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Why Are Transition Metals So Important?

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Transition metal organometallic chemistry involves the study of the bonding interactions between inorganic metal atoms and organic molecules. As such, it links the traditional labels of 'organic' and 'inorganic' and offers the opportunity for chemists to enjoy exploring facets of both of these important branches of chemistry. Over the last 30 years, the importance of organometallic complexes and the reactions they catalyze as key components of industrial processes has grown exponentially, leading to ever-increasing interest in research and development of novel transition metal complexes and relevant chemical transformations. This seminar will provide some background concerning fundamental coordination chemistry followed by several examples of the useful reactivity of organometallic complexes. In addition, the definition of catalysis and its importance to fundamental chemical reactions will be discussed.



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