Supporting Information

Effect of polishing on the morphology of Zircaloy-4 nanostructure: Formation of a novel hexagonal nanoscale pattern

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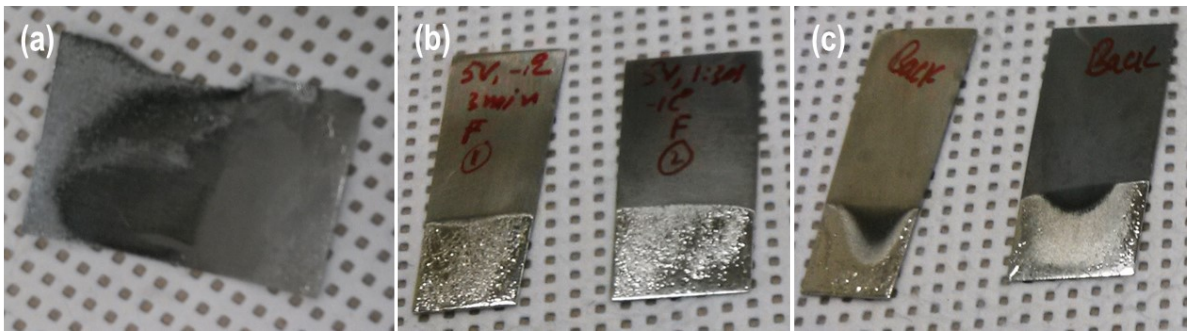

Figure S1: Digital picture of the electropolished Zr-4 sheet in methanol — perchloric acid, (a) dissolution of Zr-4 sheet from the edge without stirring of electrolyte, (b) front sides of the Zr-4 sheets, (c) backside of the Zr-4 sheets with continuous stirring of electrolyte. Platinum gauze was used as the counter electrode (cathode) during electropolishing.

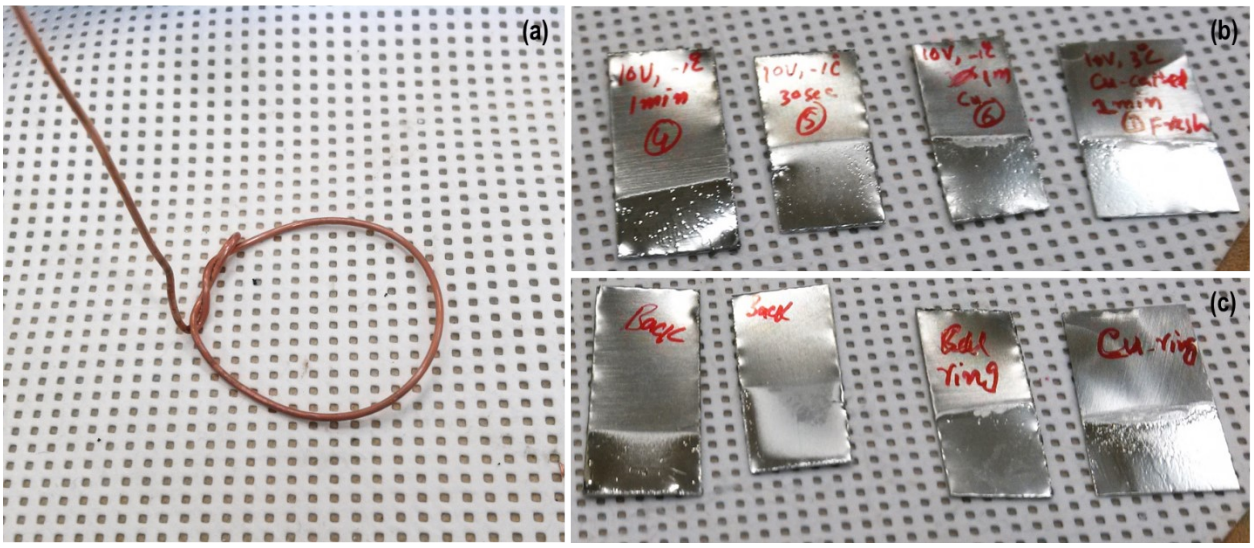

Figure S2: Digital pictures of (a) Cu-wire in the form of an O-ring shape, which was used as the counter electrode for uniform electric field generation during electropolishing of Zr-4 sheet in methanol — perchloric, (b) front and back sides of the electropolished Zr-4 sheets showing uniform and homogeneous surface smoothness.