



New Electro- and Photo-Functional Materials Based on Transition Metals

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Message from the Guest Editors

Recently, evolutionary systems of the transition metal complexes have been developed. One such development is that transition metals are not the only protagonists and ligands also play the leading role. It is a new functional molecular system in which synergistic physical and chemical properties of metals and ligands appear by introducing redox activity, photo-responsivity, and magnetism into ligands. The other is a system in which transition metal complex units are connected to form one-dimensional, two-dimensional, and three-dimensional polymeric structures. New properties can emerge from the physicochemical interaction between the units. When the inner space of the molecular frameworks can contain guest molecules, the host–guest interaction is expected to originate novel functionality. This Special Issue invites papers on new electro-, photo-, and magneto-functional materials based on transition metal complexes.





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Message from the Editor-in-Chief

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