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### 贾桂霄

发布时间: 2018-08-24 阅读次数: 3999



贾桂霄女, 汉族, 出生于1980年, 山西忻州人, 博士, 教授, 硕士研究生导师。2002年, 山西大学化学教育专业, 获学士学位; 2007年, 福州大学物理化学专业, 获博士学位; 2007年7月- 2009年1月, 香港城市大学博士后; 2009年4月至今, 内蒙古科技大学材料与冶金学院。

#### 1、工作经历

1998年9月- 2002年7月在山西大学化学与化工学院化学教育专业攻读学士学位;  
2002年9月- 2007年7月在福州大学化学与化工学院物理化学专业攻读博士学位;  
2007年7月- 2009年1月在香港城市大学物理及材料系做博士后工作;  
2009年4月-2014年8月在内蒙古科技大学材料与冶金学院无机非金属材料专业从事教学与科研工作, 2009年晋升为副教授, 硕士研究生导师;

2014年08月至今在内蒙古科技大学材料与冶金学院无机非金属材料专业从事教学与科研工作, 2014年晋升为教授, 硕士研究生导师

#### 2、研究方向、科研成果

- (1) 固体氧化物燃料电池固体电解质材料
- (2) 锂、钠和钾离子电池正负极材料

#### 3、主要承担的科研项目

内蒙古自治区自然科学基金(2010-2013)  
内蒙古自治区教育厅高等学校科学技术研究项目(2013-2015)  
教育部“春晖计划”(2011-2012)  
内蒙古科技大学创新基金(2009-2012)  
内蒙古自治区自然科学基金(2016-2018)

#### 4、代表性论著

Xiaolu Cheng, Hezhuan Wei, Weijian Hao, Huiyu Li, Huinan Si, Shengli An, Wentao Zhu, Guixiao Jia,\* and Xinping Qiu\*, A Cobalt-Free Li(Li<sub>0.16</sub>Ni<sub>0.19</sub>Fe<sub>0.18</sub>Mn<sub>0.46</sub>)O<sub>2</sub> Cathode for Lithium-Ion Batteries with Anionic Redox Reactions, ChemSusChem 2019, 12, 1162- 1168.

Hezhuan Wei, Xiaolu Cheng, Hongwei Fan, Shengli An,\* Xinping Qiu,\* and Guixiao Jia\*, A Cobalt-Free Li(Li<sub>0.17</sub>Ni<sub>0.17</sub>Fe<sub>0.17</sub>Mn<sub>0.49</sub>)O<sub>2</sub> Cathode with More Oxygen-Involving Charge Compensation for Lithium-Ion Batteries, ChemSusChem 2019, 12, 2471- 2479

Wenting Li, Baijun Yan, Hongwei Fan, Chao Zhang, Hanying Xu, Xiaolu Cheng, Zelin Li, Guixiao Jia,\* Shengli An,\* and Xinping Qiu\*, FeP/C Composites as an Anode Material for K-Ion Batteries, Appl. Mater. Interfaces 2019, 11, 22364-22370.

Lei Li, Hongwei Fan, Hezhuan Wei, Shengli An and Guixiao Jia\*, [2+1] Additions of (n,0)(n=6-10) single-walled carbon nanotubes with di-vacancies based on defect curvature: A first-principles study, Journal of Theoretical and Computational Chemistry, 18 (2019) 1950004.

WEI He-Zhuan, WANG Xiao-Xia, LI Lei, GONG Zhi-Hua, ZHANG Yong-Fan, JIA Gui-Xiao\*, A First-principles Study on the Gas Sensitivity of Metal-loaded Graphene with an Atomic Vacancy to O<sub>2</sub>, Chinese J. Struct. Chem, 2019, 38, 187-194.

FAN Hong-Wei, WU Tong-Wei, LIU Yuan-Yuan, WEI He-Zhuan, AN Sheng-Li, JIA Gui-Xiao\*, Effects of Doping and Oxygen Vacancy Concentrations on Oxygen Ion Migration in SmxCe<sub>1-x</sub>O<sub>2-δ</sub>: a DFT + U Study, Chinese J. Struct. Chem, 2019, 38, 893-900.

Yong Li, Xiaxia Cui, Ningning Sun, Jinhua Du, Xiaowei Li, Guixiao Jia,\* and Xihong Hao\*, Region-Dependent and Stable Ferroelectric Photovoltaic Effect Driven by Novel In-Plane Self-Polarization in Narrow-Bandgap Bi<sub>2</sub>FeMo<sub>0.7</sub>Ni<sub>0.3</sub>O<sub>6</sub> Thin Film, Adv. Optical Mater. 2018, 1801105.

**Jia GuiXiao\***, Pan Fei, Bao JinXiao, Song XiWen, Zhang YongFan, Curvature effect of vacancies in single-walled carbon nanotubes, Surf. Sci. 2015, 633, 29-37.

包金小, 王晓露, 吴铜伟, **贾桂霄\***, 章永凡, 基于曲率和电子结构的掺杂C<sub>50</sub>和C<sub>70</sub>富勒烯的稳定性研究, 物理化学学报, 2015, 31, 899-904.

