

Supplementary Information

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

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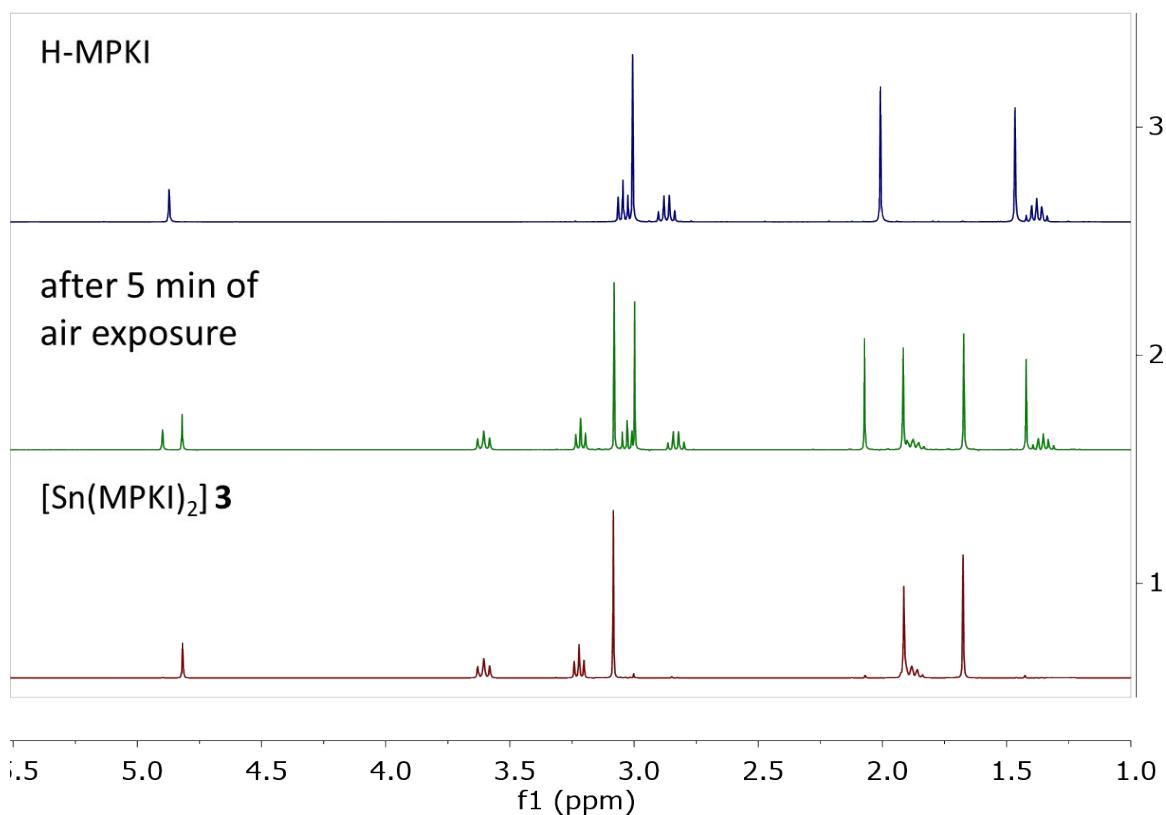


Figure SI1 Zoomed section of the low-field shifted region (in which the N-bound proton of free β -ketoiminato-ligand can typically be found) for comparative ^1H NMR spectra of **3** [$\text{Sn}(\text{MPKI})_2$] (red, bottom, 1), **3** [$\text{Sn}(\text{MPKI})_2$] after 5 min of air exposure (middle, green, 2) and the free protonated ligand H-MPKI (top, blue, 3) in C_6D_6 .

