

基本信息

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职务	制药工程专业责任教授	
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教育背景

2000.09-2003.06	中科院研究生院，有机化学专业，理学博士
1992.09-1995.07	西南师范大学，化学教学论专业，教育学硕士
1988.09-1992.07	西南师范大学，化学专业，理学学士

工作经历

2008.05-至今	北京理工大学化学与化工学院，教授、博士生导师
2007.05-2008.04	北京理工大学化工与环境学院
2003.07-2007.04	四川大学，化学学院，博士后
2005.05-2006.07	京都大学 (Kyoto University)，博士后
1995.08-2000.08	浙江皇嘉生化有限公司，车间主任、研发部经理

研究方向

1.	不对称催化、手性合成
2.	含能材料合成与性能

荣誉奖励

1.	教育部自然科学一等奖（2010年，第六完成人）
2.	
3.	

承担项目

1.	“新颖 N-亲电型试剂的合成及其参与的催化不对称反应”，国家自然科学基金 (21971013)，65 万元，主持 (2020.1-2023.12)
2.	“XXX 的合成技术”，72 万元，XX6 项目办，主持，2017.1-2020.12
3.	“三唑并四嗪类高能钝感含能化合物合成”，国家自然科学基金 (21772011)，64 万元，主持 (2018.1-2021.12)
4.	“不敏感高能化合物的制备及性能研究”，九院三所，9.5 万元，2015.1-2015.12
5.	“四唑-三硝基苯化合物的合成与表征”，九院三所，8 万元，2015.1-2015.12
6.	“氟硼酸酯的合成与性能研究”，九院三所，28 万元 (2014.10-2016.9)
7.	“TNBT 及其类似物的合成技术开发”，XX6 专项子课题 (00402040103)，20 万元，参与 (2012.1-2014.12)
8.	“不对称 α -亲电氰化反应研究”，国家自然科学基金 (21572020)，65 万元，主持 (2016.1-2019.12)
9.	“新颖多氮化合物的合成方法研究”，国家自然科学基金 (21372027)，80 万元，主持 (2014.1-2017.12)
10.	“TMS-CF ₃ 试剂与烯酮的不对称亲核加成反应研究”，国家自然科学基金 (21172018)，60 万，主持 (2012.1-2015.12)
11.	“手性季铵盐参与的催化不对称 1,4-氰基加成反应研究”，国家自然科学基金 (20972016)，35 万，主持 (2010.1-2012.12)
12.	“有机小分子催化醛的不对称硅腈化反应研究”，国家自然基金 (20502019)，25 万，主持 (2006.1-2008.12)
13.	“XXX 分子设计与合成研究”，国防 973 子课题 (613830101-3)，参与 (2008.1-2011.12)

研究成果

主持国家自然科学基金项目 7 项、承担企业合作项目 3 项；主持/参与其它国家级项目 3 项。迄今在国内外学术刊物及会议上发表学术论文 100 余篇，其中 SCI 收录 70 篇，EI 收录 10 余篇，获授权专利 3 项。SCI 引用累计超过 1600 余次，个人 H-因子 23。

1.	发展并研究了新型不对称 1,4-共轭氢氰化反应。
2.	发展了新颖亲电型氰基、硫氰基、硒氰基试剂，并研究其在新型不对称催化反应中的应用。
3.	设计、合成了系列低感、高能含氮杂环含能化合物，并研究其应用性能。
4.	
5.	

