

Supplementary Information

Aggregation of imine – based metallo-supramolecular architectures through π - π interactions.

Mirela Pascu,^a Guy J. Clarkson,^b Benson M. Kariuki ^a and Michael J. Hannon.^a*

a School of Chemistry, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK; fax + 44 121 414 7871; email: m.j.hannon@bham.ac.uk

b Department of Chemistry, University of Warwick, Gibbet Hill Road, Coventry, CV4 7AL, UK.

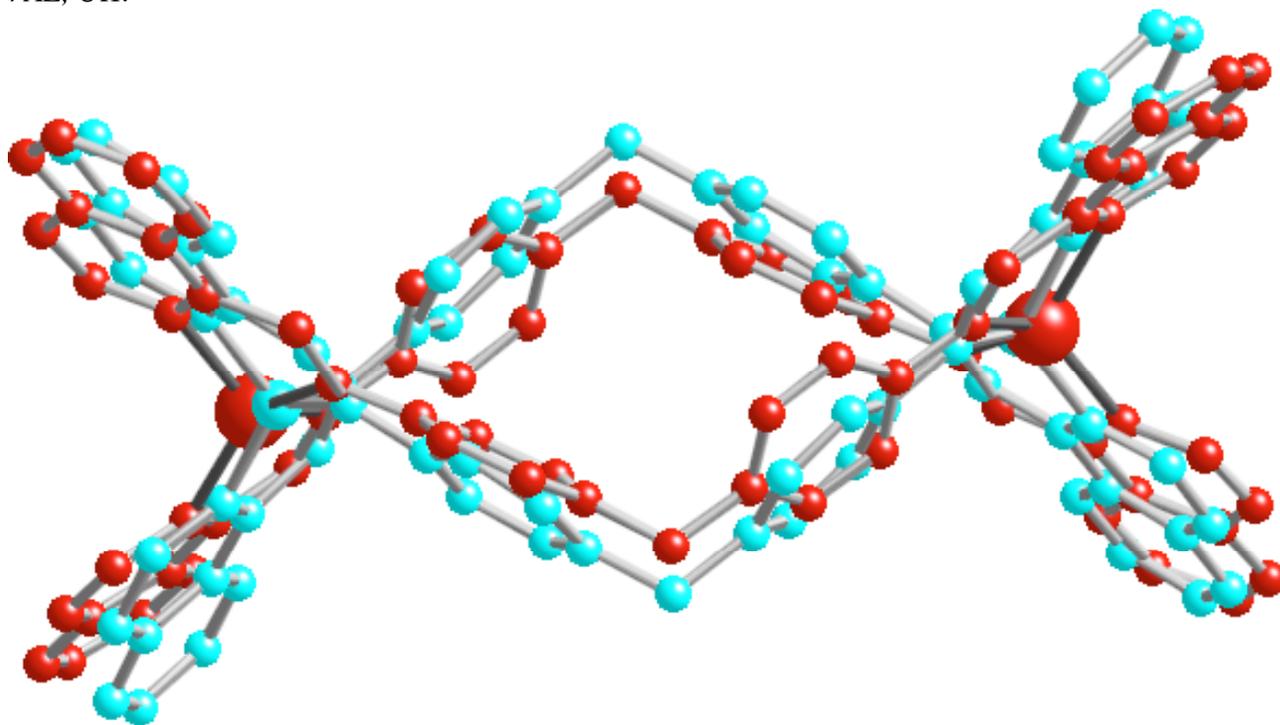


Figure S1: Comparison of Ag (red) and Cu (blue) structures

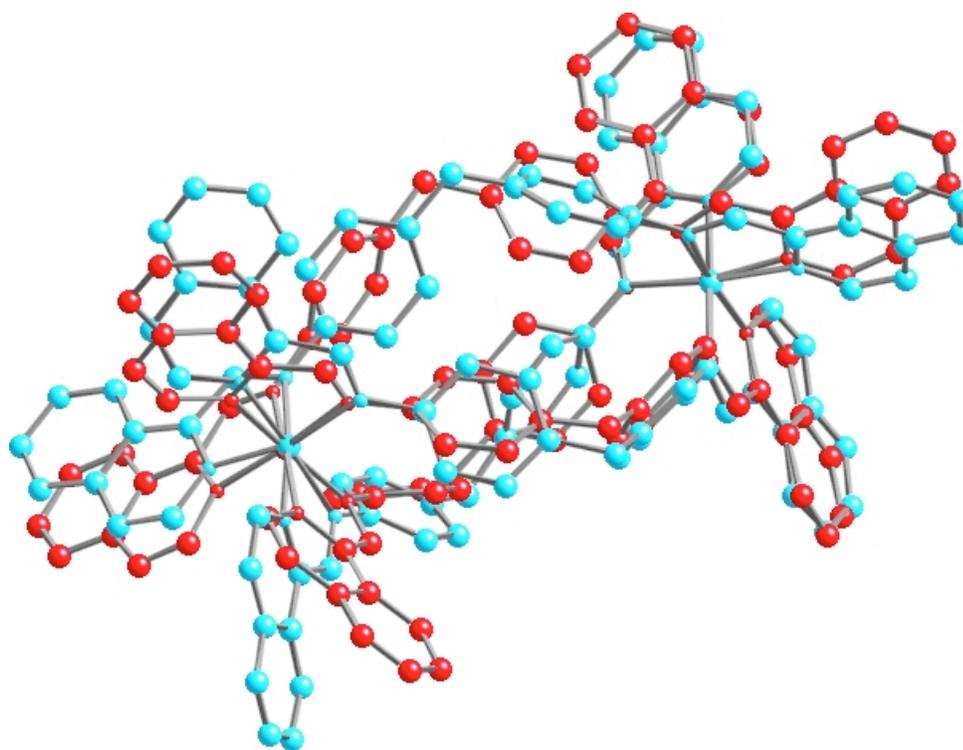


Figure S2: Comparison of Fe (red) and Ni (blue) structures

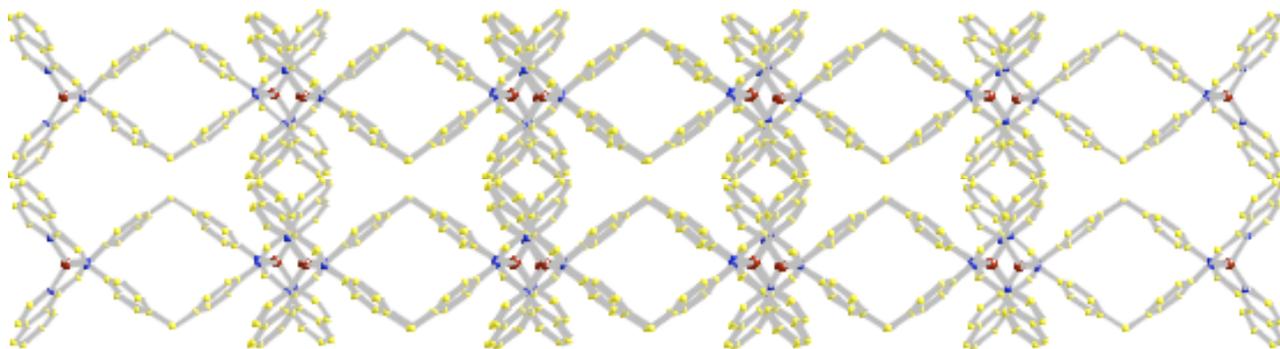


Figure S3: Additional view of the packing diagram for the [Cu₂(L)₂]²⁺ cations, showing extensive π-π interactions between the isoquinoline units.

