



Supplement Fig. 1. TEM (a) CDFI ($g=100$) and (b) BFI with inset SAED pattern of the C-overdoped OBCO-type W particulate with principal-plane facets edge on in the $[010]$ zone axis and annular Bragg diffraction contrast due to inhomogeneous C content and shear stress to have ordered domain (cf. text). There are C-doped W nanocondensates with size decreasing away from the particulate, i.e. along the direction indicated by the red arrow.