Homogeneous Catalysis by Organometallic Polynuclear Clusters

Homogeneous polynuclear metal clusters constitute a broad class of coordination compounds with important applications in catalysis. The current interest of synthetic chemistry in this field demands the exploration of new strategies to develop catalytic methods that work under mild conditions and maximize atom utilization. This review covers the application of polynuclear clusters of nuclearity ≥ 3 in homogeneous catalytic processes, with focus on providing an array of examples of various reaction types within cluster catalysis.

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