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Title: Palladium-Catalyzed Intramolecular Trost–Oppolzer-Type Alder–Ene Reaction of Dienyl Acetates to Cyclopentadienes

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Keywords: Cyclopentadienes
Heterocycles
Palladium
Tsuji–Trost reaction

Issue Date: 2018

Publisher: Wiley-VCH Verlag

Citation: Angewandte Chemie - International Edition, 57(6), pp. 1678-1682

Abstract: A new approach to the synthesis of highly substituted cyclopentadienes, indenenes, and cyclopentene-fused heteroarenes by means of the Pd-catalyzed Trost–Oppolzer-type intramolecular Alder–ene reaction of 2,4-pentadienyl acetates is described. This unprecedented transformation combines the electrophilic features of the Tsuji–Trost reaction with the nucleophilic features of the Alder–ene reaction. The overall outcome can be perceived as a hitherto unknown “acid-free” iso-Nazarov-type cyclization. The versatility of this strategy was further demonstrated by the formal synthesis of paucifloral F, a resveratrol-based natural product.

URI: <https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201711797>
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