

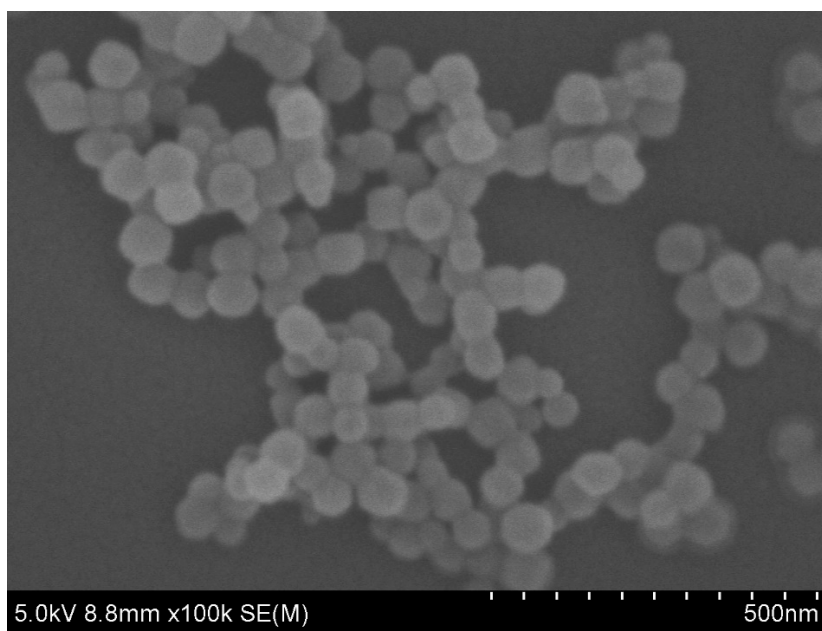
## Supporting Information

### MOF Derived Manganese Oxides Nanospheres Embedded in N-Doped Carbon for Oxygen Reduction Reaction

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#### Synthesis of ZIF-8

0.4175 g  $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$  and 0.925 g 2-methylimidazole were dissolved in 20ml methanol, respectively, and the two solutions were mixed and stirred for 2 h. Then it was cleaned three times with methanol and placed in a vacuum drying oven at 40 °C for 12 h.



**Figure S1.** SEM of ZIF-8.

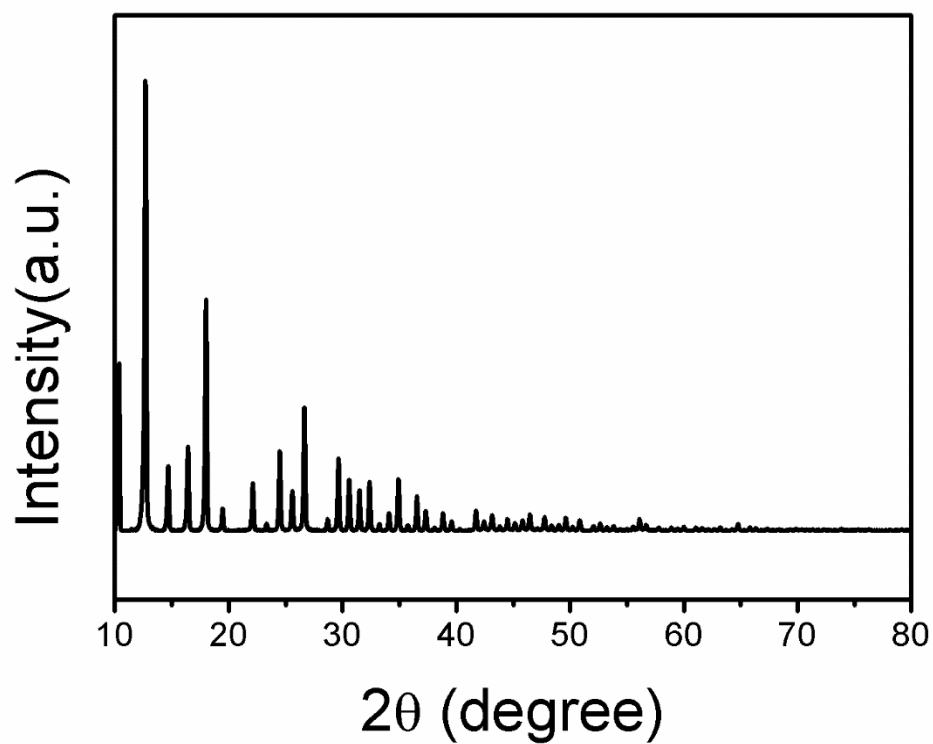


Figure S2. XRD of ZIF.

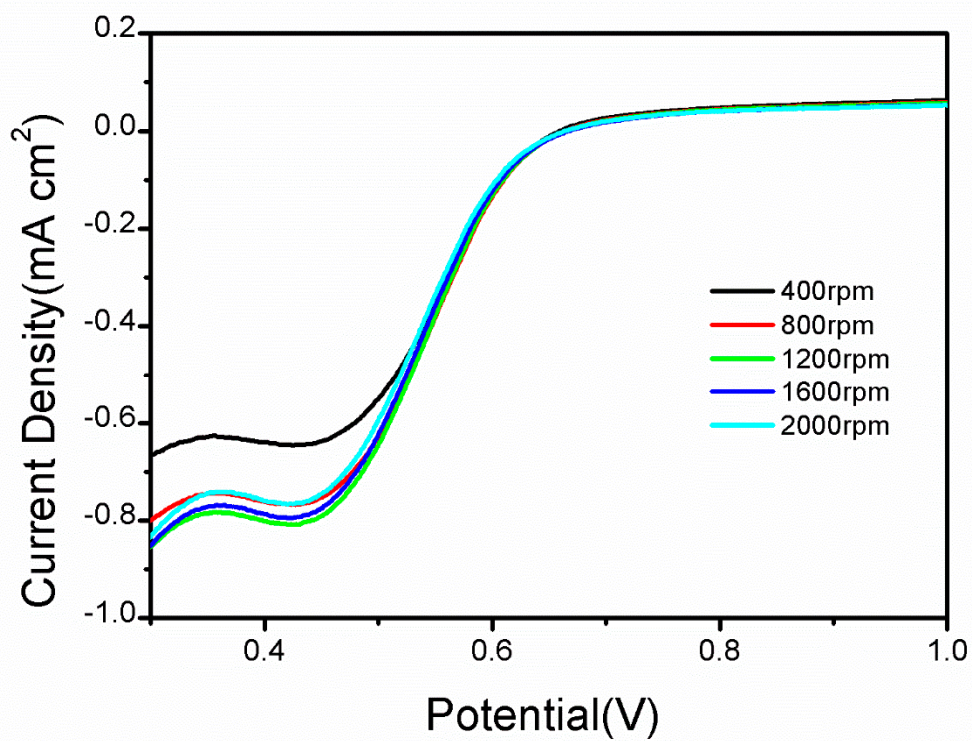


Figure S3. Linear sweeping voltammograms of ORR on the GCE without catalyst ink.