

文献

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Exciton-phonon coupling and exciton thermalization in MgxZn1-xO thin films

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抄録 (Abstract)

Temperature dependent transmission measurements have been performed on MgxZn1-xO thin layers on sapphire with x in the range from 0 to 0.33. Multiple minima can be observed in the spectra from samples with low Mg content. These can be attributed to exciton-phonon complexes. To determine the exciton transition energy, the transmission spectra have been fitted using the model dielectric function of Adachi with Gaussian-like broadening. The exciton transition energy is compared to the photoluminescence maximum in dependence on temperature and Mg content. © 2008 Elsevier Ltd. All rights reserved.

著者キーワード

A. Semiconductors; A. Thin films; D. Optical properties

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