Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Solution-phase phosphorus substitution for enhanced oxygen evolution reaction in Cu_2WS_4

Travis G. Novak,[1] Om Prakash,[2] Anand P. Tiwari,[1] and Seokwoo Jeon[1]**

1. Department of Materials Science and Engineering, KAIST Institute for The Nanocentury, Advanced Battery Center, KAIST, Daejeon 305-701, Republic of Korea.
2. Department of Inorganic and Physical Chemistry, Indian Institute of Sciences, Bengaluru 560012, India

* Corresponding author: jeon39@kaist.ac.kr (S. Jeon), anand@kaist.ac.kr (A. P. Tiwari)

Fax: (+) 82-42-350-3310; Tel: (+) 82-42-350-3342.

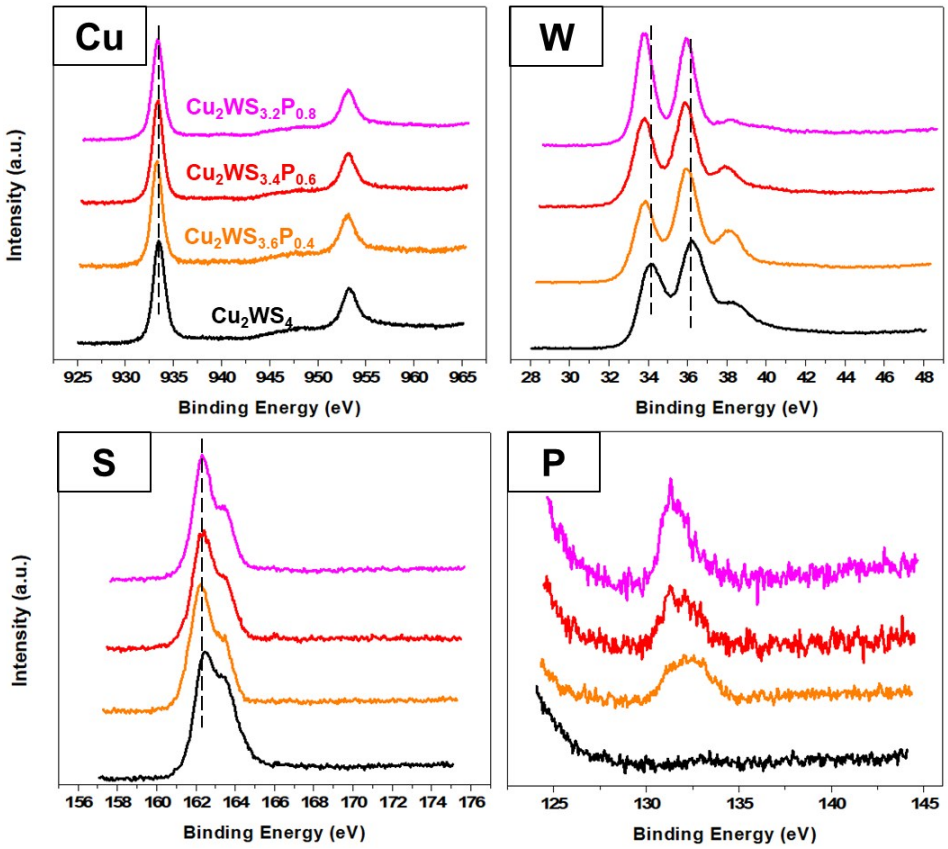

Figure S1: XPS elements scans of Cu, W, S, P for all 4 samples.

