

# Accepted Manuscript

Tailoring of composition, band-gap, and structural phase in ZnMgO films by simply controlling growth temperature and oxygen partial pressure during sputter deposition

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PII: S0925-8388(17)30911-8

DOI: [10.1016/j.jallcom.2017.03.131](https://doi.org/10.1016/j.jallcom.2017.03.131)

Reference: JALCOM 41169

To appear in: *Journal of Alloys and Compounds*

Received Date: 12 December 2016

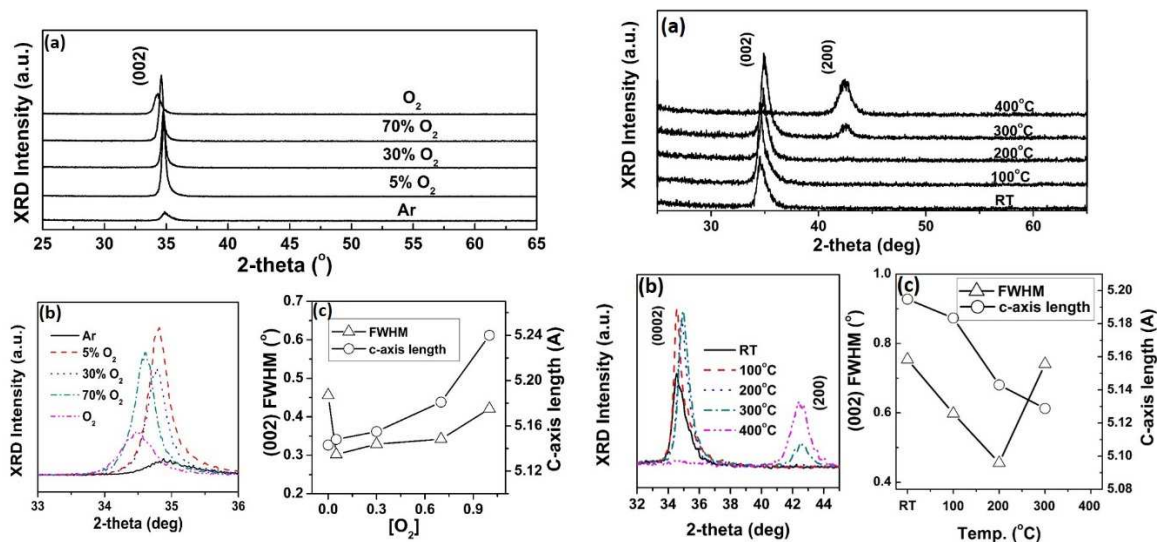
Revised Date: 10 March 2017

Accepted Date: 12 March 2017

Please cite this article as: H.B. Cuong, N.M. Le, S.-H. Jeong, B.-T. Lee, Tailoring of composition, band-gap, and structural phase in ZnMgO films by simply controlling growth temperature and oxygen partial pressure during sputter deposition, *Journal of Alloys and Compounds* (2017), doi: 10.1016/j.jallcom.2017.03.131.

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## Graphical Abstract



XRD characterization results of the ZnMgO films grown under different oxygen partial pressures; (a) XRD full scan spectra, (b) high resolution (0002) XRD peaks, (c) c-axis parameters and the FWHMs of the (0002) peaks

XRD characterization results of the ZnMgO films grown at different growth temperatures; (a) XRD full scan spectra, (b) high resolution XRD spectra, (c) c-axis parameters and the FWHMs of the (0002) peaks

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