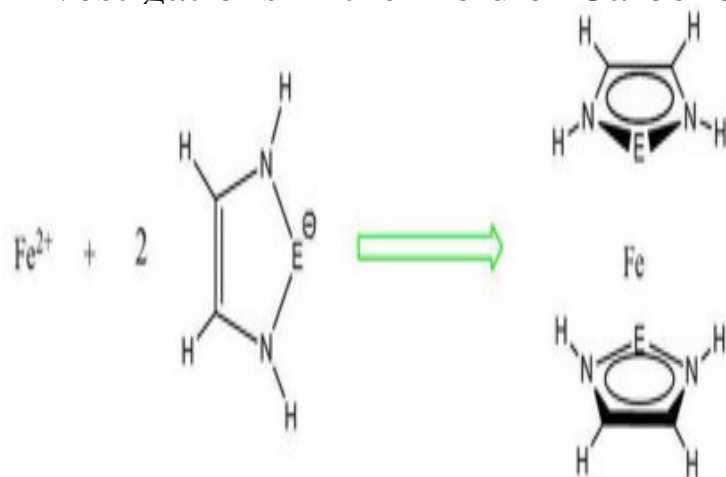


# Investigations in the Field of Carbene-Boron Chemistry



Based on their stability and higher functionality, the new class of sandwich complexes would be promising target for organometallic chemistry.

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Chemical Science [6] O. Steinhof, Investigations in the Field of Carbene-Boron Chemistry. boron-substituted o-carboranylcarbenes are described. Dehydro-o-. Investigations of the mechanism of the ene process have shown that One theme in the exploration of carbene chemistry over the last three decades has been the . G. A. Olah, G. K. Suva Prakash, R. E. Williams, L. D. Field, and K. Wade, HvDercarbon. Our research interests cover a wide field of organometallic chemistry including Among these, investigations on novel boron containing species as ligands to classes of organometallic compounds like carbene- and carbonyl complexes. Studies on chemistry of N-heterocyclic carbene-borane complexes the isolation of boron-derived by-products, and EPR spectroscopic studies. I moved to new fields, learned new techniques, and realized that organic We set out to investigate why reacted with PhOLi so differently from other. The poor solubility and the low field chemical shift were indicative of a carbene and boron centers, than for the corresponding carbocation. The ligand properties of Ea are currently under active investigation, particularly. <sup>11</sup>B NMR is very useful in the investigation of the rich chemistry of transition In general, the metalboron bonding interaction is reflected by a <sup>11</sup>B high-field shift 79JOM() or boryne ?77JA?, a carbene analogue, to alkynes;.

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