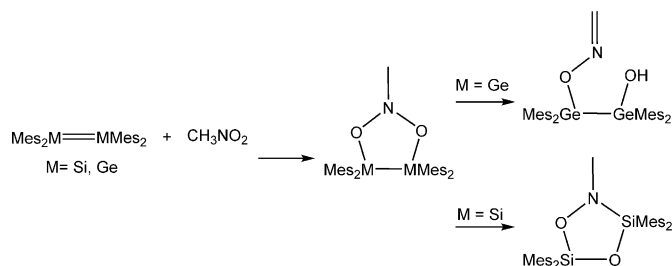


[3 + 2] Cycloaddition Reactions

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Addition of Nitromethane to a Disilene and a Digermene: Comparison to Surface Reactivity and the Facile Formation of 1,3,2-Dioxazolidines



Nitromethane addition to tetramesityl-disilene and tetramesityldigermene leads to the formation of 1,3,2,4,5-dioxazadisil- and digermolidine ring systems, respectively. The 1,3,2,4,5-dioxazadisilolidine

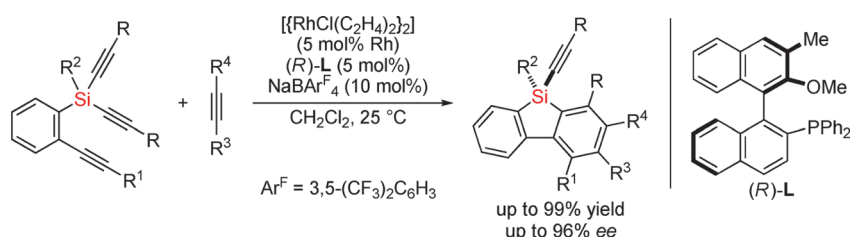
isomerizes to the 1,4,2,3,5-dioxazadisilolidine ring system, whereas the 1,3,2,4,5-dioxazadigermolidine undergoes ring opening to the isomeric oxime.

Asymmetric Catalysis

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Rhodium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic Dibenzosiloles by Enantioselective [2+2+2] Cycloaddition



Silicon cycles: An axially chiral mono-phosphine ligand is employed in the Rh-catalyzed reaction between silicon-containing prochiral triynes and internal alkynes to form silicon-stereogenic

dibenzosiloles with high yields and enantioselectivities. A germanium-stereogenic dibenzogermole is also prepared by this method.

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Flashback: 50 Years Ago ...

Giulio Natta, who shared the 1963 Nobel Prize in Chemistry with Karl Ziegler, contributed a Review on the analogies between the stereochemical properties of macromolecules and those of classic organic cyclic compounds. In another Review, Dieter Seebach discussed the properties of three- and four-membered polycyclic systems, in particular tetrahedrane, Dewar benzene, prismane, and cubane. Seebach published a Minireview on geminal disubstitution in the 50th Jubilee Issue of *Angewandte Chemie International Edition* (see *Angew. Chem. Int. Ed.* **2014**, 50, 96).

Hubert Schmidbaur (former Chairman of the Editorial Board of *Angewandte Chemie*) contributed three Communications on gallium-containing compounds. The first was on the synthesis of dichlorogallane HGaCl_2 , which was formed by the reaction of trimethylsilane with gallium trichloride. The second report was on organoheterosilanes $\text{Me}_3\text{SiOXMe}_2$ and $\text{Me}_3\text{COXMe}_2$ ($\text{X} = \text{Al, Ga, or In}$), which occur as dimers that have a four-membered ring structure, and the third on the synthesis of trimethylaluminum trimethylphosphorus oxide and trimethylarsenic trimethylgallium oxide. Schmidbaur's

Review on argentophilic interactions is currently in press (see *Angew. Chem. Int. Ed.* **2014**, DOI: 10.1002/anie.201405936).

Hermann Stetter, after whom the Stetter reaction was named, described a new synthesis of the adamantane derivatives substituted in the 3-position, which were constructed by the cyclization of 3-methylenebicyclo[3.3.1]nonan-7-one or 3,7-dimethylenebicyclo[3.3.1]nonane in the presence of acids. This method could also be used to synthesize adamantane-containing polymers.

[Read more in Issue 5/1965.](#)