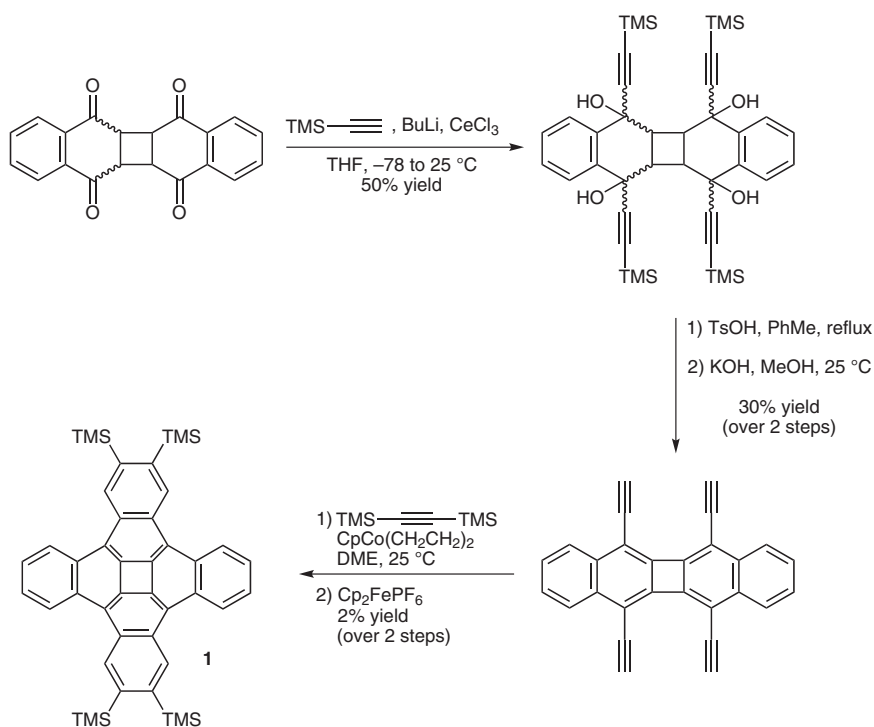


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Quadrannulene: A Nonclassical Fullerene Fragment

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Encircling the Square: Synthesis of Quadrannulene



Significance: The authors report the first synthesis of a [4]circulene. Quadrannulene **1** is comprised of a central four-membered ring fused together with four benzenoid units. Unlike previously reported bowl-shaped annulenes, such as corannulene, this structural motif is not observed in classical graphitic structures.

Comment: Despite the highly strained central core of **1** the compound is remarkably stable suggesting that new families of arenes and fullerenes could be accessed using this methodology.

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Category

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Key words

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