

Synthesis and Characterization of Highly Organized Mesoporous Palladium-Doped Tin Dioxide Thin Films for Gas Sensing

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Figure S1:

XRD pattern at high angle showing the typical broad reflections of nanocrystalline tin dioxide with cassiterite structure of a 4 % Pd doped tin dioxide after calcination at 400 °C.

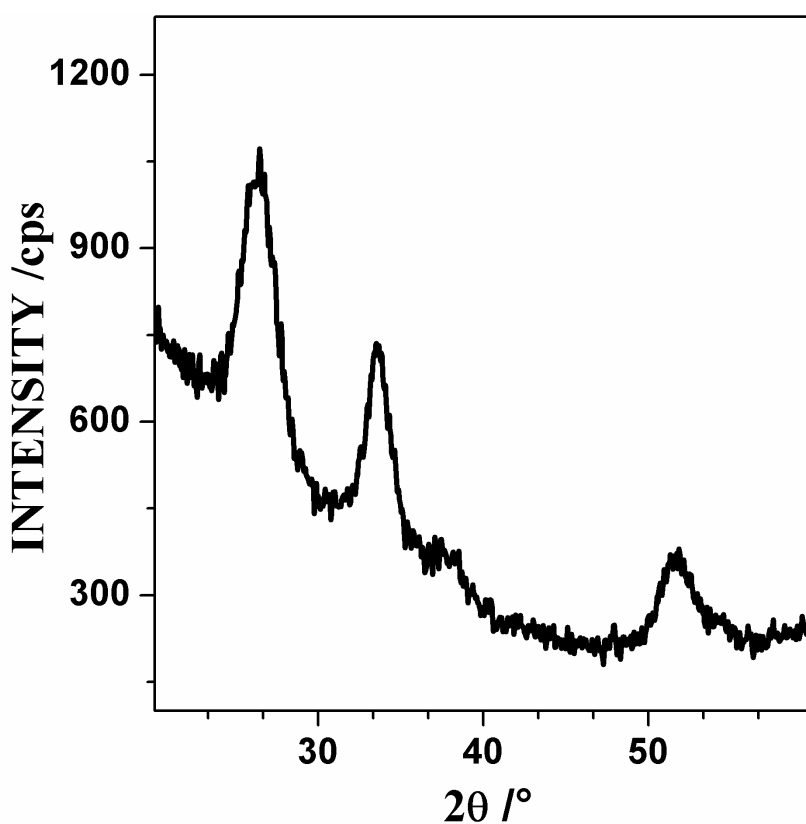
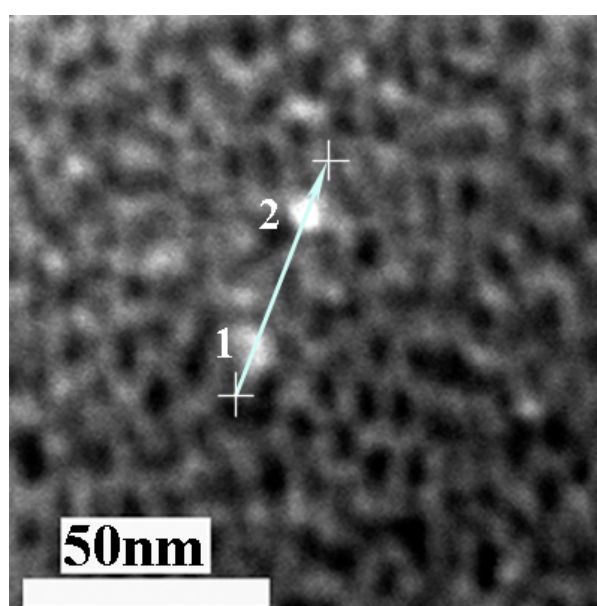


Figure S2:

Energy dispersive X-ray scattering (EDX) line measurement (bottom) taken through two palladium clusters 1 and 2 from the top image showing the presence of Pd, Sn.



EDX Lines Measurement

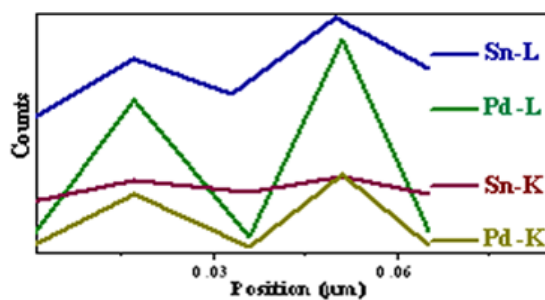


Figure S3:

Gas sensing behavior of mesoporous SnO_2 thin film without Pd at room temperature. Cyclic resistance changes between pure O_2 or a reducing process gas stream of 5 % H_2 in N_2 .

