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Title:	Nickel-Catalysis Enabling α -Alkylation of Ketones by Secondary Alcohols
Authors:	Bains, Amreen K (/jspui/browse?type=author&value=Bains%2C+Amreen+K) Biswas, Ayanangshu (/jspui/browse?type=author&value=Biswas%2C+Ayanangshu) Kundu, Abhishek (/jspui/browse?type=author&value=Kundu%2C+Abhishek) Adhikari, Debashis (/jspui/browse?type=author&value=Adhikari%2C+Debashis)
Keywords:	Nickel-Catalysis Enabling α -Alkylation of Ketones Secondary Alcohols
Issue Date:	2022
Publisher:	John Wiley & Sons
Citation:	Advanced Synthesis and Catalysis, 364(16), 2815-2821.
Abstract:	The α -alkylation of ketones utilizing a secondary alcohol has been accomplished by an isolable, bench-stable, inexpensive nickel catalyst affording high yields of β,β -disubstituted products. This report contributes a nickel catalyst in the pool of a few scarce examples of base metal discovered for this purpose. The substrate scope can span a wide range including aliphatic, alicyclic, and cyclic secondary alcohols. Functionalization of a cholesterol molecule is also possible following this methodology. The catalyst can interconvert between azo and hydrazo form in a reversible fashion to enable this chemical transformation.
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