

# Curriculum Vitae



## Biographical Information

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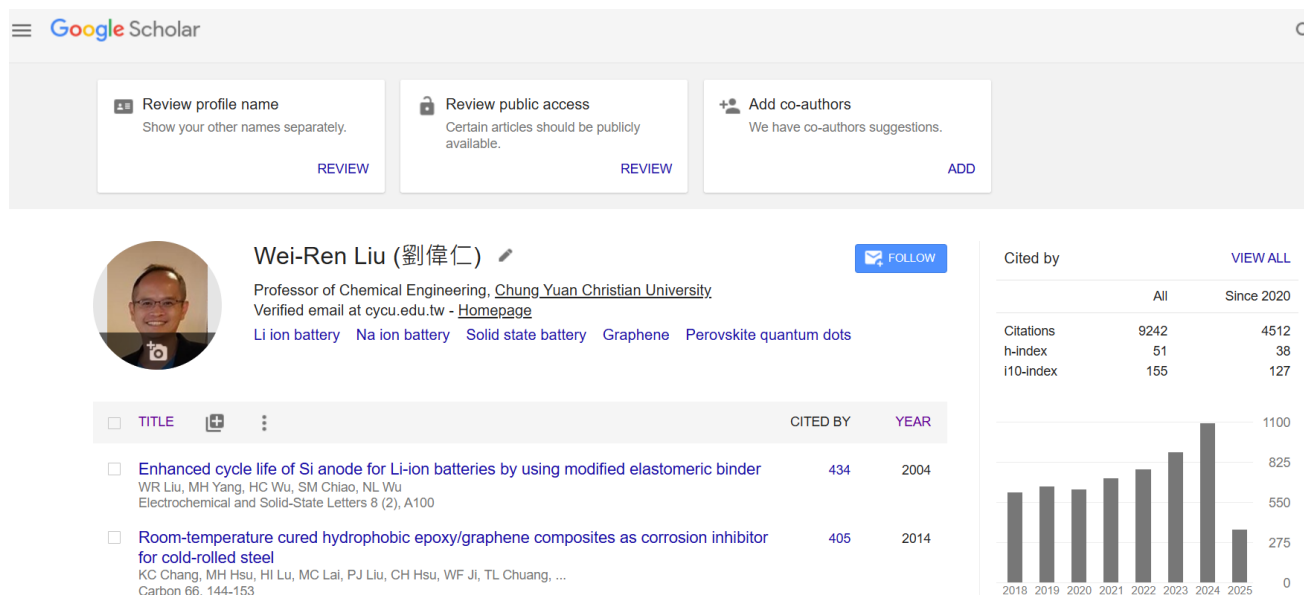
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Patents: **29**, English text books: **2**, Chinese text books: **2**



## Educations

**Ph.D.** in *Department of Chemical Engineering, National Taiwan University* (2006)

**M.S.** in *Department of Chemical Engineering, Chung Yuan Christian University* (2001)

**B.S.** in *Department of Chemical Engineering, Chung Yuan Christian University* (1999)

## Personal Activities

- 2005.10 - 2006.3 Graduate student study abroad program by NSC, R.O.C. in Austria, Graz University of Technology
- 2006.10 - 2012.1 Researcher in Material and Chemistry Laborites, Industrial Technology of Research Institute
- 2009.1 - 2010.12 The examiner, Small Business Innovation Research
- 2012.2 - 2015.7 Assistant Professor, Department of Chemical Engineering, Chung Yuan Christian University
- 2015.8 - 2019.7 Associate Professor, Department of Chemical Engineering,

