

王彦 教授 博士 硕士生导师



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所受教育

- 1998年9月 - 2002年6月 南京大学基础学科教学强化部学习, 获学士学位
- 2002年9月 - 2007年6月 南京大学配位化学国家重点实验室研究生, 获博士学位

研究领域

1. 金属有机框架配合物
2. 光电纳米材料

讲授课程

1. 《无机及分析化学》
2. 《量子化学》
3. 《配位化学》
4. 《结构化学》

获奖与荣誉

1. 2014年 王彦、陈友存、王涛、等, “多给体金属有机晶态材料的设计、制备和性质研究”, 安徽省科学技术奖三等奖
2. 2016年 王彦、沈松泉、周菊红、等 第八届安徽省自然科学优秀学术论文三等奖
3. 2013年 第五届安徽省挑战杯大学生课外学术科技作品大赛 优秀指导教师
4. 2010年 安徽省教坛新秀
5. 2010年 安庆师范学院教坛新星

研究项目

1. 主持 国家自然科学基金: O,N-双官能团配体金属配合物的制备及吸附和磁性质研究
No. 20901004

2. 主持 配位化学国家重点实验室开放课题：基于 O,N-双官能团的金属配合物的构筑、性质和构效关系研究 No.2010-4 （结题）
3. 主持 安徽省自然科学基金：多给体近红外稀土晶态材料：分子设计、结构调控和光性质研究 No. 1408085QB32
4. 主持 安徽省高校省级优秀青年人才基金重点项目：近红外导向稀土晶态材料：分子设计、结构调控和光性质研究 No. 2003SQRL059ZD
5. 参与 教育部科学技术研究重点项目（排名第二）：近红外吸收电荷转移盐：分子设计和光谱性质 No.210102
6. 参与 安徽省教育厅自然科学基金（排名第二）：N-环多羧酸 d-f 杂金属配合物的设计、构筑和光、磁性质研究 No. KJ2013B126

发表论文

一、期刊论文

1. **Y. Wang**, J. Zhou, W. X. Lv, H. L. Fang, W. Wang, “Electrochemical reduction of CO₂ to formate catalyzed by electroplated tin coating on copper foam”, *Appl. Surf. Chem.*, 2016, 362, 394-398.
2. **Y. Wang**, S. Q. Shen, J. H. Zhou, D. Li, J. Zhou, M. Ye, X. X. Wang, G. X. Liu, T. Wang, “Two 2-fold interpenetrated polythreading networks assembled by 4,4'-sulfonyldibenzoic acid and N-donor ligand”, *J. Coord. Chem.*, 2015, 68, 1676-1687.
3. **Y. Wang**, Y. Q. Huang, G. X. Liu, T. -a. Okamura, M. Doi, Y. W. Sheng, W. Y. Sun, N. Ueyama, “New Metal-Organic Frameworks with Large Cavities: Selective Sorption and Desorption of Solvent Molecules”, *Chem. Eur. J.*, 2007, 13, 7523-7531.
4. **Y. Wang**, T. -a. Okamura, W. Y. Sun, N. Ueyama, “Large (H₂O)₅₆(OH)₆ and (H₂O)₂₀ Clusters inside a Nanometer-Sized M₆L₈ Cage Constructed by Five-Coordinated Copper(II) and Flexible Carboxamide-Containing Tripodal Ligand”, *Cryst. Growth & Des.*, 2008, 8, 802-804.
5. H. Zhou, G. X. Liu, X. F. Wang, **Y. Wang**^{*}, Three cobalt(II) coordination polymers based on V-shaped aromatic polycarboxylates and rigid bis(imidazole) ligand: synthesis, crystal structures, physical properties and theoretical studies, *CrystEngComm*, 2013, 15, 1377-1388.

