
Poster Presentation

[PHp1]Phosphors and Devices

Thu. Nov 28, 2019 10:40 AM - 1:10 PM Main Hall (1F)

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[PHp1-5L]Formation of ZnAl_2O_4 Thin Film for Deep Ultraviolet Emitting Phosphor and Evaluation of Luminescence Properties

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Keywords: ZnAl_2O_4 thin film, UV emission, Cathodoluminescence, Electron beam penetration depth

ZnAl_2O_4 thin films for deep UV emitting phosphor were prepared by thermal diffusion of ZnO and a-sapphire substrate at 1000 °C. From analysis of UV emission intensity by cathodoluminescence and penetration depth, it is considered that emitting layer of 650 nm was formed.