

Supporting Information

Enhanced Hydrogen Evolution and Symmetric Supercapacitor Performance of Ru-doped Multiphase WS₂ Electrode

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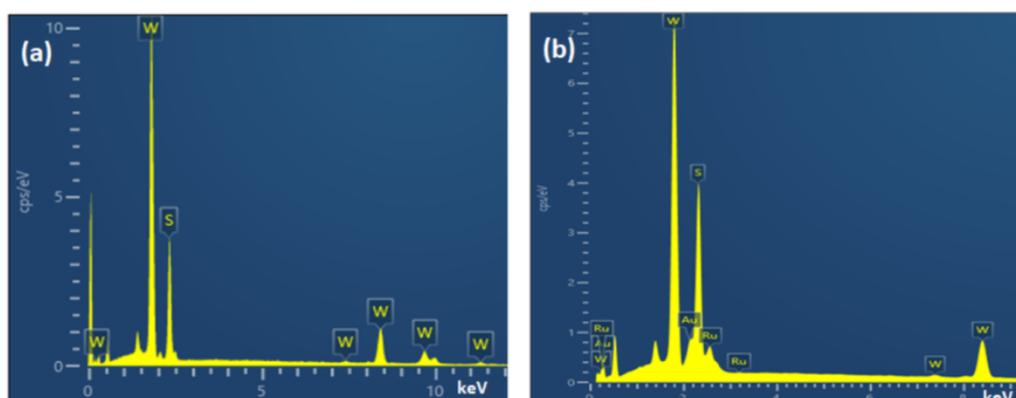


