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首页 | 学院概况 | 师资队伍 | 人才培养 | 科学研究 | 实验中心 | 学科建设 | 党建工作 | 学生园地 | 校友之家 | 工会活动

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师资队伍

教师简介

当前位置： 首页>>师资队伍>>教师风采>>教师简介>>正文

师资概况

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简介：

边贺东，男，1974年5月生，河北承德人，博士，教授，应用化学专业研究生导师，兼任广西师范大学化学与药学学院硕士研究生及博士生研究生导师，广西“新世纪十百千人才工程”第二层次人选，广西青年科技奖获得者。长期从事《无机化学》与《无机化学实验》等本科生课程的教学工作。主要从事生物无机化学的科研工作。近年来主持完成国家自然科学基金2项，主持完成3项广西自然科学基金项目，主持1项广西自然科学基金项目，主持1项教育部留学回国人员科研启动基金，作为主要完成人参加了多项973、国家自然科学基金重点项目、国家级及省部级项目。在国内外期刊Chem. Commun., Inorg. Chem., Dalton, Cryst. Grow. Des., CryEngComm. 等等杂志上发表SCI论文100多篇。已独立指导博士研究生4名及硕士研究生30多名。

研究领域：

主要研究生物大分子与金属离子、药物的相互作用，金属配合物-蛋白质杂化酶的分子设计及催化活性研究、功能金属配合物的合成及性质研究。

历年来获得省部级以上（含省部级、教育厅）科研成果奖情况：

1. 基于DNA、蛋白质靶标新型抗肿瘤活性化合物的发现，广西科技进步一等奖，广西壮族自治区政府，2018.1.29，2017-T-002-5（排名第5）
 2. 模型蛋白质与靶物的相互作用及后续效应研究，广西科技进步一等奖，广西壮族自治区政府，2009.1.5，2009-1-005-3（排名第3）
 3. 若干含 N，O 配体的金属配合物的合成、结构与性能研究，广西自然科学奖三等奖，广西壮族自治区政府，2012.12.30，2012-Z-3-005-2（排名第2）
-

历年获得厅级以上（含厅级）科研学术荣誉称号情况：

1. 广西“新世纪十百千人才工程”第二层人选，广西壮族自治区政府，2012
 2. 第十二届广西青年科技，广西壮族自治区科协，2013
-

近五年作为负责人主持科研项目情况：

1. 金属配合物-血清白蛋白杂化酶的分子设计及其在催化硫醚不对称氧化中的应用研究，国家自然科学基金（21361003），2014.1-2017.12，50万元
2. 金属配合物-蛋白质杂化酶的分子设计及其催化氧化机理研究，国家自然科学基金（21061002），2011.1-2013.12，25万元.
3. 金属配合物与肌红蛋白的杂化及其催化性能研究，广西自然科学基金（2011GXNSFC018009），2011.3-2014.3，4万元.
4. 人工杂化酶的分子设计及其生物无机化学研究，广西第十五批“新世纪十百千人才工程”第二层人选专项资金，2014-2016，15万元.
5. 极低频磁场辐射下药物及金属离子与血清白蛋白的相互作用研究，教育部留学回国人员科研启动基金，2012.6-2015.6，2.3万元.
6. 异常环境中雷公藤有效成份与血清白蛋白的相互作用研究，广西医药产业人才小高地项目(1201)，2013.1-2015.12，7万元.
7. 金属离子对青天葵有效成分与BSA结合作用的影响研究，药用资源化学与药物分子工程广西重点实验室开放基金(CMEMR2012-A02)，2012.6-2015.5，5万元.

