

## Supplementary Materials

# Investigation of deoxidation process of $\text{MoO}_3$ using environmental TEM

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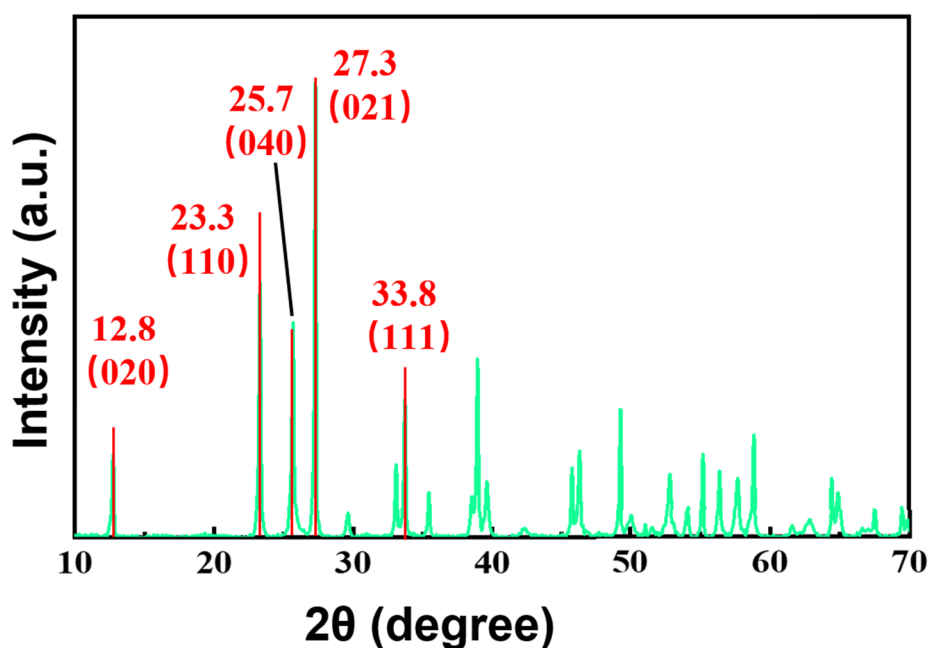


Figure S1. XRD patterns of  $\text{MoO}_3$  nanosheets.

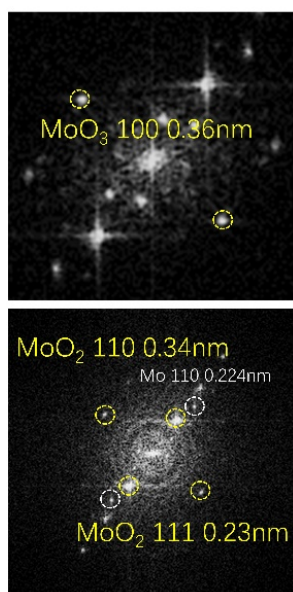
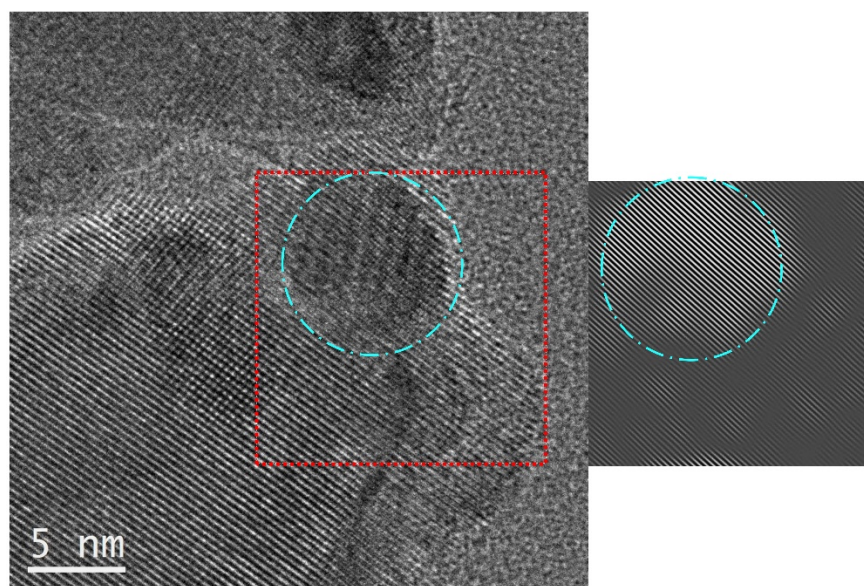


Figure S2. Diffraction calibration of the sample in Figure 3 at 800 °C.



**Figure S3.** Filtering analysis of the sample in Figure 3 at 800 °C .