

## Accepted Manuscript

### One-Pot Synthesis of Tricyclo-1,4-Benzoxazines Via Visible-Light Photoredox Catalysis In Continuous Flow

Guolin Wu, Tingting Lv, Wenhui Mo, Xiping Yang, Yu Gao, Haijun Chen

PII: S0040-4039(17)30247-2  
DOI: <http://dx.doi.org/10.1016/j.tetlet.2017.02.068>  
Reference: TETL 48679

To appear in: *Tetrahedron Letters*

Received Date: 6 January 2017  
Revised Date: 20 February 2017  
Accepted Date: 21 February 2017

Please cite this article as: Wu, G., Lv, T., Mo, W., Yang, X., Gao, Y., Chen, H., One-Pot Synthesis of Tricyclo-1,4-Benzoxazines Via Visible-Light Photoredox Catalysis In Continuous Flow, *Tetrahedron Letters* (2017), doi: <http://dx.doi.org/10.1016/j.tetlet.2017.02.068>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**One-Pot Synthesis of Tricyclo-1,4-Benzoxazines Via Visible-Light Photoredox  
Catalysis In Continuous Flow**

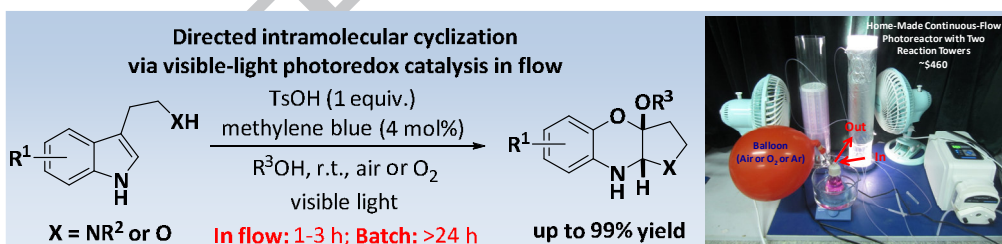
Guolin Wu<sup>†</sup>, Tingting Lv<sup>†</sup>, Wenhui Mo, Xiping Yang, Yu Gao, Haijun Chen\*

College of Chemistry, Fuzhou University, Fuzhou, Fujian 350116, China

<sup>†</sup>These authors contribute equally to this work.

**ABSTRACT:** A facile one-pot synthesis of tricyclo-1,4-benzoxazines has been developed via metal-free intramolecular cyclization of indole derivatives. These reactions were efficiently achieved at ambient temperature by using visible-light photoredox catalysis in continuous flow. This directed intramolecular cyclization could be easily handled and scaled up in an open flask, enabling construction of a focused compound library for further pharmacological evaluation.

**Graphical Abstract**



**Keywords:** *One-pot; Flow chemistry; Intramolecular cyclization; Metal-free; Room temperature*

Download English Version:

<https://daneshyari.com/en/article/5259800>

Download Persian Version:

<https://daneshyari.com/article/5259800>

[Daneshyari.com](https://daneshyari.com)