

Effect of WO_3 particle size on the type and concentration of surface oxygen

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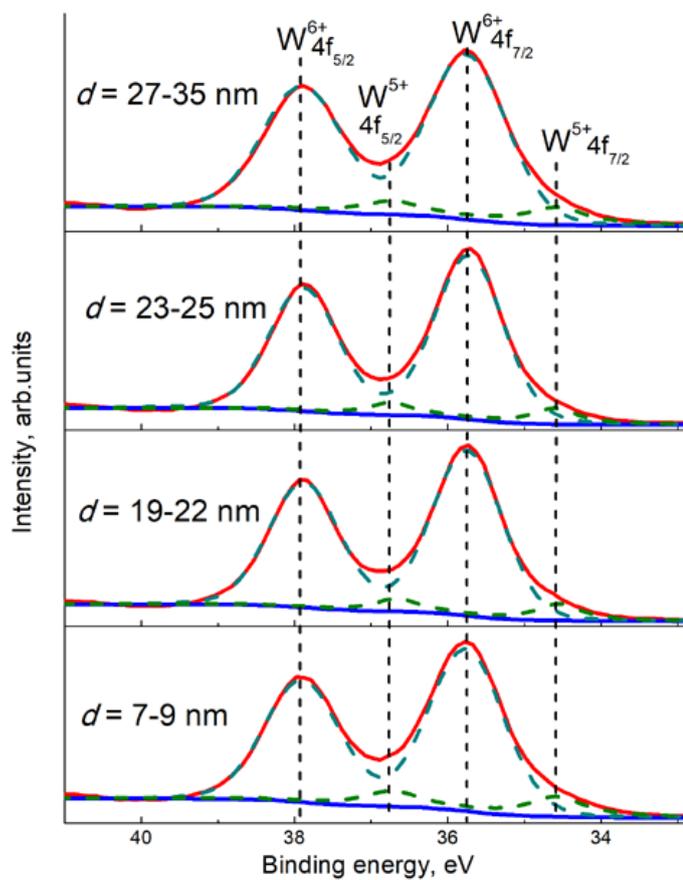


Figure S1 XPS spectra of the W 4f signals of WO_3 samples with the different particle sizes.

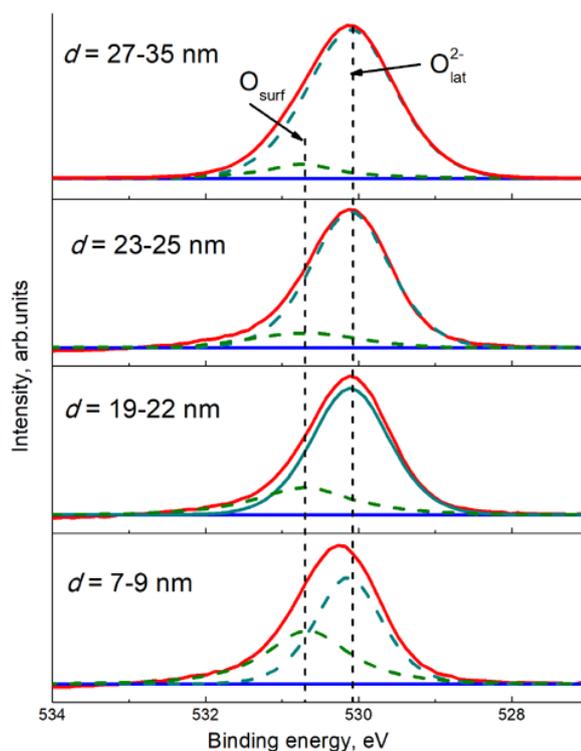


Figure S2 XPS spectra of the O 1s signals of WO_3 samples with the different particle sizes.

