Title:	Organocatalytic γ′[C(sp3)–H] Functionalization of Ynones: An Unusual Approach for the Cyclopentannulation of Benzothiophenes
Authors:	Grover, J. (/jspui/browse?type=author&value=Grover%2C+J.) Raghu, M. (/jspui/browse?type=author&value=Raghu%2C+M.) Hazra, R. (/jspui/browse?type=author&value=Hazra%2C+R.) Mondal, A. (/jspui/browse?type=author&value=Mondal%2C+A.) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	Organophosphines Hydroalkylation Cyclopentannulation Ynones Benzothiophenes
Issue Date:	2018
Publisher:	Georg Thieme Verlag
Citation:	Synthesis (Germany), 50(7), pp. 1462-1470
Abstract:	An efficient organocatalytic approach for the cyclopenta[b]annulation of benzothiophenes via γ′ [C(sp3)–H] functionalization of ynones is described. Nucleophilic addition of an organophosphine to the designed ynones generates heteroaryl-based ortho-quinodimethanes (oQDMs), which undergo carbocyclization to provide a variety of cyclopenta-fused benzothiophenes. This approach also constitutes an unusual organophosphine-catalyzed intramolecular hydroalkylation of ynones.
URI:	https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0036-1591526 (https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0036-1591526) http://hdl.handle.net/123456789/2059 (http://hdl.handle.net/123456789/2059)
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