Title:	Coordination Polymers Comprised of an Exo Bifunctional Schiff Base Ligand and Succinate Dianion: Critical Analysis of Factors Affecting the Structures and Framework Dimensionality
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Abstract:	The chemistry of Coordination Polymers (CPs) of an exo bidentate Schiff base ligand, L1b, 2,5-bis-(3-pyridyl)-3,4-diaza-2,4-hexadiene, where two pyridyl moieties are separated by imine groups, is discussed. The reaction of ligand L1b and disodium succinate with Cd(ClO4)2 resulted in CP1, which is a 2D bilayer structure. Previously, it was reported elsewhere that the reaction of L1b with Cd(NO3)2 followed by the addition of disodium succinate resulted in a 3D network, while the similar reaction with Cd(ClO4)2 resulted in a different 3D network. The result from the current study establishes that reaction conditions and the anion in the metal salt can be crucial in obtaining diversified networks for the same combination of metal center and ligand. The effect of reaction conditions on network geometry is critically analyzed by comparing their single crystal structures and various other parameters.
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