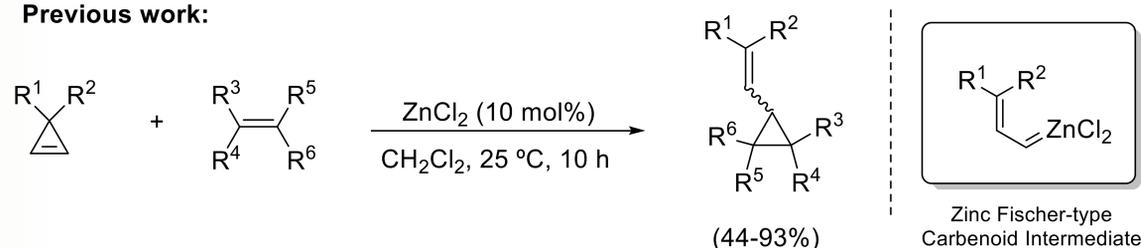


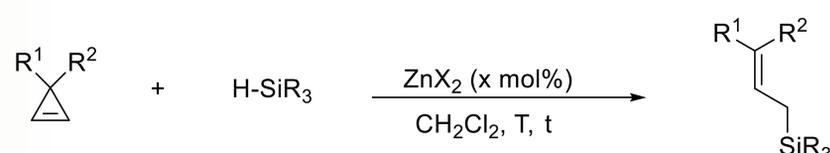
Key words: silanes, zinc-catalysis, zinc-vinyl carbene, Si-H functionalization, oligosiloxanes.

Previous work:



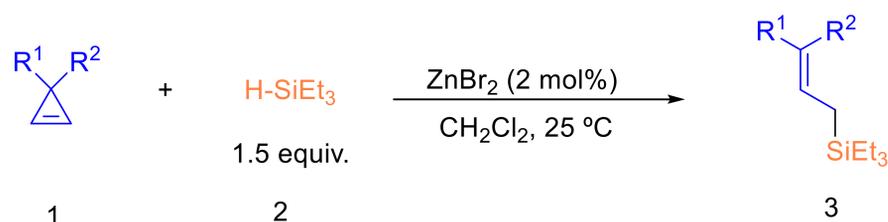
The zinc-catalyzed reaction of cyclopropenes with alkenes leading to vinylcyclopropane derivatives was reported by our research group in 2015.^[1] This protocol represents an unprecedented and simple strategy for the catalytic generation of zinc vinyl carbenoids, which are promising intermediates in organic synthesis. In this work was investigated the reaction between cyclopropanes and silanes affording allylsilanes products.^[2]

This work:

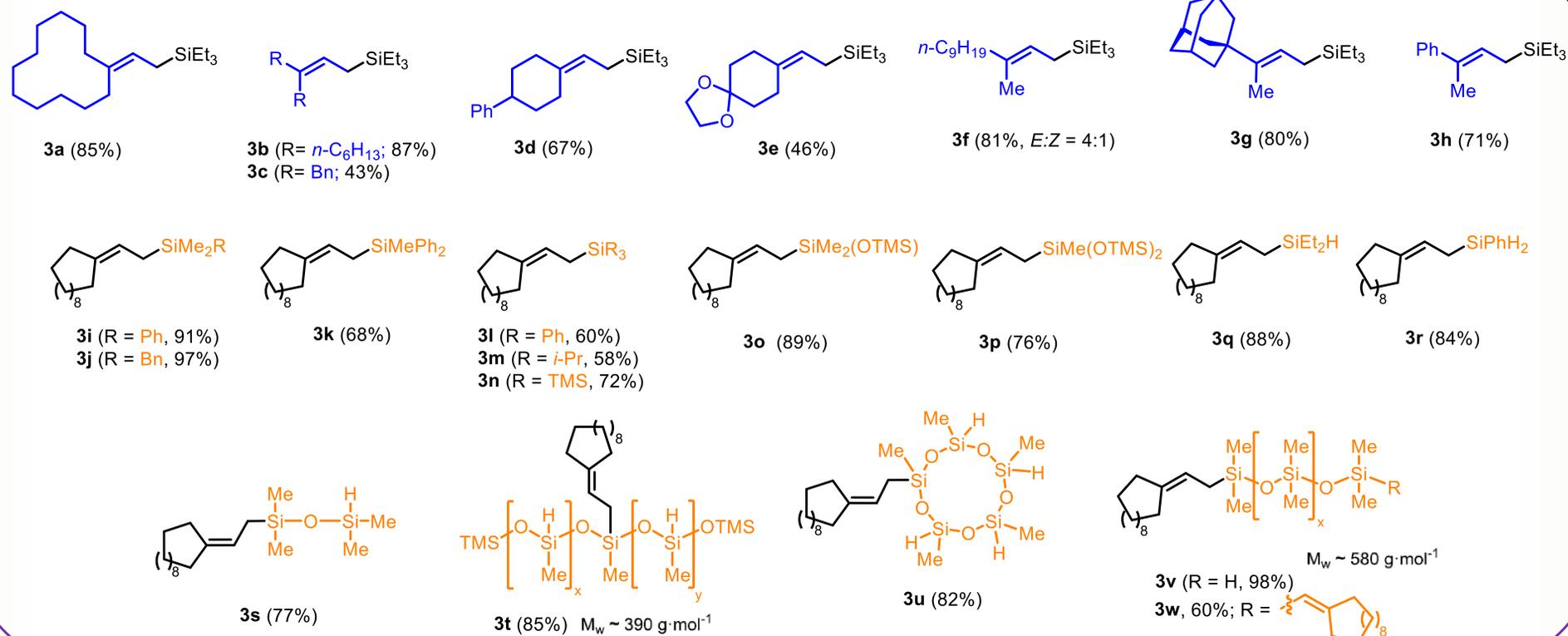


- ✓ Easily Available reagents
- ✓ Affordable Zn Catalysts
- ✓ Cyclopropenes as allyl equivalents
- ✓ High Atom Economy

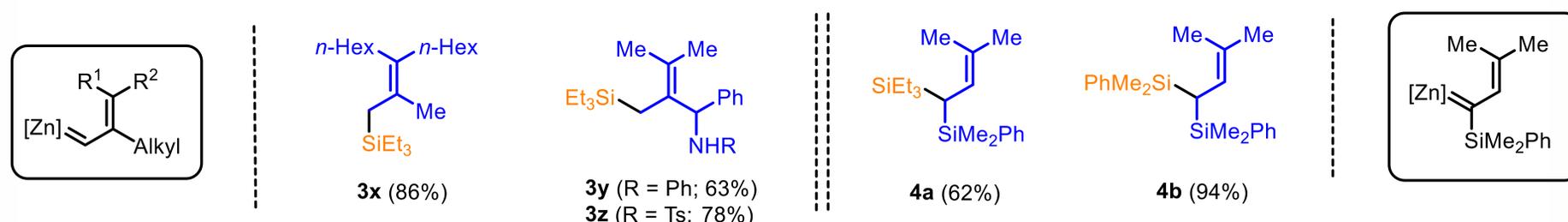
Optimization and Scope



- ✓ Inexpensive ZnBr₂ as catalyst
- ✓ Low catalyst loading
- ✓ Broad scope
- ✓ Polymeric siloxane functionalization
- ✓ Carbenoid regioselectivity



Carbenoid regioselectivity



[1] Gonzalez, M. J.; Lopez, L. A.; Vicente, R.; *Angew. Chem. Int. Ed.*, **2015**, *127*, 12307-12311

[2] Mata, S.; López, L. A.; Vicente, R.; *Angew. Chem. Int. Ed.*, **2017**, *56*, 7930–7934