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Supplementary information

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ZnO nanowires based degradable high-performance photodetectors for eco-friendly green electronics

Bhavani Prasad Yalagala, Abhishek Singh Dahiya and Ravinder Dahiya*

Bendable Electronics and Sensing Technologies (BEST) Group, University of Glasgow, Glasgow G12 8QQ, U.K.

*Correspondence: R Dahiya, E-mail: Ravinder.Dahiya@glasgow.ac.uk

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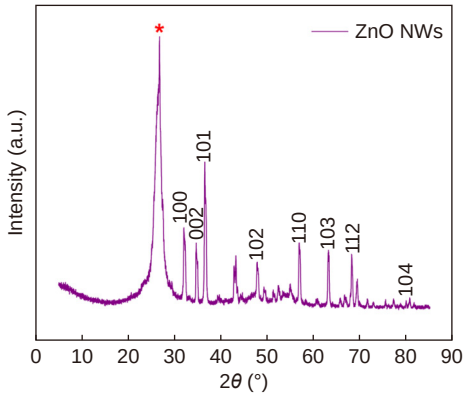

Fig. S1 | XRD plot of the ZnO nanowires.

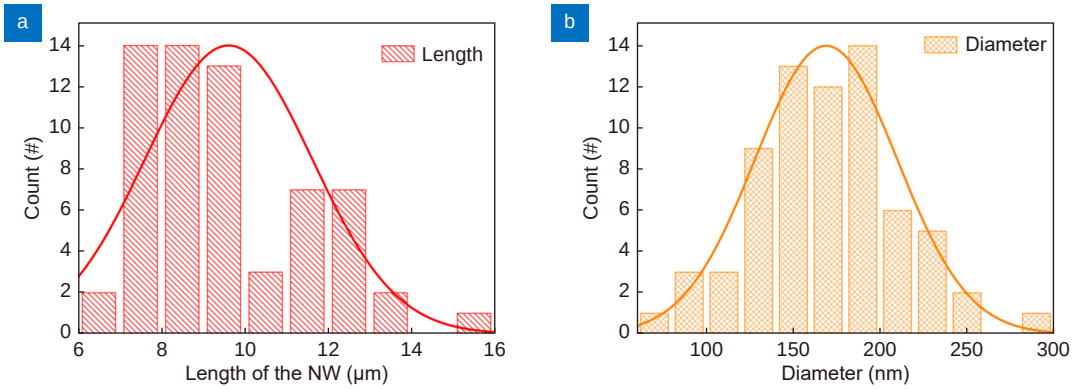

Fig. S2 | (**a**) Length and (**b**) diameter of the ZnO nanowire calculated using the ImageJ software.

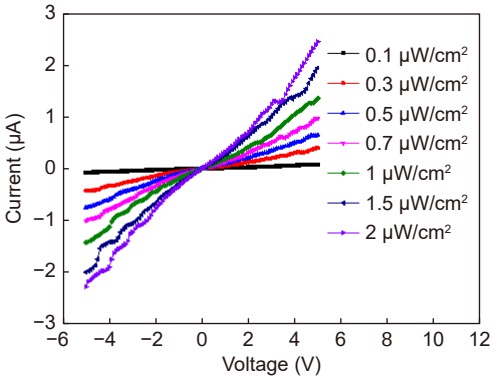

Fig. S3 | A current vs voltage plot of the fabricated ZnO NW based photodetectors.

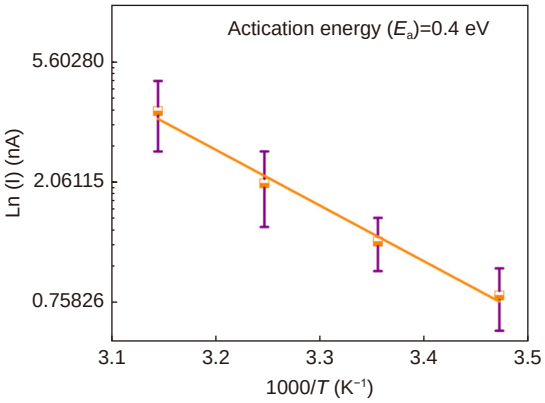

Fig. S4 | Arrhenius plot to extract the activation energy.

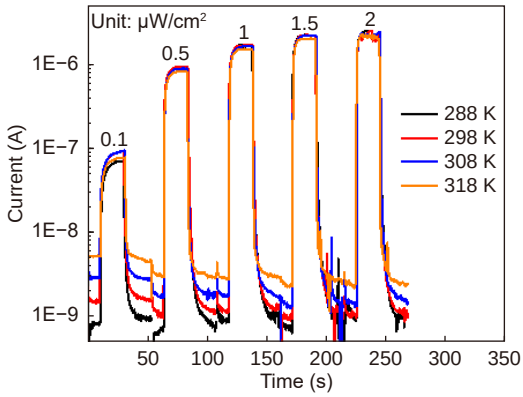

Fig. S5 | Temperature dependent temporal response (15 °C (288K) – 45 °C (318K)) analysis of the photodetectors under different UV illumination light intensities 0.1, 0.5, 1, 1.5, 2 μW/cm².