

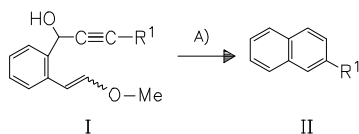
Other naphthalene derivatives

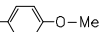
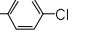
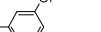



Q 1020

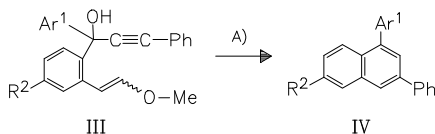
DOI: 10.1002/chin.201106112


06- 112

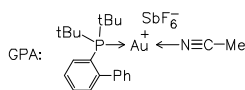
Gold-Catalyzed Annulation/Fragmentation: Formation of Free Gold Carbenes by Retrocyclopropanation. — The reaction of a variety of 1,6-enynes, bearing hydroxy, alkoxy or aryl groups at the benzyl position, naphthalenes [cf. (II), (IV), (XI), (XIV)], fused mono- [cf. (IX)] and biscyclopropanes [cf. (XII)] are prepared. The method is extended to the synthesis of biaryl (VI), which is upon hydrolysis converted to naphthol (VI), a valuable intermediate for the total synthesis of an alkaloid macarpine. — (SOLORIO-ALVARADO, C. R.; ECHAVARREN*, A. M.; J. Am. Chem. Soc. 132 (2010) 34, 11881-11883, <http://dx.doi.org/10.1021/ja104743k>; Inst. Chem. Res. Catalonia, E-43007 Tarragona, Spain; Eng.) — Y. Steudel



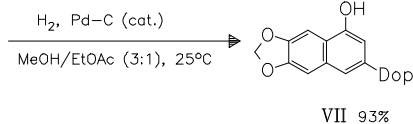
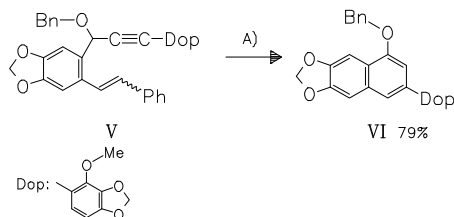
a R¹: -Ph	96%
b R¹: 	90%
c R¹: 	94%
d R¹: 	95%
e R¹: 	88%
f R¹: 	87%
g R¹: 	85%
h R¹: -(CH₂)₄-Me	74%

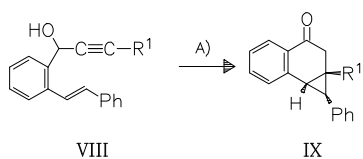


a R²: -H; Ar¹: -Ph	87%
b R²: -O-Me; Ar¹: -Ph	81%
c R²: -O-Me; Ar¹: 	72%

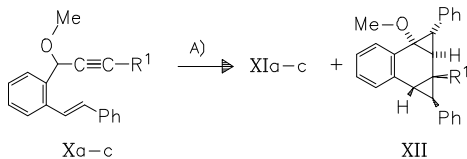


A): GPA (cat.), CH₂Cl₂, 25°C



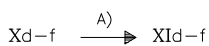
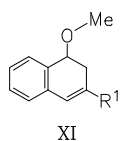


a 69%
b 72%
c 52%
d 47%
e 85%
f 64%

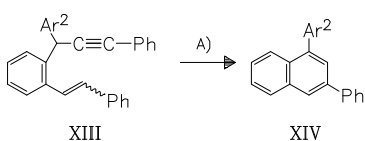


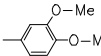
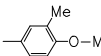
a 57%
b 65%
c 47%

8%
10%
12%



d 45%
e 61%
f 42%



a Ar²:  74%
b Ar²:  66%