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Controlling the bonding situation of tetryliumylidenes with Ni(0) centers by denticity of the ligand scaffold

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Cationic group 14 element(II) centers can be used as ligands in Ni(0) complexes keeping its Lewis acidic reactivity while being coordinated to the Ni(0) center. By introduction of a chelating phosphine arm the back bonding from the metal center is minimized due to constrained binding leading to highly Lewis acidic Ge(II) and Sn(II) centers. This is a promising discovery for potential applications in catalysis or challenging bond activation due to possible metal ligand cooperation (MLC).

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