

Electronic Supplementary Information (ESI) for RSC Advances

Syntheses, crystal structures and photoluminescent properties of silver(I) and cadmium(II) coordination polymers constructed from flexible hexadentate di-schiff base ligand

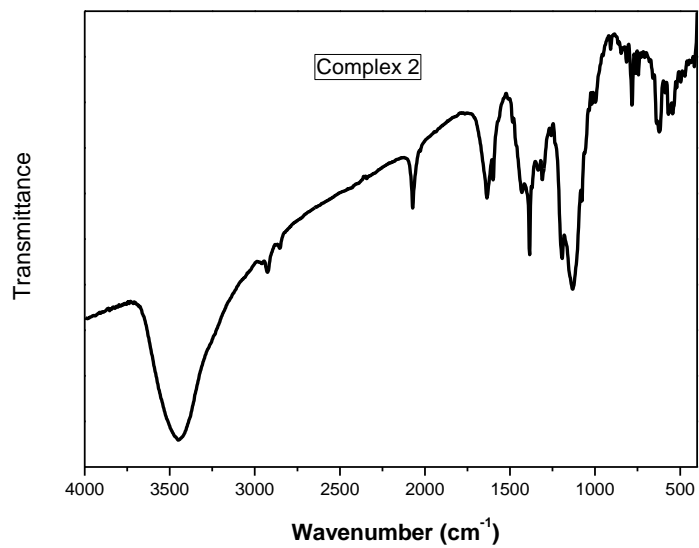
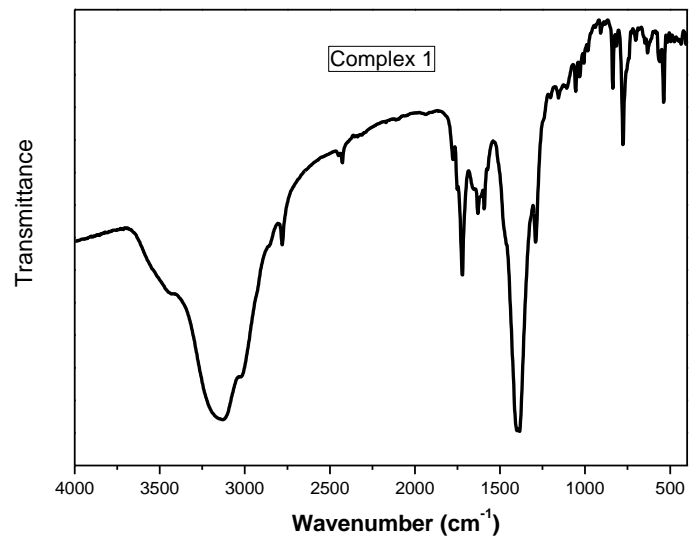
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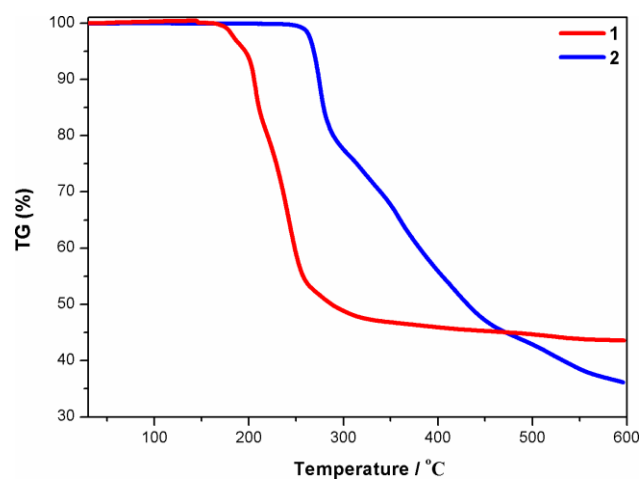
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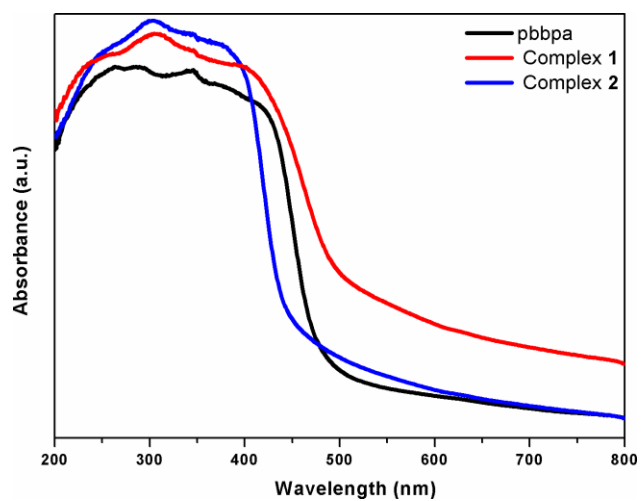
(1) Fig. S1: IR spectra of 1 and 2



