)

## 2016-

37. Ming-Chung Wu\*, Wei-Cheng Chen, [Ting-Han Lin](#), Kai-Chi Hsiao, Kun-Mu Lee\*, and Chun-Guey Wu\*, "Enhanced Open-Circuit Voltage of Dye-Sensitized Solar Cells Using Bi-Doped TiO<sub>2</sub> Nanofibers as Working Electrode and Scattering Layer", **2016**, *Solar Energy*, 135, 22-28. (▲:20; SCI; IF:6.0 at 2023; Ranking:62/173=35.8% in Energy & Fuels)

## 2015-

38. Ming-Chung Wu\*, Shun-Hsiang Chan, and [Ting-Han Lin](#), "Fabrication and Photocatalytic Performance of Electrospun PVA/Silk/TiO<sub>2</sub> Nanocomposite Textile", **2015**, *Functional Materials Letters*, 8, 1540013. (▲:14; SCI; IF:1.2 at 2023; Ranking:366/438=83.6% in Materials Science, Multidisciplinary)

## 2014

39. Ming-Chung Wu\*, Hseuh-Chung Liao, Yu-Cheng Cho, Che-Pu Hsu, [Ting-Han Lin](#), Wei-Fang Su, Andras Sapi, Akos Kukovecz, Zoltan Konya, Andrey Shchukarev, Anjana Sarkar, William Larsson, Jyri-Pekka Mikkola, Melinda Mohl, Geza Toth, Heli Jantunen, Anna Valtanen, Mika Huuhtanen, Riitta L. Keiski, and Krisztian Kordas, "Photocatalytic Activity of Nitrogen Doped TiO<sub>2</sub>-Based Nanowires: A Photo-Assisted Kelvin Probe Force Microscopy Study", **2014**, *Journal of Nanoparticle Research*, 16, 1-11. (▲:12; SCI; IF:2.1 at 2023; Ranking:143/231=61.9% in Chemistry, Multidisciplinary)