

基本信息

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教育背景

1995.09-1998.06	福州大学，功能材料研究所，物理化学专业，理学博士
1992.09-1995.06	兰州大学，无机化学专业，理学硕士
1988.09-1992.06	兰州大学，无机化学专业，理学学士

工作经历

2020.10-至今	北京理工大学化学与化工学院，教授
2013.04-2020.10	西北大学化学与材料科学学院，教授
2005.09-2013.04	中科院兰州化学物理研究所，研究员
1999.05-2005.09	美国佐治亚、瑞士日内瓦、德国弗莱堡大学化学系，博士后

研究方向

1.	金属-金属键的构建
2.	低价态金属配合物的合成
3.	金属诱导的小分子活化
4.	超分子金属有机化学

荣誉奖励

1.	中科院“百人计划”择优支持（2006）
2.	陕西省科学技术奖一等奖（2014, 6/8）
3.	卢嘉锡优秀导师奖（2014）
4.	陕西省“百人计划”特聘专家（2013）

承担项目

1.	含有氧化还原活性配体的13族金属-金属键化合物对小分子的反应性, 国家自然科学基金国际合作项目, 15万, 2020.07 - 2022.06, 主持（在研）
2.	含有氧化还原活性配体的金属配合物的合成、表征及性质, 国家自然科学基金面上项目, 64万, 2018.01 - 2021.12, 主持（在研）
3.	含金属-金属键化合物的小分子反应及机理研究, 国家自然科学基金面上项目, 85万, 2013.01 - 2016.12, 主持
4.	新型金属-金属键诱导的金属有机超分子体系, 国家自然科学基金面上项目, 33万, 2010.01 - 2012.12, 主持
5.	含主族/过渡杂金属-金属多重键化合物合成与性质研究, 国家自然科学基金面上项目, 27万, 2008.01 - 2010.12, 主持
6.	金属-金属键化合物的构筑及性质, 中科院“百人计划”择优支持项目, 270万, 2007.01 - 2011.12, 主持

研究成果

主持国家自然科学基金项目 5 项、参与国家自然科学基金项目等 2 项。迄今在国内外学术刊物及会议上发表学术论文 130 篇, 其中 SCI 收录 120 篇, 获授权专利 1 项。

代表性论文

1.	L. Shen, Y. Zhao, D. Dai, Y.-W. Yang*, B. Wu, X.-J. Yang*, Stabilization of Grignard reagents by a pillar[5]arene host – Schlenk equilibria and Grignard reactions. <i>Chem. Commun.</i> , 2020 , 56, 1381–1384.
2.	M. Ma, L. Shen, H. Wang, Y. Zhao, B. Wu, X.-J. Yang*, N,N'-Dipp-o-phenylene-diamido Dianion: A Versatile Ligand for Main Group Metal–Metal-Bonded Compounds. <i>Organometallics</i> 2020 , 39, 1440–1447.
3.	V. A. Dodonov, L. Xiao, O. A. Kushnerova, E. V. Baranov, Y. Zhao*, X.-J. Yang*, I. L. Fedushkin*, Transformation of carbodiimides to guanidine derivatives facilitated by gallylenes. <i>Chem. Commun.</i> 2020 , 56, 7475–7478.
4.	L. Xiao, W. Chen, L. Shen, L. Liu, Y. Xue, Y. Zhao*, X.-J. Yang, Reduction of carbodiimides by a dialumane through insertion and cycloaddition. <i>Chem. Commun.</i> 2020 , 56, 6352–6355.
5.	W. Zuo, C. Jia, H. Zhang, Y. Zhao, X.-J. Yang*, B. Wu*, Selective recognition of choline phosphate by tripodal hexa-urea receptors with dual

