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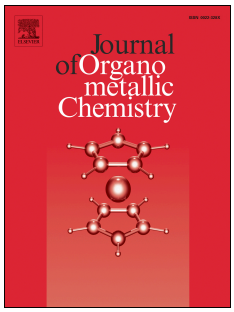

$RhCl(CO)(PPh_3)_2$ catalyzed α-alkylation of ketones with alcohols

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Graphical Abstract

RhCl(CO)(PPh_3)$_2$ catalyzed α-alkylation of ketones with alcohols

Rui Wang, Lina Huang and Zhengyin Du*

A simple and efficient method for α-alkylation of ketones with primary alcohols catalyzed by RhCl(CO)(PPh_3)$_2$ without additional additives under mild conditions is developed. It has a wide substrate scope, a high atom-efficiency and chemoselectivity. It is an environmentally friendly method to build C-C bond because water is the only byproduct.