

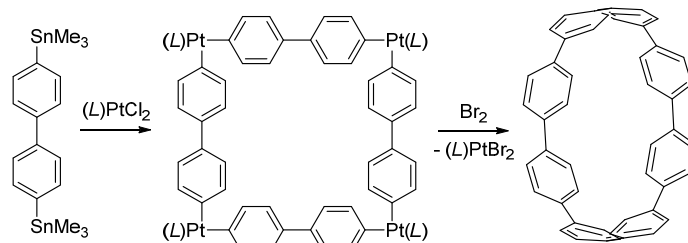
Organoplatinum-Mediated Synthesis of Cyclic π -Conjugated Molecules

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Considerable interest has been recently focused on hoop-shaped π -conjugated molecules because of their great potentials in molecular electronics. In particular, cycloparaphenylenes (CPPs), consist of *para*-linked phenylene unit in a cyclic manner, have become the subject of recent interest in this area.¹ We report here the synthesis of CPPs,²⁾ their derivatives,³ and a cage-like three-dimensional molecule⁴ based on the platinum-mediated assembly of π -units and subsequent reductive elimination of platinum (Scheme 1). Several unique properties of the prepared compounds are also reported.⁵



Scheme 1. Platinum-mediated synthesis of [8]CPP

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