

个人简历

基本信息

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教育背景

2012/8 - 2016/2 墨西哥圣路易斯波多西自治大学 材料科学与工程 博士 导师：SHAOXIAN SONG HU
2009/9 - 2012/6 武汉科技大学 矿物加工工程 硕士 导师：宋少先
2005/9 - 2009/6 武汉科技大学 矿物加工工程 学士

工作经历

2016/05 - 至今 武汉理工大学 矿业工程 博士后 合作导师：宋少先

论文

- F. Jia**, Q. Wang, J. Wu, Y. Li, S. Song*, Two-dimension molybdenum disulfide as a superb adsorbent for removing Hg^{2+} from water. ACS Sustainable Chemistry and Engineering, 2017, 5(8), 7410-7419.
- F. Jia**, X. Zhang, S. Song*. AFM study on the adsorption of Hg^{2+} on natural molybdenum disulfide in aqueous solutions. Physical Chemistry Chemical Physics, 2017, 19, 3837-3844.
- F. Jia**, Y. Lang, Q. Wang, S. Song*. Correlation of natural muscovite exfoliation with interlayer and solvation force. RSC Advances, 2017, 7, 1082-1088.
- F. Jia**, S. Song*. Preparation of monolayer muscovite through exfoliation of natural muscovite. RSC Advances, 2015, 5(65), 52882-52887.
- F. Jia**, J. Su, S. Song*. Can natural muscovite be expanded?. Colloids and Surfaces A: Physicochem. Eng. Aspects, 2015, 471, 19-25.
- F. Jia**, B. Yang, Q. Wan, S. Song*. Variation of interlayer binding energy of muscovite in its swelling. Computational Materials Science, 2017, 132, 74-80.
- F. Jia**, K. Ramirez-Muniz, S. Song*. Mechanism of the formation of micropores in the thermal decomposition of goethite to hematite. Surface and Interface Analysis, 2015, 47(4), 535-539.
- F. Jia**, K. Ramirez-Muniz, S. Song*. Preparation and characterization of porous hematite through thermal decomposition of a goethite concentrate. Mineral Processing & Extractive Metall. Rev., 2014, 35, 193-201.
- F. Jia**, S. Song*. Exfoliation and characterization of layered silicate minerals: a review. Surface Review and Letters, 2014, 21(2), 1430001-1430010.
- F. Jia**, K. Ramirez-Muniz, S. Song*. Preparation of microporous minerals through thermal treatment: a review. Mineral Processing & Extractive Metall. Rev., 2012, 33, 404-415.
- F. Jia**, B. Yang, J. Su, S. Song*. A novel method for the determination of graphite exfoliation degree. Current Nanoscience, 2016, 12(2), 260-265.
- L. Yang, Q. Yang, **F. Jia***, S. Song*, Cr(VI) removal from water with amorphous graphite concentrate contaminated by iron. Mineral Processing and Extractive Metallurgy Review, 2017, 38, 411-416.