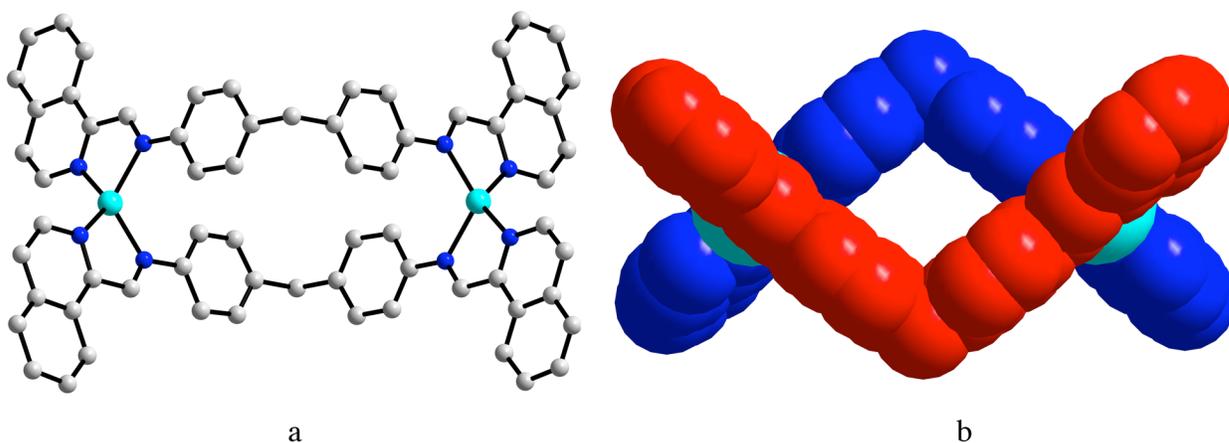


Figure S4: Colour view of Figure 1: a) Molecular structure of the cation in the copper complex $[\text{Cu}_2(\text{L})_2](\text{BF}_4)_2$ b) Space-filling representation showing the box structure of this copper complex. Hydrogen atoms, anions and solvent molecules are omitted for clarity

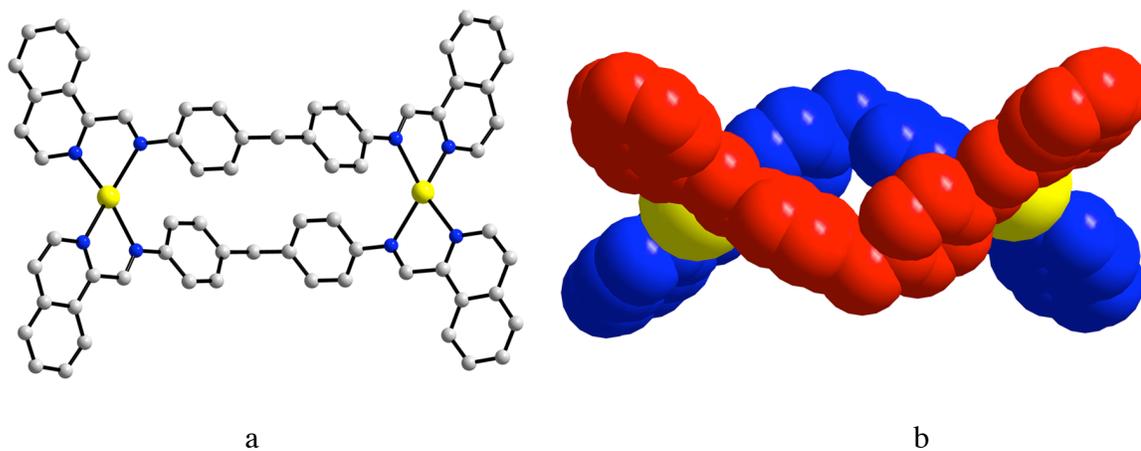


Figure S5: Colour view of Figure 3: a) Molecular structure of the cation in the $[\text{Ag}_2\text{L}_2][\text{PF}_6]_2$ complex. b) Space-filling representation illustrating the box structure of this meso- silver complex. Hydrogen atoms are omitted for clarity.

