

## Supporting Information

### **Carbon Cloth Supported Cobalt Phosphide as Multifunctional Catalysts for Efficient Overall Water Splitting and Zinc-air Batteries**

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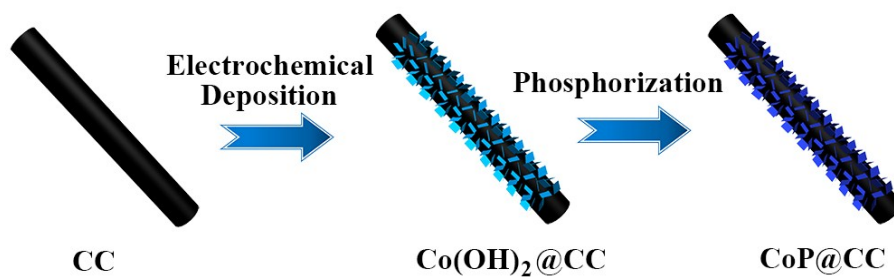


Figure S1. Schematic of the preparation of CoP@CC.

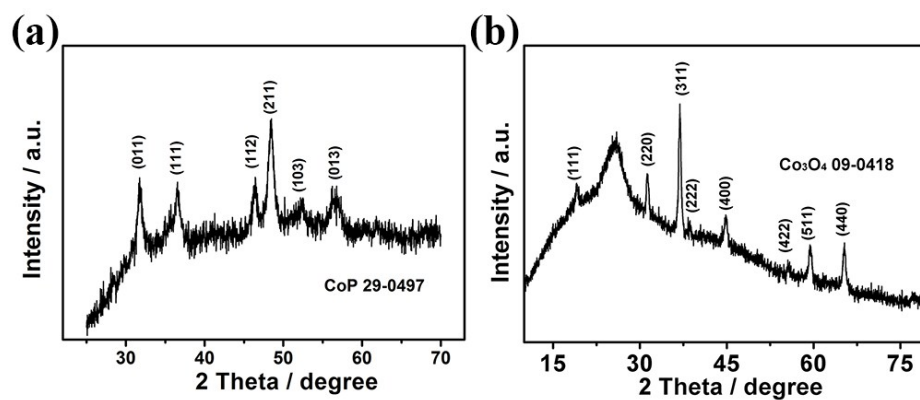


Figure S2. The XRD patterns of (a) CoP powder, and (b) Co<sub>3</sub>O<sub>4</sub>@CC.

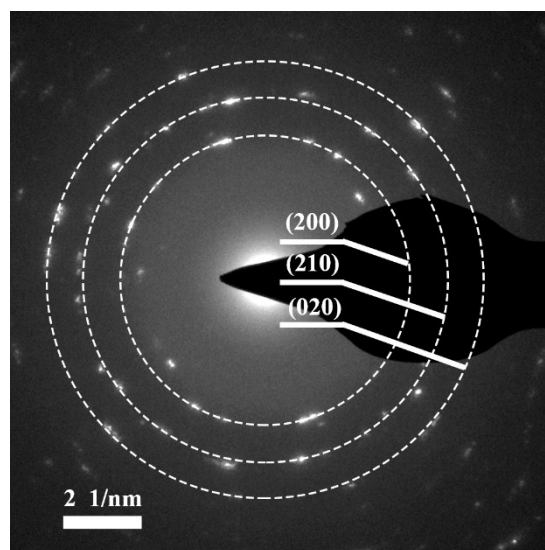


Figure S3. The SAED pattern of CoP@CC.

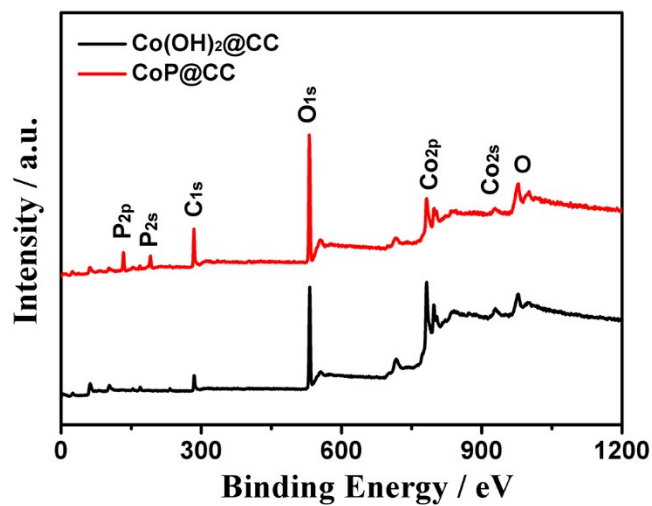


Figure S4. The survey spectra of  $\text{Co(OH)}_2\text{@CC}$  and  $\text{CoP@CC}$ .