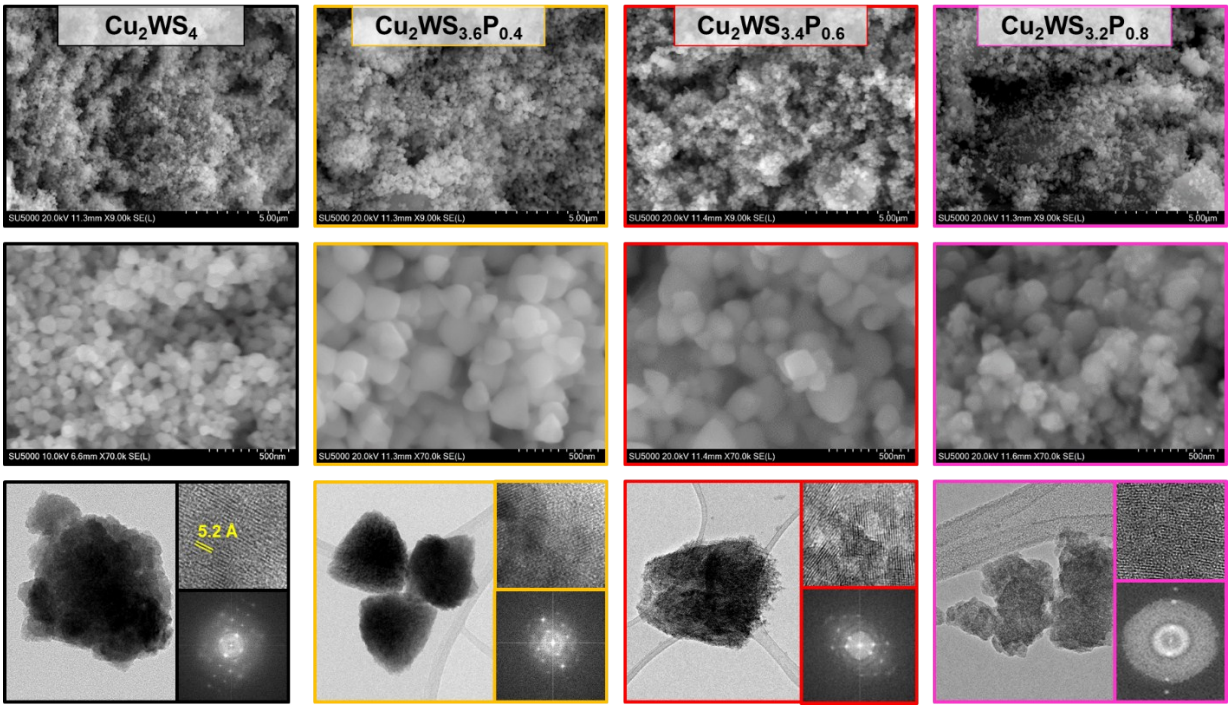

Figure S2: Complete SEM and TEM images, with FFT patterns inset.