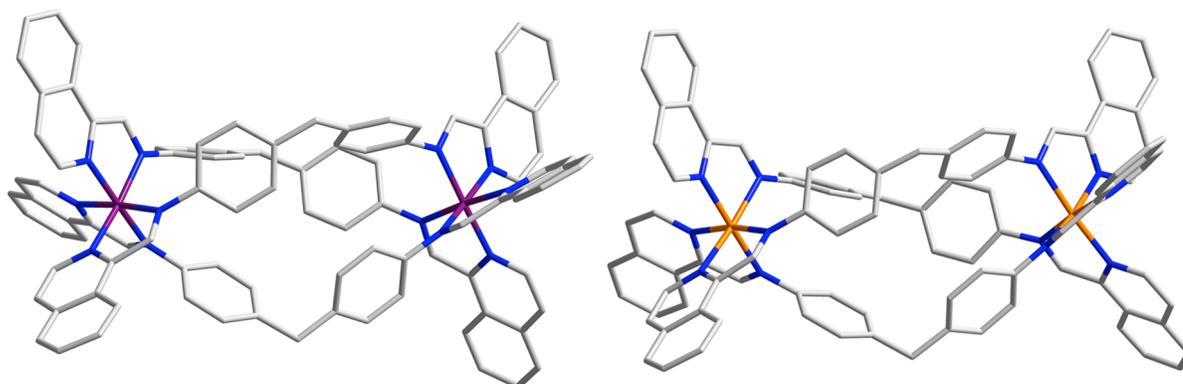


Figure S6: Colour view of Figure 5: Molecular structures of the a) the iron complex cation $[\text{Fe}_2\text{L}_3]^{4+}$ b) the nickel complex cation $[\text{Ni}_2\text{L}_3]^{4+}$. Hydrogen atoms, solvent molecules and anions are omitted for clarity and a single enantiomer of each is shown although both enantiomers are present in the structure.

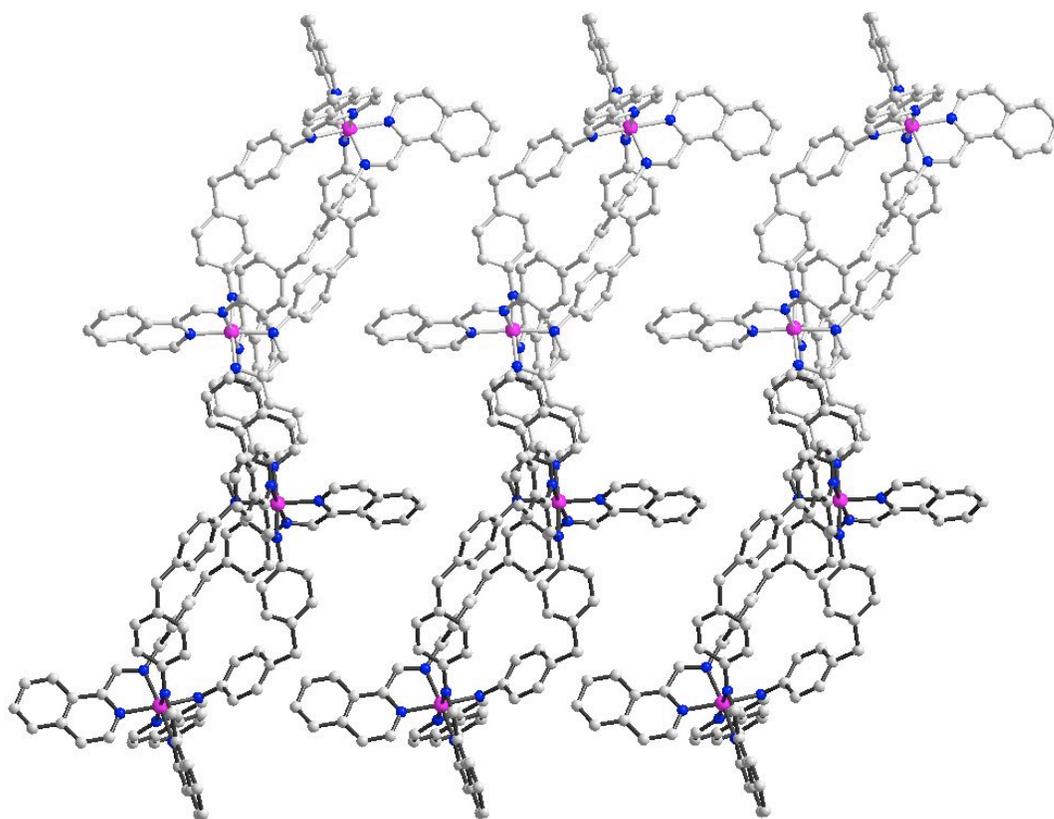


Figure S7: Colour view of Figure 7: Packing diagram of $[\text{Fe}_2\text{L}_3]^{4+}$, showing the π - π interactions.