

Electronic Supplementary Information (ESI)

Valence-induced assembly of Cu^I/Cu^{II} ions into different discrete coordination architectures by a disk-shaped polypyridyl ligand

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Fig. S1 Color changes of HPDQ upon addition of Cu^I or Cu^{II}.

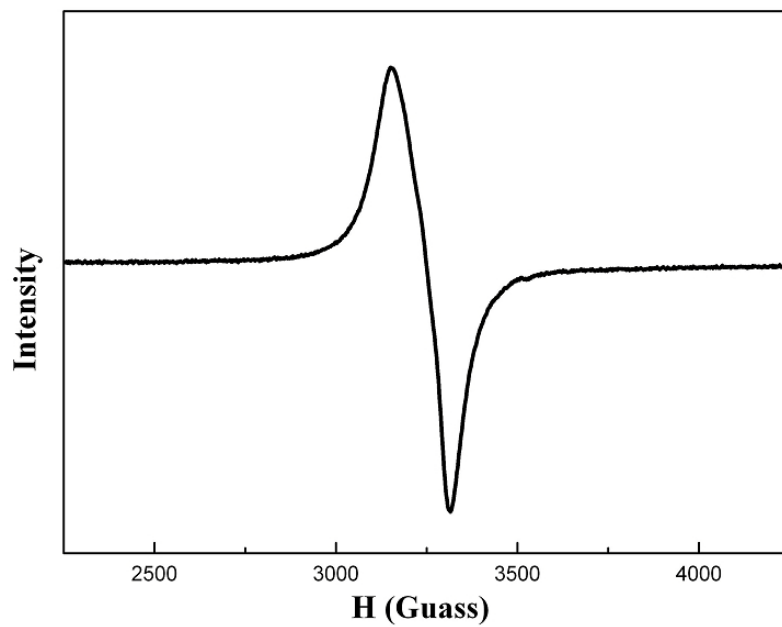


Fig. S2 EPR spectra at room temperature for complex $(\text{Cu}(\text{NO}_3)_2)_6(\text{HPDQ})_3$ (1) in the $\text{CH}_2\text{Cl}_2/\text{CH}_3\text{CN}$ (v/v = 1:1) mixture solvent.

