

Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

- / Publications of IISER Mohali (/jspui/handle/123456789/4)
- / Research Articles (/jspui/handle/123456789/9)

Please use	this identifier to cite or link to this item: http://hdl.handle.net/123456789/4822				
Title:	Pyrenedione-Catalyzed α-Olefination of Nitriles under Visible-Light Photoredox Conditions				
Authors:	Bains, Amreen K. (/jspui/browse?type=author&value=Bains%2C+Amreen+K.)				
	Ankit, Yadav (/jspui/browse?type=author&value=Ankit%2C+Yadav)				
	Adhikari, Debashis (/jspui/browse?type=author&value=Adhikari%2C+Debashis)				
Keywords:	Pharmaceuticals				
	Nitrogen compounds				
Issue Date:	2021				
Publisher:	ACS Publications				
Citation:	Organic Letters, 23(6), 2019–2023.				
Abstract:	Herein, we report a combination of pyrenedione (PD) and KOtBu to achieve facile alcohol dehydrogenation under visible-light excitation, where aerobic oxygen is utilized as the terminal oxidant. The resulting carbonyl compound can be easily converted to vinyl nitriles in a single-pot reaction, at 60 °C in 6–8 h. This environmentally benign, organocatalytic approach has distinct advantages over transition-metal-catalyzed α -olefination of nitriles, which often operate at a significantly higher temperature for an extended reaction time.				
Description:	Only IISERM authors are available in the record				
URI:	https://pubs.acs.org/doi/10.1021/acs.orglett.1c00162				
	(https://pubs.acs.org/doi/10.1021/acs.orglett.1c00162)				
	http://hdl.handle.net/123456789/4822 (http://hdl.handle.net/123456789/4822)				

Files	in	This	Item:

Appears in Collections:

File	Description	Size	Format	
Need To AddFull Text_PDF (/jspui/bitstream/123456789/4822/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF)		15.36 kB	Unknown	View/Open (/jspui/k

Show full item record (/jspui/handle/123456789/4822?mode=full)

Research Articles (/jspui/handle/123456789/9)

. I (/jspui/handle/123456789/4822/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.