Figure S1 : EDX images of (a) 2H-WS₂ and (b) Ru doped 2H/1T-WS₂-10 samples

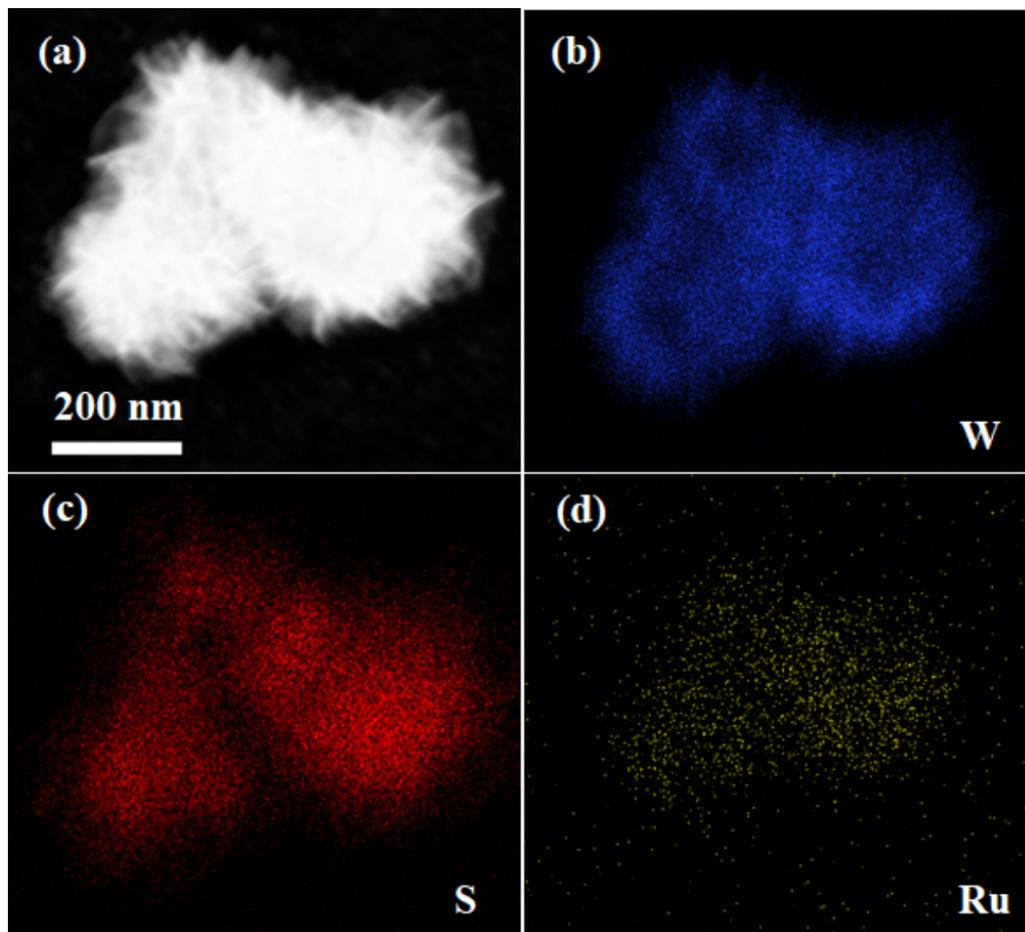


Figure S2 : The high-angle annular dark-field scanning TEM (HAADF-STEM) image with corresponding elemental mapping for 2H/1T-WS₂-10 sample showing W, S and Ru atoms in the sample

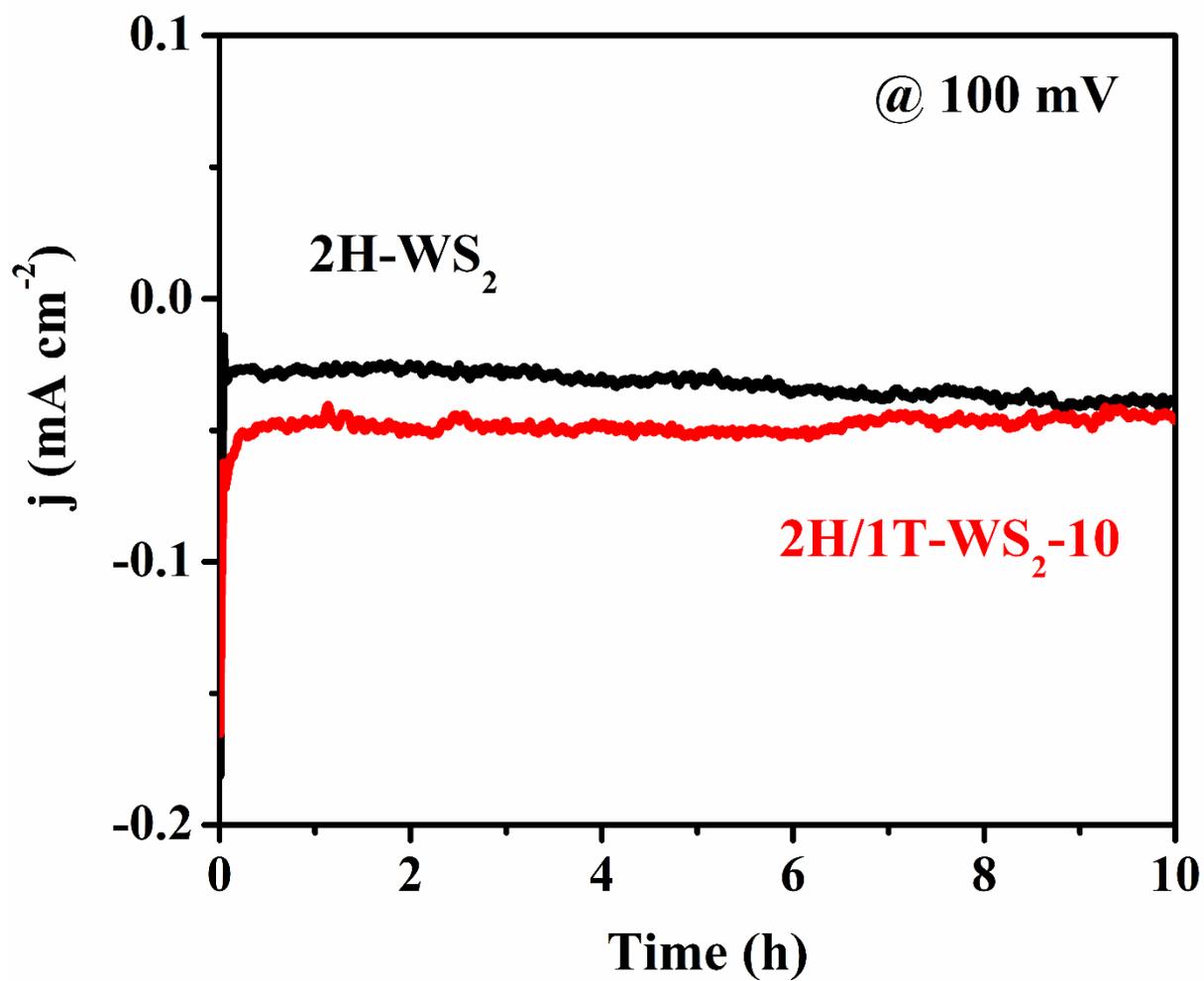


Figure S3: Chronoamperometry durability test of 2H-WS_2 and $2\text{H/1T-WS}_2\text{-10}$ catalyst

