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Title:	Ruthenium-catalyzed (spiro)annulation of N-aryl-2,3-dihydrophthalazine-1,4-diones with quinones to access pentacyclic spiro-indazolones and fused-cinnolines
Authors:	Mandal, Sanjay K. (/jspui/browse?type=author&value=Mandal%2C+Sanjay+K.)
Keywords:	N-aryl-2,3-dihydrophthalazine-1,4-diones Quinones Fused-Cinnolines
Issue Date:	2022
Publisher:	Royal Society of Chemistry
Citation:	Organic and Biomolecular Chemistry, 20(23), 4753-4764
Abstract:	Ru(II)-catalyzed strategies were developed for the [4 + 1] and [4 + 2] oxidative coupling between N-aryl-2,3-dihydrophthalazine-1,4-diones and 1,4-benzoquinones, achieving spiro-indazolones and fused-cinnolines, respectively. Mild, aerobic and external oxidant-free conditions, as well as the use of a ruthenium catalyst for such (spiro)annulative strategies with quinones over reported Rh/Ir-catalyts, underline the rewards of the disclosed protocols.
Description:	Only IISERM authors are available in the record
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