	Chung Yuan Christian University
2016.2 – 2021.7	Director, Center of Resource and Development, Chung Yuan Christian University
2016.7 - 2016.8	Visiting Professor in Materials Science and Engineering, Hokkaido University, Japan
2018.7 - 2018.8	Visiting Professor in Materials Science and Engineering, Kyushu University, Japan
2019.8 - now	Professor, Department of Chemical Engineering, Chung Yuan Christian University
2021.8 - 2024.7	Director, Office of Research and Development, Department of Chemical Engineering, Chung Yuan Christian University
2023.7 - 2023.8	Visiting Professor in Materials Science and Engineering, Massachusetts Institute of Technology, USA
2022.8 - 2024.7	Vice dean, Office of Research and Development, Department of Chemical Engineering, Chung Yuan Christian University
2022 - 2025	Secondary Reviewer, National Science and Technology Council
2023.11 - now	Chairman, Carbon Society of Taiwan
2023.11 - now	Director, Electrochemical Society of Taiwan

## **Researches Area & Interests**

### **1. Energy storage materials**

Anode/Cathode materials for Li/Na ion batteries  
 Li/Na all solid-state batteries (ASSBs)  
 Solid electrolytes for Li/Na ASSBs

### **2. Graphene-based materials**

Novel approaches to synthesize graphene  
 Graphene-based materials for energy materials  
 Graphene-based materials for heat dissipation  
 Graphene-based materials for EMI shielding  
 Graphene-based materials for anticorrosion  
 Graphene-based materials for lighting

### **3. Luminescence materials**

LED phosphors  
 Carbon quantum dots  
 Perovskite quantum dots  
 LED devices

## Publication List

2025: 13篇

1. Priya Lakshmanan, Chia-Hung Huang, Suba Devi Rengapillai,\* Yong-Song Chen, **Wei-Ren Liu**, Cheng-Liang Hsu and Sivakumar Marimuthu,\* “Graphite Felt Decorated with Metal – Organic Framework-Derived Nanocomposite as Cathode for Vanadium Redox Flow Battery,” *Nanomaterials*, **15**, 7 (2025) 535. [【IF:5.3】](#)
2. Celastin Bebina Thairiyarayar, Ting-Fong Huang, Jeng-Kuei Chang, Ju Li, Soorathep Kheawhom and **Wei-Ren Liu**,\* “Advances in Sodium All-Solid-State Batteries: Insights into Sulfide Solid Electrolytes and Their Applications,” (2025). *J. Taiwan Inst. Chem. Eng. in press*. [【IF:5.5】](#)
3. Purna Chandra Rath, Chun-Yen Chen, Jagabandhu Patra, Chun-Chen Yang, Yu-Sheng Su, Chien-Te Hsieh, **Wei-Ren Liu**, Ju Li, and Jeng-Kuei Chang,\* “High-Entropy Non-Flammable Ionic Liquid/Dimethoxymethane Composite Electrolyte for High-Performance Lithium-Ion Batteries,” *Advanced Sciences* (2025) 2417306. [【IF:14.3】](#)
4. Yu-Hsuan Li, S. Kishore Babu, Duncan H. Gregory, Soorathep Kheawhom, Jeng-Kuei Chang and **Wei-Ren Liu**,\* “Silicon/hard carbon composites synthesized from phenolic resin as anode materials for lithium-ion batteries,” *Nanomaterials* **15**, 6 (2025) 455. [【IF:5.3】](#)
5. Myo Thandar Hlaing, Mohan Gopalakrishnan, Supareak Praserttham, **Wei-Ren Liu**, Ahmad Azmin Mohamad, Saravanan Rajendran, Insik In, Soorathep Kheawhom,\* “Carbon dots as multifunctional additives in zinc-ion batteries: progress, challenges, and opportunities,” *Chem. Eng. J.* **509** (2025) 101327. [【IF:13.4】](#)
6. Wei-Chu Hsu, S. Kishore Babu, Chien-Te Hsieh\* and **Wei-Ren Liu**\*, “Enhanced electrochemical properties of hard carbon anode derived from phenolic resin modified via an oxygen-induced plasma surface treatment for lithium-ion batteries,” *Surface and Interfaces*, **62** (2025) 106282. [【IF:5.7】](#)
7. Pradeep Kumar Panda, Heng-Yu Huang, Pranjyan Dash, Chien-Te Hsieh\*, Jeng-Kuei Chang\*, **Wei-Ren Liu**,\* “Liquid-phase microwave synthesis of platinum-based high-entropy alloy catalysts on carbon supports for electrochemical hydrogen adsorption/desorption and oxygen evolution/reduction reactions,” *Int. J. Hydrogen Energy*, **111** (2025) 536-545. [【IF:8.1】](#)
8. Premnath Jeyaraj Janshirani, Subadevi Rengapillai,\* Soundarrajan Elumalai, Raghu Subashchandrabose, **Wei-Ren Liu** and Sivakumar Marimuthu,\* “Sulfur- layered porous carbon nanostructured matrix - Co<sub>3</sub>O<sub>4</sub> Composites: An enhancement of Cycling Performance in Sodium-Sulfur Battery,” *J. Taiwan Inst. Chem. Eng.* **170** (2025) 105978. [【IF:5.5】](#)
9. Manikandan Venkatesan, Wei-Chun Lin, Wei-Cheng Chen, Jayashree Chandrasekar, Yu-Hang Huang, Kai-Wei Lin, Zih-Syuan Syu, Ja-Hon Lin, Wei-Hung Chiang, **Wei-Ren Liu**,\* Ye Zhou,\* Chi-Ching Kuo,\* “Ambient stable ZnBr<sub>2</sub>-assisted lead-free perovskite for enhanced piezoelectricity of polyvinylidene fluoride in versatile piezo-phototronic applications,” *Chem. Eng. J.* **505** (2025) 159541. [【IF:13.4】](#)

