

Supplementary Material for

Oriented attachment induced morphology modulation of ZnO nanoparticles at low temperature using KOH as a morphology controller

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Figure s1 shows the XRD spectrum of the KOH pellet used for the synthesis of ZnO nanoparticles including nanorods. The XRD measurement was carried out using the same machine used for the measurements of the XRD of the ZnO samples. The XRD peaks in the figure correspond to the different crystalline planes of the KOH. However, one can see none of the XRD peak matches exactly with the XRD peaks of the ZnO samples given in the manuscript.

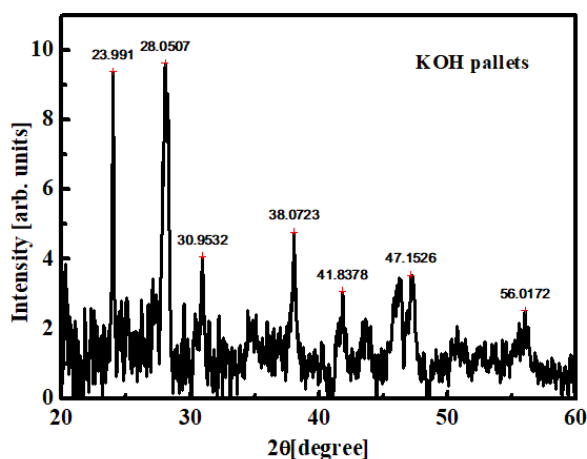


Figure s1: XRD spectrum of the KOH pellet.

Figure s2 shows the scanning electron microscopy (SEM) image of a KOH pellet. The SEM measurement was carried out using Zeiss SEM (model EVO 18'). Prior to the SEM measurements, the KOH pellet was coated using Pt (~2-3 nm) to make it conducting to avoid accumulation of electrons during SEM measurements. The surface of the KOH appears to be nearly smooth with some bumps.

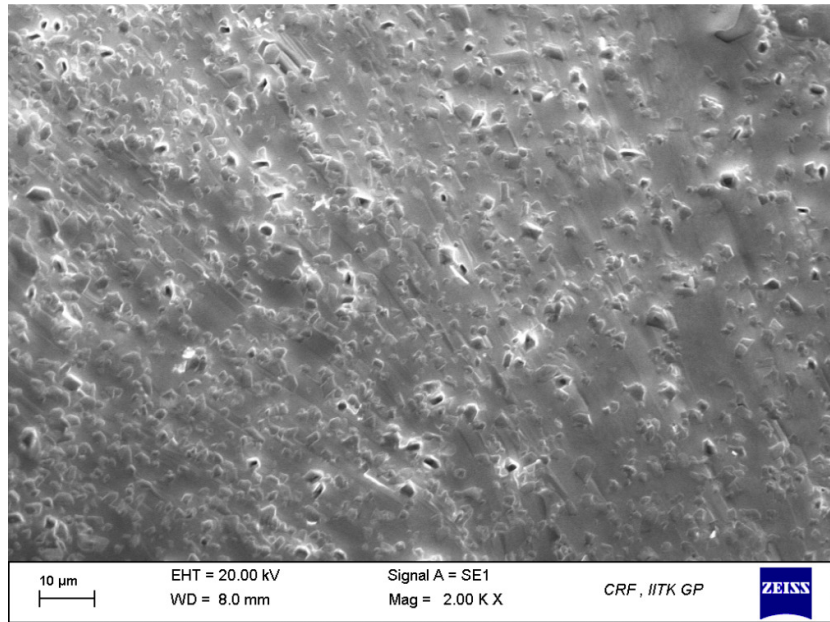


Figure s2. SEM image of KOH pellet.

Figure s3 shows the energy dispersive X-ray (EDX) spectrum of the KOH pellet using the Oxford EDX attached with the SEM machine. No other peak than K and O are seen in the EDX spectrum. Detection of H is not possible in this technique and hence H is not seen in the EDX data. EDS has been performed with EDS

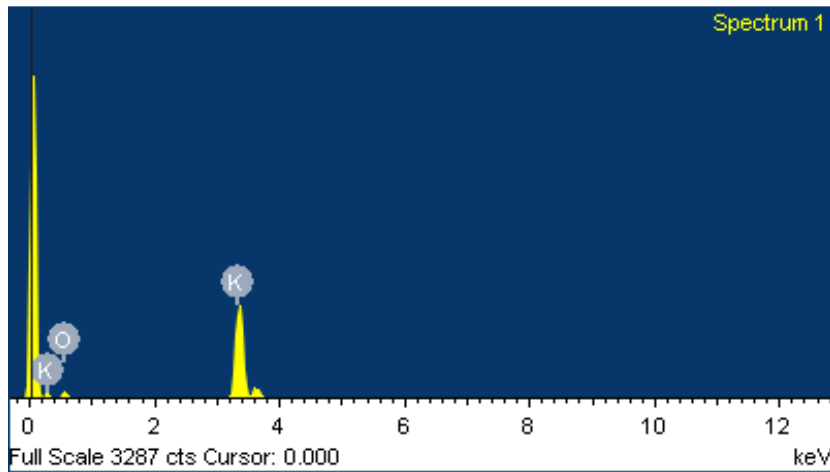


Figure s3. EDX spectrum of KOH pellet.

Table s1: Weight and atomic percentages of K and O estimated from the EDX spectrum of KOH.

Element	Weight %	Atomic %
O K	34.85	56.66
K K	65.15	43.34
Totals	100.00	