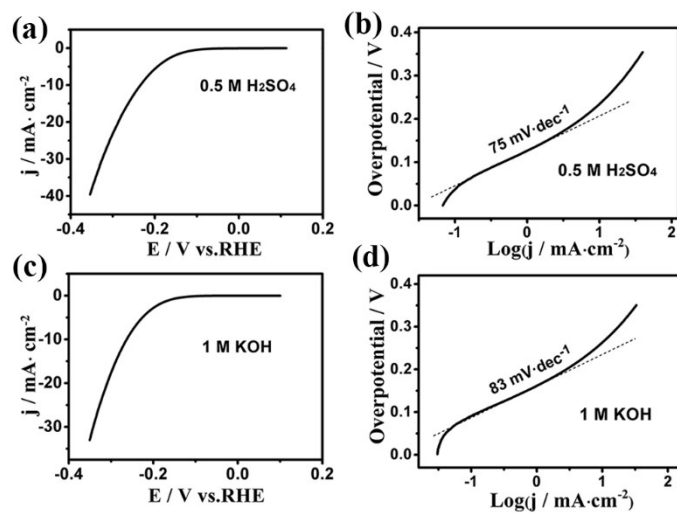


Figure S5. The HER performance of pure CoP powder.

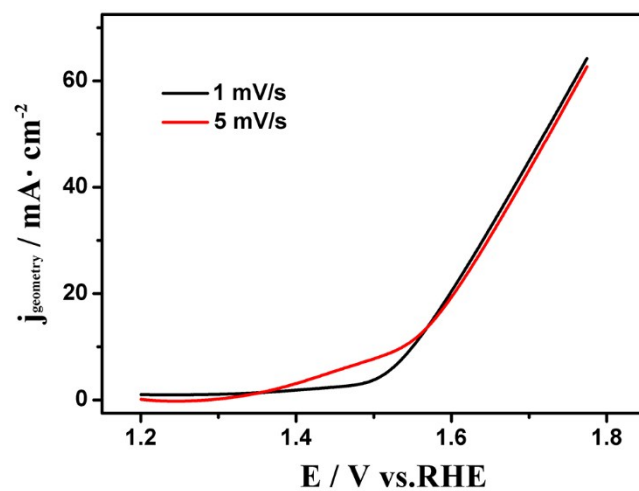


Figure S6. The OER performance of CoP@CC at different scan rates.

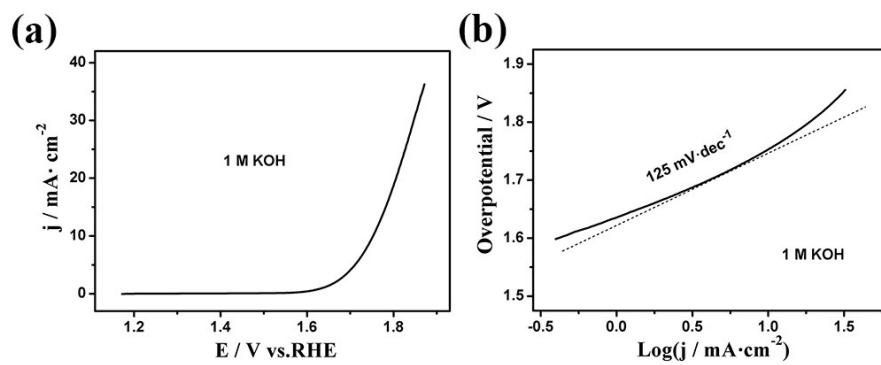


Figure S7. The OER performance of pure CoP powder.