

Titanocene as a precursor for a cyclopentadienyl-free titanium(III)-manganese(II) cluster: a new approach for nano-size materials.

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A simple and unique route to access the heterometallic cluster $[Mn_4Ti_4(\mu\text{-Cl})_2(\mu_3\text{-}\eta^2\text{-L})_2(\mu\text{-}\eta^2\text{-L})_{10}Cl_6]$ (1) with two Mn_2Ti_2 butterfly core motifs is reported. This method comprises elimination of the Cp ring from Cp_2TiCl_2 as CpH in the presence of metallic Mn in 2-methoxyethanol (LH) as a proton source. Complex 1 belongs to a group of magnetic clusters, which consists of two weakly interacting M_4 subunits.

Adres publiczny

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