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| Title:                     | Palladium-catalysed annulative allylic alkylation for the synthesis of benzannulated heteroarenes  |
| Authors:                   | Yadava, Sonu (/jspui/browse?type=author&value=Yadava%2C+Sonu)<br>Ramasastry, S. S. V. (/jspui/browse?type=author&value=Ramasastry%2C+S.+S.+V.)   |
| Keywords:                  | Palladium-catalysed<br>allylic alkylation<br>synthesis<br>benzannulated  |
| Issue Date:                | 2021   |
| Publisher:                 | Chemical Communications  |
| Citation:                  | Chemical Communications, 57(1), 77–80  |
| Abstract:                  | A conceptually novel intramolecular allylic alkylation strategy is developed for the synthesis of carbazoles and dibenzothiophenes. In an unusual event, palladium catalyses the formation of $\pi$ -allylpalladium complexes of the respective (2-methylindol-3-yl)allyl acetates and subsequently facilitates the benzannulation process. Graphical abstract: Palladium-catalysed annulative allylic alkylation for the synthesis of benzannulated heteroarenes The seminal contributions of Tsuji and Trost have led to the establishment of metal-catalysed allylic alkylations as an incredibly broad research area. <sup>1</sup> In particular, the intramolecular variants are quite popular in the synthesis of various types of cyclic structures. <sup>2</sup> In this context, we have recently reported palladium-catalysed annulative transformation of allyl acetates to an array of cyclopentene-fused (hetero)arenes, incorporated with an all-carbon quaternary/spiro stereocenter, Scheme 1a.3 |
| Description:               | Only IISERM authors are available in the record.   |
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