

Department: School of Chemistry and Molecular Engineering

Professional field: Organic Chemistry

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## Profile

Graduated from East China University of Science and Technology in 1984

Ph. D. in 1991 from Osaka University

Group leader in Shanghai Institute of Organic Chemistry from 1998

Outstanding young research foundation in 2000

Professor in East China University of Science and Technology from 2002

“Chang Jiang Professor” scholarship in 2003

## Research Field

- 1、 Asymmetric catalysis and organometallic chemistry directed organic synthesis
- 2、 Environmentally benign organic synthesis
- 3、 Fixation of CO<sub>2</sub>

## Research results and selected published papers

- 1) Gold-catalyzed conversion of highly strained compounds.

Deyao Li,<sup>a</sup> Wenqing Zang, <sup>a</sup> Melissa J. Bird,<sup>b</sup> Christopher J. T. Hyland<sup>b\*</sup> and Min Shi,<sup>a\*</sup> Chem. Rev. 2021, 121, 8685-8755.

- 2) Direct Activation of a Remote C(sp<sup>3</sup>)-H Bond Enabled by a Visible-Light Photosensitized Allene Moiety.

Jiixin Liu,<sup>[a]</sup> Yin Wei,<sup>[a]</sup> and Min Shi,<sup>\*[a]</sup> Angew. Chem., Int. Ed. 2021, 60, 12053-12059.

- 3) Copper-Catalyzed Synthesis of Indolyl Benzo[b]carbazoles and Their Photoluminescent Property.

Tonggang Hao,<sup>a</sup> Long Huang,<sup>a</sup> Yin Wei,<sup>a</sup> and Min Shi,<sup>\*a,b</sup> Org. Lett. 2021, 23, 5133-5137.

- 4) Silyl Radical Mediated Carbocyclization of Acrylamide/Vinyl Sulfonamide-Attached Alkylidenecyclopropanes via Photoredox Catalysis.

Xiao-Yu Zhang,<sup>a</sup> Xiao-Yun Wu,<sup>a</sup> Bo Zhang,<sup>a</sup> Yin Wei,<sup>\*b</sup> and Min Shi,<sup>\*a,b</sup> ACS Catalysis 2021, 11, 4372-4380.

- 5) Palladium Catalyzed Divergent Cycloadditions of Vinylidenecyclopropane-diester with Methyleneindolinones Enabled by Zwitterionic  $\pi$ -Propargyl Palladium Species.

Ben Niu,<sup>a</sup> Yin Wei<sup>b</sup> and Min Shi,<sup>\*a,b</sup> Chem. Commun. 2021, 57, 4783-4786.

- 6) Visible-light Mediated Ring-Opening Reaction of Alkylidenecyclopropanes for the Generation of Homopropargyl Radicals.

Xiao-Yu Zhang,<sup>a</sup> Chao Ning,<sup>a</sup> Ben Mao,<sup>a</sup> Yin Wei<sup>\*b</sup> and Min Shi,<sup>\*a,b</sup> Chem. Sci. 2021, 12, 9088-9095.