10. Mohan Gopalakrishnan, Myo Thandar Hlaing, Thirumoorthy Kulandaivel, Wathanyu Kao-ian, Mohammad Etesami, **Wei-Ren Liu**, Mai Thanh Nguyen, Tetsu Yonezawa, Wanwisa Limphirat, Soorathep Kheawhom,\* “Tunable N-doped Carbon Dots/SnO<sub>2</sub> Interface as a Stable Artificial Solid Electrolyte Interphase for High-Performance Aqueous Zinc-Ion Batteries,” *J. Alloys Compd.*, **1010** (2025) 178268. [【IF:5.8】](#)
11. Cheng-En Yu, S. Kishore Babu, Ming-Kuen Huang, Jeng-Kui Chang and **Wei-Ren Liu**,\* “Enhancing the electrochemical stability of the Li<sub>1.3</sub>Al<sub>0.3</sub>Ti<sub>1.7</sub>(PO<sub>4</sub>)<sub>3</sub> by altering with Li<sub>6</sub>PS<sub>5</sub>Cl composite solid electrolytes for all-solid-state lithium batteries,” *J. Energy Storage*, **110** (2025) 115332. [【IF:8.9】](#)
12. Thirumoorthy Kulandaivel, Mohan Gopalakrishnan, Wanwisa Limphirat, Chanon Pornrungroj, **Wei-Ren Liu**, Ahmad Azmin Mohamad, Mai Thanh Nguyen, Tetsu Yonezawa and Soorathep Kheawhom,\* “Hybrid g-C<sub>3</sub>N<sub>4</sub>/sulfur-enclosed MnS micro/nanorods accelerate electron-ion transport and asymmetric supercapacitor performance,” *J. Alloys Compd.*, **1010** (2025) 178268. [【IF:5.8】](#)
13. Ya-Hsuan Chiang and **Wei-Ren Liu**,\* “Few-layer graphene/MoS<sub>2</sub> composite coatings via jet cavitation processes for anti-corrosion applications,” *J. Alloys Compd.*, **1010** (2025) 177234. [【IF:5.8】](#)

