



SI 1: Evolution of the W(4f), C(1s), and O(1s) XP regions for a 1.5nm thick film of $W(CO)_6$ irradiated with X-rays (Mg $K\alpha$ 1253.6 eV); the x-ray exposure time is shown on the right hand side of each W(4f), C(1s), and O(1s) spectrum.