Special Issue

Phosphorus Ligands for the Stabilization of Unusual and Elusive Structures in Transition Metal Complexes

Message from the Guest Editor

Phosphines and related P(III) ligands constitute one of the most-used classes of ligands in coordination and organometallic chemistry and have great potential for application in homogeneous catalysis. Their electronic and steric characteristics can easily be tuned by varying the three substituents on the phosphorus atom, thus covering an ample range of properties that span from small strong ⊠-donating ligands such as PMe3 to bulky less-basic π-accepting ligands such as tris(otolyl)phosphite. P(III) ligands, in either the monodentate form or a polydentate/hybrid form, have played a crucial role in the stabilization of elusive species and unusual structures within transition complexes, allowing for the alkane adducts, non-heteroatom-stabilized alkylidenes, and low-coordinate unsaturated species, among others. With this Special Issue, we aim to present a collection of research and review articles dedicated to the design and applications of phosphines and related ligands, with special reference to the stabilization of elusive and unusual structural motifs in transition metal complexes.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2023)



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Editor-in-Chief

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