#### 2024: 20篇

14. Jagabandhu Patra, Thi Xuyen Nguyen, Ananya Panda, Jyh-Ming Ting, Rajendra S Dhak, **Wei-Ren Liu**, Chun-Chen Yang and Jeng-Kuei Chang,\* “Fluoroethylene Carbonate Electrolyte Additive for Improved Charge-Discharge Performance of Co-free High Entropy Spinel Oxide Anodes for Lithium-Ion Batteries,” *Ceramics International*, *in press* (2024). [【IF:5.1】](#)
15. Kai-Wen Liu, Bing-Hsuan Hsu, Jeng-Kuei Chang, Fu-Ming Wang\* and **Wei-Ren Liu**,\* “Surface modification of Li<sub>1.3</sub>Al<sub>0.3</sub>Ti<sub>1.7</sub>(PO<sub>4</sub>)<sub>3</sub> solid electrolytes by polymethylsiloxane-based polymer for all-solid-state lithium batteries,” *Ceramics International* (2024) *in press*. [【IF:5.1】](#)
16. Yu-Chen Chen, Po-Yu Li, Chung-Wei Kung, Jhe-Wei Chang, Cheng-Wei Kao, Chi-Ching Kuo\* and **Wei-Ren Liu**,\* “Near-infrared-emitting (Gd<sub>1-y</sub>Nd<sub>y</sub>)<sub>3</sub>(Ga<sub>1-x</sub>Cr<sub>x</sub>)<sub>5</sub>O<sub>12</sub> Glass Ceramic Phosphors for Light-emitting Diodes,” *Ceramics International* (2024) *in press*. [【IF:5.1】](#)
17. Zhi-Ting Liu, Yu-Chen Hsu, Szu-Chia Chien, Szu-Chia Chien and **Wei-Ren Liu**,\* “Temperature effects on lithium/sodium-ion storage behaviors of hard carbon microspheres derived from phenolic resin as potential anode for rechargeable batteries applications,” *J. Taiwan Inst. Chem. En.* **164** (2024) 105698. [【IF:5.5】](#)
18. Siva Palanisamy, Mohan Gopalakrishnan, Sagar Ingavale, Mohammad Etesami, Wanwisa Limphirat, **Wei-Ren Liu**, Mongkol Tipplook, Katsuya Teshima, Soorathep Kheawhom,\* “Sandwiched heterostructure of NiFe<sub>2</sub>O<sub>4</sub>/TiO<sub>2</sub> nanocrystals and MXene nanosheets for highly active oxygen electrocatalyst in rechargeable zinc-air batteries,” *J. Energy Storage*, **98**, Part B (2024) 113139. [【IF:8.9】](#)
19. Hao-Hsuan Hsia, You-Liang Chen, Yu-Ting Tai, Hong-Kang Tian, Chung-Wei Kung\* and **Wei-Ren Liu**,\* “Two-dimensional Metal-Organic Frameworks/Epoxy Composite Coatings for Anticorrosion Applications,”

*ACS Appl. Mater. & Interfaces*, **16**, 31 (2024) 41421–41434. [【IF:8.3】](#) Cover

