

a 2022 0015

The invention relates to coordination chemistry, in particular to the synthesis of a new cadmium(II) coordination compound with heteroaromatic bishydrazones, with photoluminescent properties.

According to the invention, a compound with the formula  $[\text{Cd}(\text{H}_2\text{L})(\text{H}_2\text{O})(\text{NO}_3)]\text{NO}_3 \cdot \text{H}_2\text{O}$  is claimed, wherein  $\text{H}_2\text{L}$  is 2,6-diacetylpyridinebis(picolinoylhydrazone).

The results of the study of photoluminescence showed that the claimed complex emits blue fluorescence with a maximum of 2.8 eV (440 nm), with a luminescence intensity approximately 300 times more pronounced compared to  $\text{H}_2\text{L}$ .

Claims: 1

Fig.: 4