



Department: School of Chemical Engineering

Professional field: Chemical Engineering and Technology

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Profile

In 2003, he graduated from Shanxi Institute of coal chemistry, Chinese Academy of Sciences and obtained a doctor's degree;

From 2003 to now, he worked in East China University of science and technology; from 2011 to 2012, he worked as a visiting scholar at Rice University in the United States. At the same time, he served as a member of the academic committee of Jiangnan graphene Research Institute and an expert of Shanghai Pudong New Area Science and technology development fund. It is mainly engaged in the structural control of carbon functional materials and the basic research of its application in new energy, environment, medicine, electronics, military industry and other fields. It has undertaken 2 NSFC projects, 1 National 863 key project sub project, 10 school enterprise cooperation projects, participated in 2 NSFC key projects, 2 Shanghai major basic projects, and 2 National Science and technology plan support projects. At present, 65 academic papers have been published in advanced materials and other core journals at home and abroad, including 46 SCI papers.

Research Field

Structural control of carbon functional materials and its application in new energy, environment, medicine, electronics, military industry and other fields.

Research results and selected published papers

- [1] Shubin Yang, Liang Zhan*, Xiaoyue Xu, Yanli Wang, Licheng Ling and Xinliang Feng. Graphene-based porous silica sheets impregnated with polyethyleneimine for superior CO₂ capture. *Advanced materials*, 2013, 25(15), 2130-2134.
- [2] Liang Zhan*, Shubin Yang, Yun Wang, Yanli Wang, Licheng Ling, Xinliang Feng. Fabrication of fully fluorinated graphene nanosheets towards high performance lithium storage. *Advanced materials interface*. 2014, DOI: 10.1002/admi.201300149.
- [3] Shubin Yang, Yongji Gong, Zheng Liu, Liang Zhan, Daniel P. Hashim, Lulu Ma, Robert Vajtai, and Pulickel M. Ajayan. Bottom-up approach toward single-crystalline VO₂-graphene ribbons as cathodes for ultrafast lithium storage. *Nano Letters*. 2013, 13, 1596-1601.
- [4] Yongji Gong, Shubin Yang, Liang Zhan, Lulu Ma, Robert Vajtai, Pulickel M. Ajayan. A Bottom-up approach to build 3D architectures from nanosheets for superior lithium storage. *Advanced Functional Materials*. 2014, 24, 125-130.
- [5] Shubin Yang, Yongji Gong, Jinshui Zhang, Liang Zhan, Lulu Ma, Zheyu Fang, Robert Vajtai, Xinchun Wang, Pulickel M. Ajayan. Exfoliated graphitic carbon nitride nanosheets as efficient catalysts for hydrogen evolution under visible light. *Advanced materials*. 2013, 25, 2452-2456.
- [6] Honggui Deng, Shuangling Jin, Liang Zhan*, Yanli Wang, Wenming Qiao, Licheng Ling. Synthesis of cage-like LiFePO₄/C microspheres for high performance lithium ion batteries. *Journal of power sources*. 2012, 220: 342-347.
- [7] Liang Zhan*, Yanli Wang, Wenming Qiao, Licheng Ling, Shubin Yang. Hollow carbon spheres with encapsulation of Co₃O₄ nanoparticles as anode material for lithium ion batteries. *Electrochimica Acta*. 2012, 78: 440-445.
- [8] Honggui Deng, Shuangling Jin, Liang Zhan*, Wenming Qiao, Licheng Ling. Nest-like LiFePO₄/C Architectures for High Performance Lithium Ion Batteries. *Electrochimica Acta*. 2012, 78: 633-637.
- [9] Song Gyun Ri, Liang Zhan*, Yun Wang, Lihui Zhou, Jun Hu, Honglai Liu. Li₄Ti₅O₁₂/graphene nanostructure for lithium storage with high-rate performance. *Electrochimica Acta*. 2013, 109: 389-394.
- [10] Ximiao Liu, Li Juan, Liang Zhan*, Li Tang, Yanli Wang, Wenming Qiao, Xiaoyi Liang, Licheng Ling. Effect of conductive filler on the impedance behaviors of activated carbon based electric double layer capacitors. *Journal of Electroanalytical Chemistry*. 2010, 642(1): 75-81.
- [11] Juan Li, Can Wang, Liang Zhan*, Wenming Qiao, Xiaoyi Liang, Licheng Ling. Carbon foams prepared by supercritical foaming method. *Carbon*. 2009, 47(4): 1204-1206.
- [12] Zhinan Wang, Liang Zhan*, Ming Ge, Fei Xie, Yanli Wang*, Wenming Qiao, Xiaoyi Liang, Licheng Ling. Pith based spherical activated carbon for CO₂ removal from flue gases. *Chemical Engineering Science*. 2011, 66(22): 5504-5511.
- [13] Yanli Wang*, Chuan Zhang Ge, Liang Zhan*, Cui Li, Wenming Qiao and Licheng Ling. MnO_x-CeO₂/Activated Carbon Honeycomb Catalyst for Selective Catalytic Reduction of NO with NH₃ at Low Temperatures. *Industry & engineering chemical research*. 2012, 51 (36), 11667-11673.