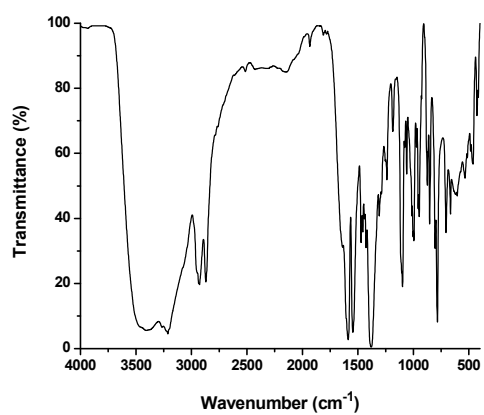


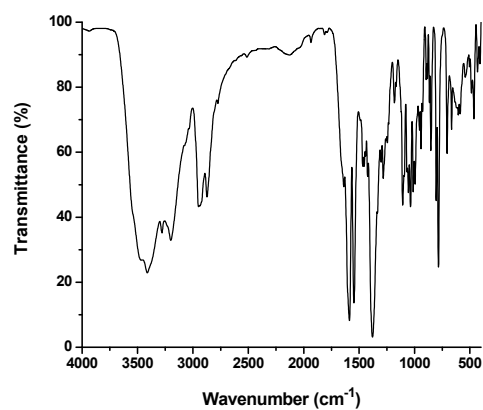
**Catenation control by ligand size in the two-dimensional coordination
polymers based on tritopic carboxylate linkers and azamacrocyclic nickel(II)
complexes**

Yaroslav D. Lampeka, Liudmyla V. Tsymbal, Andrij V. Barna, Yulija L. Shul'ga, Sergiu Shova
and Vladimir B. Arion

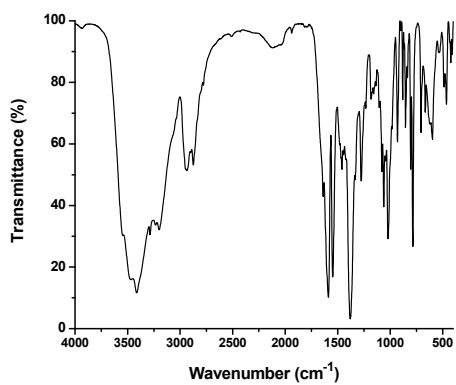
Electronic Supplementary Information



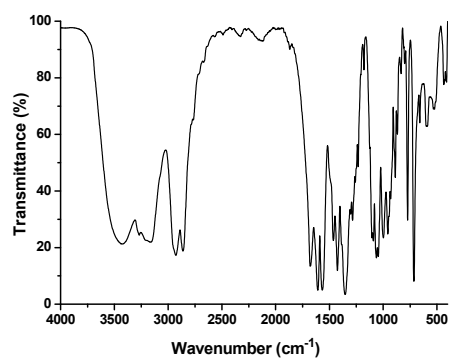
a)



b)



c)



d)

Fig. S1 IR Spectra of the complexes **1** (a), **2** (b), **3** (c) and **4** (d).

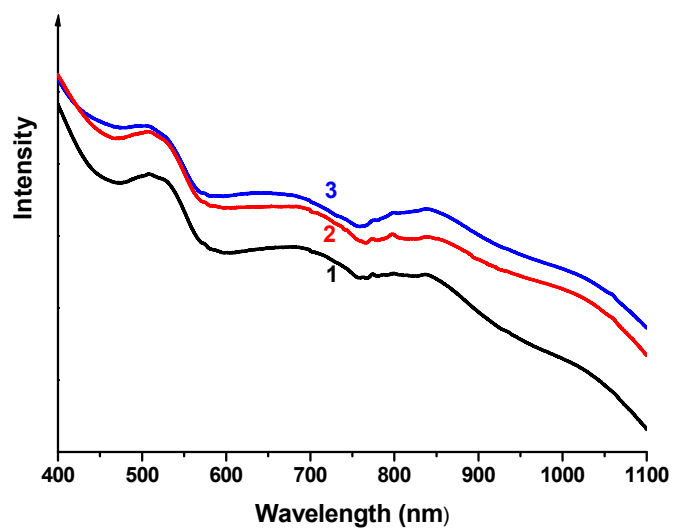


Fig. S2 Solid-state reflectance spectra of the complexes **1 - 3**.

