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

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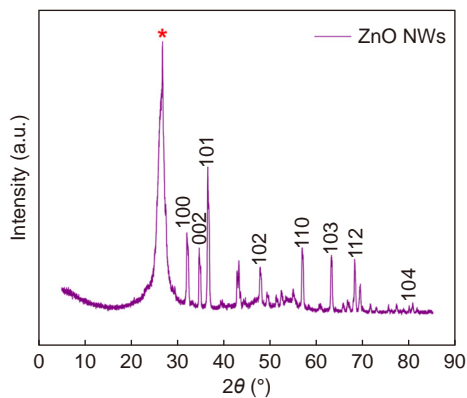
Supplementary information for this paper is available at <https://doi.org/10.29026/oea.2023.220020>



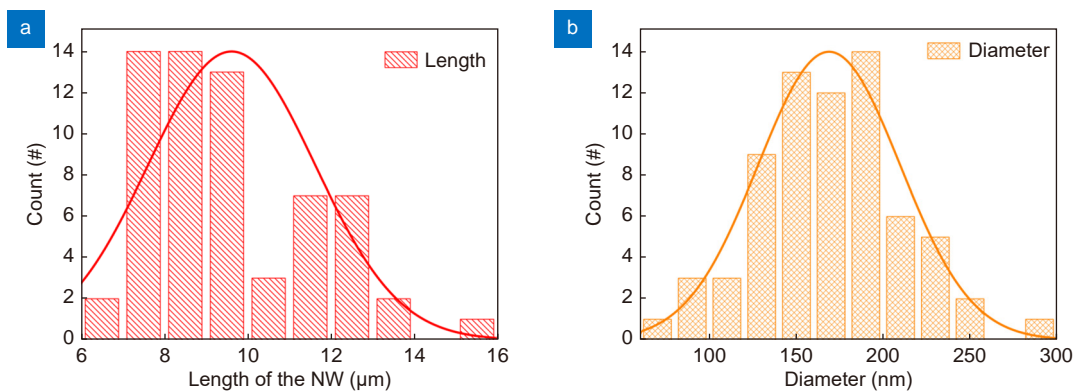
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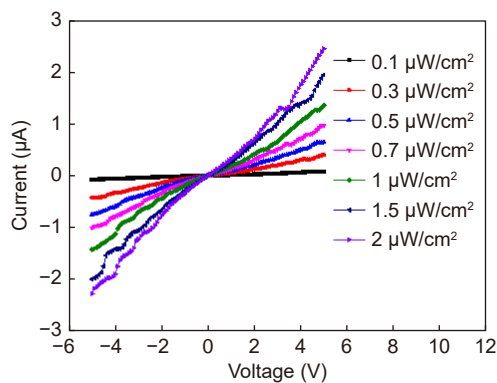
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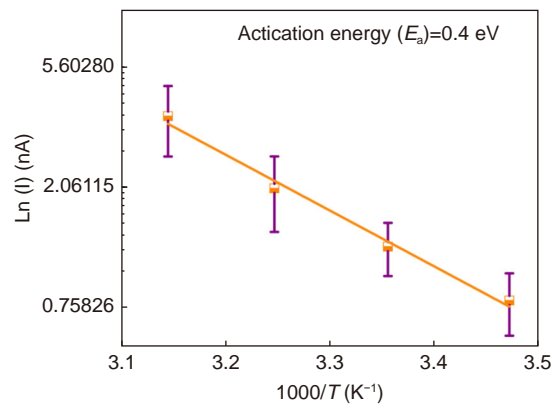
**Fig. S1 | XRD plot of the ZnO nanowires.**



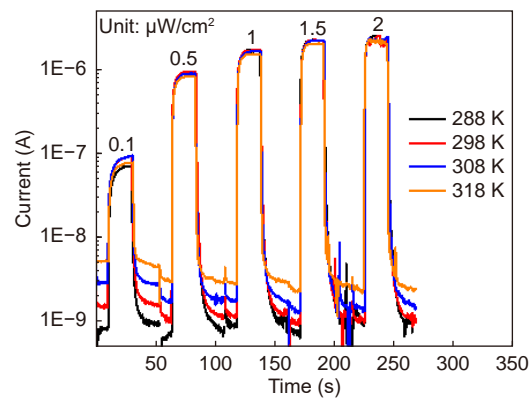
**Fig. S2 | (a) Length and (b) diameter of the ZnO nanowire calculated using the ImageJ software.**



**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  $\mu W/cm^2$ .**