

Internal Webinar

Synthesis and Physiochemical Characterization of Visible-Light Absorbing Rhenium-based Complexes

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Neutral phosphine oxide (P=O), Nitrogen donors based organometallic complexes were assembled from phosphine/phosphine oxide, dihydroxybenzoquinone donor, NNO and $\text{Re}_2(\text{CO})_{10}$ via one-pot solvothermal approach. The soft phosphine donor was transformed into hard phosphine oxide donor during the formation of complexes. All the complexes are air and moisture stable and are soluble in organic polar solvents. The complexes were characterized by elemental analysis, FT-IR, NMR spectroscopic methods. The molecular structure of complexes were analysed by single-crystal X-ray diffraction analysis.

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10:30 AM