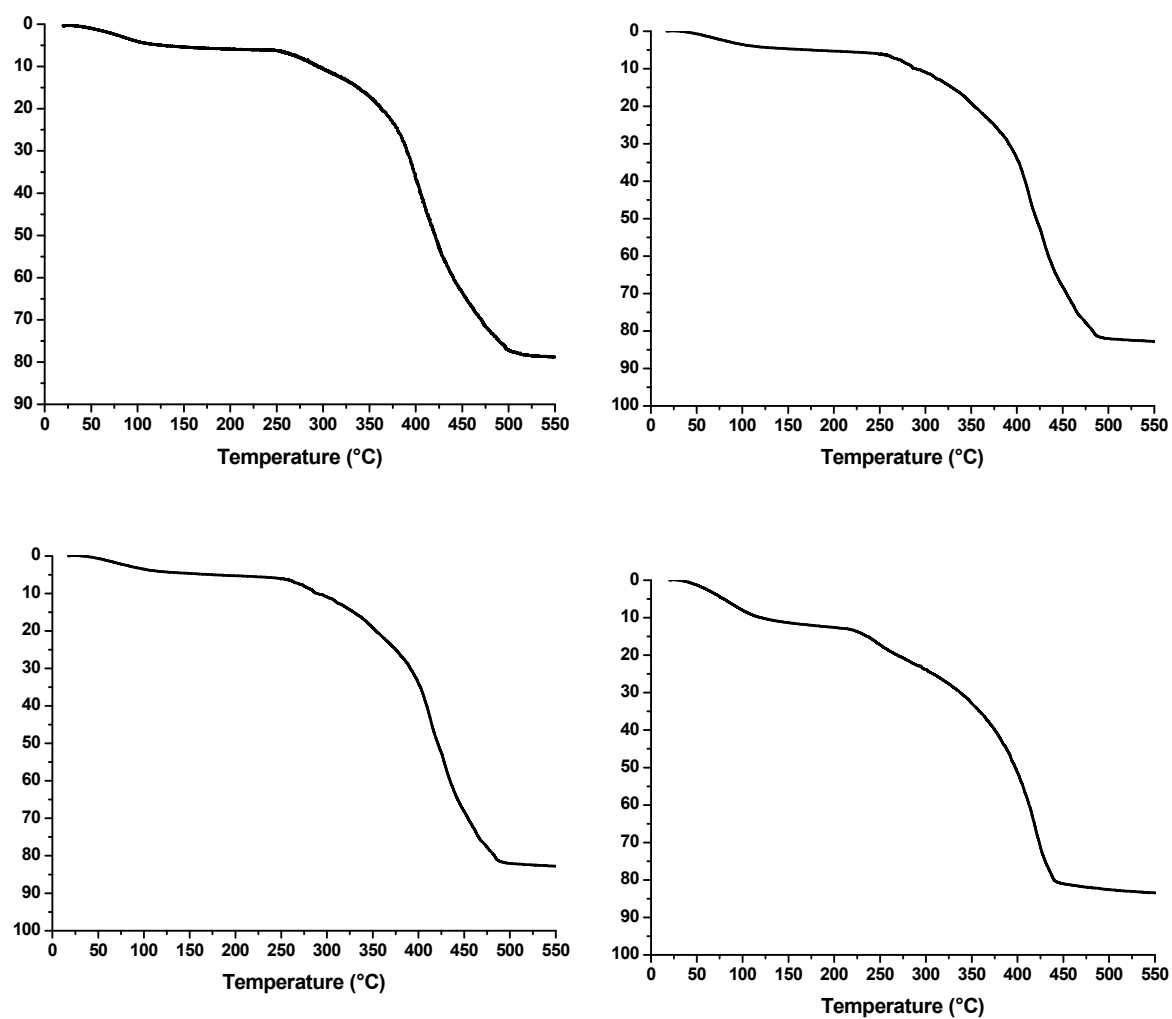


Fig. S3 The TGA curves of **1** (a), **2** (b), **3** (c) and **4** (d).

