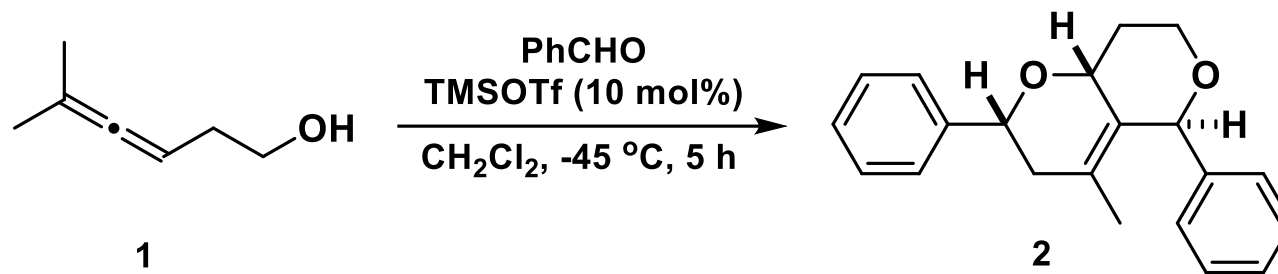
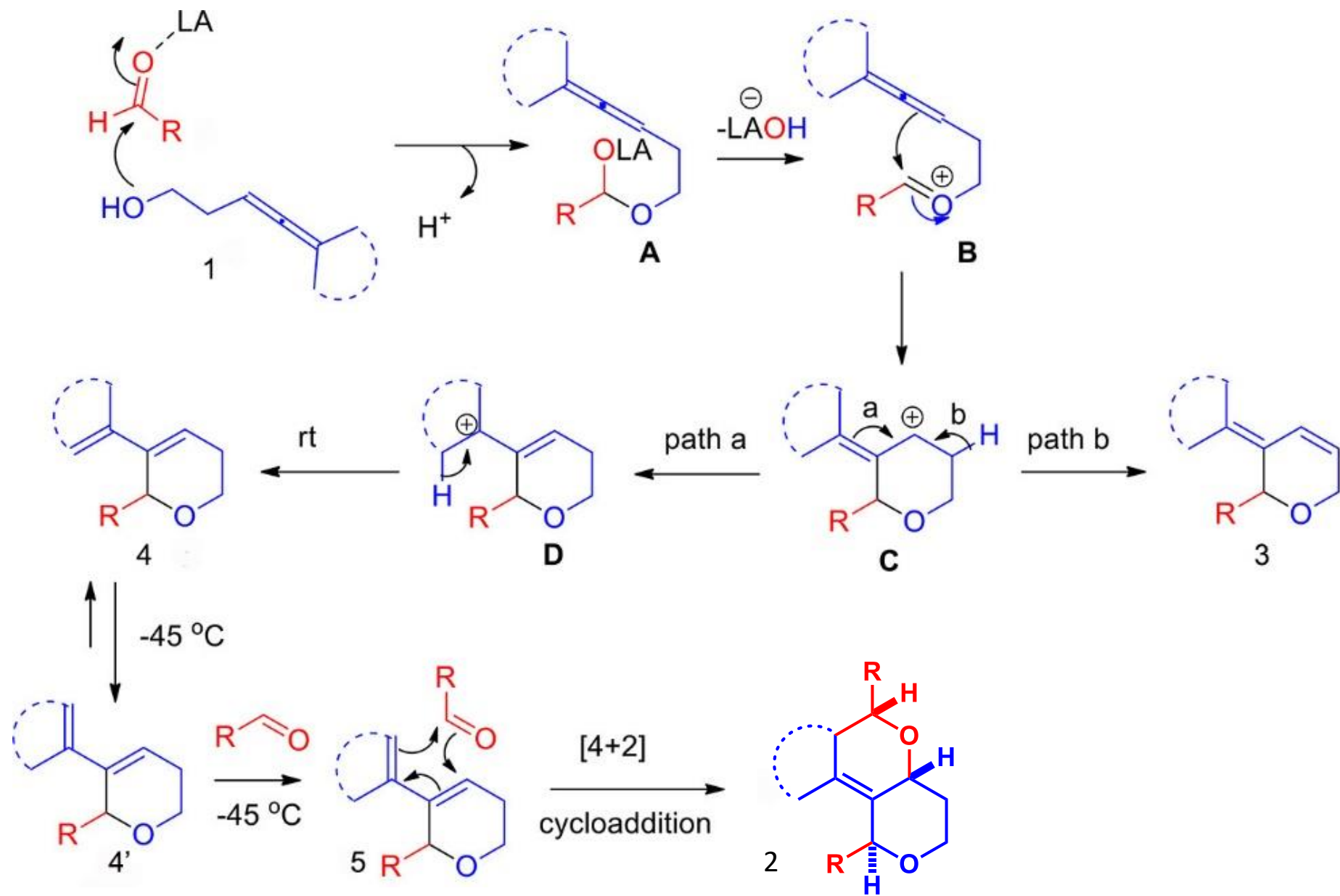
