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Ni-Containing Catalysts

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Message from the Guest Editors

Murray Raney used Nickel for the first time as a hydrogentation catalyst over one century ago. Since then, the field of Nickel catalysis has seen tremendous advances. During the 1970s, Nickel found extensive use as a catalyst not only for cross-coupling reactions of alkenes/alkynes, such as nucleophilic allylation, oligomerization, and cycloisomerization, etc., but also for C/H activation, oxidative cyclidation, and reduction reactions. More recently, it has been used in the formulation of catalysts assessing important environmental issues, such as CO2 chemical utilization, or as dopant of molybdenum, sulfide-containing catalysts for desulfuration processes.

Several key properties of nickel such as its thermal stability and redox behavior mean Nickel-containing catalysts are still challenging for a very large range of innovative reaction developments and industrialization.

The purpose of this Special Issue is to update the most recent advances concerning Nickel catalysts, supported or not, for innovative reaction development.