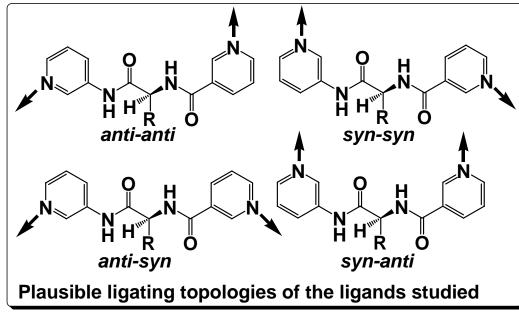
Electronic Supporting Information (ESI)

An unprecedented all helical 3D network and a rarely observed microporous noninterpenetrated octahedral network in homochiral Cu(II) MOFs: Effect of steric bulk and π - π stacking interactions of the ligand backbone

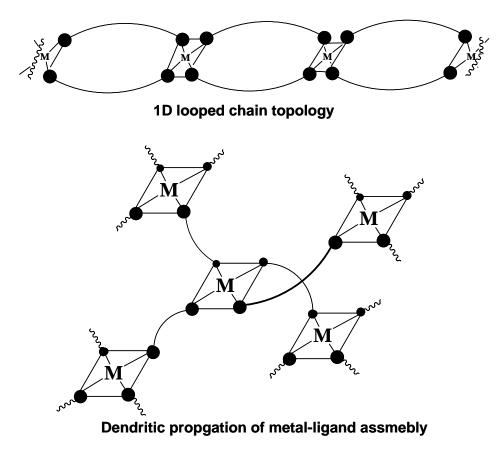
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The ligating topology of the ligands is conformation dependent. It may be noted that the backbone of the ligand has two carbonyl groups which are expected to be oriented in opposite fashion in order to cancel out the >C=O dipole. Thus, keeping the backbone of the ligand in this fashion, four plausible conformations may be envisaged (Scheme S1).



Scheme S1



Scheme S2

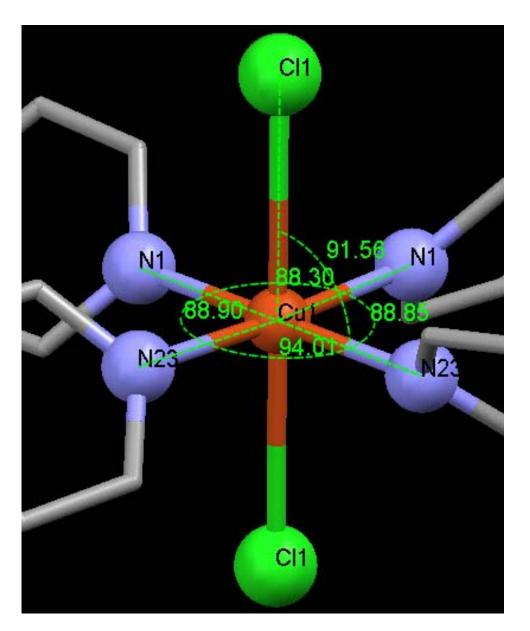


Figure S1: Metal coordiantion geometry in MOF 1

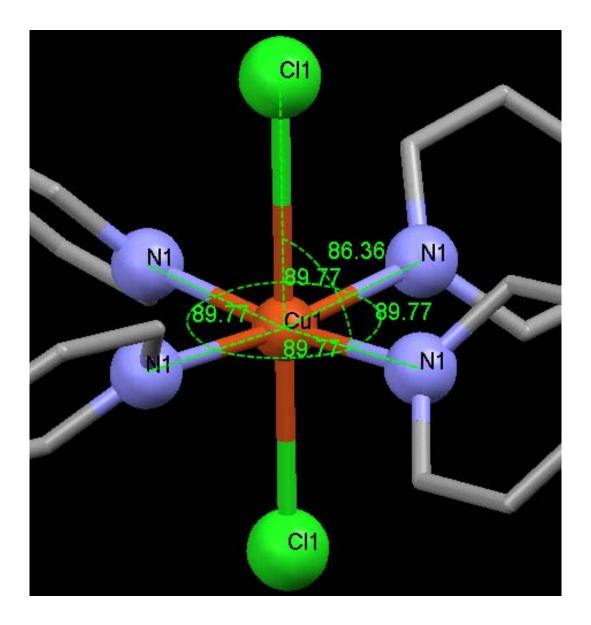
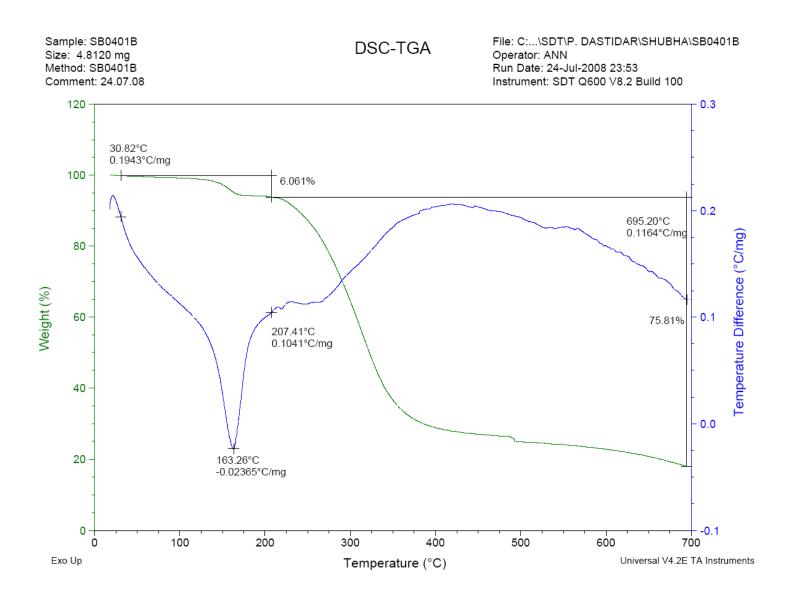


Figure S2: Metal coordination geometry in MOF 2

TGA of MOF-1 and MOF-2

<u>MOF-1</u>



<u>MOF 2</u>

