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孙巧珍



个人简介

孙巧珍

中南大学材料科学与工程学院，博士、副教授。

2007年6月毕业于南京大学配位化学研究所，获无机化学理学博士学位。

2007年7月至今，在中南大学从事教学与科研工作。主要从事新型功能材料的设计设备、性能表征与微观结构的研究工作；目前开展的主要研究工作：多孔MOFs材料、高聚物微孔材料、微孔薄膜、气型污染物综合治理等。在国内外学术期刊发表SCI论文三十余篇。

地址：湖南省长沙市岳麓区麓山南路932# 中南大学材料科学与工程学院

邮编：410083

邮箱：rosesunqz@csu.edu.cn (<mailto:rosesunqz@csu.edu.cn>)

科研方向

主要从事新型功能材料的设计设备、性能表征与微观结构的研究工作；目前开展的主要研究工作：多孔MOFs材料、高聚物微孔材料、微孔薄膜、气型污染物综合治理等。

讲授课程

《结构化学》

本课程为材料科学与工程专业的专业基础课。主要介绍微观粒子运动规律的波函数，即原子轨道和分子轨道；分子和晶体中原子的空间排布。通过课程学习，使学生了解化学键的本质，分子和晶体的立体结构；了解“结构决定性能，性能反映结构”的结构和性能相互联系的原则。为性能优异的新材料制备与结构、性能分析奠定理论基础。

学术成果

近期发表的学术论文

13.Qiaozhen Sun, Xiaowei Zhu, Ning Zhang, Bingguang Zhang, Jiangfeng Lu, Hao Liu, Auxiliary ligand-assisted structural variation of two Co(II) metal-organic frameworks: Syntheses, crystal structure and magnetic properties, *Inorganic Chemistry Communications*, 2019, 99, 172-175.

12.QiaoZhen Sun, JunQiao Pan, LiYuan Chai, BingGuang Zhang, NaWei Liu, Hui Liu, A new heterometallic Cu(II)-Cd(II) complex based on 1,3,5-benzenetricarboxylic acid *Inorganic and Nano-Metal Chemistry*, 2018, 48, 165-169.

11.Qiaozhen Sun, Jiangfeng Lu, Liyuan Chai, Nawei Liu, Xiaowei Zhu, Huiyuan Kang, Hui Liu, Synthesis, structures and magnetic properties of four 3D heterometallic cobalt(II)-barium(II) coordination polymers, *Transition Metal Chemistry*, 2018, 43, 439-450.

10.Qiaozhen Sun, Nawei Liu, Junqiao Pan, Bingguang Zhang, Hui Liu, Synthesis, structures and magnetic properties of two 2D-

3Dentangled Cobalt(II) coordination polymers, *Transition Metal Chemistry*, 2017, 42, 517-524.

9. Qiaozhen Sun, Yibiao Yin, Junqiao Pan, Liyuan Chai, Nan Su, Hui Liu, Yinlin Zhao, Xingtao Liu, pH-Dependent two novel heteronuclear Cu(II)/Sr(II) coordination polymers constructed from 1,3,5-benzenetricarboxylic acid: Synthesis, crystal structures and properties, *Journal of Molecular Structure*, 2016, 1106, 64-69.

8. Qiaozhen Sun, Yibiao Yin, Liyuan Chai, Hui Liu, Pengfei Hao, Xueping Yan, Yuqi Guo, A novel 3D heterometallic coordination complex with (3,4,5)-connected net topology: Synthesis, structure and luminescent property, *Journal of Molecular Structure*, 2014, 1070, 75-79.

7. Qiaozhen Sun, Hui Liu, Liyuan Chai, Crystal Structure of a Hexanuclear Silver(I) Compound [Ag₆L66]·4DMF and Luminescence Discussion of a Series of Silver(I) Clusters, *Chinese Journal of Structural Chemistry*, 2013, 32, 667-672.

6. Qiaozhen Sun, Liyuan Chai, Hui Liu, Junke Wang, Hexakis(μ_3 -2-hydroxynaphthalene-1-carboxaldehyde thiosemicarbazonato- κ^3 N₂:S:S) hexasilver(I) N,N-dimethylformamide tetrasolvate, *Acta Crystallographica Section E*, 2013, E69, m50-m51.

5. Qiaozhen Sun, Liyuan Chai, Structure and Luminescence Property of a Hexanuclear Silver(I) Cluster Containing Pyridine-3-carboxaldehyde Thiosemicarbazone, *Chinese Journal of Structural Chemistry*, 2012, 31, 408-414.

4. Qiaozhen Sun, Songyi Liao, Liyuan Chai, Xiaowen Xu, Junjun Yao, Jiali Fangqiong, Synthesis, Structure and Comparison of Luminescent Property between Two Hexanuclear Silver(I) Thiosemicarbazone Clusters, 2012, 31, 1229-1234.

3. Qiaozhen Sun, Songyi Liao, Junjun Yao, Junke Wang, Jiali Fangqiong, *Acta Crystallographica Section E*, 2012, E68, m1160-m1161.