Electronic supplementary information

Heteronuclear, mixed-metal Ag(I)–Mn(II) coordination polymers with bridging N-pyridinylisonicotinohydrazide ligands: synthesis, crystal structures, magnetic and photoluminescent properties

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**Fig. S1.** Electronic absorptions of the ligands in methanol ($c = 2.5\times10^{-5}$).
Fig. S2. Comparison of electronic transitions of coordination polymers 1-3 in methanol ($c = 2.5 \times 10^{-5}$).
Fig. S3: Magnetic field evolution of $M$ for the compounds 1-3 at 2 K.
Magnetic properties of 3

Fig. S4 Temperature evolution of $\chi^{-1}$ for the compound 3 and the fittings to a Curie-Weiss law.

A Curie constant of $C = 6.37$ emu mol$^{-1}$ K is obtained in agreement with 1.5 high spin Mn(II) ions per formula. A Weiss constant of -3.44 K indicates some antiferromagnetic interactions.
Fig. S5. XRD pattern of compound 1.

Fig. S6. XRD pattern of compound 2.

Fig. S7. XRD pattern of compound 3.