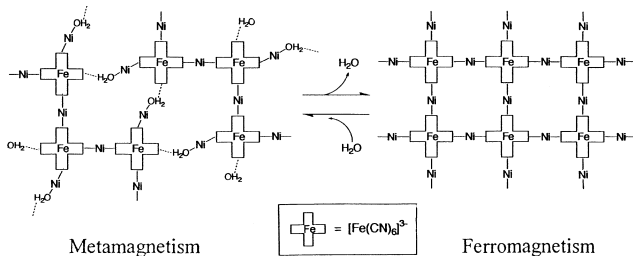


# A Bimetallic Magnetic System Exhibiting Reversible Ferromagnetism/Metamagnetism Modulation

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A magnetic system exhibiting reversible ferromagnetism/metamagnetism modulation is produced based on interconversion between ferromagnetic  $[\text{Ni}(1,1\text{-dmen})_2]_2[\text{Fe}(\text{CN})_6](\text{BPDS})_{0.5}$  (**1a**) (1,1-dmen = 1,1-dimethylethylenediamine,  $\text{BPDS}^{2-}$  = 4,4'-biphenyldisulfonate) and metamagnetic  $[\text{Ni}(1,1\text{-dmen})_2]_2[\text{Fe}(\text{CN})_6](\text{BPDS})_{0.5} \cdot 2\text{H}_2\text{O}$  (**1b**) by hydration and dehydration treatments.



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