

Publication

Adding the second dimension with cadmium : two-dimensional sheets assembled from cadmium(II) and 4'-phenyl-4,2':6',4''-terpyridine and locked by pi-stacked interactions

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 94254**Author(s)** Constable, Edwin C.; Zhang, Guoqi; Housecroft, Catherine E.; Neuburger, Markus; Zampese, Jennifer A.**Author(s) at UniBasel** [Constable, Edwin Charles](#) ;**Year** 2009**Title** Adding the second dimension with cadmium : two-dimensional sheets assembled from cadmium(II) and 4'-phenyl-4,2':6',4''-terpyridine and locked by pi-stacked interactions**Journal** CrystEngComm**Volume** 11**Number** 11**Pages / Article-Number** 2279-2281**Keywords** expanded 4,4'-bipyridine ligand; coordination polymer; complexes; pytpy=4'-(4-pyridyl)-2,2'/6',2''-terpyridine; porphyrin; networks; dimers

4'-Phenyl-4,2':6',4''-terpyridine (3) reacts with Cd(NO₃)(2)center dot 4H(2)O in MeOH-CHCl₃ to produce [Cd(3)(2)(ONO₂)(2)center dot MeOH center dot CHCl₃](n) in high yield; two sets of undulating chains built up from trans-related ligands result in the formation of two-dimensional sheets, locked together by efficient pi-stacking involving the phenyl substituents.

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