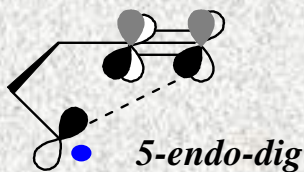


ACS PRF #47590-AC4: Design of New Radical Reactions:



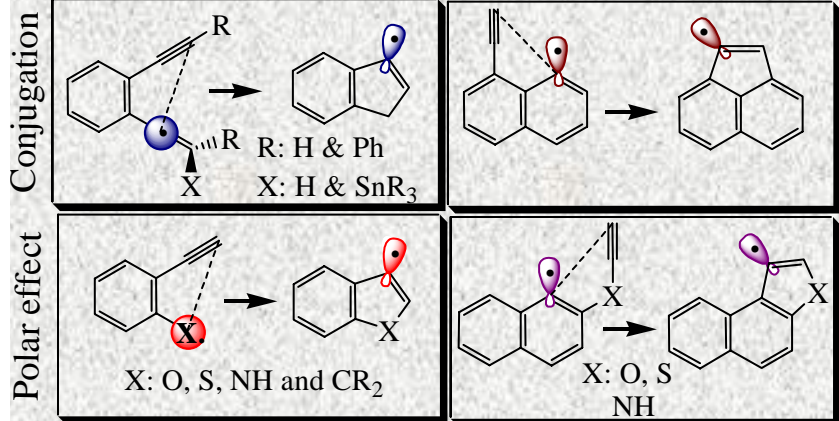
From Elusive 5-Endo-Dig Cyclization...



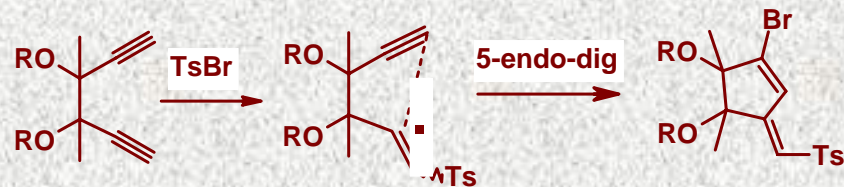
favorable?

Igor V. Alabugin,
Florida State University

Synergy of experiments and computations led to the discovery of the first efficient 5-endo-dig cyclization of a carbon-centered radical...



Removed conjugation
Aromaticity

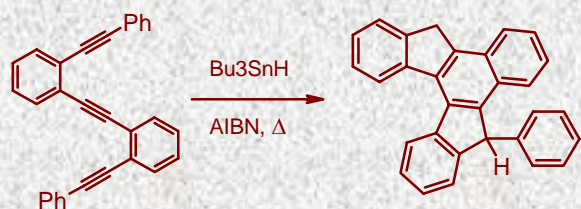


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51-72%,
E-stereoselective

... and cascade processes which can lead to the formation of well-defined building blocks for the constructions of carbon nanotubes and graphene ribbons.

... to Cascade Transformations



J. Am. Chem. Soc. 2008, 30, 11535