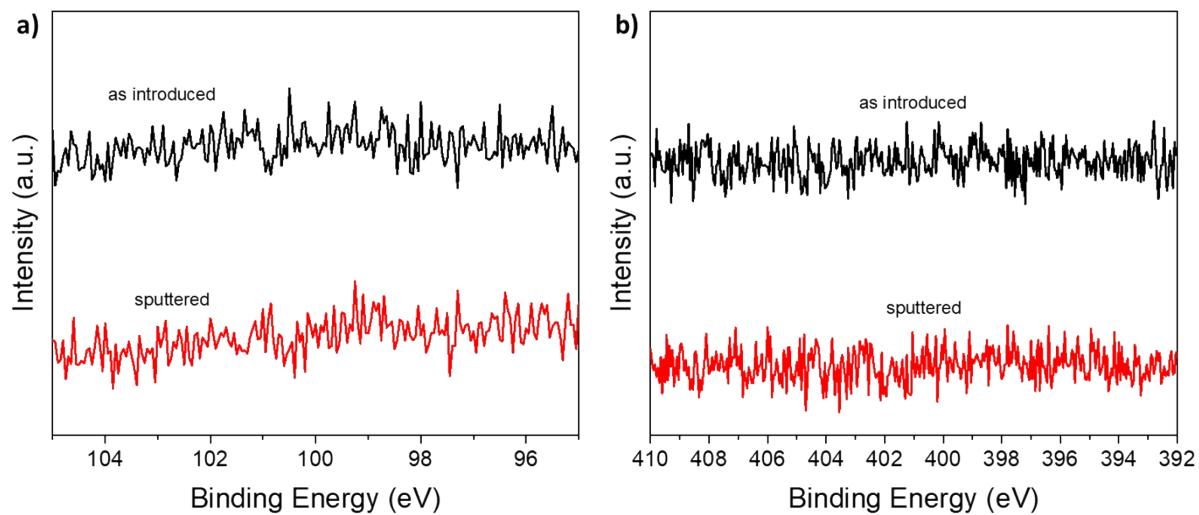


Figure SI2 XPS core level spectra for a SnO_2 thin film deposited with optimized process parameters on $\text{Si}(100)$ and annealed at 700 °C: as introduced (black) and 2 min sputter cleaned (red) for a) Si 2p and b) N 1s regions.

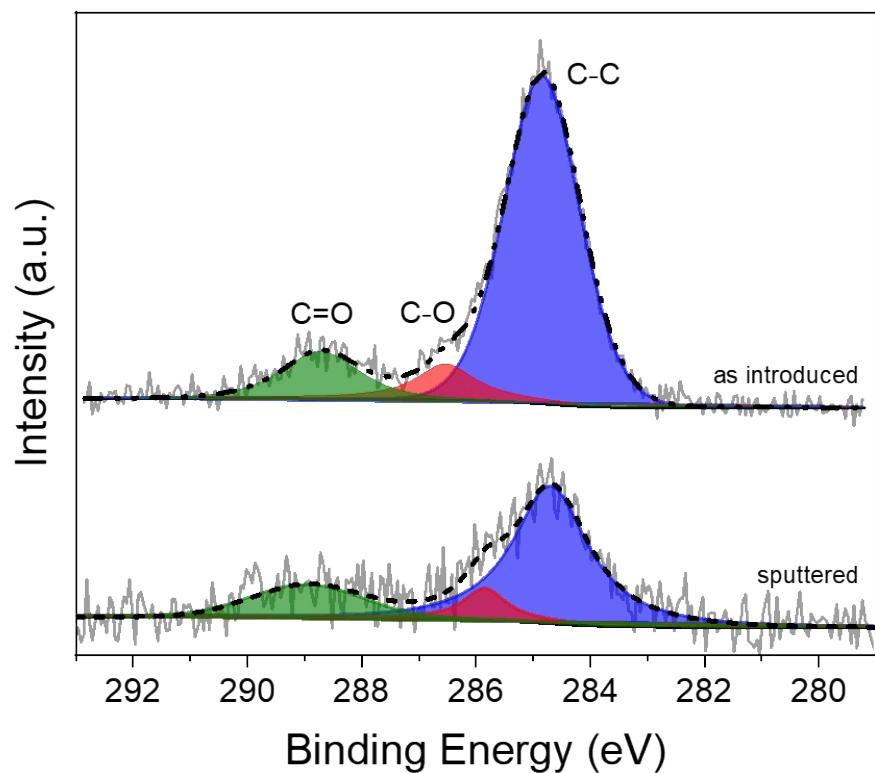


Figure SI3 XPS C 1s core level spectra for a SnO_2 thin film deposited with optimized process parameters on Si(100) and annealed at 700 °C: as introduced (top) and after 2 min of sputtering (bottom).