13. C. Liu, **F. Jia***, B. Yang, Q. Wang, S. Song*, Two-dimensional molybdenum disulfide as adsorbent for high-efficient Pb(II) removal from water. *Applied Materials Today*, 2017, 9, 220-228.
14. J. Wu, E. D. A. Mario, B. Yang*, C. Liu, **F. Jia**, S. Song*. Efficient removal of Hg²⁺ in aqueous solution with fishbone charcoal as adsorbent. *Environmental Science and Pollution Research*, 2017, 2, 1-10.
15. X. Zhang, **F. Jia**, B. Yang, S. Song*. Oxidation of molybdenum disulfide sheet in water under in situ Atomic Force Microscopy observation. *Journal of Physical Chemistry C*, 2017, 121, 9938-9943.
16. L. Yang, **F. Jia**, S. Song*. Recovery of [Au(CN)₂]⁻ from gold cyanidation with graphene oxide as adsorbent. *Separation and Purification Technology*, 2017, 186, 63-69.
17. K. Ramirez-Muniz, **F. Jia**, S. Song*. Adsorption of As^V in aqueous solutions on porous hematite prepared by thermal modification of a siderite-goethite concentrate. *Environmental Chemistry*, 2012, 9, 512-520.
18. S. Song*, **F. Jia**, C. Peng. Study on decomposition of goethite/siderite in thermal modification through XRD, SEM and TGA measurements. *Surface Review and Letters*, 2014, 21(1), 1450019-1450024.
19. F. Rao, **F. Jia**, A. Lopez-Miranda, S. Song*. A. Lopez-Valdivieso. Synthesis and characterization of silver nanorods in aqueous sodium dodecylsulfate solutions. *Journal of Dispersion Science and Technology*, 2012, 33, 799-804.
20. Y. Zhao, H. Yi, **F. Jia**, H. Li, C. Peng, S. Song*. A novel method for determining the thickness of hydration shells on nanosheets: a case of montmorillonite in water. *Powder Technology*, 2017, 306, 74-79.
21. Q. Wang, G. Ren*, **F. Jia**, S. Song*. Preparation and characterization of nanoscale zero-valent iron loaded porous sepiolite for decolorizing methylene blue in aqueous solutions. *JOM*, 2017, 1-5.
22. **F. Jia**, C. Liu, B. Yang, X. Zhang, H. Yi, S. Song*. Thermal modifying molybdenum disulfide surface for tremendous improvement of Hg²⁺ adsorption from aqueous solution. *ACS Sustainable Chemistry and Engineering*, revised.
23. **F. Jia**, K. Sun, B. Yang, X. Zhang, Q. Wang, S. Song*. Defect-rich molybdenum disulfide as electrode for enhanced capacitive deionization. *Desalination*, revised.
24. M. Zhang, M. Dai, **F. Jia***, S. Song. combined electrosorption and chemisorption of low low concentrated concentrated Pb²⁺ in from water by using molybdenum disulfide electrode. *Applied Surface Science*, revised.
25. L. Yang, **F. Jia***, B. yuan, S. Song. Self-assembly montmorillonite nanosheets supported hierarchical MoS₂ for enhanced catalysis of methyl orange. *Chemical Engineering Journal*, submission.
26. H. Yi, X. Zhang, **F. Jia***, Z. Wei, Y. Zhao, S. Song *. Competition of Hg²⁺ adsorption and surface oxidation on MoS₂ surfaces in water affected by sulfur vacancy defects. *Applied Surface Science*, submission.

专利

1. 宋少先, **贾菲菲**, 杨丙乔, 苏静, 赵云良, 刘艳艳. 武汉理工大学. 一种二维纳米白云母的制备方法. 2016.04.06, 中国, ZL 201410734481.9. (授权)
2. 赵云良, 宋少先, **贾菲菲**, 李宏亮, 刘佳, 陈天星. 一种片状矿物水化膜厚度的测量方法. 中国, CN 105066934 A (公开)
3. 宋少先, **贾菲菲**, 杨浪. 武汉理工大学. 一种利用氧化石墨烯提取金/银的方法. 中国, 201610533960 (公开)

项目

1. 二维纳米辉钼矿吸附剂提取金浸出液中金络合离子的基础研究，国家自然科学基金青年项目，2018.01-2020.12（主持）
2. 二维天然辉钼矿脱除水体中重金属离子的研究，博士后科学基金面上一等资助，2016.06-2018.04（主持）
3. 浮选矿浆的泥化现象与粘土矿物层间水化膜和电荷关系的基础研究，国家自然科学基金面上项目，2015.01-2018.12（参与）
4. 基于硅氧烷分子结构和表面改性的胶体粘土矿物疏水团聚的基础研究，国家自然科学基金面上项目，2017.01-2020.12（参与）
5. 有色金属尾矿资源化利用及安全监测关键技术研究，湖北省自然科学基金创新群体项目，2016.01-2018.12（参与）
6. 鄂东南有色金属尾矿综合利用成套关键技术研究及应用，武汉市高新技术产业科技创新团队计划项目，2016.08-2018.08（参与）
7. 焚烧飞灰烧结工艺技术研究，横向项目，2017.09-2018.04（参与）
8. 墨西哥尾矿库中金银等有色金属回收的可行性及工艺流程试验研究，横向项目，2013.10-2014.10（参与）

会议

1. 2016中国矿业科技大会，沈阳，2016/07/16-17
2. 第一届国际磷矿资源开发学术研讨会，宜昌，2017/06/16-19
3. 第八届海峡两岸人工湿地研讨会暨高层论坛，银川，2017/09/15-21
4. 2017 中国矿物加工大会，长沙，2017/09/22-24
5. 2017年“一带一路”非金属矿与绿色综合利用学术会议，绵阳，2017/11/26-28
6. 第十三届全国颗粒制备与处理学术研讨会，武汉，2017/11/03-05
7. The 3rd International Conference on Water Resource and Environment，青岛，2017/06/26-29