代表性论文

1.	Di Wu, Jiashen Qiu, Chengqiu Li, Lexia Yuan, Hongquan Yin, Fu-Xue Chen*. Lewis Acid-Catalyzed Asymmetric Selenocyanation of β -Ketoesters with <i>N</i> -Selenocyanatosaccharin. <i>The Journal of Organic Chemistry</i> 2020 , 85, 934-941.
2.	Chengqiu Li, Pingliang Long, Haopeng Wu, Hongquan Yin and Fu-Xue Chen*. <i>N</i> -Thiocyanato-dibenzenesulfonimide: An Active, Broadly Applicable Electrophilic Thiocyanating Reagent. <i>Organic & Biomolecular Chemistry</i> 2019 , 17, 7131-7134.
3.	Tian Lu, Chenbin Wang, Guilong Wang, Shaoqing Wang, Jia Song, Hongquan Yin, Guijuan Fan and Fu-Xue Chen*. 1,2,4-Oxadiazole-derived polynitro energetic compounds with sensitivity reduced by methylene bridge. <i>New Journal of Chemistry</i> 2019 , 43, 13330-13333
4.	Jiashen Qiu, Di Wu, Lexia Yuan, Pingliang Long, Hongquan Yin, and Fu-Xue Chen*. Organocatalyzed Asymmetric α -Thiocyanation of Oxindoles: Synthesis of Chiral Tertiary 3-Thiocyanatoxindoles. <i>The Journal of Organic Chemistry</i> 2019 , 84(12): 7917-7926.
5.	Guilong Wang, Zhanda Fu, Hongquan Yin and Fu-Xue Chen*. Synthesis and Properties [1,2,4]Triazolo[4,3-b][1,2,4,5]tetrazine <i>N</i> -Oxide Explosives. <i>Propellants, Explosives, Pyrotechnics</i> 2019 , 44(8):1010-1014.
6.	Guilong Wang, Tian Lu, Guijuan Fan, Hongquan Yin and Fu-Xue Chen*. Synthesis and Properties of Insensitive [1,2,4]Triazolo[4,3-b]-1,2,4,5-tetrazine Explosives. <i>New Journal of Chemistry</i> 2019 , 43(4):1663-1666.
7.	Guilong Wang, Tian Lu, Guijuan Fan, Chengqiu Li, Hongquan Yin, and Fu-Xue Chen*. The Chemistry and Properties of Energetic Materials Bearing [1,2,4]Triazolo[4,3-b]- [1,2,4,5]tetrazine Fused Rings. <i>Chemistry- An Asia Journal</i> 2018 , 13(23):3718-3722.
8.	Yong-Tao Gao, Lin-Man Zhao, Fu-Qing Pang, Xiu-Juan Qi, Jing-Lun, Huang, Fu-Xue Chen*. Synthesis and properties of energetic salts containing 1,2,4-oxadiazole ring. <i>Chinese Chemistry Letters</i> 2016 , 27, 433-436.
9.	Xingye Li [†] , Jiayu Nan, [†] Tian Lu, Hongyu Huo ^a , Yanqiang Zhang, Haibo Li, Fude Nie, Hongquan Yin and Fu-Xue Chen*. Exploring BH ₂ CN-based hydrophobic hypergolic fuels and effective fuel “additives”: imidazolylidene cyanoborane complexes. <i>Chinese Chemistry Letters</i> 2018 , 29(6):939-941.
10.	Pran Gopal Karmaker, Jiashen Qiu, Di Wu, Sule Zhang, Hongquan Yin and Fu-Xue Chen*. Improved Organocatalytic Electrophilic α -Cyanation of β -Keto Amides with 1-Cyanato-4-nitrobenzene. <i>Tetrahedron Letters</i> 2018 , 59(7): 2034-2037.
11.	Jia-Shen Qiu, Di Wu, Pran Gopal Karmaker, Hongquan Yin and Fu-Xue Chen*. Enantioselective Organocatalyzed Direct α -Thiocyanation of Cyclic β -ketoesters by <i>N</i> -Thiocyanophthalimide. <i>Organic Letters</i> 2018 , 20(6):1600-1603.
12.	Pran Gopal Karmaker, Jiashen Qiu, Di Wu, Hongquan Yin and Fu-Xue Chen*. Free Radical Cyclization of <i>N</i> -Arylacrylamides: Mild and Facile Synthesis of 3-Thiocyanato Oxindoles. <i>Synlett</i> 2018 , 29(7):954-958.
13.	Xingye Li, Tian Lu, Jiayu Nan, Haibo Li, Fude Nie, Yan-Qiang Zhang and Fu-Xue Chen*. Hydrophobic <i>N</i> -alkylimidazole-cyanoborane adducts as ultrafast-igniting

