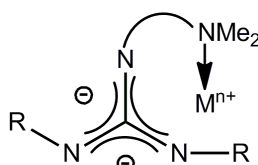


## Exotic main group metal complexes containing hybrid ligands

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Stabilization of unusual<sup>1</sup>, generally lower, oxidation states of metals in its complexes containing various types of ligands. Among other types of these ligands such as bulky silylated or terphenyl ones, various Cp's, chelating as for example pincer, enaminone or ketiminate/diketiminate, the amidinate/guanidinate ligands are of major interest because great variability and stability of target complexes. These amidinato/guanidinato complexes can be used in new areas in various catalyzed organic chemistry transformations<sup>1-3</sup> as well as precursors for preparation of new materials.<sup>4</sup>



Scheme 1

Synthesis and structure of various kinds hybrid (ligands with two different types of donor functions) amidinate/guanidinate lithium, oligolithium and group 13-14 complexes will be presented along with the reactivity of these compounds with different species.

### References

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