20. Yimeng Huang, Yanhao Dong, Yang Yang, Tongchao Liu, Moon-su Yoon, Sipei Li, Baoming Wang, Yongwen Sun, Ying Ham, Aubrey Penn, Jinhyuk Lee, Yaqi Liao, Haijin Ji, Ting Shi, Mengyi Liao, Zexiao Cheng, Jingwei Xiang, **Wei-Ren Liu**, Rasu Muruganantham, Chun-Chuen Yang, Lu Ma, Xianghui Xiao, Yuntong Zhu, Qingjie Li, Ethan Yupeng Zheng, Avetik Harutyunyan and Ju Li,\* “Integrated rocksalt-polyanion cathodes with excess lithium and stabilized cycling,” *Nature Energy* **9** (2024) 1497-1505. [【IF:37.2】](#)
21. Rasu Muruganantham, Jun-Ying Huang, Pei-June Wu, Liang-Yin Kuo, Chun-Chuen Yang, Yan-Gu Lin, Ju Li and **Wei-Ren Liu**,\* “Nano-crystalline  $\text{Fe}_3\text{V}_3\text{O}_8$  Material as an Efficient Advanced Anode for Energy Storage Applications,” *J. Power Sources*, **613** (2024) 234947. [【IF:9.2】](#)
22. Yun-Xiang Lan, Yun-Hsuan Chen, Ying-Lung Chao, Yu-Hsuan Chang, Yu-Chi Huang, **Wei-Ren Liu**,\* Wei-Tsan Wong, Andrew Chi-Fa Sun, Karen S. Santiago, Jui-Ming Yeh,\* “Green and heavy-duty anticorrosion coatings: Waterborne epoxy thermoset composites modified through variation of zinc dust loading and incorporation of ACAT and GO,” *Polymers*, **30**, 16 (2024) 1252. [【IF:5.000】](#)
23. Pei-Jun Wu, Chia-Hung Huang, Chien-Te Hsieh\* and **Wei-Ren Liu**,\* “Synthesis and characterization of  $\text{MnIn}_2\text{S}_4/\text{SWCNT}$  composites as an anode material for Lithium-ion batteries,” *Nanomaterials*, **14**, 8 (2024) 716. [【IF:5.300】](#)
24. Cheng-En Yu, Duncan H. Gregory and **Wei-Ren Liu**,\* “ $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$  (LATP) solid electrolytes synthesized by microwave-assisted hydrothermal reactions for Li all-solid-state battery applications,” *Surface & Coatings Technology*, **481**, (2024) 130671. [【IF:5.400】](#)
25. Debabrata Mohanty, I-Ming Hung,\* Chien-Te Hsieh,\* Jin-Pin Pan and **Wei-Ren Liu**,\* “Critical Review on High-Safety Lithium Ion Batteries Modified by Self-Terminated Oligomers with Hyper Branched Architectures,” *Batteries*, **10**, 2 (2024) 65. [【IF:4.000】](#)
26. Rasu Muruganantham, Hsin-Wei Wu, Yu Lo and **Wei-Ren Liu**,\* “Improving Electrochemical Stability by Modifying the  $\text{Li}_6\text{PS}_5\text{Cl}$  Entailed with the Mixed Phase of  $\text{Li}_{6.4}\text{La}_3\text{Zr}_{1.4}\text{Ta}_{0.6}\text{O}_{12}$  Composite Solid Electrolytes for All-Solid-State Lithium Battery Applications,” *Surface & Coatings Technology*, **479** (2024) 130480. [【IF:5.400】](#)
27. Hsiao-Ching Wang, Rasu Muruganantham, Chien-Te Hsieh\* and **Wei-Ren Liu**,\* “Electrochemical Elucidation of Phosphorus-doped and 3D Graphene Aerogel Surface-modified  $\text{SiO}_x$  Porous Nanocomposite Electrode Material for High-performance Lithium-ion batteries,” *Electrochimica Acta*, **447**, 10 (2024) 143775. [【IF:7.336】](#)
28. Jala Bib Khan, Pradeep Kumar Panda, Po-Chih Yang, Chien-Te Hsieh,\* Yasser Ashraf Gandomi, **Wei-Ren Liu**,\* Jeng-Kuei Chang,\* “Microwave synthesis of high-entropy alloy catalysts on graphene oxide sheets for oxygen reduction and evolution reactions,” *Int. J. Hydrogen Energy*, **53** (2024) 991-1008. [【IF:7.139】](#)
29. Zhi-Ting Liu, Tzu-Hsien Hsieh, Cheng-Wei Huang, Meng-Lun Lee and **Wei-Ren Liu**,\* “Temperature effects

on hard carbon derived from sawdust as anode materials for Sodium ion batteries,” *J. Taiwan Inst. Chem. Eng.*, **154** (2024) 104889. [【IF:5.700】](#)

