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Retraction Note: Enhancement of the blue photoluminescence intensity for the porous silicon with HfO₂ filling into microcavities

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Retraction of: *Scientific Reports* <https://doi.org/10.1038/srep15574>, published online 27 October 2015

The authors are retracting this Article because of duplication of findings and figures from previously published studies [1,2] and issues with assembly of figures.

Specifically, the production of porous-Si filled with HfO₂, and the finding that HfO₂-filled porous-Si enhances blue light emission have been reported by the authors in a previous publication [1], which was not cited in the Article. The inset in Fig. 2 is duplicated from Fig. 1b in [1], the spectra in Fig. 2 are previously published as Fig. 2a in [1], the data in Fig. 5 are published as Fig. 3 in [1], the information presented in Fig. 6 is published as Fig. 4 in [1], and the data in Fig. 7 have been presented in Fig. 2b of [1]. Additionally, Fig. 3b is duplicated from Fig. 1c in [2].

All Authors agree with this retraction.

References

1. Jiang, R. *et al.* Strong photoluminescence of the porous silicon with HfO₂-filled microcavities. *Appl. Phys. Lett.* **106**, 252902, <https://doi.org/10.1063/1.4922879> (2015).
2. Oakes, L. *et al.* Surface engineered porous silicon for stable, high performance electrochemical supercapacitors. *Sci Rep* **3**, 3020, <https://doi.org/10.1038/srep03020> (2013).



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