近五年公开发表论文情况：

1. Enfeng Zhang, Yi Wei, Fuping Huang*, Qing Yu, **Hedong Bian** *, Hong Liang, Fuhou Lei, Synthesis, crystal structure and bioactivity of manganese complexes with asymmetric chiral Schiff base, *J. Mol. Struct.*, 2018, 1155, 320-329
2. Peng-Fei Yao, Chao-Hong Su, Tai-Xue Wu, You Li, Hong-Mei Hao, Fu-Ping Huang *, Qing Yu, **He-Dong Bian***, Structures and magnetism of {Ni₃}, {Ni₉}, {Ni₅} and {Ni₁₂} mercapto-tetrazole based clusters, *Polyhedron*, 2018, 141, 37-43
3. Four Cu(II) coordination polymorphs and changes in XRD upon hydrothermal condition optimization, Ye Tao, You Li, Xu-Hong Pang, Hai-Ye Li, Fu-Ping Huang*, Huang-Fei Qina and **He-Dong Bian***, *CrystEngComm*, 2017, 19, 6146-6153
4. Chu Zheng, De-Yin Huang, Hai-Ye Li, Fu-Ping Huang*, **He-Dong Bian***, In situ synthesis, characterization, bovine serum albumin (BSA) binding studies of FeII/CoII/NiII complexes derived from a new double bis-triazole macrocyclic ligand, *J. Coord. Chem.*, 2017, 70 (14), 2453-2462
5. Xiu-Mei Zhang, Jie Tang, Li-Na Wang, Di Yao, Qing Yu, Fu-Ping Huang*, **He-Dong Bian***, Superoxide dismutase activity studies of Mn(III)/Co(III)/Fe(III) complexes with Schiff base ligands, *Polyhedron*, 2017, 133, 433-440
6. Jie Tang, Pengfei Yao, Fuping Huang*, Meiyi Luo, Yi Wei, **Hedong Bian***, Stereoselective sulfoxidation catalyzed by achiral Schiff base complexes in the presence of serum albumin in aqueous media, *Tetrahedron: Asymmetry*, 2017, 28, 1700-1707
7. TAO Ye, LI You, YAO Peng-Fei, LI Hai-Ye, HUANG Fu-Ping*, **BIAN He-Dong***, Coordination Assemblies of CdII with 5-(Ethylthio)-1H-tetrazole and Halide Ions: Synthesis, Structure, and Luminescent Properties, *Chinese J. Struct. Chem.*, 2017, 36, 640-646
8. Jie Tang, Fuping Huang, Yi Wei, **Hedong Bian***, Wei Zhang and Hong Liang*, Bovine serum albumin-cobalt(II) Schiff base complex hybrid: an efficient artificial metalloenzyme for enantioselective sulfoxidation using hydrogen peroxide, *Dalton Trans.*, 2016, 45, 8061-8072
9. Jie Tang, Peng-Fei Yao, Xiao-Ling Xu, Hai-Ye Li, Fu-Ping Huang, Qing-Qing Nie, Mei-Yi Luo, Qing Yu, **He-Dong Bian***, Asymmetric catalytic sulfoxidation by a novel VIV8 cluster catalyst in the presence of serum albumin: a simple and green oxidation

system, *RSC Adv.*, 2016,6, 44154-44162

10. Peng-Fei Yao, Han-Fu Liu, Fu-Ping Huang,* Fang-lin Feng, Xiao-Huan Qin, Mei-Li Huang, Qing Yu, **He-Dong Bian***, A family of Zn(II)/Cd(II) halide systems incorporating 5,5'-di(pyridin-2-yl)-3,3'-bi(1,2,4-triazole), *CrystEngComm*, 2016, 18, 938–947
11. Xiu-jun Deng, Qing Yu, **He-Dong Bian***, Hai-Dong Ju, Bao-Ling Wang, Syntheses, structures and properties of complexes of indole-3-propionic acid, *Transit. Met. Chem.*, 2016, 41, 591–598
12. Wei Zhang, Di Yao*, Yi Wei, Jie Tang, He-Dong Bian, Fu-Ping Huang*, Hong Liang, Synthesis, characterization, DNA/protein interaction and cytotoxicity studies of Cu(II) and Co(II) complexes derived from dipyrindyl triazole ligands, *Spectrochim. Acta A*, 2016, 163, 28–44
13. Hui Yu, Wei Zhang, Qing Yu, Fu-Ping Huang*, **He-Dong Bian*** and Hong Liang, Ni(II) Complexes with Schiff Base Ligands: Preparation, Characterization, DNA/Protein Interaction and Cytotoxicity Studies, *Molecules*, 2017, 22, 1772
14. Fu-Ping Huang,* Peng-Fei Yao, Hai-Ye Li, Qing Yu, **He-Dong Bian***, Hong Liang, An intuitional hierarchical assembly of cluster–organic frameworks with a thickness of 1.97 nm from a discrete Co₁₄ cluster, *Chem. Commun.*, 2015, 51, 7598–7601
15. Peng-Fei Yao, Ye Tao, Hai-Ye Li, Xiao-Huan, Qin, Dong-Wei Shi, Fu-Ping Huang*, Qing Yu, Xing-Xing Qin, **He-Dong Bian***, A Family of Fe(II)/Cl Supramolecular Coordination Systems Incorporating 5,5'-Di(pyridin-2-yl)-3,3'-bi(1,2,4-triazole), *Cryst. Growth Des.*, 2015, 15, 4394–4405
16. Peng-Fei Yao, Hai-Ye Li, Fu-Ping Huang*, Qing Yu, Xiao-Huan Qin, Jie Tang, Ye Tao, **He-Dong Bian***, A series of multidimensional MOFs incorporating a new N-heterocyclic building block: 5,5'-di(pyridin-4-yl)-3,3'-bi(1,2,4-triazole), *RSC Adv.*, 2015, 5, 48596–48606
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