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Dimension-Related Magnetism in Heterometallic Complexes Based on the Same [LnCu(dicarboxylpyrazole)₂] Building Moieties

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Abstract

Hydrothermal reactions of lanthanide(III) oxide with copper sulfate or copper nitrate and pyrazole-3,5-dicarboxylic acid (H₃PDC) lead to two families of heterometallic Ln–Cu coordination polymers, [Ln₂Cu(PDC)₂(SO₄)(H₂O)₆]_n·nH₂O (Ln = Dy for **1**, Ho for **2**, Er for **3**) and [Ln₂Cu(PDC)₂(HPDC)(H₂O)₄]_n·2nH₂O (Ln = Dy for **4**, Ho for **5**, Er for **6**), which are based on the same building units, *viz.*, metalloligands of [LnCu(PDC)₂]. Compounds **1–3** are isostructural, constructed from the similar double-stranded ribbons which can also be described

¹ Min Wang and Liang He contribute equally to this work

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