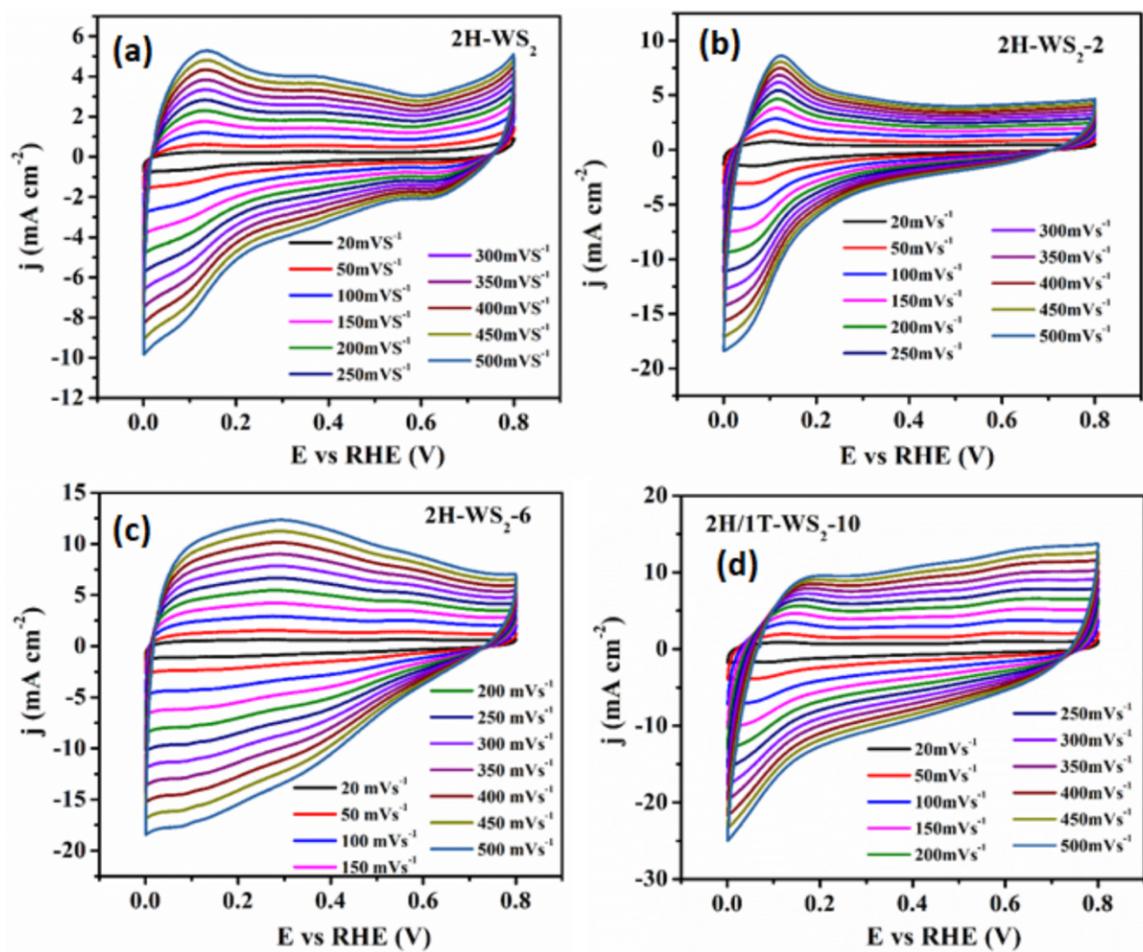


Figure S4 : CV curves of Ru doped WS_2 electrodes measured at different scan rate (a) 2H-WS_2 , (b) 2H-WS_2-2 , (c) 2H-WS_2-6 and (d) 2H/1T-WS_2-10 samples