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Correction: Large-area synthesis of monolayer WS₂ and its ambient-sensitive photo-detecting performance

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www.rsc.org/nanoscaleCorrection for 'Large-area synthesis of monolayer WS₂ and its ambient-sensitive photo-detecting performance' by Changyong Lan *et al.*, *Nanoscale*, 2015, 7, 5974–5980.

The authors wish to amend the sections of the manuscript detailed below. These corrections are due to an overestimation of the illumination power; as a result of using an incorrect setting on the power meter. The accurate incident light intensity illuminated onto the surface of the WS₂ monolayer has been overestimated 1177 times. The authors have since measured the actual incident light intensity reported in the paper using another calibrated power meter and have confirmed the previous overestimation of illumination power.

This incorrect power value leads to a 1177-time underestimation of the photo-responsivity of the as-grown WS₂ monolayer sample. Therefore, the actual photo-detecting performance is improved in comparison to the published value.

The corrections to the manuscript are as follows:

(a) In the abstract and in the third paragraph of page 5977, and in the Table S1, the responsivity of the monolayer WS₂ in vacuum should be 22.1 A W⁻¹ instead of 18.8 mA W⁻¹.

(b) In the abstract, in first paragraph of page 5978 and in the Fig. 5(a), the responsivity of the monolayer WS₂ in air should be 0.24 mA W⁻¹ instead of 0.2 μA W⁻¹.

(c) In the third paragraph of page 5977 and in Fig. 4(a), the responsivity of 10.1 μA W⁻¹ should be 11.9 mA W⁻¹.

(d) In the figure captions of Fig. 4 and 5, the illumination power should be 59.5 nW instead of 70 mW.

(e) In Fig. 4(a), (b) and 5(a), the values of major label of the illumination power should divided by 1177.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

