Perspective views of the Re(IV) polyhedron in compounds 1, 2, and 3 (Figure S1). Packing of 1 along y axis (Figures S2 and S4), and polyhedron around M(II) in 2 and 3 (Figure S3).
Figure S1. View of the coordination around Re(IV) in the N(2)-Re-Br(1) direction for compounds 1 (a), 2 (b), and 3 (c). Code color: Re, purple; Br, green; O, red; N, blue; C, grey.
**Figure S2.** Ball and stick diagram of compound 1 along y axis. Color code: rhenium, purple; bromine, green; oxygen, red; nitrogen, blue; carbon, grey.
Figure S3. Perspective drawing of the M(II) polyhedron in compounds 2 (a) and 3 (b). Code color: Re, purple; Br, green; O, red; N, blue; C, grey; Co, orange; Ni, dark green.
Figure S4  Perspective drawing of 1 along y direction showing the zigzag chains and shortest distances Br···Br. Code color: Re, purple; Br, green; O, red; N, blue; C, grey for