	binding sites: crystal and solution evidence. <i>Chem. Sci.</i> , 2019 , <i>10</i> , 2483–2488.
6.	M. Ma, H. Wang, J. Wang, L. Shen, Y. Zhao, W.-H. Xu, B. Wu, X.-J. Yang*, Mg–Mg-bonded compounds with N,N'-dipp-substituted phenanthrene-diamido and o-phenylene-diamino ligands. <i>Dalton Trans.</i> , 2019 , <i>48</i> , 2295–2299.
7.	L. Shen, Y. Zhao, Q. Luo, Q.-S. Li, B. Liu, C. Redshaw, B. Wu, X.-J. Yang*, Cyclotrimerization of alkynes catalyzed by a self-supported cyclic tri-nuclear nickel(0) complex with α -diimine ligands. <i>Dalton Trans.</i> , 2019 , <i>48</i> , 4643–4649.
8.	V. A. Dodonov, W. Chen, Y. Zhao*, A. A. Skatova, P. W. Roesky, B. Wu, X.-J. Yang*, I. L. Fedushkin*, Gallium “Shears” for C=N and C=O Bonds of Isocyanates. <i>Chem. Eur. J.</i> 2019 , <i>25</i> , 8259–8267.
9.	X. Fan, D. Zhang, S. Jiang, H. Wang, L.-T. Lin, B. Zheng, W.-H. Xu, Y. Zhao, B. P. Hay, Y.-T. Chan, X.-J. Yang*, X. Li, B. Wu*, Construction and interconversion of anioncoordination-based (‘aniono’) grids and double helicates modulated by counter-cations. <i>Chem. Sci.</i> , 2019 , <i>10</i> , 6278–6284.
10.	J. Wang, J. Wang, L. Shen, Y. Zhao*, B. Wu, X.-J. Yang*. Reactions of Dianionic α -Diimine Supported Dimagnesium(I) Compound [K(THF) ₃] ₂ [LMg–MgL] with Nitriles. <i>Organometallics</i> , 2019 , <i>38</i> , 2674–2682.
11.	W. Chen, Y. Zhao,* W. Xu, J.-H. Su, L. Shen, L. Liu, B. Wu, X.-J. Yang*, Reductive linear- and cyclo-trimerization of isocyanides by an Al–Al-bonded compound. <i>Chem. Commun.</i> 2019 , <i>55</i> , 9452–9455.
12.	W. Zhang, V. A. Dodonov, W. Chen, Y. Zhao,* A. A. Skatova, I. L. Fedushkin,* P. W. Roesky, B. Wu, X.-J. Yang,* Cycloaddition versus Cleavage of C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Non-Innocent α -Diimine Ligands. <i>Chem. Eur. J.</i> 2018 , <i>24</i> , 14994–15002.
13.	H. Yang, Y. Zhao, B. Liu, J.-H. Su, I. L. Fedushkin, B. Wu, X.-J. Yang*, Noninnocent ligands: heteroleptic nickel complexes with α -diimine and 1,2-diketone derivatives. <i>Dalton Trans.</i> , 2017 , <i>46</i> , 7857–7865.
14.	F. Zhong, X. Yang, L. Shen, Y. Zhao, H. Ma, B. Wu, X.-J. Yang*, Multinuclear Alkali Metal Complexes of a Triphenylene-Based Hexamine and the Transmetalation to Tris(N-heterocyclic tetrylenes) (Ge, Sn, Pb). <i>Inorg. Chem.</i> 2016 , <i>55</i> , 9112–9120.
15.	I. L. Fedushkin*, A. A. Skatova, V. A. Dodonov, X.-J. Yang, V. A. Chudakova, A. V. Piskunov, S. Demeshko, E. V. Baranov, Ligand “Brackets” for Ga–Ga Bond. <i>Inorg. Chem.</i> 2016 , <i>55</i> , 9047–9056.
16.	Y. Zhao, Y. Xue, W. Xu, J.-H. Su, B. Wu, X.-J. Yang*, Synthesis and Structures of Mono- and Dinuclear Molybdenum Complexes with Reduced α -Diimine Ligands. <i>Eur. J. Inorg. Chem.</i> 2016 , 5411–5417.
17.	Y. Zhao, Y. Liu, Z. Wang, W. Xu, B. Liu, J.-H. Su, B. Wu, X.-J. Yang*, Gallium complexes with α -diimine and phenazine in various reduced states.

	<i>Chem. Commun.</i> , 2015 , <i>51</i> , 1237–1239.
18.	Y. Zhao, Y. Liu, B. Wu, X.-J. Yang*, Reactions of α -diimine-aluminum complexes with sodium alkynides: Versatile structures of aluminum σ -alkynide complexes. <i>Dalton Trans.</i> 2015 , <i>44</i> , 13671–13680.
19.	X. Wang, Y. Zhao, S. Gong, B. Liu, Q.-S. Li, J.-H. Su, B. Wu, X.-J. Yang*, Mono- and Dinuclear Heteroleptic Cobalt Complexes with α -Diimine and Polyarene Ligands. <i>Chem. Eur. J.</i> 2015 , <i>21</i> , 13302–13310.
20.	Y. Zhao, Z. Wang, X. Jing, Q. Dong, S. Gong, Q.-S. Li, J. Zhang, B. Wu, X.-J. Yang*, α -Diimine nickel complexes of ethylene and related alkenes. <i>Dalton Trans.</i> 2015 , <i>44</i> , 16228–16232.