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## **Supplementary information**

Preferential Zinc Sputtering During Growth of Aluminum Doped Zinc Oxide Thin Films by Radio Frequency Magnetron Sputtering

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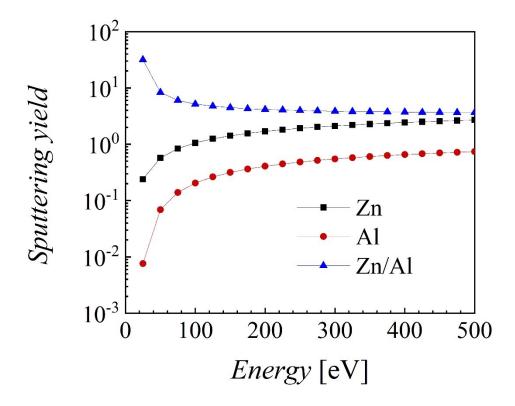
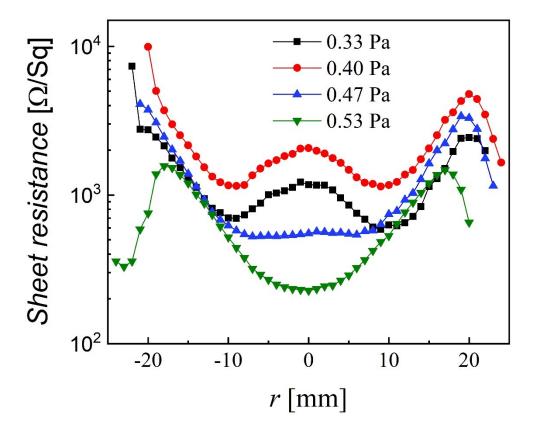


Fig. S1 Sputtering yield on Zn and Al targets (including the Zn/Al ratio) as a function of incident oxygen ion energy.



**Fig. S2** Spatial distribution of the sheet resistance for different deposition pressures measured for 10x50 mm<sup>2</sup> samples. The 50x50 mm<sup>2</sup> samples deposited under similar conditions have been used to measure the 2D XRD profiles presented in Fig. 6.