Classical hydrogen bondings and stacking of chelate rings in new copper(II) complexes

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Supplaymentary Information



Fig. S1 IR spectrum of HL.



Fig. S2 IR spectrum of Complex 1.



Fig. S3 IR spectrum of complex 2.



Fig. S4 IR spectrum of complex 3.



Fig. S5 Supramolecular structure of complex 2. Top: 1D Middle: 2D and Bottom: 3D layer.

Fig. S6 1D polymeric chain bifurcated hydrogen bonding as well as oxygen-oxygen interaction of complex

Fig. S7 DFT calculated UV-visible spectrum A Ligand, B Complex 1, C Complex 2, D Complex 3.

Fig. S8 DFT calculated optimized structure of HL and copper(II) complexes 1-3.

Fig. S9 DFT calculated HOMO-LUMO molecular orbital energy level diagram for HL.

Fig. S10 DFT calculated HOMO-LUMO molecular orbital energy level diagram for complex 1.

Fig. S11 DFT calculated HOMO-LUMO molecular orbital energy level diagram for complex 2.

Fig. S12 DFT calculated HOMO-LUMO molecular orbital energy level diagram for complex 3.