Conditions: temperature ramp from 25 °C to 550 °C at 10 °C/min in air

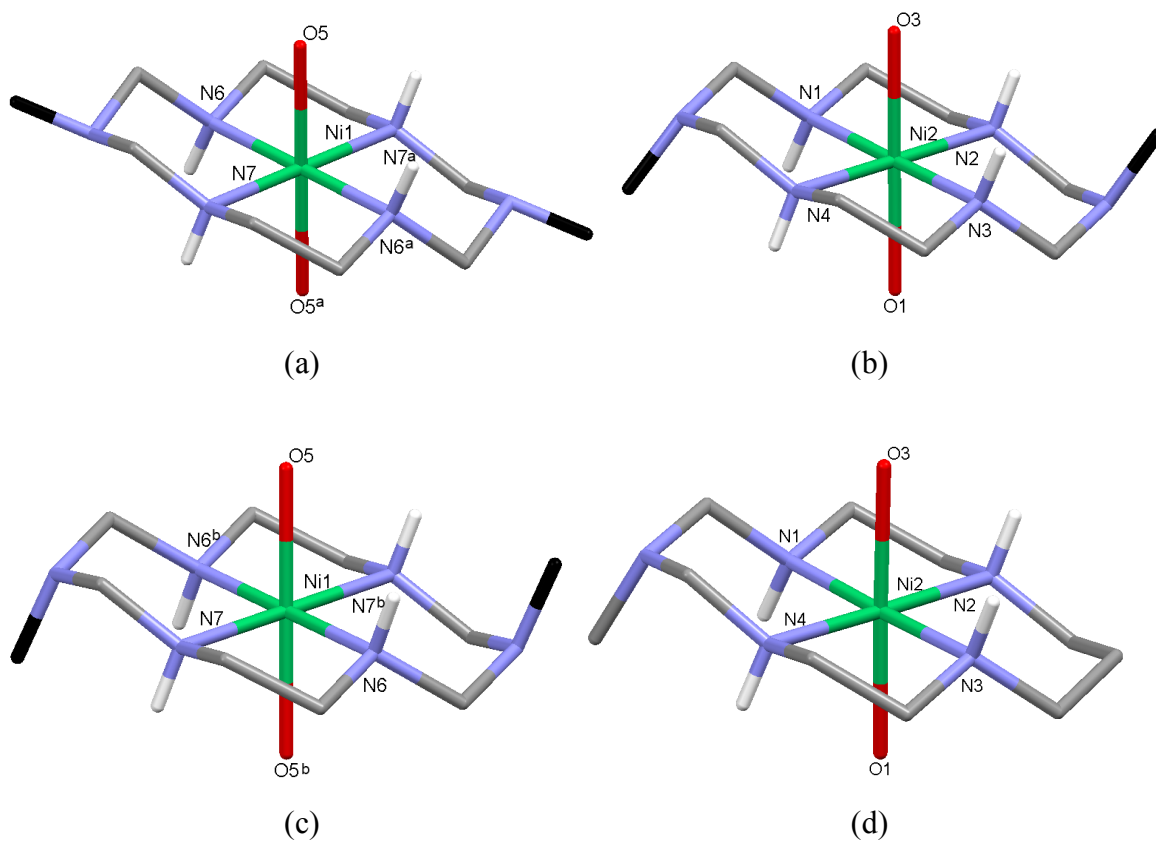


Fig. S4 Capped sticks representation of the conformations of the macrocyclic ligand L² in **2** (a, b) and **4** (c, d) (carbon atoms of disordered substituent at the distal nitrogen atoms are shown in black). Symmetry transformations used to generate equivalent atoms: ^a) -x, 3-y, 1-z; ^b) 2-x, 1-y, 2-z.

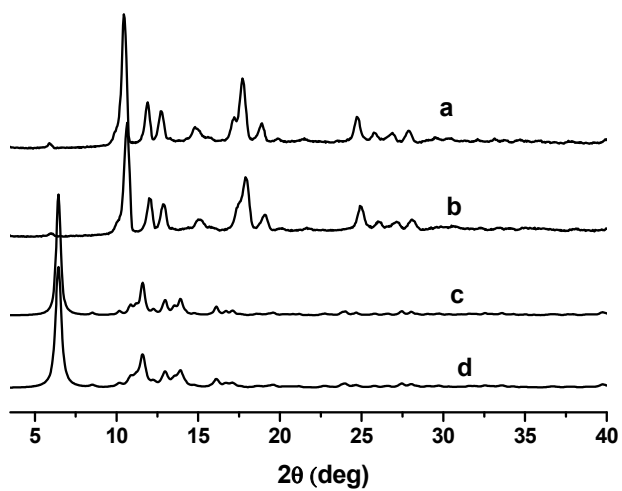


Fig. S5 XRPD patterns for polycrystalline samples of **2** and **4** before ((a) and (c), respectively) and after ((b) and (d), respectively) the desolvation/resolvation cycle.

Desolvation/resolvation conditions: heating at 120 °C under reduced pressure (10^{-2} torr) for 4 h with subsequent exposition to water vapor for 12 h.