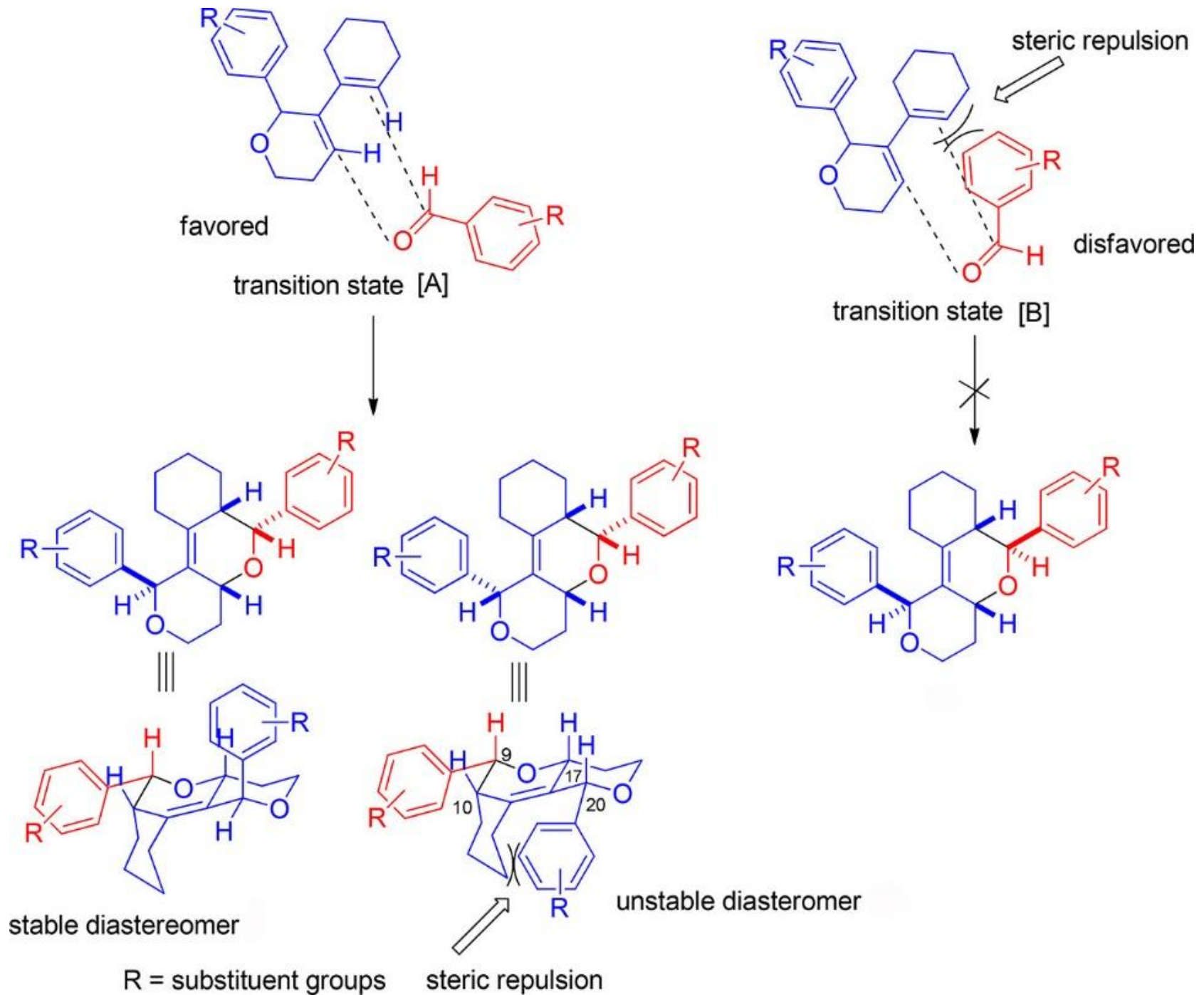