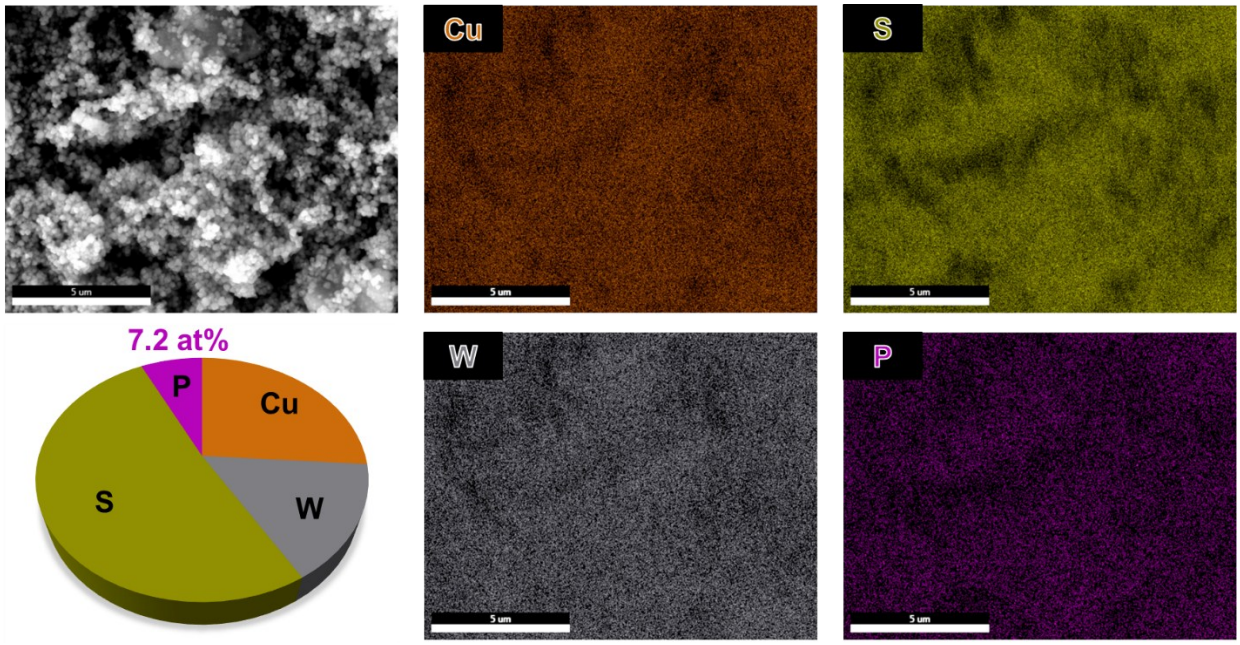

Figure S3: SEM image with elemental EDS mapping showing a uniform dispersion of P. The at% of P was calculated to be ~7.2 based on EDS data.

