

YUE ZHANG

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EDUCATION

- 2013 **Ph.D.**, Industrial Engineering, Texas Tech University, Lubbock, Texas
- 2010 **M.S.**, Industrial Engineering, Texas Tech University, Lubbock, Texas
- 2008 **B.S.**, Polymer Materials and Engineering, Beijing University of Chemical Technology, Beijing, China

EXPERIENCE

- **Assistant Professor**, Aug. 2018 – Present, Department of Manufacturing Engineering, Georgia Southern University, Statesboro, GA
- **Visiting Assistant Professor**, Sept. 2016 – Jul. 2018, Department of Mechanical and Industrial Engineering, Texas A&M University-Kingsville, Kingsville, TX
- **Visiting Assistant Professor**, Jan. 2016 – Aug. 2016, Department of Industrial Engineering, Texas Tech University, Lubbock, TX
- **Lecturer**, Jan. 2014 – Jan. 2016, Department of Mechanical and Industrial Engineering, Texas A&M University-Kingsville, Kingsville, TX

PUBLICATIONS

Published Journal Papers

Note: * indicates corresponding author

1. Chaoyu Duan, Yanshuang Meng, Mengqi Du, Lei Wang, and **Yue Zhang***. “Carbon modified porous scale-like γ -Fe₂O₃ as anode for high performance Li-ion batteries”, Journal of Materials Science: Materials in Electronics (2018), 29:11936–11944. doi: 10.1007/s10854-018-9295-6
2. Yanshuang Meng, Jun Xia, Lei Wang, Gongrui Wang, Fuliang Zhu*, and **Yue Zhang***. “A Comparative Study on LiFePO₄/C by In-Situ Coating with Different Carbon Sources for High-Performance Lithium Batteries”, Electrochimica Acta, 261 (2018), 261: 96-103. doi: 10.1016/j.electacta.2017.12.127
3. Mingjun Xiao, Fuliang Zhu, Gongrui Wang, Chaoyu Duan, Yanshuang Meng* and **Yue Zhang***. “One-Step Synthesis of Co@C Composite as High-Performance Anode Material

- for Lithium-ion Batteries”, International Journal of Electrochemical Science (2018), 13: 762-770. doi: 10.20964/2018.01.60
4. Yanshuang Meng, Lei Wang, **Yue Zhang**, Fuliang Zhu, and Dajian Wang. “Pyrolysis Mechanism of Ionic Liquid Under Microwave Irradiation and the Formation of N-Doped Carbon”, Journal of Nanoscience and Nanotechnology (2018), 18: 1818–1823. doi:10.1166/jnn.2018.14242
 5. Yanshuang Meng, Mingjun Xiao, Lei Wang, Chaoyu Duan, Fuliang Zhu*, and **Yue Zhang***. “Microwave Modification of N-Doped Carbon for High Performance Lithium-Ion Batteries”. Journal of Electrochemical Society (2017), 164: A3772-A3776. doi: 10.1149/2.1151714jes
 6. Gongrui Wang, Fuliang Zhu*, Jun Xia, Lei Wang, Yanshuang Meng, and **Yue Zhang***. “Preparation of Co_3O_4 /Carbon Derived from Ionic Liquid and its Application in Lithium-ion Batteries”. Electrochimica Acta (2017), 257: 138-145. doi: 10.1016/j.electacta.2017.10.077
 7. Yanshuang Meng, Gongrui Wang, Mingjun Xiao, Chaoyu Duan, Chen Wang, Fuliang Zhu*, and **Yue Zhang***. “Ionic liquid-derived Co_3O_4 /carbon nano-onions composite and its enhanced performance as anode for lithium-ion batteries”. Journal of Materials Science (2017), 52: 13192–13202. doi: 10.1007/s10853-017-1414-x
 8. Jun Xia, Fuliang Zhu, Gongrui Wang, Lei Wang, Yanshuang Meng*, and **Yue Zhang***. “Synthesis of LiFePO_4/C using ionic liquid as carbon source for lithium ion batteries”. Solid State Ionics (2017), 308, 133-138. doi: 10.1016/j.ssi.2017.06.007
 9. Lei Wang, Fuliang Zhu, Jun Xia, Gongrui Wang, Yanshuang Meng*, and **Yue Zhang***. “Fabrication of N-doped Carbon Derived from poly(acrylonitrile)-ionic Liquid Copolymer and Application in Lithium Ion Batteries”. International Journal of Electrochemical Science (2017), 12, 6545-6556. doi: 10.20964/2017.07.78
 10. Yanshuang Meng, Chen Wang, Lei Wang, Gongrui Wang, Jun Xia, Fuliang Zhu, and **Yue Zhang**. “Efficient Synthesis of Sulfur and Nitrogen Co-Doped Porous Carbon by Microwave-Assisted Pyrolysis of Ionic Liquid”. Acta Physico-Chimica Sinica (2017), 33: 1915-1922. doi: 10.3866/PKU.WHXB201705083
 11. Gongrui Wang, Yanshuang Meng*, Lei Wang, Jun Xia, Fuliang Zhu, and **Yue Zhang***. “Yolk-shell $\text{Co}_3\text{O}_4\text{-CoO}$ /Carbon Composites for Lithium-Ion Batteries with Enhanced Electrochemical Properties”. International Journal of Electrochemical Science (2017), 12, 2618-2627. doi: 10.20964/2017.04.73
 12. Yanshuang Meng, Wangqing Han, Zhong Zhang, Fuliang Zhu, **Yue Zhang**, and Dajian Wang. “ LiFePO_4 Particles Coated with N-Doped Carbon Membrane.” Journal of Nanoscience and Nanotechnology (2017), 17(3), 2000-2005. doi:10.1166/jnn.2017.12869
 13. Yang Zhang, **Yue Zhang**, Zhichao Liu, Dongsheng Guan, Fenfen Wang, Vincent Meyers, Chris Yuan, Andreas Neuber, and Hong-Chao Zhang. “Laser ablation on lithium-ion battery electrode solid electrolyte interface removal”. Journal of Laser Applications (2017), 29(4): 042002. doi: 10.2351/1.5003335

