

Blocking effect of ligand spacer groups on the luminescence excitation of europium aromatic carboxylates.

Autorzy

Vera I. Tsaryuk

V. F. Zolin

Konstantin P. Zhuravlev

Valentina A. Kudryashova

Janina Legendziewicz

Roman Szostak

Rok wydania

2008

Czasopismo

Journal of Alloys and
Compounds

Numer woluminu

451

Strony

153-157

DOI

10.1016/j.jallcom.2007.04.126

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The opportunity of luminance optimisation of europium aromatic carboxylates by modification of ligands is discussed. Luminescence, luminescence excitation spectra and luminescence efficiencies of europium phenyl-, naphthyl- and indolylcarboxylates and their adducts with 1,10-phenanthroline were investigated. Causes of variations of the luminescence efficiencies of the compounds under investigation within the range of 10^3 were analysed. Blocking effect of ligand spacer groups CH_2 and acceptor NO_2 -groups on the excitation energy transfer to Eu^{3+} ions was examined.

Słowa kluczowe

Eu^{3+} , Aromatic carboxylates, Excitation spectra,
Luminescence efficiency, Blocking effect

Adres publiczny

<https://doi.org/10.1016/j.jallcom.2007.04.126>

Strona internetowa wydawcy

<http://www.elsevier.com>

