

Special Issue on
**Spectroscopic Investigations of Metal Complexes and
Their Applications**

CALL FOR PAPERS

Spectroscopic tools have aided enormously in understanding the coordination chemistry of metal complexes. Ligational behavior of various types of ligands (anions, neutral molecules, or radicals) with different denticity has been studied comprehensively using several spectroscopic techniques such as infrared, nuclear magnetic resonance, electron paramagnetic resonance, fluorescence, UV/visible, Raman, mass, Mössbauer, and X-ray spectroscopy. These spectroscopic tools come handy even in the determination of structural and functional instincts of the metal complexes. The catalytic applications of metal complexes in various organic transformation reactions have been monitored and studied thoroughly using some of these spectroscopic tools. Likewise, biological applications of the metal complexes such as DNA or protein binding or cleavage studies have also been studied by using various spectroscopic methods.

It is evident that spectroscopic techniques are crucial for the understanding and development of the coordination chemistry. Considering this incredible influence of spectroscopy in the field of coordination chemistry, we propose a special issue dedicated to the spectroscopy of metal complexes. We invite researchers to contribute reviews and original research articles describing the use of various spectroscopic techniques in determining the ligational behavior of ligands and structural features of the metal complexes. Reports on the catalytic and/or biological applications of the metal complexes aided by extensive spectroscopic tools are highly encouraged.

Potential topics include but are not limited to the following:

- ▶ Spectroscopic characterization of new ligand systems and their metal complexes
- ▶ Application of various spectroscopic studies in characterization of metal complexes
- ▶ Spectroscopic studies of biological applications of metal complexes
- ▶ Spectroscopic studies of catalytic applications of metal complexes
- ▶ Reviews on the spectroscopy of metal complexes and their applications

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ij/s/simca/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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