Accepted Manuscript

Copper-Catalyzed Base-Accelerated Direct Oxidation of C–H Bond to Synthesize Benzils, Isatins and Quinoxalines with Molecular Oxygen as Terminal Oxidant

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PII: DOI: Reference:	S0040-4039(15)00278-6 http://dx.doi.org/10.1016/j.tetlet.2015.02.019 TETL 45887
To appear in:	Tetrahedron Letters
Received Date:	7 January 2015
Revised Date:	5 February 2015
Accepted Date:	6 February 2015



Please cite this article as: Yu, J-W., Mao, S., Wang, Y-Q., Copper-Catalyzed Base-Accelerated Direct Oxidation of C–H Bond to Synthesize Benzils, Isatins and Quinoxalines with Molecular Oxygen as Terminal Oxidant, *Tetrahedron Letters* (2015), doi: http://dx.doi.org/10.1016/j.tetlet.2015.02.019

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Graphical Abstract

Copper-Catalyzed Base-Accelerated Direct Oxidation of	Leave this area blank for abstract info.
C-H Bond to Synthesize Benzils, Isatins and Quinoxalines	
with Molecular Oxygen as Terminal Oxidant	
Jing-Wen Yu, [†] Shuai Mao, [†] Yong-Qiang Wang*	
Ar Ar	Ar 73-92%
U 5 mol% O.i/OAc\~ H-O	
$x \stackrel{\text{\tiny III}}{=} \sum_{i=1}^{3} \text{o}_{i} \frac{1}{5} \frac{1}{\text{mol}_{i} \text{K}_{2} \Omega_{3}}$	
\sim $\stackrel{\text{N}}{\text{H}}$ 1 atm O_2 , DMF	N H 89-96%
Ar H ₂ N	N Ar
Ar Y + H-N	N Ar
	85-95%
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