

Supplementary Information

Additive-free spin coating of tin oxide thin films: Synthesis, characterization and evaluation of tin β -ketoiminates as a new precursor class for solution deposition processes

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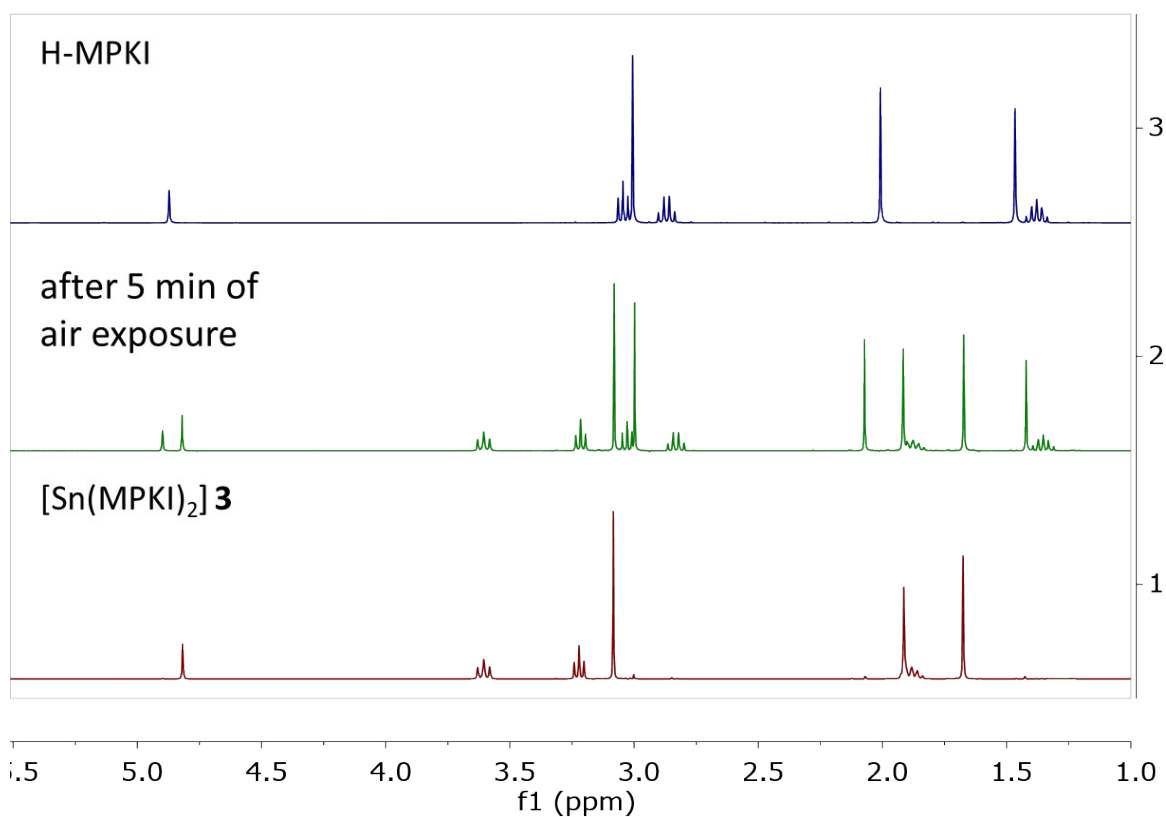


Figure S11 Zoomed section of the low-field shifted region (in which the N-bound proton of free β -ketoiminato-ligand can typically be found) for comparative ^1H NMR spectra of **3** $[\text{Sn}(\text{MPKI})_2]$ (red, bottom, 1), **3** $[\text{Sn}(\text{MPKI})_2]$ after 5 min of air exposure (middle, green, 2) and the free protonated ligand H-MPKI (top, blue, 3) in C_6D_6 .

