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Title:	Cyclic (Alkyl)amino Carbene Based Iron Catalyst for Regioselective Dimerization of Terminal Arylalkynes
Authors:	Adhikari, D. (/jspui/browse?type=author&value=Adhikari%2C+D.) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	Catalyzed Head-to-head dimerization Terminal Arylalkynes
Issue Date:	2016
Publisher:	American Chemical Society
Citation:	Organometallics, 35(21), pp.3775–3780
Abstract:	[(cAAC)Fe(CO) <sub>4</sub> ] (1) catalyzed head-to-head dimerization of terminal arylalkynes toward conjugated enynes in very high yield and high E selectivity (up to 84:16 E:Z). The protocol can be performed under extremely low catalyst loading down to 0.01 mol %, resulting in a high TON of 6500. A mechanistic pathway for arylalkyne dimerization has been proposed on the basis of a well-defined catalyst, an isolable intermediate, and quantum chemical calculations.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://pubs.acs.org/doi/10.1021/acs.organomet.6b00703">https://pubs.acs.org/doi/10.1021/acs.organomet.6b00703</a> ( <a href="https://pubs.acs.org/doi/10.1021/acs.organomet.6b00703">https://pubs.acs.org/doi/10.1021/acs.organomet.6b00703</a> ) <a href="http://hdl.handle.net/123456789/2416">http://hdl.handle.net/123456789/2416</a> ( <a href="http://hdl.handle.net/123456789/2416">http://hdl.handle.net/123456789/2416</a> )
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