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Transition Metal Complexes as Catalysts in Organic Chemistry

Guest Editor:

Dr. Dmytro Nesterov
Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

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Message from the Guest Editor

The coordination compounds of transition metals occupy a special place among the catalysts in organic chemistry because of their pronounced activity and their variety of properties. The catalytic features of transition metal complexes are under the strong influence of their ligands, which, in this way, become a useful tool to control the properties of the catalytic system. The design of the structure of a coordination compound (catalyst) is of crucial importance for its catalytic applications.

This Special Issue is focused on the recent advances in the catalytic applications of transition metal complexes towards the organic transformations, including C–H activation, C–C coupling, and so on. This covers the investigation of the fundamental processes and reaction mechanisms, as well as the development of novel synthetic protocols involving transition metal complexes as catalysts.