6. **Y. Wang***, Z. Q. Liu, J. H. Zhou, et al., A series of transition metal-organic frameworks assembled by asymmetric dicarboxylate acid and flexible bridging ligand: structural diversities, topologies and properties, *Inorg. Chim. Acta*, 2013, 400, 169-178.
7. **Y. Wang***, S. Q. Shen, J. H. Zhou, et al., Synthesis, structural diversities and properties of a series of transition metal-organic frameworks based on asymmetric dicarboxylic acid and N-donor auxiliary ligand, *Inorg. Chem. Commun.*, 2013, 30, 5-12.
8. **Y. Wang***, Y. J. Dong, G. X. Liu, et al., A new dysprosium(III) complex based on novel pyridyl-carboxylate ligand: Hydrothermal synthesis, crystal structures and distinctive new topology, *Inorg. Chim. Acta*, 2012, 391, 10-14.
9. J. H. Zhou, **Y. Wang***, S. N. Wang, et al., Construction of two cobalt coordination polymers based on asymmetric dicarboxylate ligand: structural diversity tuned by auxiliary ligands, *J. Coord. Chem.*, 2013, **66**, 737-747.
10. **Y. Wang***, G. X. Liu, Y. C. Chen, et al., Two novel lanthanum-tartrate complexes with distinctive new topologies: Hydrothermal synthesis and crystal structures, *Inorg. Chim. Acta*, 2010, **363**, 2668-2672.
11. G. X. Liu, H. Xu, X. M. Ren, S. Nishihara, **Y. Wang***, "Two d¹⁰ coordination polymers based on 4,4'-(hexafluoroisopropylidene)diphthalic acid: Synthesis, structures and physical properties", *Inorg. Chem. Commun.*, 2009, 12, 498-501.
12. **Y. Wang**, Y. W. Sheng, W. Y. Sun, "Synthesis and Crystal Structure of 1-Bromo-3,5-bis(imidazol-1-ylmethyl)benzene-Cd(II) Complexes with Br $\cdots\pi$ and Br \cdots Br Interactions", *Chin. J. Inorg. Chem.*, 2009, 25(7), 1182-1186.
13. **Y. Wang**, G. X. Liu, Y. C. Chen, "Hydrothermal Synthesis and Crystal Structures of Two lanthanum-Tartrate Complexes Cooperated with Ag(I) Complexes", *Chin. J. Inorg. Chem.*, 2009, 25(6), 1084-1090.
14. **Y. Wang**, G. X. Liu, "Synthesis, Crystal Structure and Photoluminescent Properties of A Novel N,O-bifunctional Schiff-Base Ligand and Its Cadmium(II) Complex", *Chin. J. Inorg. Chem.*, 2009, 25(4), 713-719.
15. Y. C. Chen, K. B. Wang, **Y. Wang***, Syntheses, characterization, and luminescent properties of four alkaline earth metal-organic frameworks based on two similar N-containing carboxylates, *Polyhedron*, 2010, 29, 669-674.
16. **Y. Wang***, T. Wang, G. X. Liu, Synthesis, Crystal Structure and Photoluminescent Property

of a Zinc(II) Complex Based on Novel Pyridyl-dicarboxylate Schiff-Base Ligand, *Chin. J. Inorg. Chem.*, 2010, 26(8), 1467-1471.

17. [Y. Wang](#)^{*}, J. H. Zhou, G. X. Liu, Y. C. Chen, *et al.*, A Novel Neodymium-tartrate Complex with Distinctive Rare Topology: Hydrothermal Synthesis and Crystal Structure, *Chin. J. Struct. Chem.*, 2011, 30(12), 1731-1736.
18. [Y. Wang](#)^{*}, K. B. Wang, Y. C. Chen, *et al.*, Synthesis, Characterization and Topological Analysis of an Alkaline Earth Metal-Organic Framework with Flexible Multi-Carboxylic Ligand, *Chin. J. Inorg. Chem.*, 2011, 27(11), 2303-2307.
19. [Y. Wang](#)^{*}, T. Wang, K. B. Wang, *et al.*, A New Nickel(II) Complex based on Novel Pyridyl-carboxylate Schiff-Base ligand: Synthesis and Crystal Structure, *Chin. J. Inorg. Chem.*, 2011, 27(1), 193-196.
20. [Y. Wang](#)^{*}, Y. J. Dong, J. H. Zhou, *et al.*, A Yttrium(III) complex based on pyridyl-carboxylate ligand exhibiting distinctive new topology, *Chin. J. Inorg. Chem.*, 2012, 28, 2407-2412.
21. [Y. Wang](#)^{*}, Z. Q. Liu, S. N. Wang, *et al.*, A Novel Cadmium(II) complex Based on Asymmetric Dicarboxylate and N-Auxiliary Ligand: Synthesis, Crystal Structure and Properties, *Chin. J. Struct. Chem.*, 2013, 32, 903-907.