肖斌

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单位：化学与材料科学学院

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个人简历

2002-2006 中国科学技术大学 化学 学士

2006-2011 中国科学技术大学 有机化学 博士 导师：郭庆祥教授

2011-2013 清华大学 化学生物学 博士后 导师：刘磊教授

2013-2020 中国科学技术大学 历任副教授、特任教授，博士生导师

2020至今 中国科学技术大学 教授

全国百篇优博（2013）

中科院青年创新促进会优秀会员（2019）

中国化学会元素周期表锗元素代言人（2019）

国家基金委优秀青年科学项目（2020）

研究方向

有机锗化学

元素有机化学

招生信息

实验室的研究围绕锗的元素有机化学展开，相关领域包括过渡金属催化、自由基和卡宾化学、有机材料等。

希望你性格随和，能够与实验室其他成员融洽相处。你必须对有机化学有着强烈的兴趣，具备良好的动手能力，并且有不错的英语水平。

论文专著

1) Alkylation-Terminated Catellani Reactions Using Alkyl Carbagermatranes - Alkylation-Terminated Catellani Reactions Using Alkyl Carbagermatranes - 2020

2) Zn-mediated decarboxylative carbagermatranation of aliphatic N-hydroxyphthalimide esters: evidence for an alkylzinc intermediate - Zn-mediated decarboxylative carbagermatranation of aliphatic N-hydroxyphthalimide esters: evidence for an alkylzinc intermediate - 2020

3) Tertiary cyclopropyl carbagermatranes: synthesis and cross-coupling - Tertiary cyclopropyl carbagermatranes: synthesis and cross-coupling - 2021

4) Alkyl-GeMe3: Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis - Alkyl-GeMe3: Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis - 2022

5) 4,5-Disubstituted pyrenes from phenangermoles - 4,5-Disubstituted pyrenes from phenangermoles - 2023

6) Orthogonal sp3-Ge/B Bimetallic Modules: Enantioselective Construction and Enantiospecific Cross-Coupling - Orthogonal sp3-Ge/B Bimetallic Modules: Enantioselective Construction and Enantiospecific Cross-Coupling - 2024

Xiao Bin

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Personal Resume

2002-2006: Bachelor of Chemistry of the University of Science and Technology of China

2006-2011: Ph.D. in Organic Chemistry of the University of Science and Technology of China (Supervisor: Professor Guo Qingxiang)

2011-2013: Postdoctoral Fellow of Chemical Biology of Tsinghua University (Supervisor: Professor Liu Lei)

2013-2020: Associate Professor, Special-term Professor, and Doctoral Supervisor of the University of Science and Technology of China

2020-present: Professor of the University of Science and Technology of China

Awards and Honors

National Excellent Doctoral Dissertation Award (2013)

Excellent Member of the Youth Innovation Promotion Association CAS (2019)

Spokesperson for the Element Germanium in the Periodic Table, Chinese Chemical Society (2019)

Excellent Young Scientists Fund Project of the National Natural Science Foundation of China (2020)

Research Directions:

Organic Germanium Chemistry

Organic Element Chemistry

Admissions Information:

The research in our lab focuses on the organic element chemistry of germanium, with related fields including transition metal catalysis, radical and carbene chemistry, and organic materials.

We hope you are easy-going and can get along well with other members of our lab. You must have a strong interest in organic chemistry, good hands-on skills, and a good command of English.

Publications and Monographs:

1) Alkylation-Terminated Catellani Reactions Using Alkyl Carbagermatranes - Alkylation-Terminated Catellani Reactions Using Alkyl Carbagermatranes - 2020

2) Zn-mediated decarboxylative carbagermatranation of aliphatic N-hydroxyphthalimide esters: evidence for an alkylzinc intermediate - Zn-mediated decarboxylative carbagermatranation of aliphatic N-hydroxyphthalimide esters: evidence for an alkylzinc intermediate - 2020

3) Tertiary cyclopropyl carbagermatranes: synthesis and cross-coupling - Tertiary cyclopropyl carbagermatranes: synthesis and cross-coupling - 2021

4) Alkyl-GeMe3: Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis - Alkyl-GeMe3: Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis - 2022

5) 4,5-Disubstituted pyrenes from phenangermoles - 4,5-Disubstituted pyrenes from phenangermoles - 2023

6) Orthogonal sp3-Ge/B Bimetallic Modules: Enantioselective Construction and Enantiospecific Cross-Coupling - Orthogonal sp3-Ge/B Bimetallic Modules: Enantioselective Construction and Enantiospecific Cross-Coupling - 2024