Uniwersytet Wrocławski

Repozytorium

Plik pochodzi z repozytorium Wydziału Chemii Uniwersytetu Wrocławskiego

Host-associated luminescence from YAG optical ceramics under gamma and optical exicitation.

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Rok wydania

1998

Czasopismo

Journal of Luminescence

Numer woluminu

78

Strony

121-134

DOI

10.1016/S0022-2313(97)00311-6

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The host-associated luminescence of highly dense transparent YAG ceramic material is characterized and compared to that of a single crystal. The UV emission from the ceramic shows a red shift of almost 100 nm from its position in the single crystal, along with major differences in excitation spectrum. The disparities suggest that the two emissions have different origins in the respective materials, probably related to the differences in microstructure and preparation conditions. Alterations in the shape of the intense absorption associated with the band-to-band transition reflect profound changes in carrier distribution in the boundary region as well as a high population of defects incorporated during the grain growth.

Słowa kluczowe

Ceramics, YAG : Ce, Microstructure, Defects, Host emission

Adres publiczny

https://doi.org/10.1016/S0022-2313(97)00311-6

Strona internetowa wydawcy

http://www.elsevier.com

Plik został wygenerowany dnia 2026-11-13 20:29:14

Adres w repozytorium https://old.chem.uni.wroc.pl/pl/repozytorium/LChPOJW.