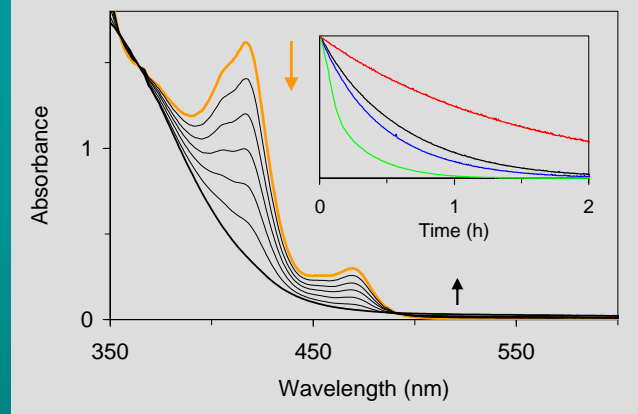
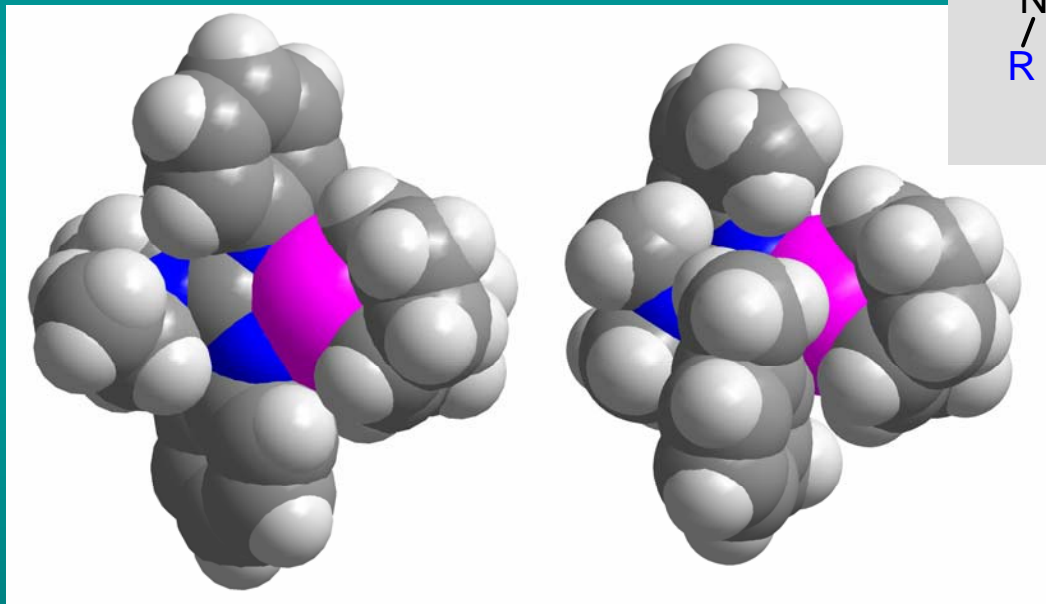
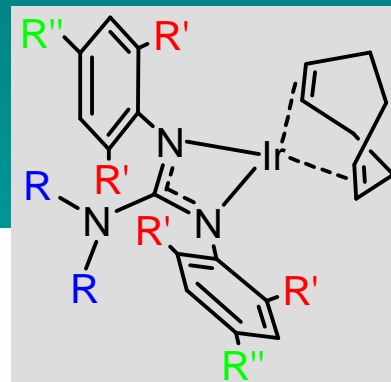


# Transition-Metal-Mediated Activation of Sulfur toward C–S Bond Formation

Jan-Uwe Rohde, Department of Chemistry, The University of Iowa,  
Iowa City, IA 52242

Monoanionic *N,N*-dialkyl-*N',N''*-diarylguanidinate as supporting ligands for reactive, low-valent transition metal centers



- ↳ Guanidinato complexes of Ir<sup>I</sup> react with dioxygen and elemental sulfur under mild conditions.
- ↳ The electronic and steric substituent effects demonstrate the utility of the guanidinato platform in fine-tuning the reactivity of transition metal centers.