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Title: Oxygen Contribution for Uniform Formation of Crystalline Zinc Oxide/Polyethylenimine Interfaces to Boost Charge Generation/Transport in Inverted Organic Solar Cells

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PII: S1226-086X(17)30691-3
DOI: <https://doi.org/doi:10.1016/j.jiec.2017.12.029>
Reference: JIEC 3785

To appear in:

Received date: 10-10-2017
Revised date: 6-12-2017
Accepted date: 13-12-2017

Please cite this article as: S. Park, W. Jang, J.S. Cho, M. Yi, D.H. Wang, Oxygen Contribution for Uniform Formation of Crystalline Zinc Oxide/Polyethylenimine Interfaces to Boost Charge Generation/Transport in Inverted Organic Solar Cells, *Journal of Industrial and Engineering Chemistry* (2017), <https://doi.org/10.1016/j.jiec.2017.12.029>

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Research highlight

- The performance of the inverted OPV cells shows a clear dependence on formation of a ZnO film under ambient conditions.
- The chemical component and crystal structure of the ZnO films are analyzed by XPS and XRD.
- The ZnO film formed in an air condition enhances the self-assembly between the amine and the hydroxyls surface and affects the thin film morphology.
- The device with an ZnO layer formed in an air condition showed long-term air stability over 900 hours.

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