



所属学院 材料科学与工程学院

学科领域 特种玻璃与光电材料

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个人简介

1998年毕业于华东理工大学，获无机化学专业硕士学位；同年留校任教；2006年获华东理工大学材料学博士学位；2004.3-2008.12于捷克 Tomas Bata 大学高分子中心做访问学者；主要从事无机纳米材料，无机/有机功能复合材料方面的研究工作，近年来主要致力于储能电极材料的制备与应用研究。

作为项目负责人承担了国家重点研发计划“政府间国际科技创新合作”重点专项、国家自然科学基金、上海市基础重点、上海市国际科技合作基金，上海市纳米科技专项，上海市浦江人才计划等项目；参加的项目分别获得2010年度教育部自然科学一等奖；2009和2006年度上海市科学技术进步一等奖；申请中国发明专利10项，授权5项。近年来在国际学术期刊杂志上发表SCI收录文章30余篇。

研究方向

- (1) 储能材料的设计、结构调控与电化学性能；
- (2) 无机/有机功能复合材料的制备与应用；
- (3) 纳米材料的构筑及其电磁响应特征。

研究成果及主要发表文章

1. Y. Yan, Q. Cheng*, Z. Zhu, V. Pavlinek, C. Li*, P. Saha, Controlled synthesis of hierarchical polyaniline nanowires/ordered bimodal mesoporous carbon nanocomposites with high surface area for supercapacitor electrodes, Journal of Power Sources, 240 (2013) 544-550.
2. J. Ma, Q. Cheng*, V. Pavlinek, P. Saha, C. Li*, Morphology-controllable synthesis of MnO₂ hollow nanospheres and their supercapacitive performance, New Journal of Chemistry, 37 (2013) 722-728.
3. Y. Yan, Q. Cheng*, V. Pavlinek, P. Saha, C. Li*, Controlled synthesis of mesoporous carbon nanosheets and their enhanced supercapacitive performance, Journal of Solid State Electrochemistry, 17 (2013) 1677-1684.
4. Q. Cheng, Y. Xia, V. Pavlinek, Y. Yan, C. Li*, P. Saha, Effects of macropore size on structural and electrochemical properties of hierarchical porous carbons, Journal of Material Science, 47 (2012) 6444-6450.
5. Y. Yan, Q. Cheng*, V. Pavlinek, P. Saha, C. Li*, Fabrication of polyaniline/mesoporous carbon/MnO₂ ternary nanocomposites and their enhanced electrochemical performance for supercapacitors, Electrochimica Acta 71 (2012) 27-32.
6. Z. Jiang, Q. Cheng*, Y. Yan, L. Zhang, C. Li, Synthesis, characterization and electrochemical capacitance of urchin-like hierarchical polyaniline microspheres, Journal of Macromolecular Science, Part B:Physics, 51(2012) 897-905.
7. M. Sun, G. Wang*, X. Li, Q. Cheng, C. Li, Interfacial synthesis and supercapacitive performance of hierarchical sulfonated carbon nanotubes/polyaniline nanocomposites, Ind. Eng. Chem. Res, 51 (2012) 3981-3987.
8. Y. Yan, Q. Cheng*, G. Wang, C. Li*, Growth of polyaniline nanowhiskers on mesoporous carbon for supercapacitor application, Journal of Power Sources, 196 (2011) 7835-7840.
9. Q. Cheng, V. Pavlinek, Y. He, Y. Yan, C. Li*, P. Saha, Synthesis and electrorheological characteristics of sea urchin-like TiO₂ hollow spheres, Colloid and Polymer Science, 289 (2011) 799-805.
10. Q. Cheng, V. Pavlinek, Y. He, Y. Yan, C. Li*, P. Saha. Template-free synthesis of hollow poly(o-anisidine) microspheres and their electrorheological characteristics, Smart Materials and Structures, 20(2011) 065014.