Special Issue

Coordination Chemistry of Silicon

Message from the Guest Editor

The chemistry of silicon has always been a field of major concern due to its proximity to carbon on the periodic table. With its larger coordination sphere silicon is prone to form hyper-coordinate organosilicon complexes and highly sophisticated ligand systems are required to furnish low-coordinate organosilicon complexes. As a result of ligand design there have been landmark discoveries as for instance molecular congeners of silicon(0), as well as silicon oxides and the prominent group 14 metalloid proved its applicability in homogenous catalysis as a supportive ligand or even as a center of catalytic activity. This Special Issue focuses on the most recent advances in coordination chemistry of silicon with transition metals as well as main group elements, including the stabilization of low-valent silicon species through the coordination of electron donor ligands. Therefore, this issue is associated with the development of novel synthetic methodologies, structural elucidations, bonding analysis, and also possible applications in catalysis or chemical transformations using related organosilicon compounds.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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