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The invention relates to chemistry, in particular to a photoluminescent cadmium(II) coordination compound with one-dimensional polymeric structure.

According to the invention, claimed is the compound  $[\text{Cd}(2\text{-aba})_2(4\text{-bphz})]_n \cdot 0,75n(\text{dmf})$ , where 2-aba is deprotonated 2-aminobenzoic acid, 4-bphz is 1,2-bis(pyridin-4-ylmethyl)hydrazine and dmf is dimethylformamide. The compound exhibits photoluminescent activity, sensible to removal or exchange of solvent molecules from the cavities of the polymeric structure.

The compound may be used in the field of sensors for detecting small guest molecules by solvation.

Claims: 3

Fig.: 6