



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/123456789/4463>

Title:	Pd-Catalyzed Formal [3+3] Annulation of Benzylic gem-Diacetates: Synthesis of Various (Hetero)Arene-Fused Benzo[<i>f</i>]chromenes
Authors:	Kumar, Prashant (/jspui/browse?type=author&value=Kumar%2C+Prashant) Nikam, Mrudula M. (/jspui/browse?type=author&value=Nikam%2C+Mrudula+M.) Ramasastry, S. S. V. (/jspui/browse?type=author&value=Ramasastry%2C+S.+S.+V.)
Keywords:	Chemical reactions Organic compounds Column chromatography
Issue Date:	2022
Publisher:	ACS Publications
Citation:	Organometallics, A-G
Abstract:	Unlike that of benzyl acetates, the chemistry of benzyl gem-diacetates is rarely explored under metal catalysis. Here, we describe the first palladium-catalyzed cascade annulative allylic alkylation of benzylic gem-diacetates to access complex analogues of (hetero)arene-fused benzo[<i>f</i>]chromenes, which find relevance in medicinal chemistry and materials science. This synthetic feat has been achieved through the formal [3+3] heterocyclization of easily accessible (hetero)aryl gem-diacetates and readily available 2-naphthols under neutral conditions. Detailed mechanistic studies and synthetic elaborations have also been performed.
Description:	Only IISERM authors are available in the record
URI:	https://doi.org/10.1021/acs.organomet.2c00472 (https://doi.org/10.1021/acs.organomet.2c00472) http://hdl.handle.net/123456789/4463 (http://hdl.handle.net/123456789/4463)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format
Need To Add...Full Text_PDF. (/jspui/bitstream/123456789/4463/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF.)		15.36 kB	Unknown

[View/Open \(/jspui/\)](#)

[Show full item record \(/jspui/handle/123456789/4463?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/4463/statistics\)](#)

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

