

Synthesis and Characterisation of New Heteropolyanion Substitute by CO₂+

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Abstract : In recent year, polyoxometallates are intensely being explored because of their applications as new materials, structural aesthetics, catalysts, and biologically active compounds. heteropolyanions of general formulae $[X_2M_{18}O_{62}]^{n-}$ (X= heteroatom, e.g. P, Si) and (M=W, Mo), known as Dawson-type anions, constitute a special class of polyoxometallate compounds. In this present work, cobalt substituted heteropolyanion Dawson-type $[HP_2W_{15}Mo_3CoO_{61}]$ were synthesized and characterized by IR spectroscopy, ³¹P NMR, cyclic voltammetry.

Keywords : heteropolyanions, nanomaterials, Dawson-type, characterization

Conference Title : ICCCA 2016 : International Conference on Coordination Chemistry and Applications

Conference Location : Paris, France

Conference Dates : March 14-15, 2016