

Publication**2,2'':6'':2'':-Terpyridine-4''(1''H)-thione : a missing link in metallosupramolecular chemistry****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 43324**Author(s)** Constable, Edwin C.; Hermann, Bianca A.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Scherer, Lukas J.**Author(s) at UniBasel** [Constable, Edwin Charles](#) ; [Housecroft, Catherine](#) ;**Year** 2005**Title** 2,2'':6'':2'':-Terpyridine-4''(1''H)-thione : a missing link in metallosupramolecular chemistry**Journal** New Journal of Chemistry**Volume** 29**Number** 11**Pages / Article-Number** 1475-1481

The compound 2,2': 6',2' "-terpyridine-4'(1'H)-thione 1 has been prepared and structurally characterised; in both the solid state and in solution, the thione tautomer is dominant. Compound 1 is a key entry into 4'-sulfur-functionalised tpy ligands and a representative alkylation with an electrophilic Frechet dendrimer is presented and the structural characterisation of the new ligand 4 reported. Oxidation of 1 yields bis(2,2': 6',2' "-terpyridin- 4'-yl) disulfide 2 which is a novel homoditopic tpy ligand and which forms a tetranuclear [4 + 4] iron (II) metallomacrocyclic. Structural characterisation of 2 and preliminary data for the iron complex are presented.

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