**Curriculum Vitae**

1. **Personal Data**

Name: **Sui-Jun Liu** Gender: Male Date of Birth: 10/28/1986

Nationality: China E-mail: [liusuijun147@163.com](mailto:liusuijun147@163.com)

Address: Department of Applied Chemistry, Jiangxi University of Science and Technology, No.156, Kejia Ave, Ganzhou341000, Jiangxi Province, P.R. China,

1. **Educational Background**

◆ **09/2009 – 06/2014**: Department of Chemistry, Nankai University, Ph.D. in Inorganic Chemistry, Advisor: Prof. Xian-He Bu, Research direction: Coordination Chemistry.

◆ **09/2005 – 06/2009**: Department of Chemistry, Nanchang University, Bachelor of Science in Chemistry.

1. **Research Experiences and Research Interests**

◆ **06/2014 – Present**, Joining in Department of Applied Chemistry, Jiangxi University of Science and Technology as a lecturer of Chemistry, Research Interest: Construction and magnetocaloric effect regulation of molecule-based rare earth cryogenic magnetorefrigerant materials.

◆ **09/2009 – 06/2014**, Department of Chemistry and Tianjin Key Lab of Metal- and Molecule-Based Material Chemistry, Nankai University, Tianjin 300071.

Advisor: Prof. Xian-He Bu.

Research interest: Synthesis, structures and properties of molecule-based magnetic complexes derived from carboxylate ligands

◆ **10/2008 – 06/2009**, Department of Chemistry, Nanchang University.

Advisors: Prof. Xiao-Ming Liu and Dr. Zhi-Mei Li.

Research interest: Synthesis of novel model complexes of [FeFe]-hydrogenase containing ferrocenyl and its electrochemical investigations

