

Internal Webinar

Bonding Analysis of Compounds with Possible C→N And N→N Coordination Interactions

Tejender Singh

NIPER, Punjab

A few compounds have come to our focus where C→N and N→N coordination interactions were never considered earlier. A systematic analysis of crystal structure and electronic structure of these compounds expands our understanding of low valent main group compounds stabilized by carbenes. This talk shall highlight the dominance of the donor→acceptor bonding model over classical Lewis representation in a few newly identified chemical species. Also, non-carbenic electron donor ligands, like triazoles, are considered to donate electron density to N⁺ centre as in divalent N(I) compounds. In another work, the chemical bonding situation in Breslow intermediate has been studied.

Tuesday, May 5th 2020

2:30 PM