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科研方向: 研究涉及电化学冶金过程与工程、资源再生利用、储能材料及器件、光电化学和环境电化学等领域。

简历

男, 1977年11月出生于甘肃白银, 教授, 入选教育部新世纪优秀人才计划, 中国熔盐化学技术委员会委员、兼任秘书。1999年毕业于湖南大学化学化工学院腐蚀与防护专业, 2003年获湖南大学材料学硕士学位, 2006年7月获北京科技大学冶金物理化学专业博士学位, 随后相继在英国剑桥大学和美国麻省理工学院从事博士后研究, 2009年7月获北京科技大学正高级专业技术任职资格, 2010年1月回国受聘为北京科技大学冶金与生态工程学院有色冶金系教授。

代表性论文论著

任现职以来代表性论著 (*为通讯作者)

1. Liwen Hu, Wei Wang, Jiguo Tu, Jungang Hou, Hongmin Zhu, Shuqiang Jiao*. Self-assembled amorphous manganese oxides/hydroxide spheres via multi-phase electrochemical interactions in reverse micelle and its capacitive behavior. Journal of Materials Chemistry A, 2013, 1, 5136-5141
2. Yuejiao Hu, Xin Wang, Jiusan Xiao, Jungang Hou, Shuqiang Jiao*, Hongmin Zhu. Electrochemical behavior of silicon (IV) ion in BaF₂-CaF₂-SiO₂ melts at 1573K. Journal of The Electrochemical Society, 2013, 160 (3), D81-D84
3. Shubo Wang, Jianbang Ge, Yuejiao Hu, Hongmin Zhu, Shuqiang Jiao*. Electrochemical reduction of iron oxide in molten sodium hydroxide based on a Ni_{0.94}Si_{0.04}Al_{0.02} metallic inert anode. Electrochimica Acta, 2013, 87, 148-152
4. Jungang Hou, Chao Yang, Zheng Wang, Shuqiang Jiao*, Hongmin Zhu. Bi₂O₃ quantum dots decorated anatase TiO₂ nanocrystals with exposed {001} facets on graphene sheets for enhanced visible-light photocatalytic performance. Applied Catalysis B: Environmental 2013, 129, 334-341
5. Wei Wang, Chenjun Yu, Zheshuai Lin, * Jungang Hou, Hongmin Zhu, Shuqiang Jiao*. Microspheric Na₂Ti₃O₇ consisting of tiny nanotubes as an anode material for sodium-ion batteries with ultrafast charge-discharge rates. Nanoscale, 2013, 5, 594-599
6. Jungang Hou, Chao Yang, Zheng Wang, Weilin Zhou, Shuqiang Jiao*, Hongmin Zhu.

Decorated Mesoporous Single-Crystalline Metastable Bi₂O₃TiO₂ Nanosheets. The Journal of Physical Chemistry C, 2013, 117, 5132-5141

7. Wei Wang, Hualing Wang, Shubo Wang, Yuejiao Hu, Qixiang Tian, Shuqiang Jiao*. Ru-doped Li₄Ti₅O₁₂ anode materials for high rate lithium ions batteries. Journal of Power Sources, 2013, 228, 244-249

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9. Linlin Zhang, Shubo Wang, Shuqiang Jiao*, Kai Huang, Hongmin Zhu. Electrochemical synthesis of titanium oxycarbide in a CaCl₂ based molten salt. Electrochimica Acta, 2012, 75, 357-359

10. Wei Wang, Jiguo Tu, Shubo Wang, Jungang Hou, Hongmin Zhu, Shuqiang Jiao*. Nanostructured Li₄Ti₅O₁₂ synthesized in a reverse micelle: a bridge between pseudocapacitor and lithium ion battery. Electrochimica Acta, 2012 68, 254-259

11. Shuqiang Jiao*, Jiguo Tu, Changyong Fan, Jungang Hou, Derek J Fray. Electrochemically assembling of porous nano-polyaniline network in reverse micelle and its application for a supercapacitor. Journal of Materials Chemistry, 2011, 21, 9027-9030

12. Shuqiang Jiao*, Hongmin Zhu. An investigation into electrochemical recovery of rare earth ions in a CsCl-based molten salt. Journal of Hazardous Materials, 2011, 189, 821-826

13. Shuqiang Jiao, Xiaohui Ning, Kai Huang, Hongmin Zhu. An investigation into the electrochemical dissolution of conductive Ti_xO_{1-x} solid solutions. Pure and applied Chemistry, 2010, 82, 1691-1699.

14. Shuqiang Jiao*, Linlin Zhang, Hongmin Zhu, Derek J Fray. Production of shape memory alloys via electro-deoxidation utilizing an inert anode. Electrochimica Acta, 2010, 55, 7016~7020

15. Shuqiang Jiao*, Derek J Fray. Development of an inert anode for electrowinning in calcium chloride - calcium oxide melts. Metallurgical and Materials Transactions B, 2010, 41, 74

科研业绩

曾承担或参与国家自然科学基金、国家“863”计划、英国EPSRC、美国AISI、NASA和多项国内外企业课题的研究工作。迄今为止在国内外公开学术刊物及国际会议论文集发表学术论文90余篇（SCI检索论文近60篇，EI检索论文10余篇）；申请PCT国际专利、中国发明专利共12项，获授权发明专利6项。