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Title:	Is metal metathesis a framework-templating strategy to synthesize coordination polymers (CPs)? Transmetallation studies involving flexible ligands
Authors:	Mandal, S. (/jspui/browse?type=author&value=Mandal%2C+S.)
Keywords:	Ligands Coordination Polymers Cadmium Transmetallation
Issue Date:	2014
Publisher:	Royal Society of Chemistry
Citation:	RSC Advances, 4(69), pp.36451-36457.
Abstract:	The coordination polymer (CP) of bis(3-pyridyl)butanediamide with Cu(ClO4)2 is a 2D network (CP-3-Cu), which showed two-fold parallel interpenetration, whereas with Cd(ClO4)2 it is a 1D network containing rectangular loops (CP-4-Cd). The metal metathesis of CP-4-Cd with Cu(II) resulted in the isomorphous replacement of the Cd(II) centre with Cu(II). Transmetallation reaction resulted in retaining the structural features of CP-4-Cd even in case of a flexible ligand. The CP formed via transmetallation couldn't be synthesized from a direct reaction of bis(3-pyridyl)butanediamide and Cu(ClO4)2. The transmetallation kinetic studies were performed with an atomic absorption spectrophotometer (AAS) and wavelength dispersive X-ray fluorescence (WDXRF).
Description:	Only IISERM authors are available in the record.
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