	hypergolic fuels and efficient high energy-capacity fuel “additive”. <i>ChemistrySelect</i> , 2018 ,3, 2548-2552.
14.	Fuqing Pang, Tian Lu, Guilong Wang, Guijuan Fan and Fu-Xue Chen*. Preparation and characteristic of Nitrogen-linked 1,2,4-oxadiazole-containing energetic salts. <i>New Journal of Chemistry</i> 2018 , 42(6):4036-4044.
15.	Di Wu, Jiashen Qiu, Pran Gopal Karmaker, Hongquan Yin* and Fu-Xue Chen*. <i>N</i> -Thiocyanothiosaccharin: A ‘sweet’ electrophilic thiocyanation reagent and the synthetic applications. <i>The Journal of Organic Chemistry</i> 2018 , 83(3):1576-1583.
16.	Qi Wang, Tian Lu, Chenbin Wang, Guijuan Fan, Hongquan Yin, and Fu-Xue Chen*. Synthesis of 5,5'-azoxybistetrazole via nitration and de-oxygen rearrangement of triazene. <i>New Journal of Chemistry</i> 2017 , 41, 11512-11516.
17.	Pran Gopal Karmaker, Jiashen Qiu, Di Wu, Mengmeng Reng, Zhuo Yang, Hongquan Yin and Fu-Xue Chen*. Enantioselective Electrophilic Cyanation of β -keto Amides Catalyzed by Cinchona Organocatalyst. <i>Organic & Biomolecular Chemistry</i> 2017 , 15(37):7753-7757.
18.	Jiashen Qiu, Di Wu, Pran Gopal Karmaker, Guirong Qi, Peng Chen, Hongquan Yin and Fu-Xue Chen*. Catalytic Asymmetric Electrophilic Cyanation of 3-Substituted Ox-indoles. <i>Organic Letters</i> 2017 , 19(15):4018-4021.
19.	Xingye Li, Hongyu Huo, Haibo Li, Fude Nie, Hongquan Yin and Fu-Xue Chen*. Cyanotetrazolylborohydride (CTB) anion-based ionic liquids with low viscosity and high energy capacity as ultrafast-igniting hypergolic fuels. <i>Chemical Communication</i> 2017 , 53, 8300-8303.
20.	Xingye Li, Chenbin Wang, Haibo Li, Fude Nie, Hongquan Yin, Fu-Xue Chen*. Bis(tetrazole)borate (BTB) Anion-Based Hypergolic Ionic Liquids with High-Density and Energy Capacity. <i>Journal of Materials Chemistry A</i> 2017 , 5, 15525-15528.
21.	Qi Wang, Chenbin Wang, Fuqing Pang, Tian Lu, Hongquan Yin and Fu-Xue Chen*. Synthesis and characterization of functionalized 1,3-bis(2-alkyltetrazol-5-yl)triazenes. <i>Chinese Chemistry Letters</i> 2017 , 28(8):1784-1787.
22.	Jia-Shen Qiu, Yao-Feng Wang, Guirong Qi, Pran Gopal Karmaker, Hong-Quan Yin, and Fu-Xue Chen*. Highly efficient enantioselective electrophilic α -cyanation with 4-acetylphenyl cyanate. <i>Chemistry-A European Journal</i> , 2017 , 23(8):1775-1778.
23.	Qi Wang, Fuqing Pang, Guilong Wang, Jinglun Huang, Fude Nie and Fu-Xue Chen*. Pentazadiene: a high-nitrogen linkage in energetic materials. <i>Chemical Communications</i> , 2017 , 53(15):2327-2330.
24.	Xingye Li, Huijie Lu, Qi Wang, Jinglun Huang, Fude Nie, Haibo Li, and Fu-Xue Chen*. The Synthesis and Improved Properties of Hypergolic Boronium-Based Ionic Liquids. <i>Chinese Journal of Chemistry</i> 2016 , 34(7):709-714.
25	Feipeng Lu [†] , Engyu Wang [†] , Ming Huang, Fude Nie, Jinglun Huang, and Fu-Xue Chen*. The synthesis, property and reduction of high-nitrogen compound 3,3',5,5'-tetraazido- 4,4'-bis(1,2,4-triazole). <i>Polyhedron</i> 2016 , 117, 445-452.