DSpace@IISERMohali (/jspui/)
/ **Publications of IISER Mohali (/jspui/handle/123456789/4)**
/ **Research Articles (/jspui/handle/123456789/9)**

Please use this identifier to cite or link to this item: `http://hdl.handle.net/123456789/56`

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
Issue Date:	2011
Publisher:	Elsevier Ltd
Citation:	Polyhedron, 30 (10), pp. 1691-1702

Abstract:	Reactions of N,N-diisopropylisonicotinamide (L) with anhydrous CuCl2, CuBr2 and Cu(ClO4)2·6H2O yielded: (a) an ionic product with the molecular composition of [CuL2(H2O)4]·2[CuLCl3] 1; (b) a coordination polymer [CuL2Br2]n2 and (c) a mononuclear complex [CuL4(C3H8O)2]·(ClO4)2]3, respectively. Similarly, the reaction of N,N-diisobutylisonicotinamide (L′) with Cu(NO3)2·3H2O yielded a coordination polymer [{CuL′2(H2O)2}(NO3) 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) http://hdl.handle.net/123456789/56 (http://hdl.handle.net/123456789/56)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/56/3/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/12345678...

Show full item record (/jspui/handle/123456789/56?mode=full) (/jspui/handle/123456789/56/statistics)