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## Retraction: Enhanced photoluminescence, Raman spectra and field-emission behavior of indium-doped ZnO nanostructures

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Retraction of 'Enhanced photoluminescence, Raman spectra and field-emission behavior of indium-doped ZnO nanostructures' by Khalid Mahmood *et al.*, *J. Mater. Chem. C*, 2013, **1**, 3138–3149.

rsc.li/materials-c

We, Seung Bin Park and Hyung Jin Sung wholly retract this *Journal of Materials Chemistry C* article, on the basis of uncertainties regarding the validity of the SEM images, which have been published elsewhere and identified with different samples.

Specifically; Fig. 1c in this *Journal of Materials Chemistry C* article, identified as In-doped ZnO, is the same image as Fig. 2 of our previous paper,<sup>1</sup> where it is identified as 5% N-doped ZnO. Fig. 2c in this *Journal of Materials Chemistry C* article, labelled as pure ZnO, is also part of Fig. 2 of the same paper,<sup>1</sup> where it is labelled as 3% N-doped ZnO.

In addition, within this *Journal of Materials Chemistry C* article, Fig. 1b is the same image as Fig. 2b, whereas they are labelled differently as In-doped ZnO and pure ZnO, respectively.

Finally, similarity between the noise in the XPS data in Fig. 5b, in this *Journal of Materials Chemistry C* article, and those in Fig. 3a reported in ref. 2, cast doubt on the validity of the XPS data.

Signed: Seung Bin Park and Hyung Jin Sung  
10th February 2017

Khalid Mahmood opposes this retraction and remains in support of the reported conclusions as they stand.  
Retraction endorsed by Fiona McKenzie, Executive Editor, *Journal of Materials Chemistry C*.

## References

- 1 *J. Cryst. Growth*, 2012, **347**, 104–112.
- 2 *ACS Appl. Mater. Interfaces*, 2013, **5**(9), 3722–3730.

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