1.

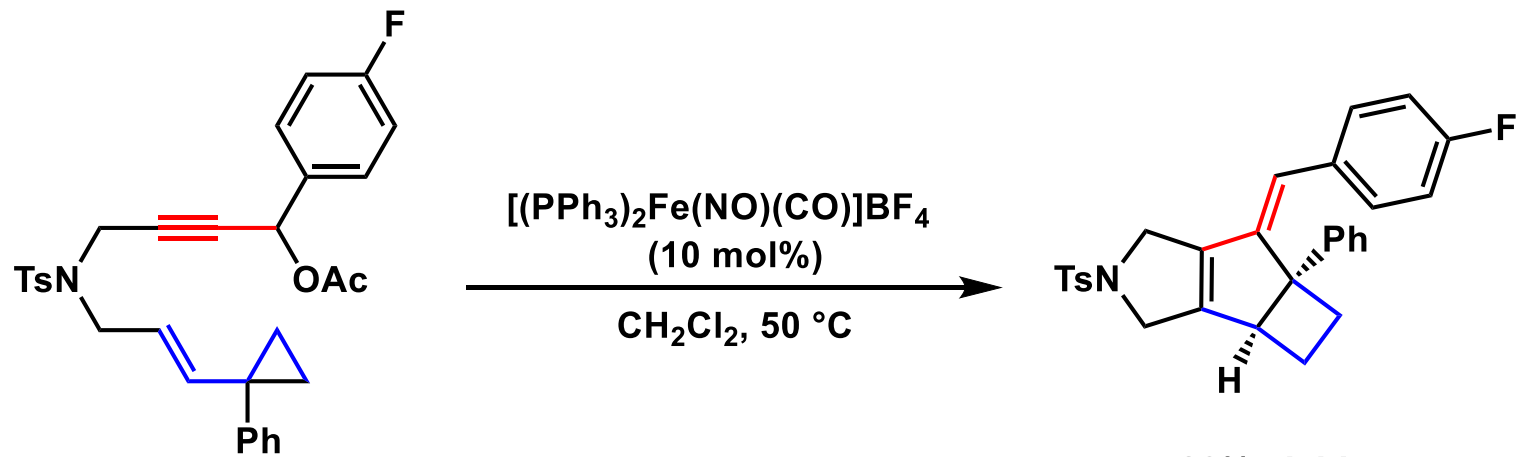


*J. Org. Chem.*, **2018**, 83, 14987.

