Supplementary materials

Copper Diphosphonates with Zero-, One- and Two-Dimensional Structures: Ferrimagnetism in Layer Compound $Cu_3(ImhedpH)_2 \cdot 2H_2O$ [ImhedpH₄ = $(1-C_3H_3N_2)CH_2C(OH)(PO_3H_2)_2$]

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Fig. S1 XRD patterns of compounds 1-4 and Imhedp-Cu.



Fig. S2 XRD patterns of compound 4 obtained at 90, 120, 140°C, respectively.



Fig. S3 The XRD patterns of (a) the mixture of 2 and 3 when 1 is used as starting material; (b) compound 4 when 1 is used as starting material; (c) compound 4 when the mixture of 2 and 3 are used as starting materials.



Fig. S4 Packing diagram of structure **1** viewed approximately along the *b*-axis. All H atoms attached to C are omitted for clarity.



Fig. S5 Packing diagram of structure 2 viewed along the *a*-axis. All H atoms attached to C atoms are omitted for clarity.



Fig. S6 Field dependent magnetization for 3 at 1.8 K.