14. Shahrima Maharubin, Xin Zhang, Fuliang Zhu, Hong Chao Zhang, Gengxin Zhang and **Yue Zhang***. "Synthesis and Applications of Semiconducting Graphene". Journal of Nanomaterials (2016), 2016, 6375962. doi: 10.1155/2016/6375962
15. Yanshuang Meng, Xia Jun, Fuliang Zhu*, **Yue Zhang***. "Synthesis of N-doped carbon by microwave-assisted pyrolysis ionic liquid for lithium-ion batteries". International Journal of Electrochemical Science (2016), 11, 9881-9890. doi: 10.20964/2016.12.08
16. Yanshuang Meng, Zhong Zhang, Wangqing Han, **Yue Zhang**, Fuliang Zhu, and Dajian Wang. "Synthesis of Carbon-Coated LiFePO₄ Cathode Material by One-Step Microwave-Assisted Pyrolysis of Ionic Liquid Process". Nano (2016), 11(1), 1650004. doi: 10.1142/S1793292016500041
17. Kun Zhang, Shiren Wang, Xin Zhang, **Yue Zhang**, Yuan Cui, Jingjing Qiu. "Thermoelectric performance of p-type nanohybrids filled polymer composites". Nano Energy (2015), 13, 327-335. doi: 10.1016/j.nanoen.2015.03.004
18. Kun Zhang†, **Yue Zhang**†, Shiren Wang. "Enhancing Thermoelectric Properties of Organic Composites through Hierarchical Nanostructures" (†equal contribution). Scientific Reports 3 (2013). doi: 10.1038/srep03448
19. Kun Zhang, **Yue Zhang**, Shiren Wang. "Effectively Decoupling Electrical and Thermal Conductivity of Polymer Composites". Carbon (2013), 65, 105-111. doi: 10.1016/j.carbon.2013.08.005
20. Xin Zhang, Walid M. Hikal, **Yue Zhang**, Sanjoy K. Bhattacharia, Li Li, Siddharth Panditrao, Shiren Wang, Brandon L. Weeks. "Direct laser initiation and improved thermal stability of nitrocellulose/graphene oxide nanocomposites". Applied Physics Letters (2013), 102(14), 141905/1-141905/4. doi: 10.1063/1.4801846
21. **Yue Zhang**, Liqiang Ren, Kun Zhang, Shiren Wang, Jingjing Qiu. "Increasing the photocurrent of polymer solar cells through the incorporation of graphene nanobelts". Science of Advanced Materials (2013), 5, 366 -372. doi: 10.1166/sam.2013.1466
22. **Yue Zhang**, Shiren Wang, Li Li, Kun Zhang, Jingjing Qiu, Marauo Davis, Louisa J. Hope-Weeks. "Tuning electrical conductivity and surface area of chemically-exfoliated graphene through nanocrystal functionalization". Materials Chemistry and Physics (2012), 135(2-3), 1057-1063. doi: 10.1016/j.matchemphys.2012.06.014
23. **Yue Zhang**, Liqiang Ren, Shiren Wang, Archis Marathe, Jharna Chaudhuri, Guigen Li. "Functionalization of graphene sheets through fullerene attachment". Journal of Materials Chemistry (2011), 21(14), 5386-5391. doi: 10.1039/c1jm10257e
24. Shiren Wang, **Yue Zhang**, Nouredine Abidi, Luis Cabrales. "Wettability and Surface Free Energy of Graphene Films". Langmuir (2009), 25 (18), 11078-11081. doi: 10.1021/la901402f
25. Xiaoxi Huang, Xiaolin Li, **Yue Zhang**, Dawei Dong, Liqun Zhang. "Investigation on Swelling Property of Rubber in Asphalt". Special Purpose Rubber Products (2009), 30(3), 35-39.