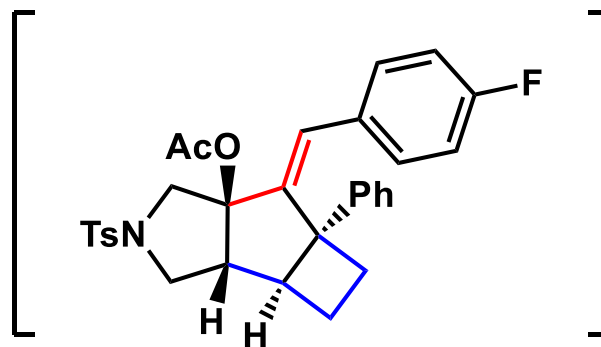




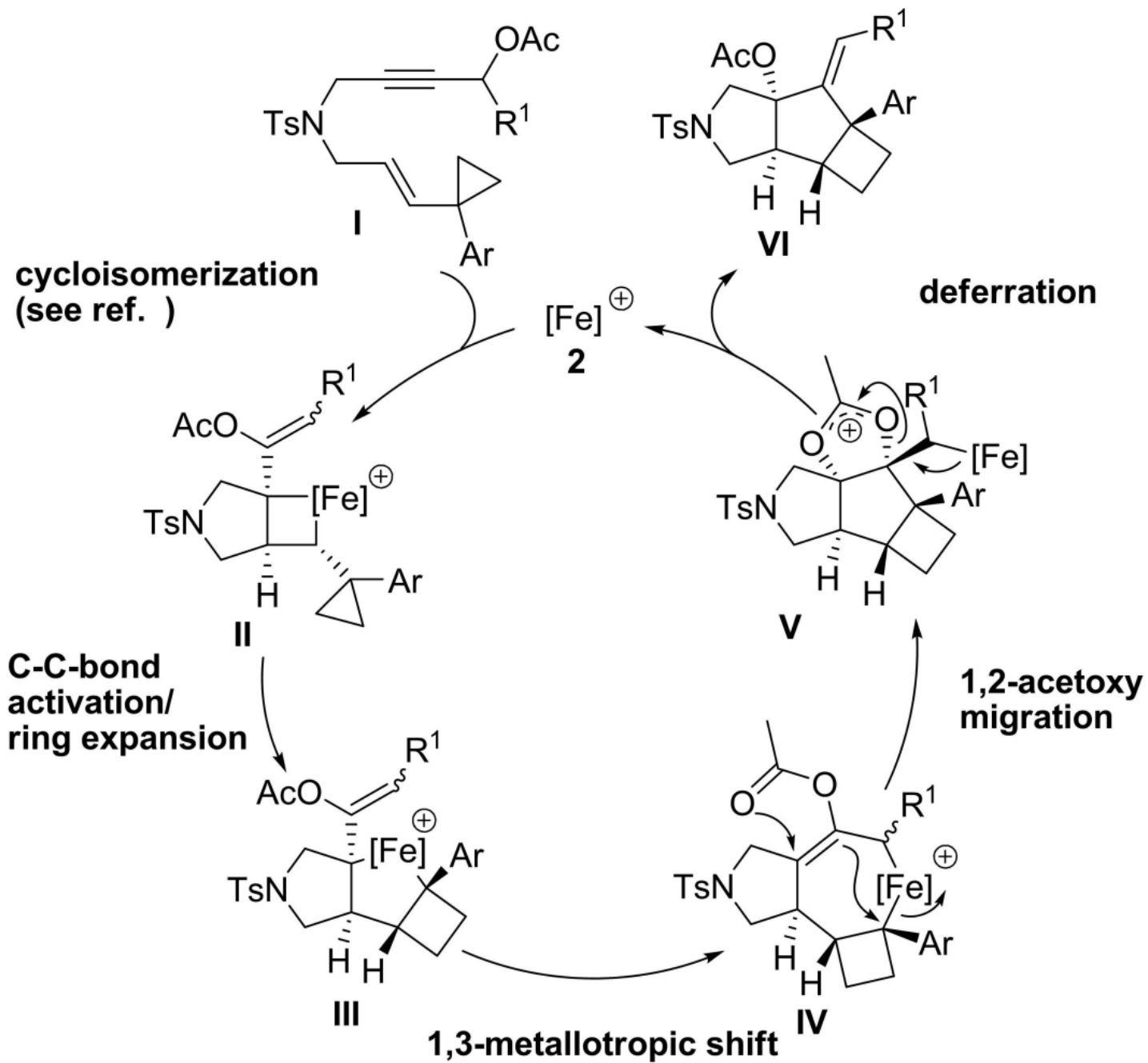
2.