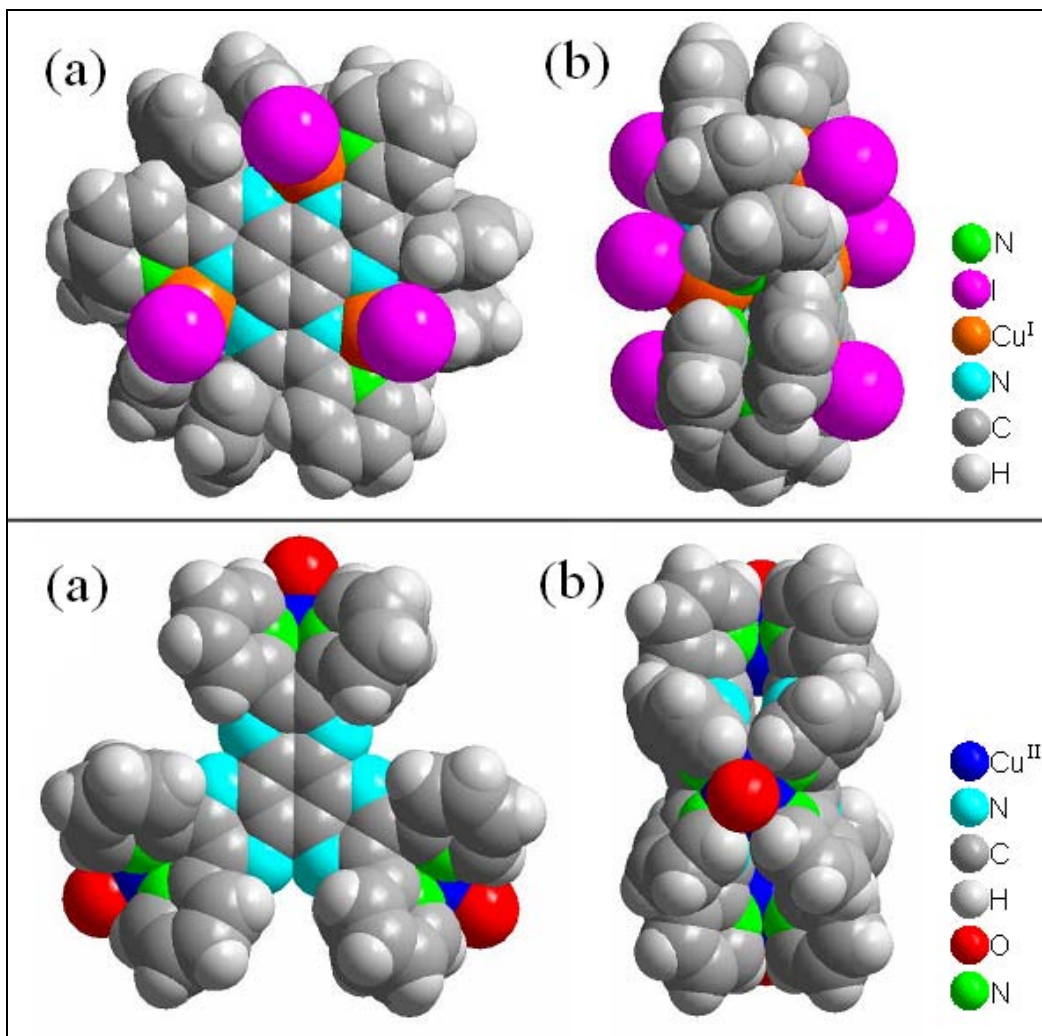


Fig. S3 Space-filling diagrams showing the crystal structure of $(\text{CuI})_6(\text{HPDQ})_2(\text{CHCl}_3)_8$ (1) and $(\text{Cu}(\text{NO}_3)_2)_6(\text{HPDQ})_3$ (2). (a) top view; (b) side view.

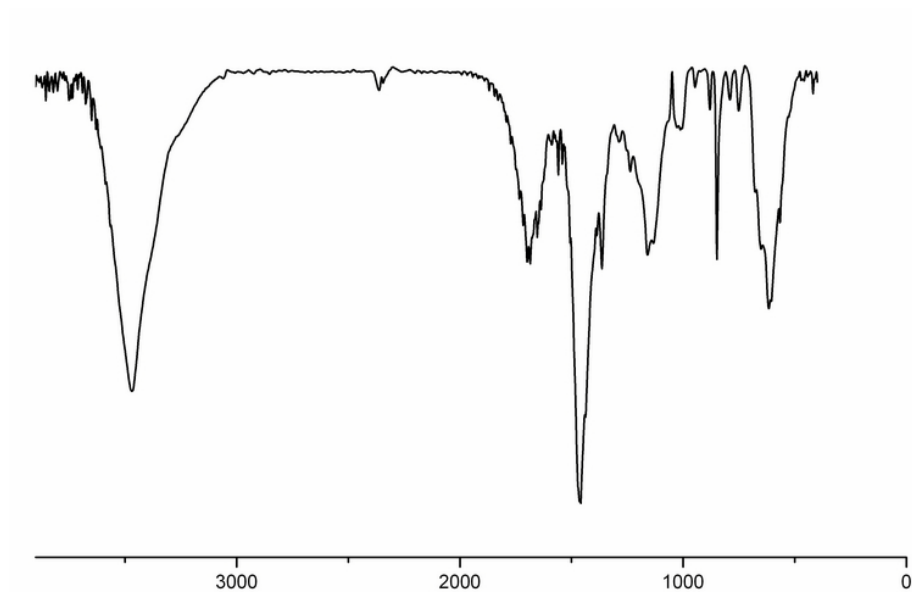


Fig. S4 FT-IR spectra of $(\text{CuI})_6(\text{HPDQ})_2(\text{CHCl}_3)_8$ (1)

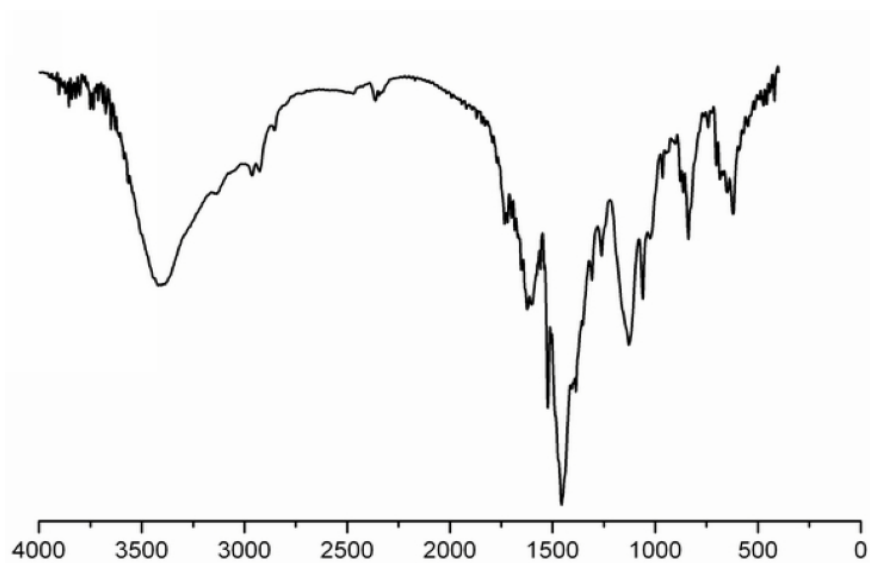


Fig. S5 FT-IR spectra of $(\text{Cu}(\text{NO}_3)_2)_6(\text{HPDQ})_3$ (2)