

Comparison of optical properties of Eu^{3+} ions in the silica gel glasses obtained by different preparation techniques.

Autorzy

Janina Legendziewicz

Wiesław Stręk

Jerzy Sokolnicki

Barbara Keller

Małgorzata Borzechowska

Rok wydania

1996

Czasopismo

Acta Physica Polonica A

Numer woluminu

90

Strony

461-468

DOI

10.12693/APhysPolA.90.461

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Silica sol-gel glasses doped with Eu^{3+} ions were obtained by different preparation techniques. The absorption, emission and excitation spectra of the obtained glasses were measured in the range of 77-300 K. The energy level diagrams of Eu^{3+} ions were derived. An intensity analysis of transitions was performed. In particular, polymeric structure behaviour of europium compounds entrapped in silica gel glasses was temperature controlled during the preparation of glasses. Their optical properties were investigated.

Adres publiczny

[http://dx.doi.org/ 10.12693/APhysPolA.90.461](http://dx.doi.org/10.12693/APhysPolA.90.461)

Strona internetowa wydawcy

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