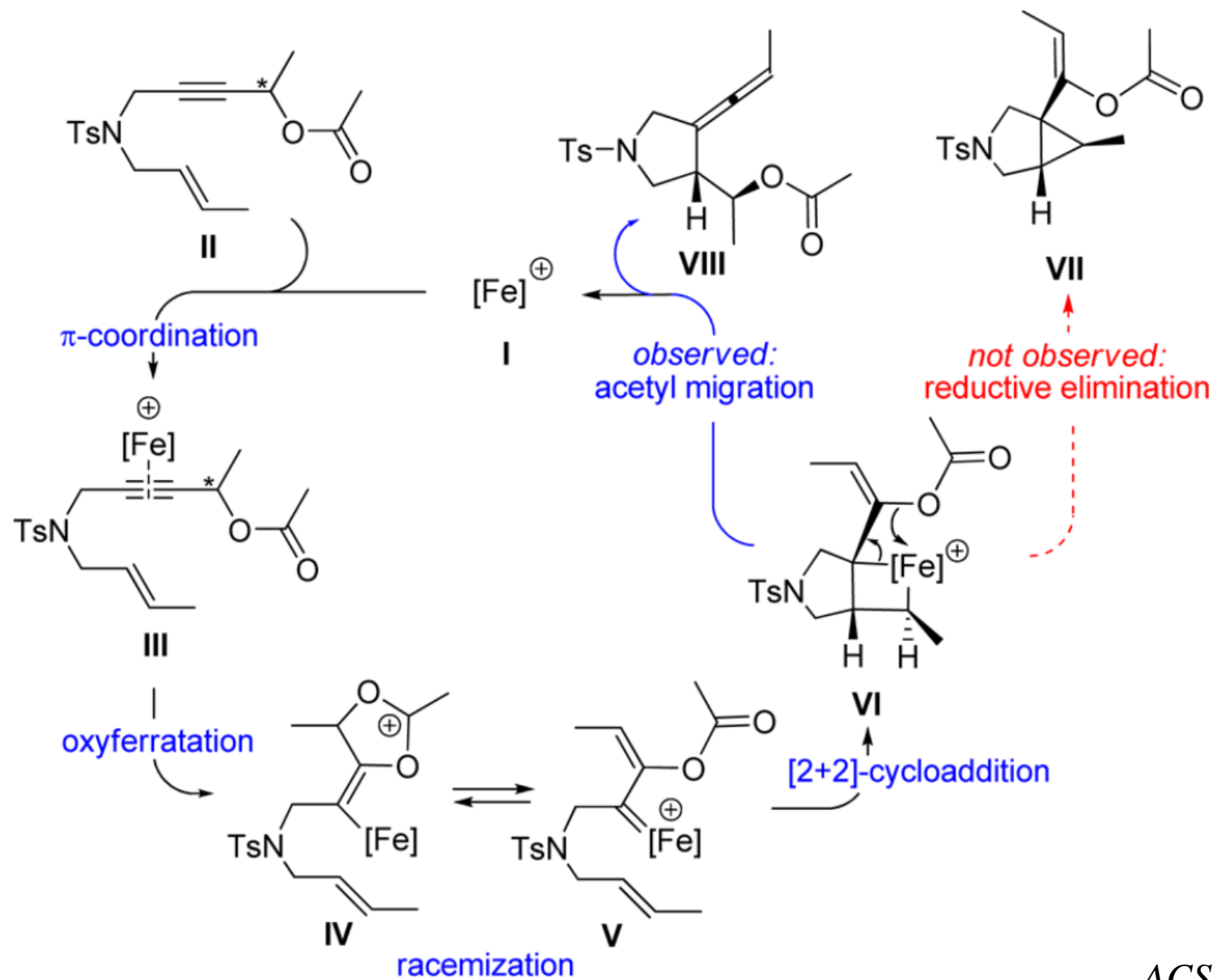


80% yield

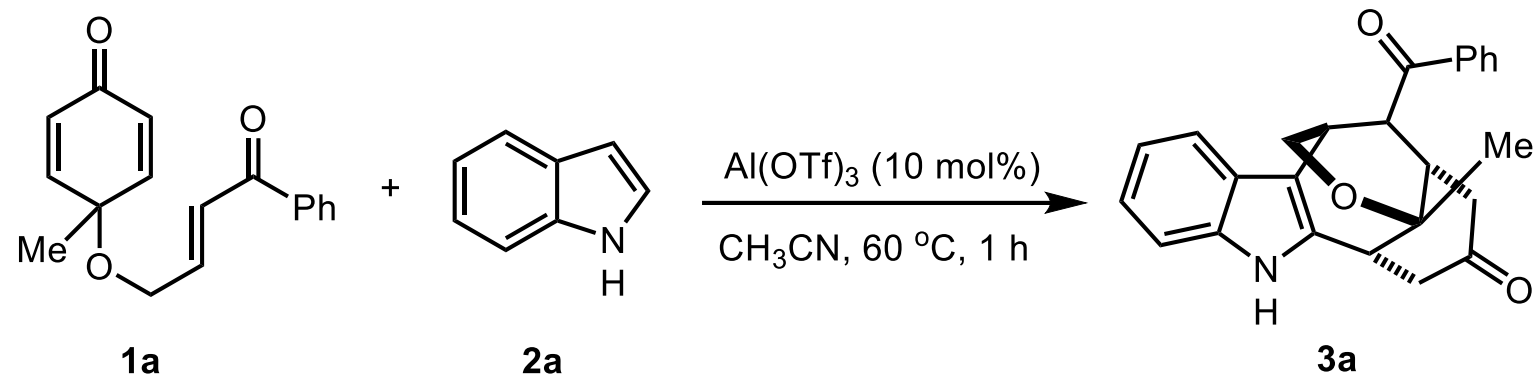


DOI: 10.1002/anie.202205169.





3.