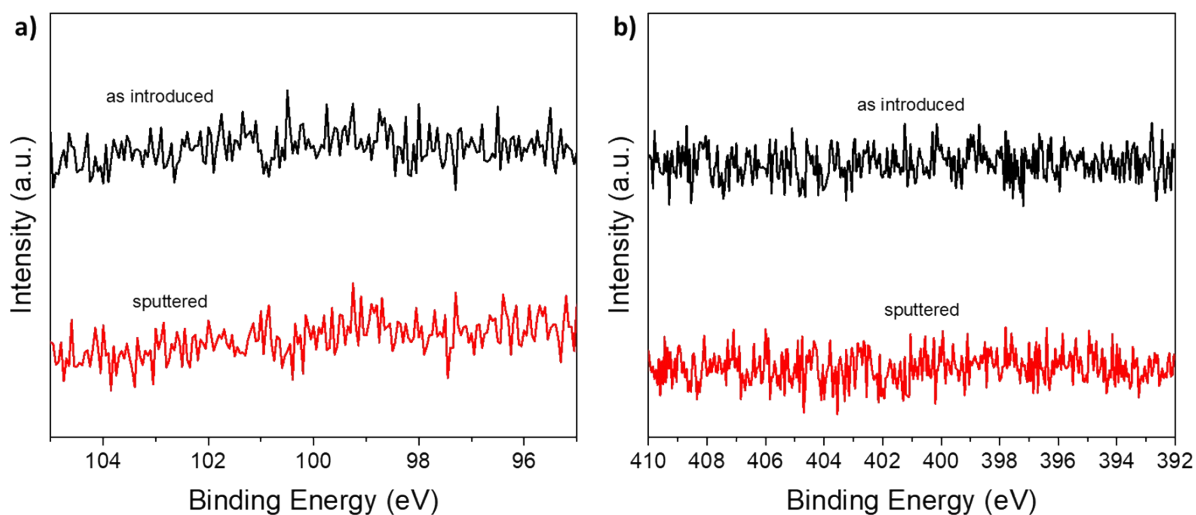


Figure S12 XPS core level spectra for a SnO_2 thin film deposited with optimized process parameters on Si(100) and annealed at 700°C : as introduced (black) and 2 min sputter cleaned (red) for a) Si 2p and b) N 1s regions.

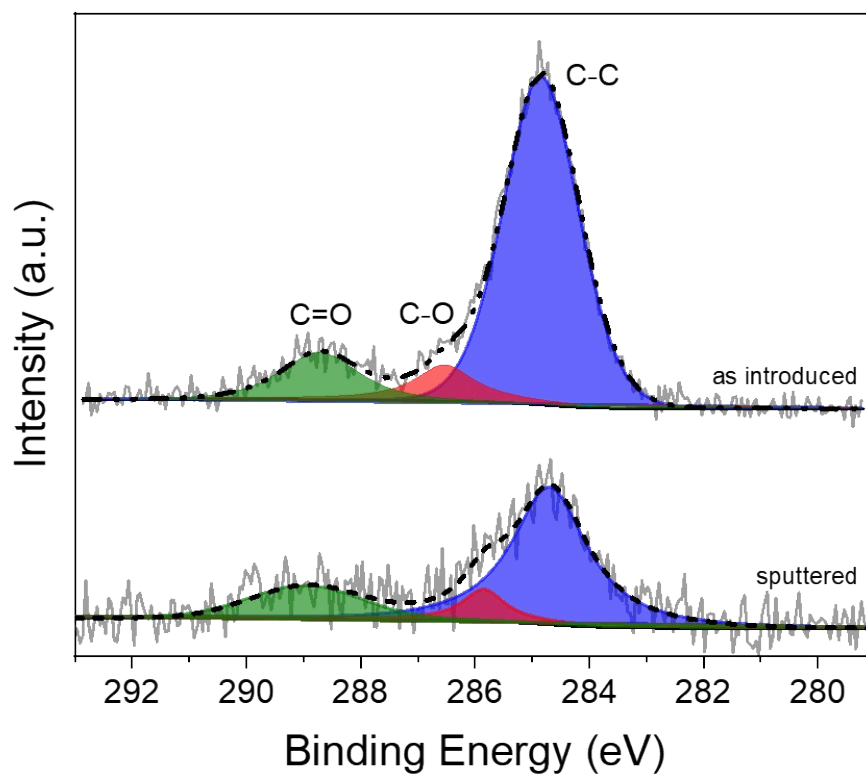


Figure S13 XPS C 1s core level spectra for a SnO₂ thin film deposited with optimized process parameters on Si(100) and annealed at 700 °C: as introduced (top) and after 2 min of sputtering (bottom).