



Significant variation of the singlet-quintet intersystem crossing rate constant in an iron(II) high-spin complex as a function of temperature.

Autorzy

I. Krivokapic

Pradip Chakraborty

Robert Bronisz

Cristian Enachescu

Andreas Hauser

Rok wydania

2010

Czasopismo

Angewandte Chemie -
International Edition

Numer woluminu

49

Strony

8509-8512

DOI

10.1002/anie.201004500

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

In the dilute mixed-crystal system $[\text{Zn}_{1-x}\text{Fe}_x(\text{bbtr})_3](\text{ClO}_4)_2$, $x=2\%$ (bbtr=1,4-di(1,2,3-triazol-1-yl)butane), the iron(II) centers are predominantly in the high-spin state. The low-spin state can be populated as a metastable state by irradiation with near-IR light; the rate constant of the low-spin $\rightarrow$ high-spin relaxation spans 14 orders of magnitude between 40 and 220 K (see picture)

Adres publiczny

<https://doi.org/10.1002/anie.201004500>

Strona internetowa wydawcy

onlinelibrary.wiley.com