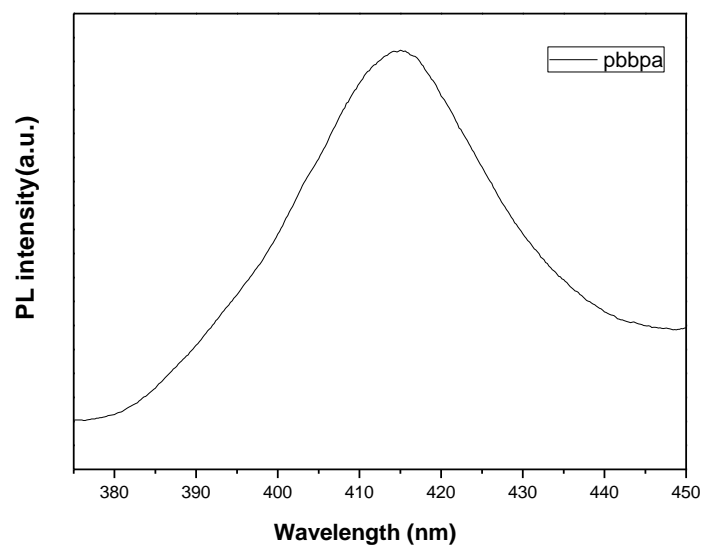
(3) Fig. S2: The TGA curves of 1 and 2.



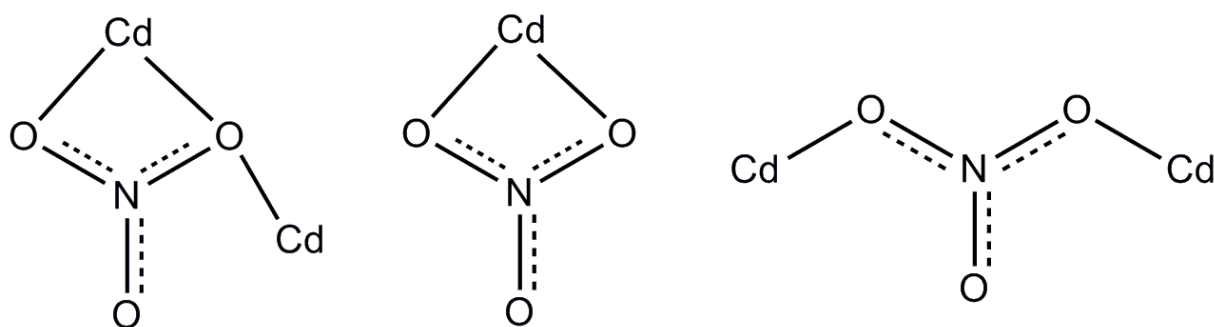
(3) Fig. S3: Absorption spectra of the free pbbpa, 1 and 2.



(4) Fig. S4: Emission spectrum of the free ligand pbbpa.



(5) Scheme S1: Diverse coordination modes of NO_3^- in **2.**



Left: $\mu_2\text{-}\kappa^1\text{O}:\kappa^1\text{O}:\kappa^1\text{O}'$ (monodetate bridging + bidentate chelating)

Middle: $\mu_1\text{-}\kappa^1\text{O}:\kappa^1\text{O}'$ (bidentate chelating)

Right: $\mu_2\text{-}\kappa^1\text{O}:\kappa^1\text{O}'$ (bidentate bridging)