

Lutetium aluminate: spectroscopic and scintillation properties.

Autorzy

A. Lempicki
C. Brecher
D. Wiśniewski
Eugeniusz Zych
Andrzej J. Wojtowicz

Rok wydania

1996

Czasopismo

IEEE Transactions On
Nuclear Science

Numer woluminu

43

Strony

1316-1320

DOI

10.1109/23.507057

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The present status of the $\text{LuAlO}_3/\text{sub } 3\text{:Ce}$ (LuAP) scintillator is reviewed and its performance compared to that of $\text{YAlO}_3/\text{sub } 3\text{:Ce}$ (YAP). The light output of LuAP, at this stage of development, appears to be limited by two factors: insufficient Ce concentration and the presence of a parasitic absorption. Both LuAP and YAP show a dependence of light output on thickness, indicating that YAP also suffers from parasitic absorption. Measurements on undoped material offer a clue to the identity of the "parasite".

Adres publiczny

<https://doi.org/10.1109/23.507057>