GuiXiao Jia,\* Lei Li, TongWei Wu, XiaoXia Wang, ShengLi An, Curvature, vacancy size and chirality effects of mono- to octa-vacancies in zigzag single-walled carbon nanotubes, New J. Chem., 2016, 40, 8625

吴铜伟, **贾桂霄\***, 包金小, 刘媛媛, 安胜利, CaO或BaO与Sm<sub>2</sub>O<sub>3</sub>共掺杂CeO<sub>2</sub>体系电子结构和氧离子迁移的DFT+U研究, 无机化学学报, 32, 2016, 1363-1369.

李磊, **贾桂霄\***, 王晓露, 吴铜伟, 宋希文, 安胜利, 基于缺陷曲率对含有V<sub>1</sub>~V<sub>4</sub>空位(5,5)单壁碳纳米管[1+1]和[2+1]加成反应的第一性原理研究, 化学学报, 2017, 75, 284-292.

JichunYang, Xiangjun Liu, GuixiaoJia\*, XiaoyangFu, A first-principles study on electronic structures and elastic properties of metal doped α-Fe(N) high nitrogen steel, Journal of Iron and Steel Research, International, 2017, 24, 103-110.

GuiXiao Jia,\* Lei Li, XiaoXia Wang, XiWen Song, JinXiao Bao, ShengLi An, Curvature and Size Effects on Reactivities of Mono- to Octa-vacancies in a (5,5) Single-walled Carbon Nanotube, Chinese J. Struct. Chem. 2017, 36, 621-630

Zhang YongFan, Li Yi, **Jia GuiXiao**, Li JunQian\*, Density Functional Study on the Electronic Structures of the Hydrogen-Adsorbed Armchair Carbon Nanotube, Acta Chim. Sinica, 2005, 63(19), 581-586.

**Jia GuiXiao**, Li JunQian\*, Zhang YongFan, Electronic Structures and the Tubular Radius Effects of Zigzag Carbon Nanotubes with Finite Size, Acta Chim. Sinica, 2005, 63 (2), 97-102.

Li JunQian\*, **Jia GuiXiao**, Zhang YongFan, Chen Yong, Bond-Curvature Effect of Sidewall [2+1] Cycloadditions of Single-Walled Carbon Nanotubes: A New Criterion To the Adduct Structures, Chem. Mater. 2006, 18(15), 3579-3584.

**Jia GuiXiao**, Li JunQian\*, Zhang YongFan, Electronic Structures and Hydrogenation of a Chiral Single-Wall (6, 4) Carbon Nanotube: a Density Functional Theory Study, Chem. Phys. Lett. 2006, 418 (1-3), 40-45.

Li JunQian\*, **Jia GuiXiao**, Zhang YongFan, Chemical Anisotropies of Carbon Nanotubes and Fullerenes Caused by the Curvature Directivity, Chem. Eur. J. 2007, 13 (22), 6430-6436.

**Jia GuiXiao**, Li JunQian\*, Li Yi, Chen LingGang, Chen Yong, Orbital Interaction of Epoxidation on the Same Curvature Bonds of Single-Walled Carbon Nanotubes, Chinese J. Struct. Chem. 2007, 26 (11), 1308-1314.

**Jia GuiXiao**, Li JunQian\*, Chen LingGang, Li Yi, Ding KaiNing, Zhang YongFan, A Reasonable Criterion of Reactivities at the Defective Region of Single-Walled Carbon Nanotubes, Int. J. Quantum Chem. 2009, 109(4), 668-678.

**Jia GuiXiao**, Zhang RuiQin\*, Zhang WenJun, Frauenheim T., Theoretical Understanding of the Adsorption of F4-TCNQ Molecule on C(100)-2x1: H Surfaces, J. Phys. Chem. C, 2009, 113(20), 8829-8835.

**Jia GuiXiao\***, Liu Li, Qiao XiYuan, Zhang YongFan, Li JunQian, Prediction of the Frontier Electronic States in a Finite Single-wall Carbon Nanotubes, Chinese J. Struct. Chem. 2012, 31(2), 223-234.

**JiaGuiXiao\***, Li XiaoGuang, Li Yi, Zhang RuiQin\*, Li JunQian, Theoretical Calculations on Amphoteric Adsorptions of the Hydrogenated C(100)-2x1 Surface, Chinese J. Struct. Chem. 2012, 31 (7), 994-1002.

**贾桂霄\***, 张勇, 周芬, 李晓光, 张永和, 李俊磊, Sm<sub>2</sub>O<sub>3</sub>对Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>0.75</sub>Fe<sub>0.25</sub>O<sub>3-δ</sub>体系电子结构及氧空位影响的理论研究, 稀土, 2012, 33(5), 37-42.

**JiaGuiXiao\***, Li XiaoGuang, Song XiWen, Li JunQian, Chen Yong, A Reasonable Criterion of Nitrogen-Doped Single-Walled Carbon Nanotubes with Pyridine-Like Configurations, Surf. Sci. 2013, 608, 122-128.

**贾桂霄\***, 郝文兴, 潘飞, 杨吉春, 章永凡, 金属掺杂的CeO<sub>2</sub>体系电子结构和氧离子迁移能的DFT+U研究, 化学学报, 2013, 71, 1668-1675.

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下一条: 宋希文

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