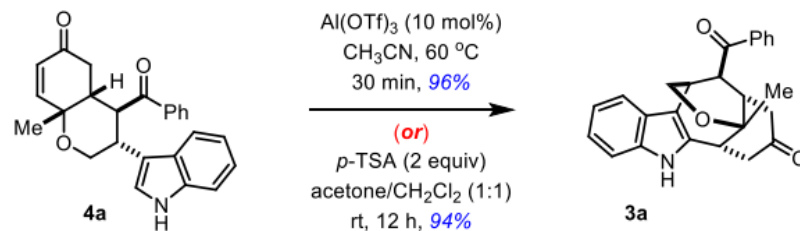
*ACS Catal.*, **2019**, 9, 10012.

### Scheme 3. Control Experiments

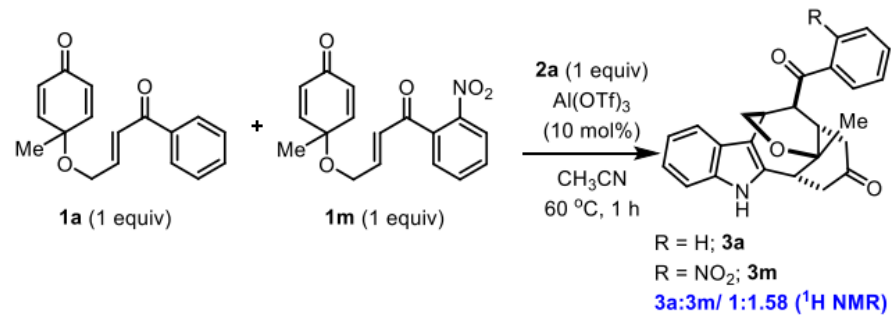
#### (a) Cyclization of compound 4a'



