

Supporting Information for:

Efficient Plasma-Route to Nanostructure Materials: Case Study on m-WO₃ for Solar Water Splitting

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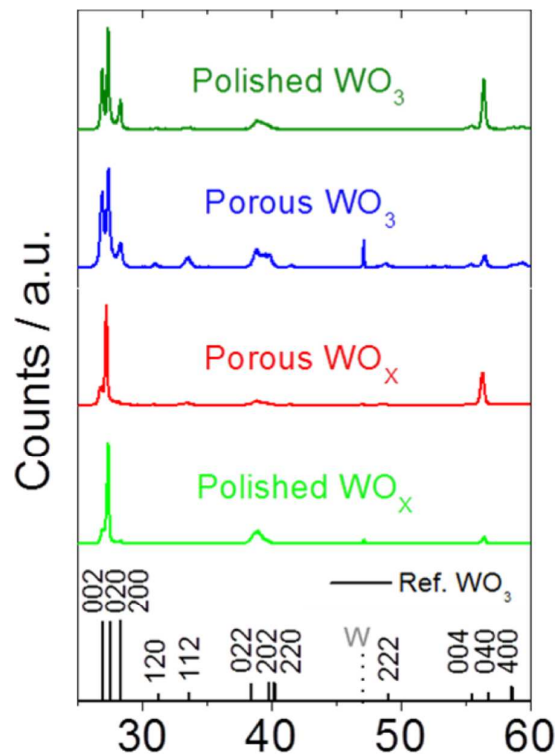


Figure S1. XRD of polished WO_x annealed at 550/450°C (green) – porous WO_x annealed at 550°C (red) – porous WO_3 annealed at 550/450°C (blue) – polished WO_3 annealed at 700°C (olive). During thermal anneal, the nanostructured tungsten is first converted into oxygen deficient WO_{3-x} , and then fully oxidized into WO_3 . The latter process remains incomplete in the case of the polished samples. (International Centre for Diffraction Data (JCPDS) reference files; W: PCPDF 04-0806; WO_3 : PCPDF 83-0948)

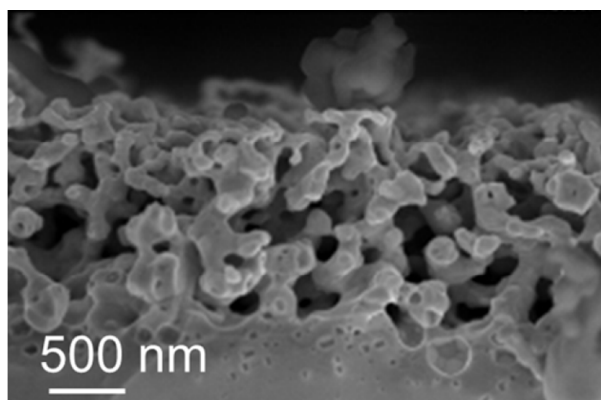


Figure S2. Cross section SEM image of tungsten target plasma-processed at 1500°C.