Supporting Information

A series of new manganese thioarsenates(V) based on different unsaturated $[\text{Mn(amine)}_x]^{2+}$ complexes

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Fig. S1 Experimental and simulated powder XRD patterns. (The simulated XRD pattern of 1-4 is slightly different from the measured one. It means that 1-4 are sensitive to the moisture and air)
Fig. S2 The asymmetric unit of 1 (H atoms bonded to C and N atoms have been omitted for clarity).

Fig. S3 The crystal packing of 2.
Fig. S4 The asymmetric unit of 3 (H atoms bonded to C and N atoms have been omitted for clarity).

Fig. S5 3-D hydrogen bonding network structure.
Fig. S6 The asymmetric unit of 4 (H atoms bonded to C and N atoms have been omitted for clarity).

Fig. S7 Total and partial DOS for 1. The Fermi level is set at 0 eV (dotted line).
Fig. S8 The calculated band structures of 1, 3 and 4. The Fermi level is set at 0 eV (dotted line).