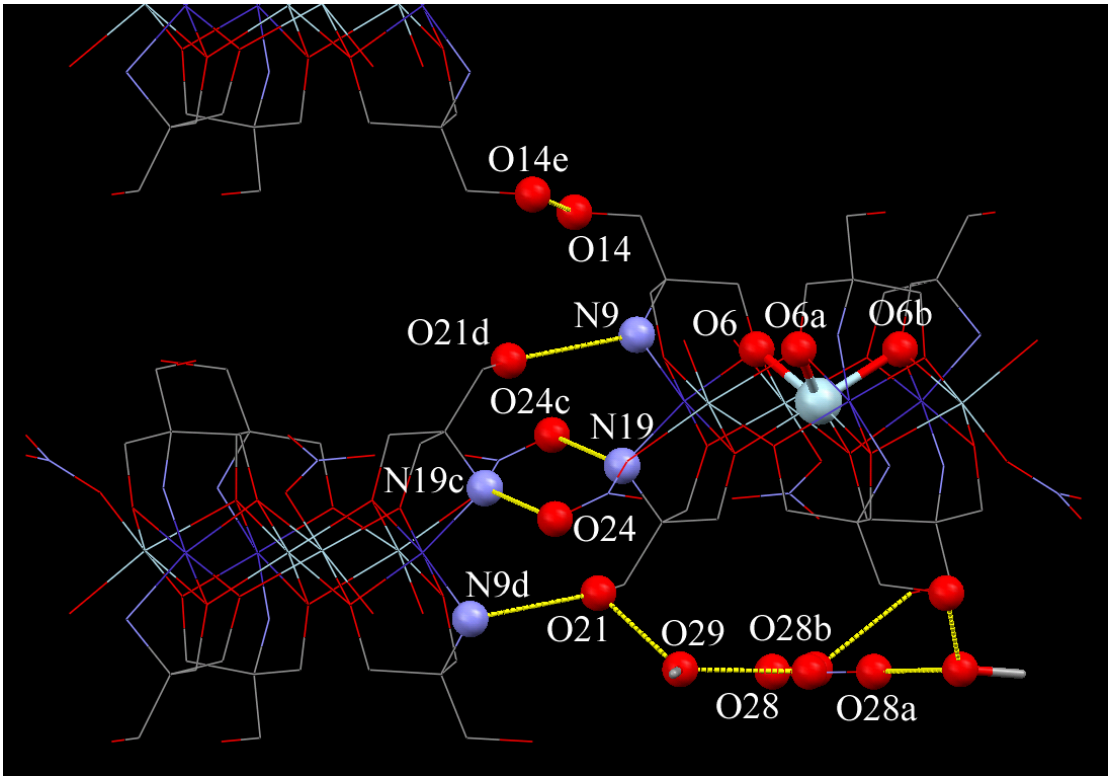
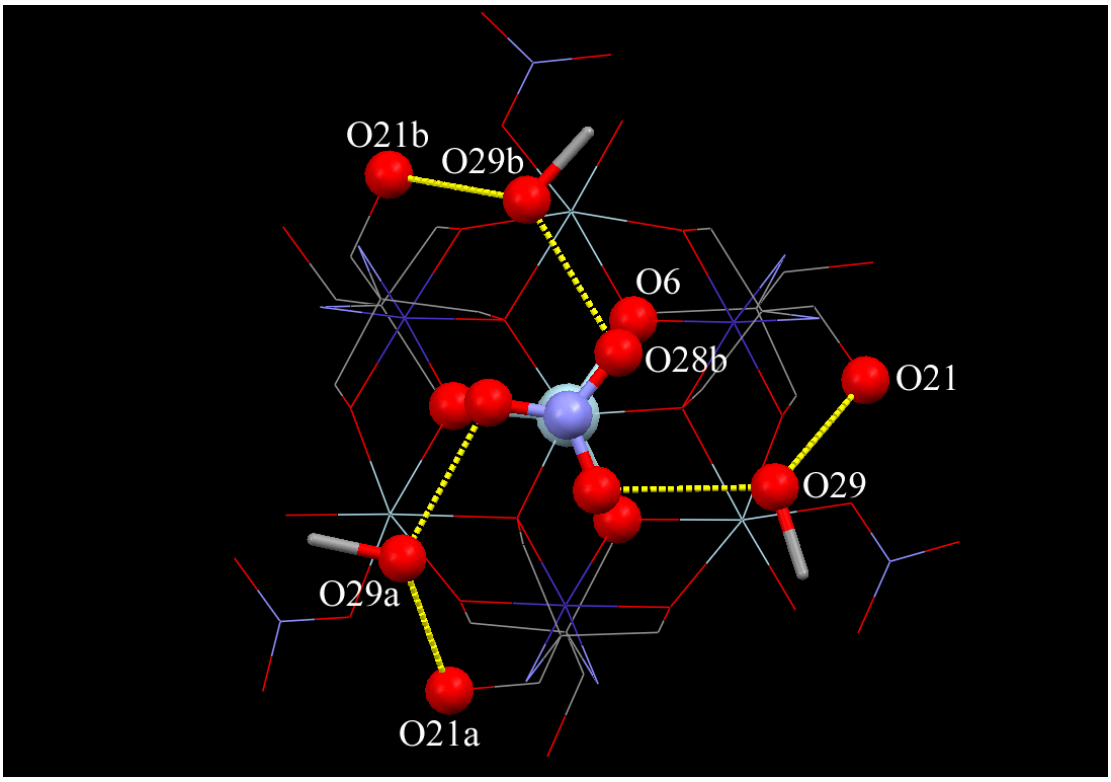
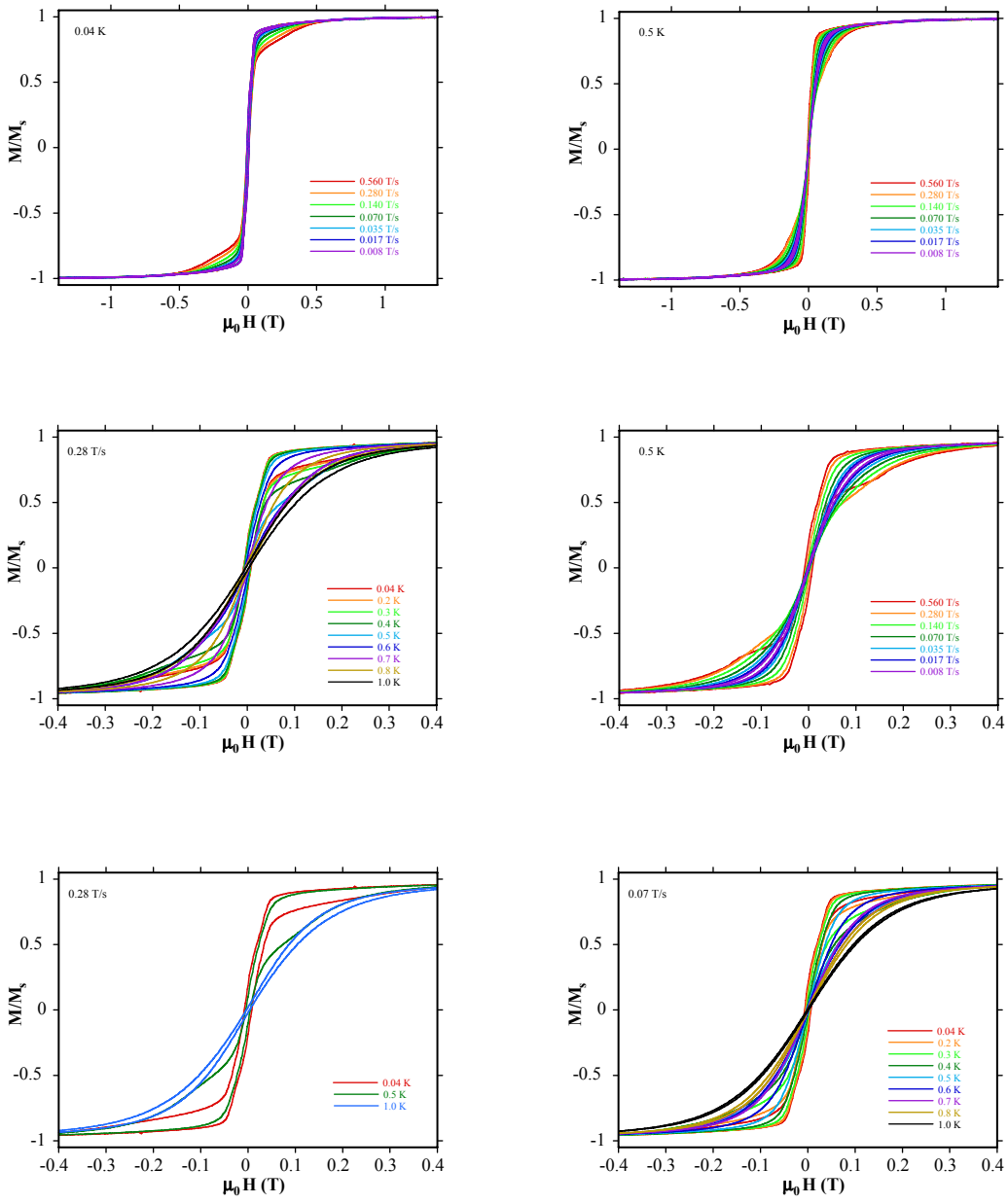
Supporting information for manuscript *'A mixed-valence Co_7 single-molecule magnet with C_3 symmetry'* Alan Ferguson, Andrew Parkin, Javier Sanchez-Benitez, Konstantin Kamenev, Wolfgang Wernsdorfer and Mark Murrie.





Intermolecular hydrogen-bonding viewed along *a* (top) and *c* (bottom), with H atoms omitted for clarity: symmetry equivalents a = 1-x+y, 1-x, z; b = 1-y, x-y, z; c= x-y, x, 2-z; d=1-x, 1-y, 2-z; e= 1-x, 1-y, 1-z.



Magnetisation (*M*) versus applied dc field (*H*) hysteresis loops for a single crystal of **1** at the indicated field sweep rates and temperatures