30. T. Meenatchi, R. Subadevi,\* P. Kumar, S. Raghu, **Wei-Ren Liu**\* and M. Sivakumar,\* “An Impact of Sea Sponge-Derived Hard Carbon with the Symbiosis of Sodium Ion Battery and Biomedical Applications,” **154** (2024) *J. Taiwan Inst. Chem. Eng.* 105083. [【IF:5.700】](#)
31. S. S. Pradeepa, K. Sutharthani, R. Subadevi,\* **Wei-Ren Liu** and M. Sivakumar,\* “Investigation on two-dimensional molybdenum oxide-graphitic carbon nitride ( $\text{MoO}_3\text{-gC}_3\text{N}_4$ ) heterostructures based hybrid electrodes for the fabrication of high energy density solid state supercapacitors,” *J. Taiwan Inst. Chem. Eng.* **154** (2024) 105084. [【IF:5.700】](#)
32. Kuan-Chien Liu, Pradeep Kumar Panda, Bikash Chandra Mallick, Po-Chih Yang, **Wei-Ren Liu**\* and Chien-Te Hsieh,\* “Solid-Phase Microwave Synthesis of High-Entropy Graphene Quantum Dots as Metal-Free Electrochemical Catalysts,” *Applied Surface Science*, **648**, 1 (2024) 159061. [【IF:6.700】](#)
33. Hao-Hsuan Hsia, Geng-Hua Li, Yun-Xiang Lan, Liang-Yin Kuo, Jui-Ming Yeh\* and **Wei-Ren Liu**,\* “Experimental and Theoretical Calculations of Fluorinated Few-layer Graphene/epoxy Composite Coatings for Anticorrosion Applications,” *Carbon*, **217** (2024) 118604. [【IF:11.307】](#)

#### 2023: 16篇

34. Rong-You Zhang, Mengyao Gao, **Wei-Ren Liu**, Wei-Hung Chiang, Li-Hsien Yeh,\* “A Graphene/Carbon Black Nanofluidic Membrane with Fast Ion Transport for Enhanced Electrokinetic Energy Generation,” *Carbon*, **204**, (2023) 1-6. [【IF:11.307】](#)
35. Cheng-Feng Li, Rasu Muruganantham, Wei-Chun Hsu, Martin Ihrig, Chien-Te Hsieh,\* Chih-Chieh Wang\* and **Wei-Ren Liu**,\* “Atomic layer deposition of ZnO on  $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$  enables its application in all solid-state Li Batteries,” *J. Taiwan Inst. Chem. Eng.* **144** (2023) 104681. [【IF:5.876】](#)
36. Rasu Muruganantham, Jou-An Chen, Chun-Chuen Yang, Fu-Ming Wang\* and **Wei-Ren Liu**,\* “Spinel Phase  $\text{MnIn}_2\text{S}_4$  Enfolded with Reduced Graphene Oxide as Composite Anode Material for Lithium-Ion Storage,” *Materials Today Sustainability*, **21** (2023) 100278. [【IF:7.050】](#)
37. Cheng-Kuan Kuo, Mei-Chun Lin and **Wei-Ren Liu**,\* “Effects of Oxygen Vacancy Concentration and Sintering Temperature on Rechargeable Li-ion Storage Performance of Titanium Niobate Anode Materials,” *Ceramics International*, **49**, 4 (2023) 7057-7065. [【IF:5.532】](#)
38. Po-Yu Sung, Mi Lu, Chien-Te Hsieh,\* Yasser Ashraf Gandomi,\* Siyong Gu, **Wei-Ren Liu**,\* “Sodium Super Ionic Conductor-Type Hybrid Electrolytes for High Performance Lithium Metal Batteries,” *Membranes*, **13**, 2 (2023) 201. [【IF:4.562】](#)
39. Yun-Xiang Lan, Kai-Wen Hu, Minsi Yan; **Wei-Ren Liu**,\* Wei-Tsan Wong, Chi-Fa Sun, Jui-Ming Yeh,\* “Synergistic effect of electrocatalytic characteristics of a redox segment and gas barrier of rGO to significantly

replace the loading of zinc dust in solvent-based epoxy composites applied for heavy-duty anticorrosion coatings,” *ACS Applied Engineering Materials*, **1**, 3 (2023) 955-969. [【New SCI】](#)