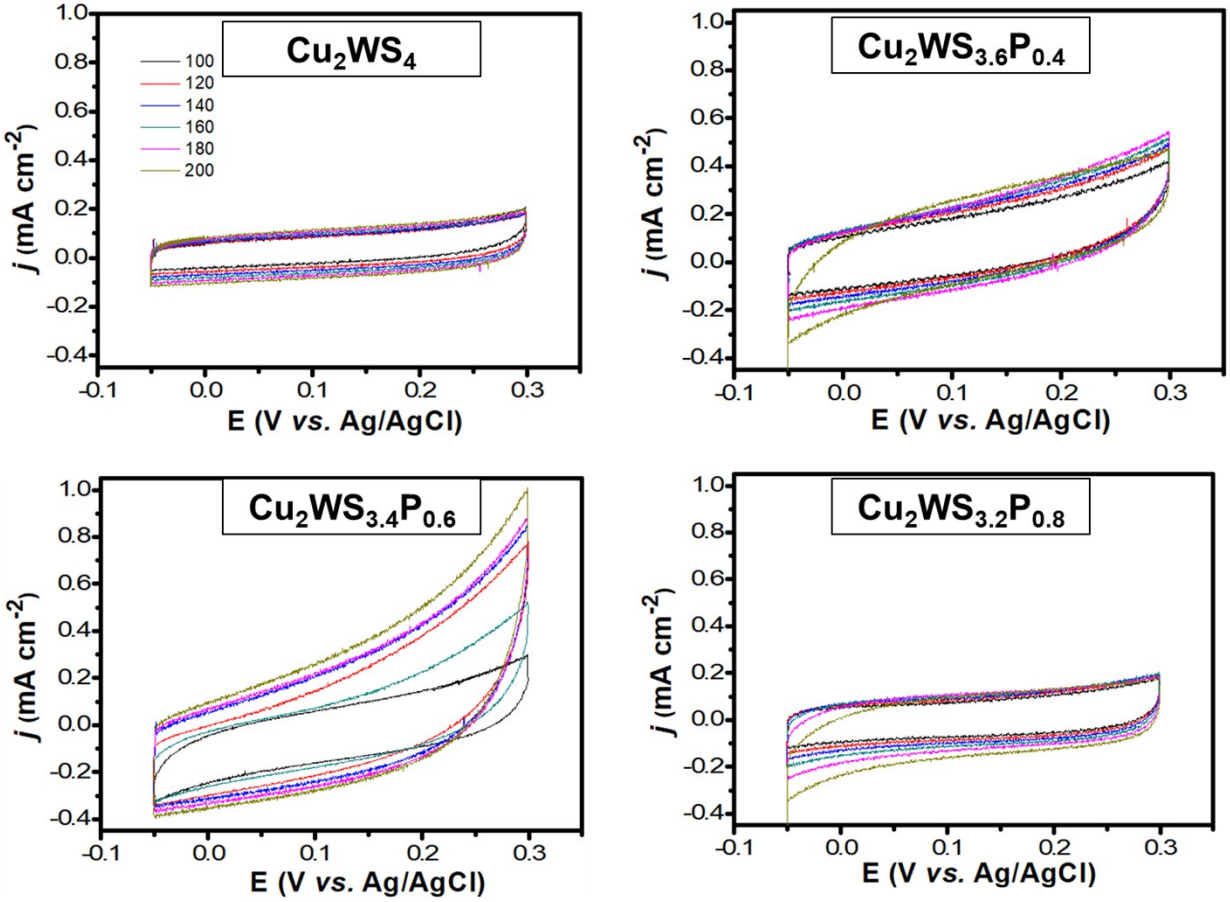

Figure S4: CV curves of all 4 tested samples.

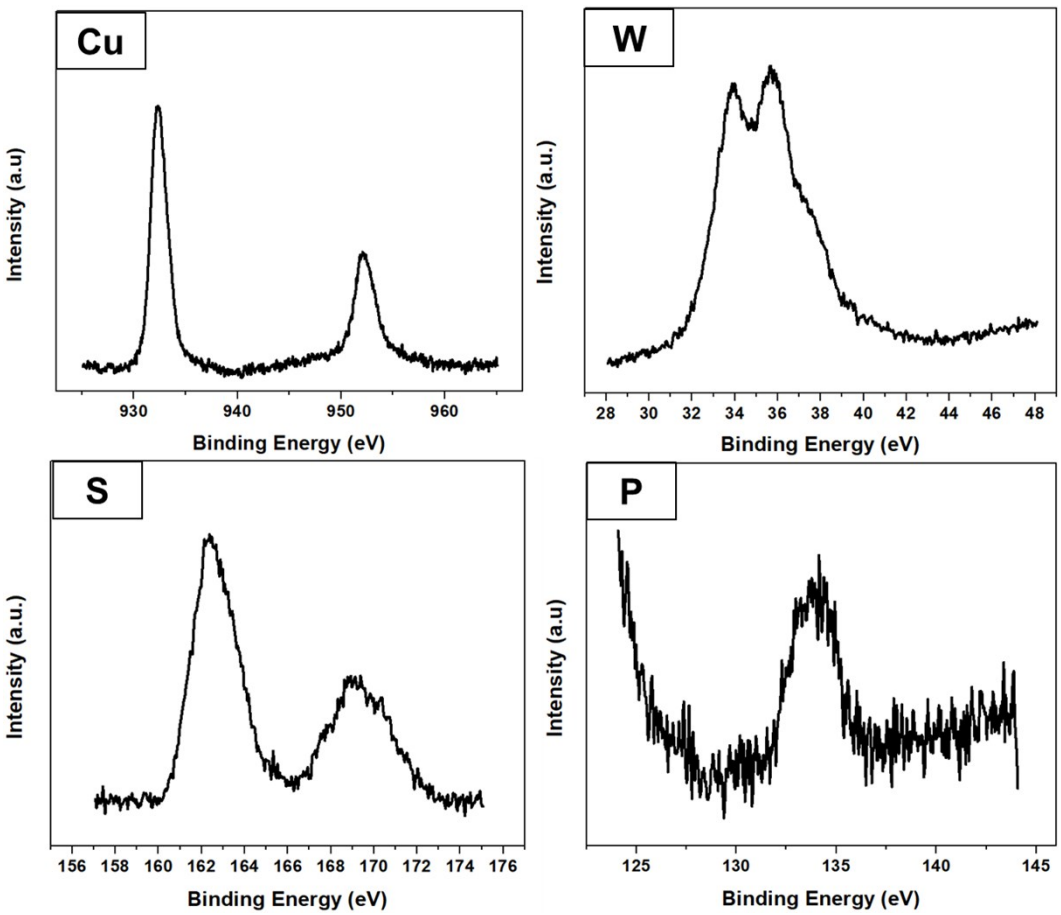

Figure S5: Elemental XPS scans after the stability test.