A double-stranded 1D-coordination polymer assembled using the tetravergent ligand 1,1″-bis(4,2″:6″,4″-terpyridin-4″-yl)ferrocene

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1,1″-Bis(4,2″:6″,4″-terpyridin-4″-yl)ferrocene (1) reacts with ZnCl2 to yield a double-stranded 1D-coordination polymer [{Zn2(1)Cl4}3CHCl3]n. The 1,1″-functionalized ferrocene core adopts a cisoid-conformation, giving rise to a folded conformation for 1 and a double-stranded 1D-polymer chain. This contrasts with previously reported multi-stranded chains supported by 4,2″:6″,4″-terpyridine ligands in which the multiple-nature of the chain arises from multinuclear metal nodes.

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