40. Yun-Xiang Lan, Yi-Chi Cho, **Wei-Ren Liu**,\* Wei-Tsan Wong, Chi-Fa Sun, Jui-Ming Yeh,\* “Small-load rGO as partial replacement for the large amount of zinc dust in epoxy zinc-rich composites applied in heavy-duty anticorrosion coatings,” *Progress in Organic Coatings*, **175** (2023) 107332. [【IF:6.130】](#)
41. Rasu Muruganantham, Tzu-Hsin Tseng, Meng-Lun Lee, Soorathep Kheawhom, and **Wei-Ren Liu**\* “Artificial Interface Modification of Ni-rich Ternary Cathode Material to Enhance Electrochemical Performance for Li-ion Storage through RF-Plasma-assisted Technique,” *Chem. Eng. J.* **464**, 15, (2023) 142686. [【IF:16.744】](#)
42. Yi-Xuan Guo, Chia-Hung Huang, Yasser Ashraf Gandomi, Chien-Te Hsieh\* and **Wei-Ren Liu**,\* “Synthesis and Electrochemical Properties of Co<sub>3</sub>O<sub>4</sub>@reduced Graphene Oxides Derived from MOF as an Anodes for Lithium-Ion Battery Applications,” *Sustainability*, **15** (2023) 4988. [【IF:3.889】](#)
43. Vipada Aupama, Wathanyu Kao-ian, Jinnawat Sangsawang, Mohan Gopalakrishnan, Suttipong Wannapaiboon, Ahmad Azmin Mohamad, Prasit Pattananuwat, Chakrit Sriprachuabwong, **Wei-Ren Liu**, Soorathep Kheawhom,\* “Stabilizing a zinc anode via a tunable covalent organic frameworks-based solid electrolyte interphase,” *Nanoscale*, **15** (2023) 9003-9013. [【IF:8.307】](#)
44. Wen-Chia Chen, Ruei-Ci Wang, Sheng-Kai Yu, Jheng-Liang Chen, Yu-Han Kao, Tzi-Yuan Wang, Po-Ya Chang, Hwo-Shuenn Sheu, Ssu-Ching Chen, **Wei-Ren Liu**, Ta-I Yang,\* Hsuan-Chen Wu,\* “Self-Healable Spider Dragline Silk Materials,” *Adv. Funct. Mater.* (2023) 2303571 [【IF:19.924】](#)
45. Yi-Ting Hsieh and **Wei-Ren Liu**,\* “Highly Porous Silica Synthesized by a Microwave-assisted Hydrothermal Method derived from Recycled Silicon Sludge for Thermal Insulation Applications,” *Ceram. Int.*, **49**, 19 (2023) 32164-32171. [【IF:5.200】](#)
46. Zhen Fan, **Wei-Ren Liu**, Lin Sun, Akira Nishio, Robert Szczesny, Yan-Gu Lin, Shigeto Okada and Duncan Gregory,\* “Carbon-free Conversion of SiO<sub>2</sub> to Si via Ultra-Rapid Alloy Formation: Toward the Sustainable Fabrication of Nanoporous Si for Lithium Ion Batteries,” *ACS Appl. Mater. & Interfaces*, **15**, 30 (2023) 36076-36085. [【IF:10.383】](#)
47. Chih-Wei Yang, Meng-Lun Lee, Wen-Ren Liu, Celastin Bebina Thairiyarayar, **Wei-Ren Liu**,\* Tsan-Yao Chen\* and Chi-Young Lee,\* “Conductive Additives Effects on NCA-LFMP Composite Cathode in Water-Based Binder for HighSafety Lithium-Ion Batteries,” *Micro*, **3**, 3 (2023) 739-748. [【IF:3.523】](#)
48. Chen-Chu Hsu, Livy Laysandra, Yu-Cheng Chiu,\* and **Wei-Ren Liu**,\* “Pivotal Role of Boron-doped Graphene Quantum Dots in Stretchable and Self-Healable Red Emission Nanocomposite Film: One Step Advance for White Light Emitting Diodes Application,” *Chem. Eng. J.* **473** (2023) 145469. [【IF:16.744】](#)
49. Celastin Bebina Thairiyarayar, Chia-Hung Huang, Yasser Ashraf Gandomi, Chien-Te Hsieh\* and **Wei-Ren Liu**,\* “Synthesis and characterization of Na<sub>3</sub>SbS<sub>4</sub> solid electrolytes via mechanochemical and sintered solid-



state reactions: A comparative study,” *Sustainability*, **15**, 21 (2023), 15662. [【IF:3.889】](#)

