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Catalytic Chemistry of Homogeneous Platinum Group Metal Complexes

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The present Special Issue intents to cover the recent progresses and trends in platinum group metals as expensive members of late transition metal catalysts only. Specifically, the aim and scope of this Special Issue is to describe any new or undisclosed measures or an improved catalytic reaction procedure or step, which help to enhance selectivity and stability beyond present limits in homogeneous catalytic reactions of the complexes of the Pt group. Spectroscopic and kinetic studies on the mechanisms, which disclose intrinsic problems associated with certain ligands and anions are especially sought. Elucidations and preventions of the deactivation paths of the catalysts, such as dimer (cluster) formations, quaternizations of P- or N-ligands, oxidation, and other ligand degradation paths leading to metal plating are also highly valued. Naturally, any new catalytic reaction or an efficiently modified new variant of an existing reaction would also be welcome using these homogeneous catalysts.