1. **Publications and Patents**

**Publications**

1. **Sui-Jun Liu**, Jiong-Peng Zhao, Jun Tao, Ji-Min Jia, Song-De Han, Yue Li, Yan-Cong Chen, Xian-He Bu,\* An unprecedented decanuclear GdIIIcluster for magnetic refrigeration, *Inorg. Chem.*,**2013**, 52(16), 9163-9165.
2. **Sui-Jun Liu**, Jiong-Peng Zhao, Wei-Chao Song, Song-De Han, Zhong-Yi Liu, Xian-He Bu,\* Slow magnetic relaxation in two new 1D/0D DyIII complexes with a sterically hindered carboxylate ligand, *Inorg. Chem.*, **2013**, 52(4), 2103-2109.
3. **Sui-Jun Liu**, Chen-Chao Xie, Ji-Min Jia,Jiong-Peng Zhao, Song-De Han, Yu Cui, Yue Li, Xian-He Bu,\* Low-dimensional carboxylate-bridged GdIII complexes for magnetic refrigeration, *Chem. Asian J.*, **2014**, 9(4), 1116-1122.
4. **Sui-Jun Liu**, Yong-Fei Zeng, Li Xue, Song-De Han, Ji-Min Jia, Tong-Liang Hu\*, Xian-He Bu, Tuning the magnetic behaviors in [FeIII12LnIII4] clusters with aromatic carboxylate ligands, *Inorg. Chem. Front.,* **2014**, 1(2), 200-206.
5. Ji-Min Jia,† **Sui-Jun Liu**,† Yu Cui, Song-De Han, Tong-Liang Hu, Xian-He Bu,\* 3D GdIII complex containing Gd16 macrocycles exhibiting large magnetocaloric effect. *Cryst. Growth Des.*, **2013**, 13(11), 4631-4634.(†J.-M.J. and S.-J.L. contributed equally to this work)
6. **Sui-Jun Liu**,\* Chen Cao, Fan Yang, Mei-Hui Yu, Shu-Li Yao, Teng-Fei Zheng,\* Wei-Wei He, Hai-Xia Zhao, Tong-Liang Hu,\* Xian-He Bu, High proton conduction in two CoII and MnII anionic metal–organic frameworks derived from 1,3,5-benzenetricarboxylic acid, *Cryst. Growth Des.*, **2016**, 16(12), 6776-6780.
7. **Sui-Jun Liu**,Li Xue, Tong-Liang Hu,\* Xian-He Bu, Two new CoII coordination polymers based on carboxylate-bridged di- and trinuclear clusters with a pyridinedicarboxylate ligand: synthesis, structures and magnetism,*Dalton Trans.*, **2012**, 41(22), 6813-6819.
8. **Sui-Jun Liu**,\* Chen Cao, Chen-Chao Xie, Teng-Fei Zheng, Xiao-Lan Tong, Jin-Sheng Liao, Jing-Lin Chen, He-Rui Wen,\* Ze Chang,\* Xian-He Bu, Tricarboxylate-based GdIII coordination polymers exhibiting large magnetocaloric effects, *Dalton Trans.*, **2016**,45(22), 9209-9215.
9. **Sui-Jun Liu**,\* Chen Cao, Shu-Li Yao, Teng-Fei Zheng, Zheng-Xiang Wang, Chao Liu, Jin-Sheng Liao, Jing-Lin Chen, Yun-Wu Li,\* He-Rui Wen\*, Temperature- and vapor-induced reversible single-crystal-to-single-crystal transformations of three 2D/3D GdIII-organic frameworks exhibiting significant magnetocaloric effects, *Dalton Trans.*, **2017**, 46(1), 64-70.
10. **Sui-Jun Liu**, Song-De Han, Ji-Min Jia, Li Xue, Yu Cui, Shu-Ming Zhang, Ze Chang\*, Step-by-step synthesis of one Fe6 wheel and two Fe10 clusters derived from a multidentate triethanoamine ligand, *CrystEngComm*, **2014**, 16(24), 5212-5215.
11. **Sui-Jun Liu**,\* Xin-Rong Xie, Teng-Fei Zheng, Jun Bao, Jin-Sheng Liao, Jing-Lin Chen, He-Rui Wen\*. Three-dimensional two-fold interpenetrated CrIII-GdIII heterometallic framework as an attractive cryogenic magnetorefrigerant, *CrystEngComm*, **2015**, 17(38), 7270-7275. (Front Cover Paper)
12. Zi-Yi Du, Ling Zhang, Bao-Ying Wang, **Sui-Jun Liu**,\* Bo Huang, Cai-Ming Liu,\* Wei-Xiong Zhang,\* Two magnetic Δ-chain-based Mn(II) and Co(II) coordination polymers with mixed carboxylate-phosphinate and μ3-OH− bridges, *CrystEngComm*, **2017**, 19(7), 1011-1136.
13. **Sui-Jun Liu**,\* Teng-Fei Zheng, Jun Bao, Piao-Ping Dong, Jin-Sheng Liao, Jing-Lin Chen, He-Rui Wen,\* Jian Xu,\* Xian-He Bu, Two GdIII complexes derived from dicarboxylate ligands as cryogenic magnetorefrigerants, *New J. Chem*., **2015**, 39(9), 6970-6975.
14. **Sui-Jun Liu**, Song-De Han, Ze Chang,\* Xian-He Bu, Cluster- and chain-based magnetic MOFs derived from 3*d* metal ions and 1,3,5-benzenetricarboxylate, *New J. Chem*., **2016**,40(3),2680-2686.