## 2022: 24篇

50. Jianying Chen, **Wei-Ren Liu**, Yanjuan Li, Xikun Zou, Wei Li, Jiarong Liang, Haoran Zhang, Yingliang Liu, Xuejie Zhang, Chaofan Hu, Bingfu Lei,\* “Architecting ultra-bright silanized carbon dots by alleviating the spin-orbit coupling effect: a specific fluorescent nanoprobe to label dead cells,” *Chem. Eng. J.*, **428** (2022) 131168 [【IF:10.652】](#)
51. Meng-Lin Hsieh, Ruey-Shin Juang, Yasser Ashraf Gandomi, Chun-Chieh Fu, Chien-Te Hsieh,\* **Wei-Ren Liu**,\* “Synthesis and Characterization of High-Performance ZnO/Graphene Quantum Dot Composites for Photocatalytic Degradation of Metronidazole,” *J. Taiwan Inst. Chem. Eng.*, **131** (2022) 104180 [【IF:5.876】](#)
52. Rasu Muruganantham, Mei-Chun Lin, Po Kai Wang, Bor Kae Chang, and **Wei-Ren Liu**,\* “Highly effective Al-doped titanium niobate porous anode material for rechargeable high-rate Li-ion storage performance,” *J. Taiwan Inst. Chem. Eng.*, **131** (2022) 104187. [【IF:5.876】](#)
53. Ting-Hao Hsu, Rasu Muruganantham and **Wei-Ren Liu**,\* “High-energy ball-milling for fabrication of CuIn<sub>2</sub>S<sub>4</sub>/C composite as an anode material for lithium-ion batteries,” *Ceramics International*, **48**, 8 (2022) 11561-11572. [【IF:4.527】](#)
54. Wei-Ting Chen, Rasu Muruganantham and **Wei-Ren Liu**,\* “Construction of 3D Porous Graphene Aerogel Wrapped Silicon Composite as Anode Materials for High-Efficient Lithium-Ion Storage,” *Surface & Coatings Technology*, **434** (2022) 128147. [【IF:4.158】](#)
55. Shu-Han Zhuang, Chun-Chuen Yang, Mingtao Zheng Subadevi Rengapillai, Sivakumar Marimuthu, Yu-Shen Chiang, Bor Kae Chang and **Wei-Ren Liu**,\* “A combined first principles and experimental study on Al-doped Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>F<sub>3</sub> cathode for rechargeable Na batteries,” *Surface & Coatings Technology*, **434** (2022) 128184. [【IF:4.158】](#)
56. Wathanyu Kao-ian, Ahmad Azmin Mohamad, **Wei-Ren Liu**, Rojana Pornprasertsuk, Siwaruk Siwamogsatham, Soorathep Kheawhom,\* “Stability enhancement of zinc-ion batteries using nonaqueous electrolytes,” *Batteries & Supercaps*, **5**, 5 (2022) e202100361. [【IF:7.093】](#)
57. Rasu Muruganantham, Chih-Wei Yang, Hong-Jyun Wang, Chia-Hung Huang and **Wei-Ren Liu**,\* “Industrial silicon-wafer wastage-derived carbon enfolded Si/Si-C/C nanocomposite anode material through plasma-assisted discharge process for rechargeable Li-ion storage,” *Nanomaterials*, **12**, 4 (2022) 659. [【IF:5.076】](#)
58. Yu-Xuan Chiang, Rasu Muruganantham and **Wei-Ren Liu**,\* “Nitrogen-doped hard carbon derived from agro-food waste of mushroom bags biomass as an anode material for sodium-ion batteries,” *MRS Energy & Sustainability*, **9** (2022) 313-323. [【IF:4.300】](#)
59. Kun-Bin Cai, Hsiu-Ying Huang, Meng-Lin Hsieh, Po-Wen Chen, Shou-En Chiang, Sheng Hsiung Chang, Ji-Lin Shen, **Wei-Ren Liu**,\* and Chi-Tsu Yuan,\* “Two-Dimensional Self-Assembly of Boric Acid-Functionalized



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