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单位：宁波东方理工大学（暂名）

地址：

邮编：

电话：

个人主页： http://dslx.ustc.edu.cn/?menu=expert\_paper&expertid=6570697

个人简历

研究方向

1. 有机化学方法学研究，包括有机光催化、有机电催化、过渡金属催化、不对称催化等。

2. 理论DFT计算研究，利用DFT研究有机反应机理。

3. 机器学习、理论计算与高通量结合的有机合成与催化。

招生信息

论文专著

1) Electrochemical Chemo- and Regioselective Arylalkylation, Dialkylation, and Hydro(Deutero)alkylation of 1,3-Enynes - Electrochemical Chemo- and Regioselective Arylalkylation, Dialkylation, and Hydro(Deutero)alkylation of 1,3-Enynes - 2023

2) Reductive cross-coupling of α-oxy halides enabled by thermal catalysis, photocatalysis, electrocatalysis, or mechanochemistry - Reductive cross-coupling of α-oxy halides enabled by thermal catalysis, photocatalysis, electrocatalysis, or mechanochemistry - 2022

3) Nickel catalyzed multicomponent stereodivergent synthesis of olefins enabled by electrochemistry, photocatalysis and photo-electrochemistry - Nickel catalyzed multicomponent stereodivergent synthesis of olefins enabled by electrochemistry, photocatalysis and photo-electrochemistry - 2022

4) Nickel-Catalyzed C-Heteroatom Cross-Coupling Reactions under Mild Conditions via Facilitated Reductive Elimination - Nickel-Catalyzed C-Heteroatom Cross-Coupling Reactions under Mild Conditions via Facilitated Reductive Elimination - 2020

5) Group 14 Element Hetero-Difunctionalizations via Electrochemically Ni-Catalyzed Reductive Cross-Coupling - Group 14 Element Hetero-Difunctionalizations via Electrochemically Ni-Catalyzed Reductive Cross-Coupling - 2023

6) Poly(heptazine imide) ligand exchange enables remarkable low catalyst loadings in heterogeneous metallaphotocatalysis - Poly(heptazine imide) ligand exchange enables remarkable low catalyst loadings in heterogeneous metallaphotocatalysis - 2023

7) Ligand-Controlled Stereodivergent Alkenylation of Alkynes to Access Functionalized trans- and cis-1,3-Dienes - Ligand-Controlled Stereodivergent Alkenylation of Alkynes to Access Functionalized trans- and cis-1,3-Dienes - 2023

8) Organoboron Reagent-Controlled Selective (Deutero)Hydrodefluorination - Organoboron Reagent-Controlled Selective (Deutero)Hydrodefluorination - 2022

9) Regioselective Hydroalkylation and Arylalkylation of Alkynes by Photoredox/Nickel Dual Catalysis: Application and Mechanism - Regioselective Hydroalkylation and Arylalkylation of Alkynes by Photoredox/Nickel Dual Catalysis: Application and Mechanism - 2020

Zhu Chen

<https://dslx.ustc.edu.cn/?menu=expert_paper_detail&expertid=6570697>

Affiliation: Eastern Institute of Technology, Ningbo (Provisional Name)

Address:

Postal Code:

Phone:

Personal Homepage: http://dslx.ustc.edu.cn/?menu=expert\_paper&expertid=6570697

Personal Resume:

Research Directions:

1. Organic Chemistry Methodology: Including organic photocatalysis, organic electrocatalysis, transition metal catalysis, asymmetric catalysis, etc.

2. Theoretical DFT Calculation: Utilizing DFT to study the mechanisms of organic reactions.

3. Machine Learning, Theoretical Calculation, and High-Throughput Synthesis: Combining these approaches for organic synthesis and catalysis.

Admissions Information:

Publications and Monographs:

1) Electrochemical Chemo- and Regioselective Arylalkylation, Dialkylation, and Hydro(Deutero)alkylation of 1,3-Enynes - Electrochemical Chemo- and Regioselective Arylalkylation, Dialkylation, and Hydro(Deutero)alkylation of 1,3-Enynes - 2023

2) Reductive cross-coupling of α-oxy halides enabled by thermal catalysis, photocatalysis, electrocatalysis, or mechanochemistry - Reductive cross-coupling of α-oxy halides enabled by thermal catalysis, photocatalysis, electrocatalysis, or mechanochemistry - 2022

3) Nickel catalyzed multicomponent stereodivergent synthesis of olefins enabled by electrochemistry, photocatalysis and photo-electrochemistry - Nickel catalyzed multicomponent stereodivergent synthesis of olefins enabled by electrochemistry, photocatalysis and photo-electrochemistry - 2022

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9) Regioselective Hydroalkylation and Arylalkylation of Alkynes by Photoredox/Nickel Dual Catalysis: Application and Mechanism - Regioselective Hydroalkylation and Arylalkylation of Alkynes by Photoredox/Nickel Dual Catalysis: Application and Mechanism - 2020