

Supplementary Information

Polar zinc oxide surface in electrolyte solutions; an atomic view of reconstruction, hydration and surface states

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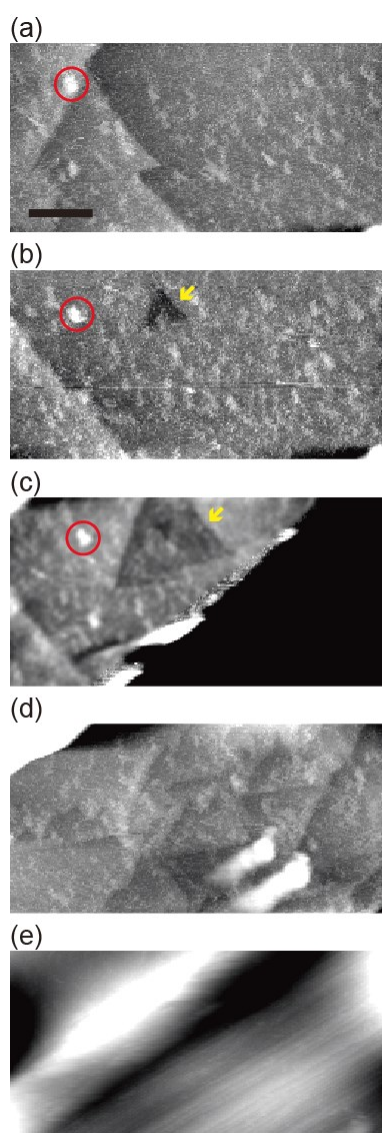
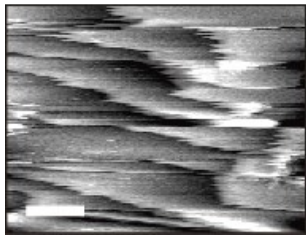
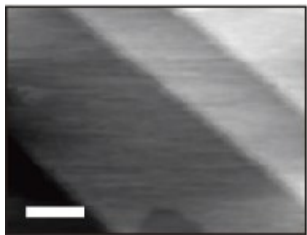
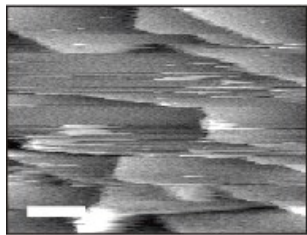


Fig. S1. Successive AFM images of the Zn-ZnO(0001) surface taken in 10 mM HCl solution of pH 2.0. The lower right part of (c) is darkened to highlight the equilateral triangular pit indicated by the yellow arrow. A marker is indicated by the red circles. Image size is 300 nm \times 150 nm (scale bar = 50 nm).

Table S1. The ratio of the net step line length at each potential. Scale bar = 20 nm

Potential	+0.3 V vs. SEC (E_{OC})	-1.2 V vs. SEC	+0.3 V vs. SEC (E_{OC}) (returned)
AFM image			
Ratio of net step line length	25	: 7	: 21