

Publication

Assembling coordination ladders with 4'-(4-methoxyphenyl)-4,2':6',4"-terpyridine as rails and rungs

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 2708631**Author(s)** Klein, Y. Maximilian; Constable, Edwin C.; Housecroft, Catherine E.; Prescimone, Alessandro**Author(s) at UniBasel** [Housecroft, Catherine](#) ; [Klein, Maximilian](#) ; [Constable, Edwin Charles](#) ; [Prescimone, Alessandro](#) ;**Year** 2014**Title** Assembling coordination ladders with 4'-(4-methoxyphenyl)-4,2':6',4"-terpyridine as rails and rungs**Journal** Inorganic chemistry communications**Volume** 49**Pages / Article-Number** 44-43**Keywords** X-ray, Coordination polymer, Cadmium, Ladder structure

The divergent ligand 4'-(4-methoxyphenyl)-4,2':6',4"-terpyridine (1) reacts with $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ under room temperature crystallization conditions ($\text{MeOH}/\text{CHCl}_3$) to give the coordination polymer $[\{\text{Cd}-2(1)(3)(\text{NO}_3)(4)\} \text{CHCl}_3 \text{ MeOH}](n)$. The polymer adopts a ladder structure with 1 bridging pairs of cadmium(II) centres along both the edges (rails) and rungs of the ladder. (C) 2014 Elsevier B.V. All rights reserved.

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