

Supplementary Materials

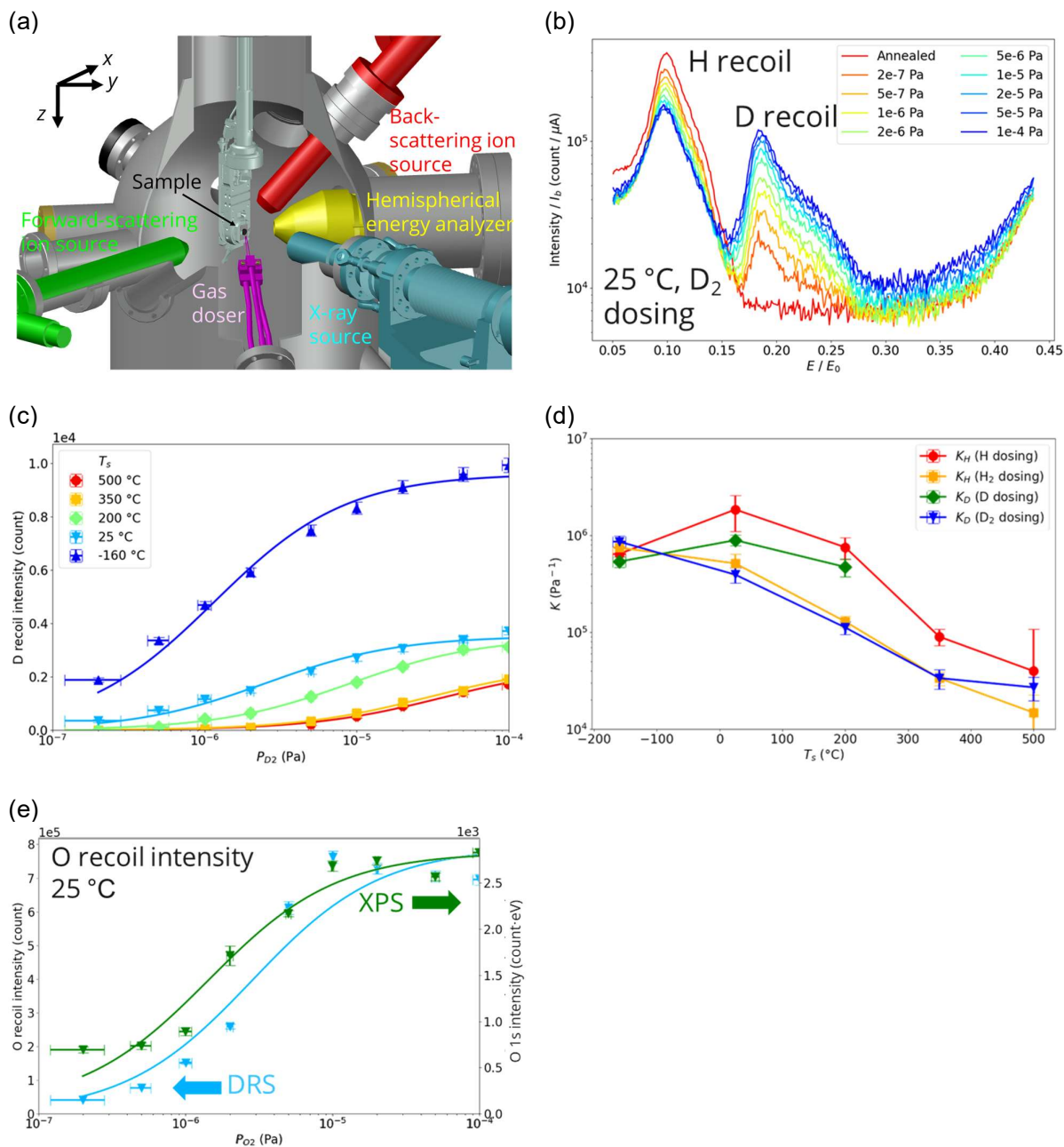


Figure S1. (a) DRS measurement setup. (b) Energy spectra of the DRS peaks of H and D in a series of D₂ dosing experiments. (c) The DRS D peak intensity from the measurement (scattered points) and fittings with the site-blocking model (solid curves). (d) The surface temperature dependence of the adsorption-to-desorption rate coefficient ratio, K , in different dosing schemes. (e) DRS intensities while dosing the V surface with O₂, compared with X-ray photoelectron spectroscopy (XPS) intensities.