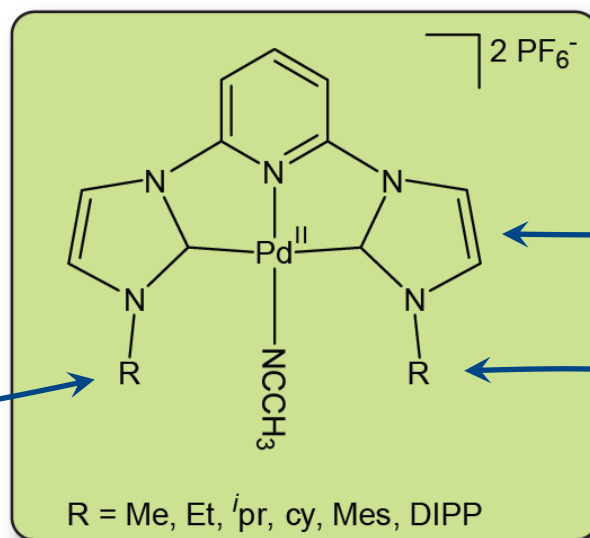


Chemistry in the Rosenthal Research Lab

...Chemistry of Consequence to Molecular Energy Conversion

We have designed a new supporting ligand that captures the salient features of the C-cluster and Dubois' catalyst with the goal of preventing dimerization



Easily tune NHC electronics

The **Pyridyl-DiCarbene (PDC^R)** backbone reproduces the T-shaped coordination geometry

Modulate steric demand about the metal center

NHC Properties

- Stronger σ -donors than phosphines
- Tight binding kinetics and **reduced lability**