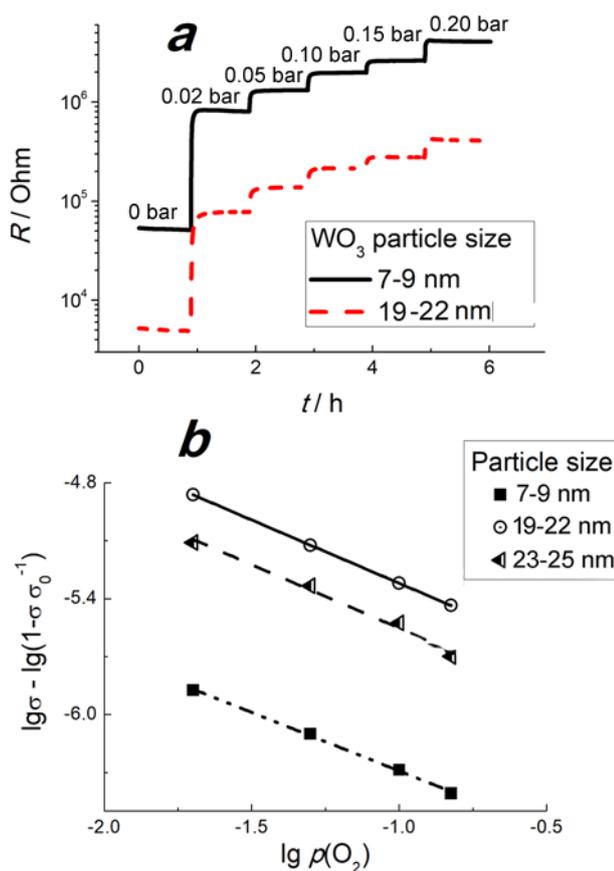


Figure S3 (a) Dynamic resistance response of WO_3 samples with the particle sizes 7–25 nm under different partial pressure of oxygen at 300 °C; and (b) the dependence of electric conductance of WO_3 samples with the particle sizes 7–25 nm on oxygen partial pressure in logarithmic coordinates according to eq. (3) in the main text.

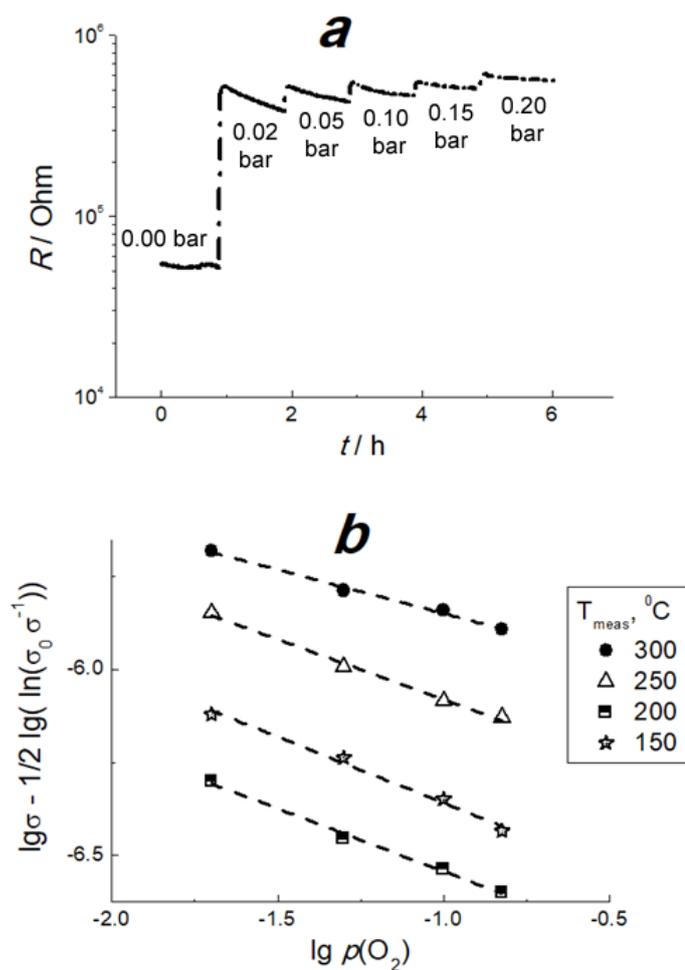


Figure S4 (a) Dynamic resistance response of WO_3 sample with the particle size 27-35 nm under different partial pressure of oxygen at 300 °C; and (b) the dependences of electric conductance of WO_3 sample with the particle size 27–35 nm on oxygen partial pressure in logarithmic coordinates according to eq. (4) in the main text at different temperature.