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Supporting Information

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Photoluminescent and Cytotoxic Properties of Multinuclear Complexes and Multinuclear-based Polymers with Group 12 Metals and Tripodal Ligand

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Fig. S1 The structure of 1 presented as thermal ellipsoid model.



Fig. S2 View of 3D supramolecular structure of 1 stabilized by hydrogen-bonding and $\pi \cdots \pi$ interactions (Symmetry codes: ^{A4}/3y, 2/3+x-y, -1/3+z; 1-x,1-y,1-z).



Fig. S3 The coordination environment of 2 presented as thermal ellipsoid model.



Fig. S4 View of 3D supramolecular structure of **2** stabilized by hydrogen-bonding and $\pi \cdots \pi$ interactions (Symmetry codes: ^A4/3-y, 2/3+x-y, -1/3+z; ^B5/3-x, 4/3-y, 4/3-z; ^C2-y, 1+x-y, z; 5/3-x, 4/3-y, 4/3-z).



Fig. S5 The structure of 3 presented as thermal ellipsoid model.



Fig. S6 The tetranuclear framework of complex 4 (all hydrogen atoms are omitted for clarity).



Fig. S7 The structure of 4 presented as thermal ellipsoid model.



Fig. S8 View of 3D supramolecular structure of **3** stabilized by hydrogen-bonding and $\pi \cdots \pi$ interactions (Symmetry codes: ^A2/3y, 1/3+x-y, 1/3+z; 1-x, 1-y, 1-z).



Fig. S9 (a) The TG and DSC curves of complex 1 with solvent molecular; (b) The TG and DSC curves of complex 1 without solvent molecular.



Fig. S10 (a) The TG and DSC curves of complex 2 with solvent molecular; (b) The TG and DSC curves of complex 2 without solvent molecular.



Fig. S11 The photoluminescence emission spectra of ligand tpbb ($\lambda ex = 349$ nm) in the solid state at 298 K and cryogenic temperatures.



Fig. S12 ESI-MS spectrum of complex 1.