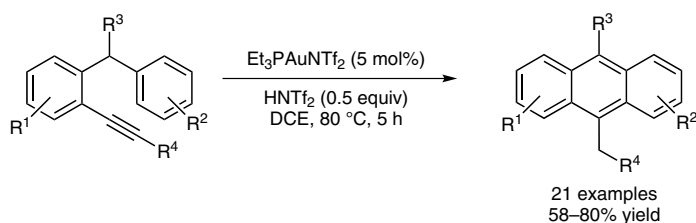
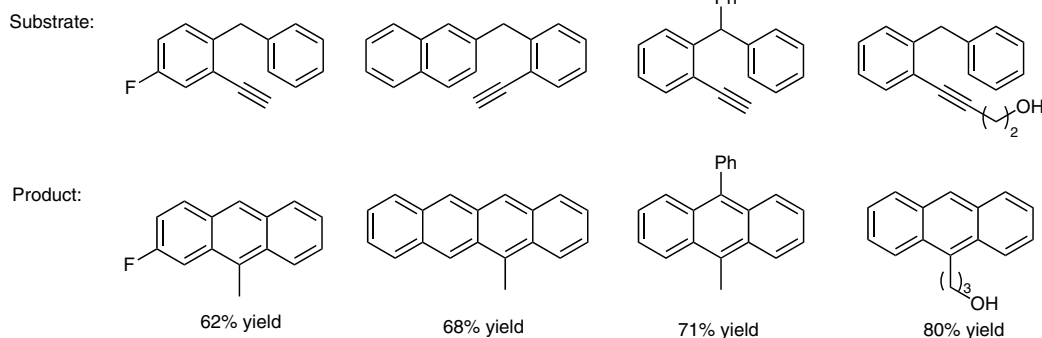


C. SHU, C.-B. CHEN, W.-X. CHEN, L.-W. YE* (XIAMEN UNIVERSITY, P. R. OF CHINA)
Flexible and Practical Synthesis of Anthracenes through Gold-Catalyzed Cyclization of *o*-Alkynyldiarylmethanes
Org. Lett. **2013**, *15*, 5542–5545.

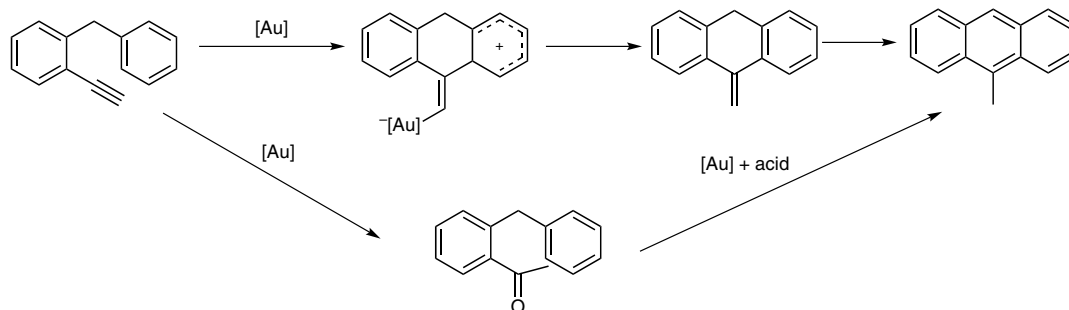
Gold-Catalyzed Synthesis of Anthracenes



Selected examples:



Proposed mechanistic pathways:



Significance: The gold-catalyzed synthesis of anthracene derivatives from their corresponding *o*-alkynyldiarylmethanes is reported. Compared to previously reported syntheses, the presented method is a mild and atom-economic approach that enables access to functionalized anthracenes from a wide substrate scope in good yields.

Comment: In addition to anthracenes, the authors report the synthesis of a tetracene derivative (see above) from a naphthalene-containing substrate, thus demonstrating the potential of this synthetic strategy in the synthesis of functionalized extended acenes.

SYNFACTS Contributors: Timothy M. Swager, Gregory D. Gutierrez
Synfacts 2014, 10(1), 0030 Published online: 13.12.2013
DOI: 10.1055/s-0033-1340391; Reg-No.: S14713SF

2014 © THIEME STUTTGART • NEW YORK