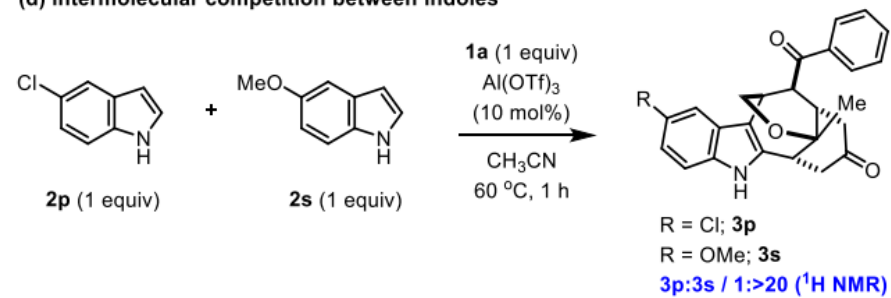
#### (b) Cyclization of compound 4a



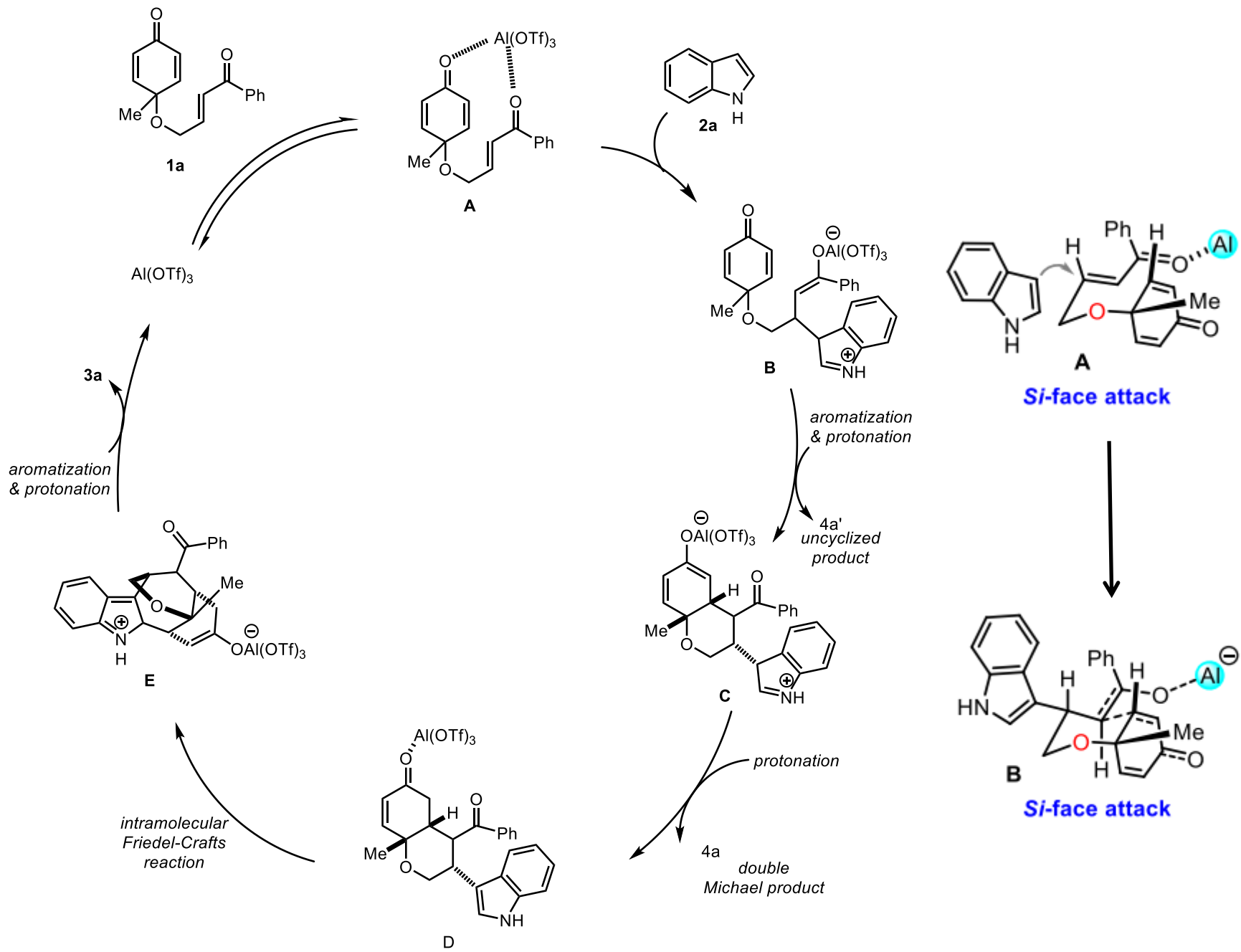
#### (c) intermolecular competition between cyclohexadienone-tethered enones



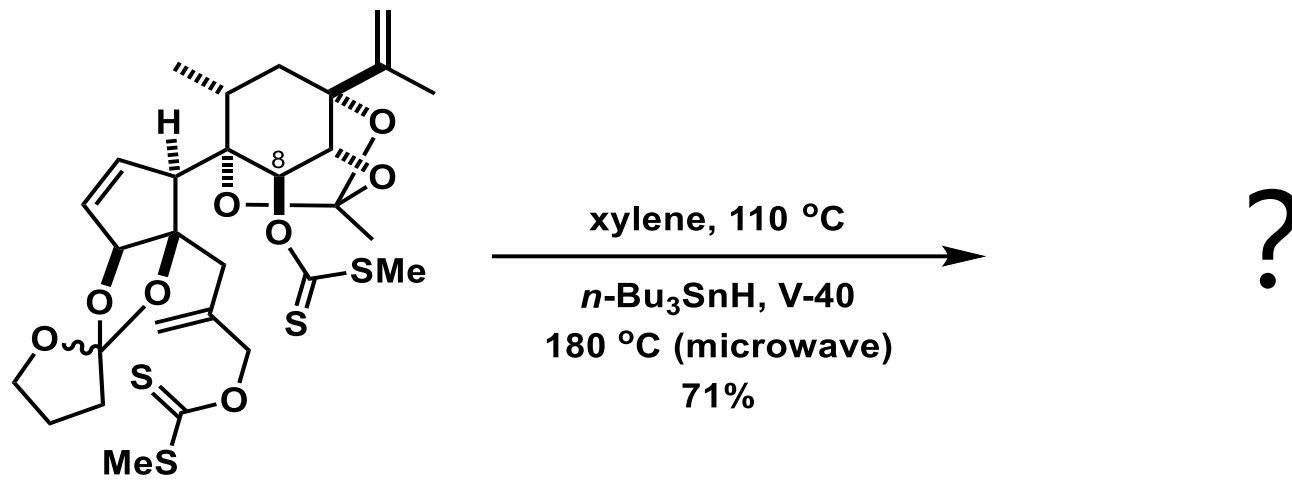
#### (d) intermolecular competition between indoles







4.



*J. Am. Chem. Soc.*, **2017**, *139*, 16420.