15. Ying Zeng, **Sui-Jun Liu**,\* Cai-Ming Liu,\* Yong-Rong Xie, Zi-Yi Du\*, Diversified magnetic behaviors in new nickel(II) and copper(II) azido coordination polymers templated by diethyl or triethyl amines, *New J. Chem.*, **2017**, 41(3), 1212-1218.
16. **Sui-Jun Liu**, Wei-Chao Song, Li Xue, Song-De Han, Yong-Fei Zeng, Li-Fu Wang, Xian-He Bu\*, Three new Cu(II)-Ln(III) heterometallic coordination polymers constructed from quinolinic acid and nicotinic acid: synthesis, structures, and magnetic properties, *Sci. China Chem*., **2012**, 55(6), 1064-1072.
17. **Sui-Jun Liu**, Yong-Fei Zeng, Xin Hu, Li Xue, Song-De Han, Ji-Min Jia, Tong-Liang Hu\*, Five new Mn(II)/Co(II) coordination polymers constructed from flexible multicarboxylate ligands with varying magnetic properties, *J. Solid State Chem.*, **2013**, 204, 197-204.
18. **Sui-Jun Liu**, Ji-Min Jia, Yu Cui, Song-De Han, Ze Chang\*, Luminescent pillared LnIII-ZnII heterometallic coordination frameworks with two kinds of *N*-heterocyclic carboxylate ligands, *J. Solid State Chem.*,**2014**, 212, 58-63.
19. Guo-Jian Ren, Yan-Qing Liu, **Sui-Jun Liu**\*, Two novel metal-organic frameworks based on linear dicarboxylic acid and 5-(4-Pyridyl)tetrazole, *J. Solid State Chem.*,**2015**, 232, 79-82.
20. Teng-Fei Zheng, Chen Cao, Piao-Ping Dong, **Sui-Jun Liu**,\* Feng-Feng Wang,\* Xiao-Lan Tong, Jin-Sheng Liao, Jing-Lin Chen, He-Rui Wen\*, Synthesis, structures and magnetocaloric properties of two dinuclear GdIII Clusters derived from monocarboxylate ligands, *Polyhedron*, **2016**, 113, 96-101.
21. Jing-Lin Chen,**\*** Yi-Liang Xiao, Yong Xia, Lu Qu, Li-Hua He, **Sui-Jun Liu,**\* [He-Rui Wen](http://pubs.rsc.org/en/results?searchtext=Author%3AHe-Rui%20Wen), Effects of substituents and phosphine auxiliaries on the structures of Cu(I) clusters with functionalized 2,2′-bipyridyl tetrazole ligands,*Polyhedron*, **2016**, 112, 130-136.
22. **Sui-Jun Liu**,\* Shu-Li Yao, Chen Cao, Teng-Fei Zheng, Cao Liu, Zheng-Xiang Wang, Qiang Zhao,\* Jin-Sheng Liao, Jing-Lin Chen, He-Rui Wen\*, Two di- and trinuclear Gd(III) clusters derived from monocarboxylates exhibiting significant magnetic entropy changes, *Polyhedron*, **2017**, 121, 180-184.
23. Shi-Yong Zhang, Fu-Yong Liang, He-Rui Wen,\* **Sui-Jun Liu**,\* Xiao-Neng Lu, Zi-Yi Du, 2*p*-4*f* MOFs based on naphthalene-1,4,5,8-tetracarboxylate with magnetocaloric effect and slow magnetic relaxation properties, *Polyhedron*, **2017**, DOI: 10.1016/j.poly.2017.04.027.
24. He-Rui Wen,\* Piao-Ping Dong, Fu-Yong Liang, **Sui-Jun Liu**,\* Xin-Rong Xie, Yun-Zhi Tang, A family of 2D lanthanide complexes based on flexible thiodiacetic acid with magnetocaloric or ferromagnetic properties, *Inorg. Chim. Acta*, **2017**, 455, 190-196.
25. He-Rui Wen,\* Fu-Yong Liang, Zheng-Gang Zou, **Sui-Jun Liu**,\* Jin-Sheng Liao, Jing-Lin Chen, Mononuclear Dy(III) complex based on bipyridyl-tetrazolate ligand with field-induced single-ion magnet behavior and luminescent properties, *Inorg. Chem. Commun.*, **2017**, 79, 41-45.
26. **Sui-Jun Liu**,Yu Cui, Wei-Chao Song, Qing-Lun Wang, Xian-He Bu\*, Carboxylate-bridged tetranuclear lanthanide clusters: magnetocaloric effect and slow magnetic relaxation, *Chinese J. Inorg. Chem.,* **2015**,31(9), 1894-1902.

**Patent**:

1. Xian-He Bu, **Sui-Jun Liu**, Jiong-Peng Zhao, Song-De Han，一种具有大的磁热效应的高核钆簇配合物及其制备方法 (Preparation method of a high-nuclear gadolinium cluster complex with a large magnetocaloric effect)。Patent No. ZL201210546500.6 (In Chinese)

2. **Sui-Jun Liu**, Teng-Fei Zheng, Chen Cao, Jing-Lin Chen, He-Rui Wen，一种低场大磁熵变的二维钆配位聚合物及其制备方法 (Preparation method of a two-dimensional coordination polymer with a large magnetic entropy change under low field)。Application No. 201610306895.0 (In Chinese)