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Title:	Coordination driven or/and H-bonded Cu(II)-N,N-dialkylisonicotinamide frameworks				
Authors:	Kapoor, Ramesh (/jspui/browse?type=author&value=Kapoor%2C+Ramesh)				
Keywords:	Coordination polymers				
	Hydrogen bonding				
	N,N-dialkylisonicotinamides				
	Thermal analysis				
	Trinuclear entity				
	X-ray structures				
Issue Date:	2011				
Publisher:	Elsevier Ltd. All rights reserved				
Citation:	Polyhedron, 30 (10), pp. 1691-1702				
Abstract:	Reactions of N,N-diisopropylisonicotinamide (L) with anhydrous CuCl 2, CuBr 2 and Cu(ClO 4) 2-6H 2O yielded: (a) an ionic product with the molecular composition of [CuL 2(H 2O) 4]·2[CuLCl 3] 1; (b) a coordination polymer [CuL 2Br 2] n 2 and (c) a mononuclear complex [CuL 4(C 3H 8O) 2]·(ClO 4) 2] 3, respectively. Similarly, the reaction of N,N-diisobutylisonicotinamide (L') with Cu(NC 3) 2·3H 2O yielded a coordination polymer [{CuL' 2(H 2O) 2}(NO 3) 2] n 4. The ligands L and L' coordinate in a monodentate fashion through the pyridine nitrogen atom to the metal centers in complexes 1 and 3. However, complexes 2 and 4 are coordination polymers in which the corresponding ligands (L and L') act as bridging bidentate between metal centers to form 1D double chains. All the four complexes form networks through coordination polymerization and/or hydrogen bonding				
URI:	http://www.sciencedirect.com/science/article/pii/S0277538711002312 (http://www.sciencedirect.com/science/article/pii/S0277538711002312)				
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