Patents

1. Liqun Zhang, Xiaoxi Huang, Xiaolin Li, **Yue Zhang**, Wei Xie, Guichang Cao. “Method for preparing rubber powder masterbatch capable of quickly dispersing modified asphalt”. CN101565286 B, 2011.
2. Liqun Zhang, Xiaoxi Huang, Xiaolin Li, **Yue Zhang**, Wei Xie, Guichang Cao. “Method for preparing rubber powder masterbatch capable of quickly dispersing modified asphalt”. CN101565286 A, 2009.

INVITED PRESENTATIONS

1. “Manufacturing of Hierarchical Nanostructures Materials for Sustainable Energy and Energy Storage”, Zhejiang University, Hangzhou, Zhejiang, China, June 2018
2. “Curriculum Innovation through the Integration of Manufacturing Related Materials and Quality Control Standards for Different Level Engineering Students from Freshmen to Graduates”, with Drs. Kai Jin and Hua Li, NIST 5th Annual Standards Education Workshop, Gaithersburg, MD, Nov. 2017

AWARDED GRANTS

1. Curriculum Innovation through the Integration of Manufacturing Related Materials and Quality Control Standards for Different Level Engineering Students from Freshmen to Graduates, National Institute of Standards and Technology, 9/1/2017-8/31/2019, **\$74,999**, co-PI, 70NANB17H318.

EDITOR AND REVIEWER ACTIVITIES

- Journal Guest Editor
 - Journal of Nanomaterials
 - International Journal of Polymer Science
- Technical Program Committee
 - Composite Materials Congress, International Association of Advanced Materials, 2018
 - Global Conference on Materials Science and Engineering (CMSE) 2014, 2015, 2016, 2017
 - SIUSAI 2017: International Symposium on Intelligent Unmanned Systems and Artificial Intelligence 2017
- Journal Reviewer
 - Nano Energy
 - Langmuir

- Applied Physics Letters
 - Carbon
 - Electrochimica Acta
 - Applied Materials and Interfaces
 - Journal of Applied Physics
 - APL Materials
 - Materials Letters
 - Journal of Materials Science
 - Materials Chemistry and Physics
 - Science of Advanced Materials
 - Journal of Nanomaterials
 - Thin Solid Films
 - Powder Technology
 - Nanoscale Research Letters
 - Sensors and Actuators A: Physical
 - Journal of Nano Energy and Power Research
 - Journal of Materials Science Research and Reviews
 - Fullerene, Nanotubes and Nanostructures
 - Iranian Polymer Journal
- Conference Reviewer
 - Global Conference on Materials Science and Engineering (CMSE) 2013-2017
 - SIUSAI 2017: International Symposium on Intelligent Unmanned Systems and Artificial Intelligence 2017