



Metal-free I₂-Catalyzed Difunctionalization of terminal Alkenes: A Convenient Approach to α -Ketoamides

Twinkle Keshari^{1*} and Atul K. Singh^{2*}

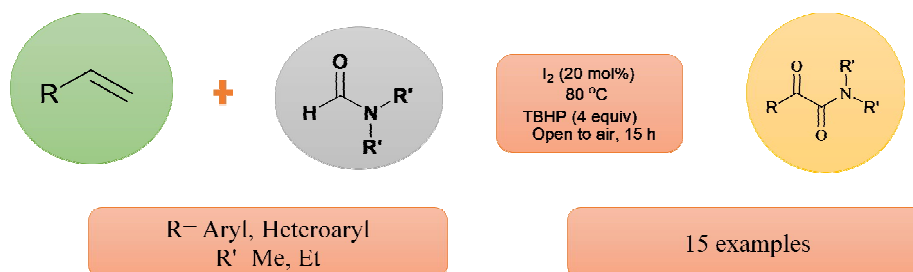
1. Department of Chemistry, Veer Kunwar Singh University, Ara 802301, Bihar, **INDIA**
2. Department of Chemistry, M. L. Arya College, Kasba, Purnea University, Purnea 854330, Bihar, **INDIA**
Email: atulkumarsingh@hotmail.co.in, twinkle31081989@hotmail.com

Accepted on 15th July, 2022

ABSTRACT

A novel and efficient one-pot operation for the synthesis of α -Ketoamides has been reported via difunctionalization of terminal alkenes using I₂ as a mild catalyst in open atmospheric condition. The metal-free approach utilizing TBHP as an oxidant makes our protocol economically and environmentally benign.

graphical Abstract



Keywords: α -Ketoamides, Alkenes, I₂ catalysis, Radicals, Aerobic oxidation