

An in-depth study on the thermodynamics and kinetics of disproportionation behaviors in ZrCo-H system

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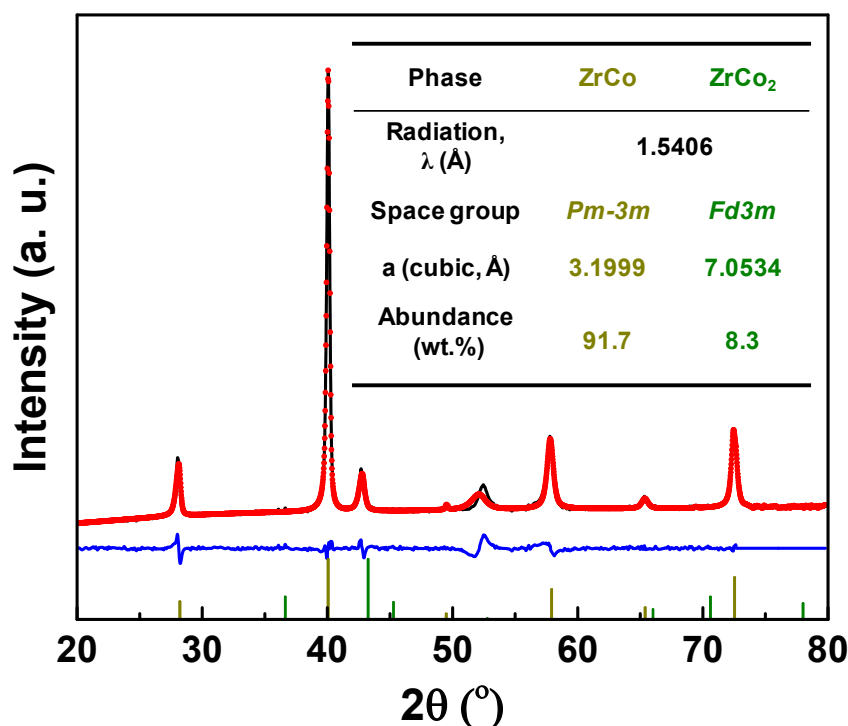


Fig. S1 Rietveld refinement of as-cast ZrCo sample.

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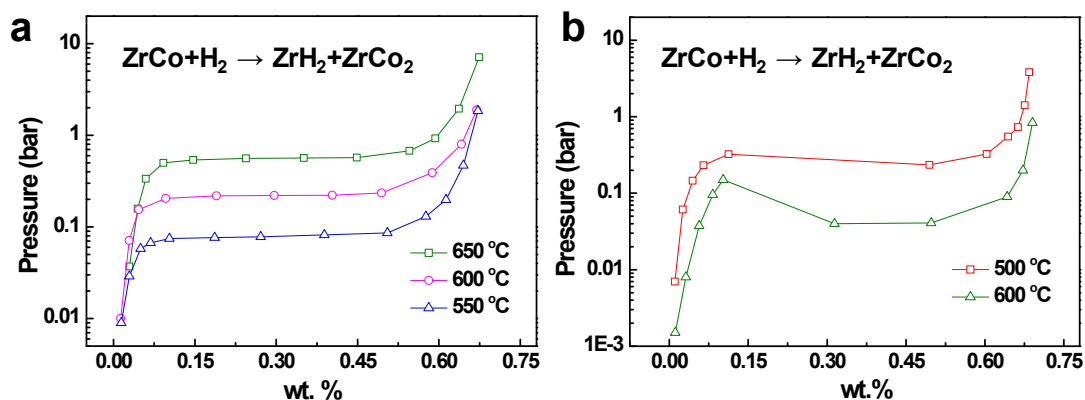


Fig. S2 Comparison of the hydriding disproportionation curves obtained by a series of discontinuous measurements (a) and normal PCT measurements (b).

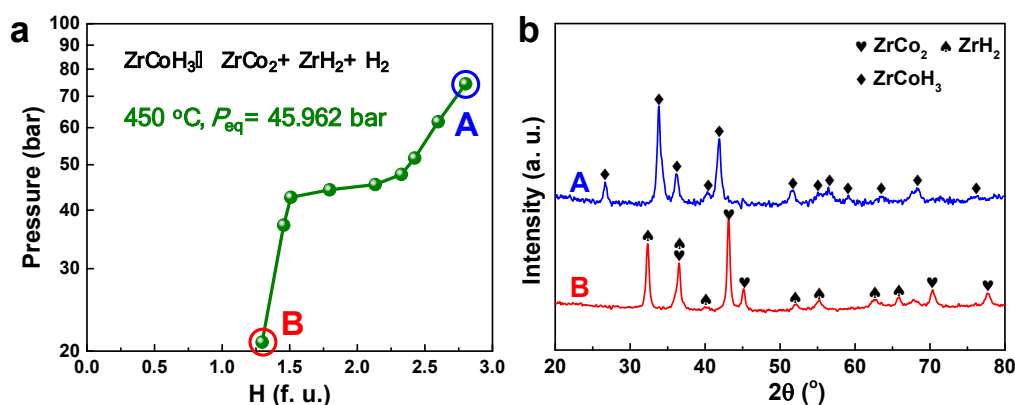


Fig. S3 Dehydriding disproportionation PCT curve at 450 °C (a) and the corresponding XRD at point A and B (b).

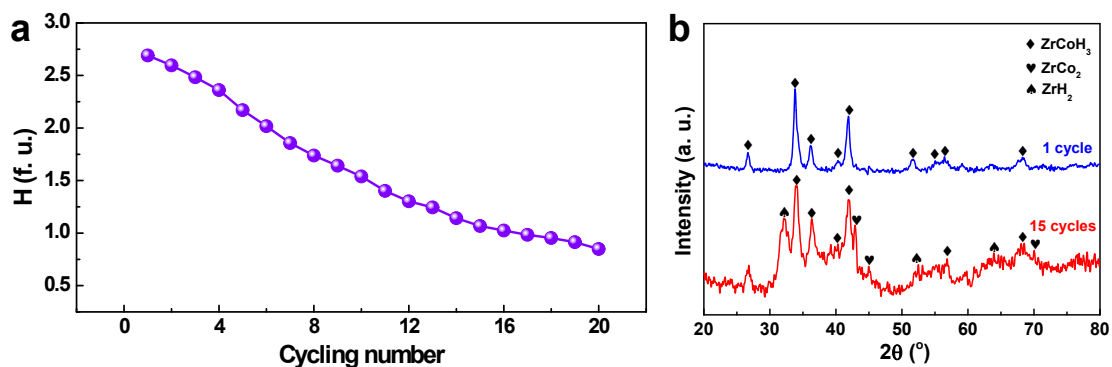


Fig. S4 Attenuation model of cycling capacity in ZrCo-H system (a) and XRD patterns of hydrogenated samples after 1 cycle and 15 cycles (b).