

Synthesis, Structural and Photoluminescence Properties of Tetrameric Cadmium Cluster

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2-cpida (N-(2-carboxyphenyl)iminodiacetic acid) is a versatile ligand for co-ordination chemistry which have three carboxylate group, along with imino nitrogen atom as a coordination site. The cadmium complexes based on multicarboxylate ligands show interesting structural topologies and optical properties. 2,2'-Bipyridine (2, 2'-bpy) is an ancillary ligand that controls the aggregation behavior of the metal complexes owing to its chelation around the metal center. In this context, we have synthesized tetrameric cadmium complex with N-(2-carboxyphenyl)iminodiacetic acid, 2,2'-bipyridine as a ancillary ligand and their structural photoluminescence properties will be discussed.