

Fig. S1 Electronic spectrum of a solution of Ni²⁺ in trifluoroethanol ($\lambda_{\text{max}} = 603$ nm), compared with the spectra of solutions of Ni²⁺ together with different amounts of copolymer (0.5, 1, 1.5, 2, 3, 4 mol of repeat unit per mol of Ni²⁺ metal cation) ($\lambda_{\text{max}} = 589$ nm).

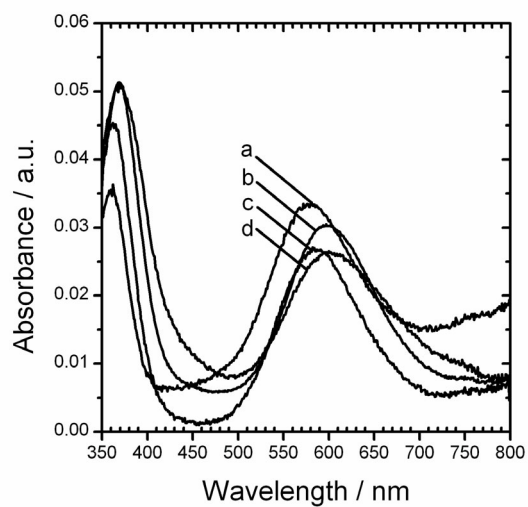


Fig. S2 Electronic spectra of Ni(II) aqueous solutions, together with different hypothetical ligands: (a) N-methylpyrrolidine, (b) ammonia only (reference spectrum), (c) the polymer, and (d) succinic acid (pH adjustment to 11.0 with 0.1 M aqueous ammonia).