

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 $\text{ZnAl}_2\text{O}_4$ Thin Film for Deep Ultraviolet Emitting Phosphor and Evaluation of Luminescence Properties

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Keywords:  $\text{ZnAl}_2\text{O}_4$  thin film, UV emission, Cathodoluminescence, Electron beam penetration depth

$\text{ZnAl}_2\text{O}_4$  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.