

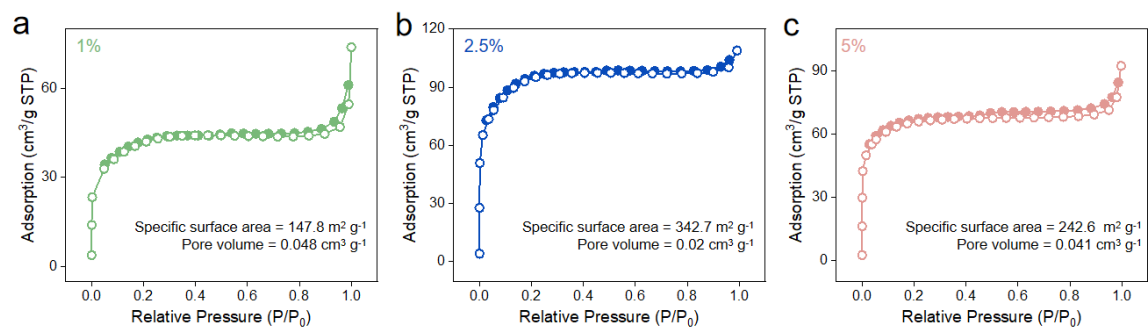


Figure S1. N_2 adsorption–desorption isotherms of OPC samples with different Fe loadings: (a) 1.0 wt%, (b) 2.5 wt%, and (c) 5.0 wt%.

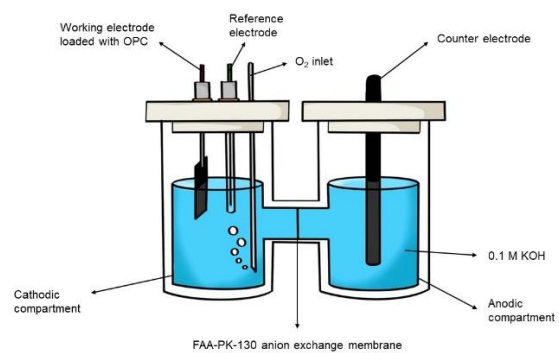


Figure S2. Schematic diagram of the H-cell configuration for ORR measurements.

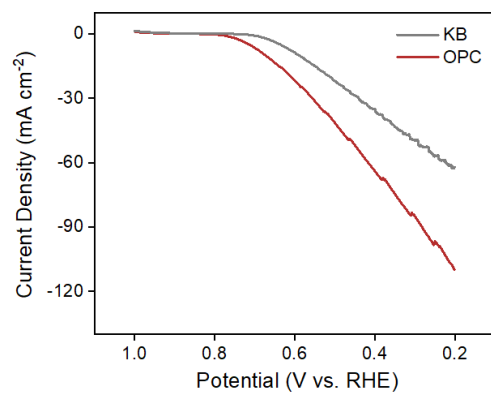


Figure S3. ORR polarization curves of the OPC catalyst and Ketjen Black support.

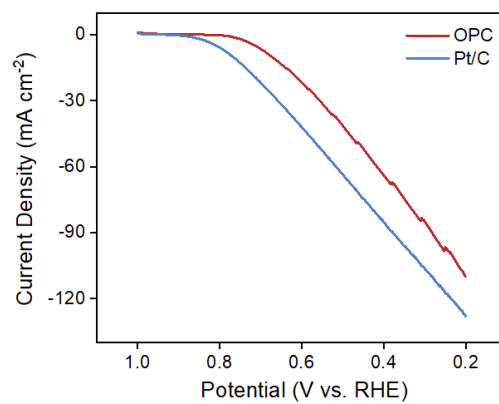


Figure S4. ORR polarization curves of the OPC catalyst and Pt/C benchmark.

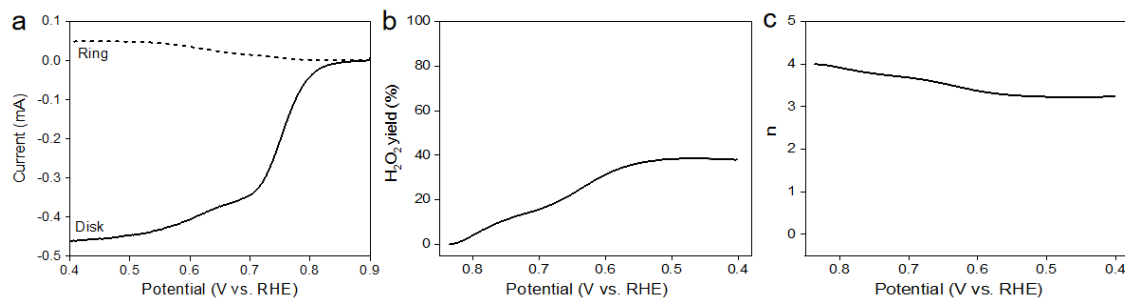


Figure S5. (a) LSV curves of OPC catalyst recorded on a RRDE in O_2 -saturated 0.1 M KOH at a rotation rate of 1600 rpm. A constant potential of 1.2 V vs. RHE was applied on the Pt ring electrode during the measurement. (b) Electron transfer number (n) and (c) corresponding H_2O_2 yield in the potential range of 0.4–0.8 V, derived from the disk and ring currents obtained on the RRDE.