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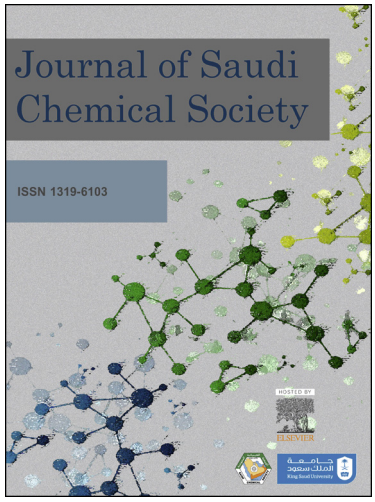

Original article

An efficient $RuCl_3 \cdot H_2O/I_2$ catalytic system: a facile access to 3-aroylimidazo[1,2-*a*]pyridines from 2-aminopyridines and chalcones

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An efficient $RuCl_3 \cdot H_2O/I_2$ catalytic system: a facile access to 3-aroylimidazo[1,2-*a*]pyridines from 2-aminopyridines and chalcones

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Abstract

A simple and efficient protocol has been demonstrated for the preparation of densely functionalized 3-aroylimidazo[1,2-*a*]pyridines from 2-aminopyridines and chalcones by using $RuCl_3 \cdot H_2O/I_2$ catalytic system. The advantages, such as low catalyst loading, broad substrate scope with respect to substitutions on aminopyridines as well as chalcones, stability of heterocycles such as thiophene under the reaction conditions, operationally simple procedure and higher yields makes this approach remarkable for synthetic applications.

Key words: Imidazo[1,2-*a*]pyridines, $RuCl_3 \cdot H_2O$, Iodine, 2-Aminopyridine, Chalcones.

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