Electronic Supplementary Material (ESI) for Nanoscale. This journal is © The Royal Society of Chemistry 2020

Supporting Information

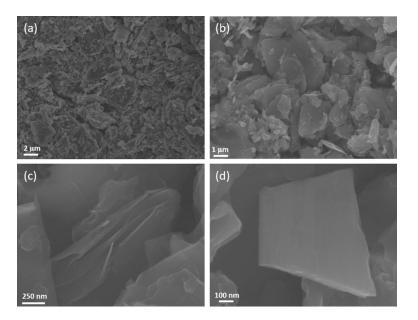


Fig. S1 SEM images of the black phosphorus nanosheets after tip sonic.

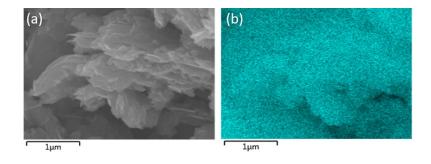


Fig. S2 (a) SEM image of the BP nanosheet after tip sonic, and (b) corresponding elemental mapping of phosphorus.

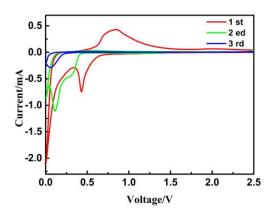


Fig. S3 Cyclic voltammograms of the first, second, and third cycle of the black P/KB/CMC electrode scanned at a rate of 50 μ V·s⁻¹.

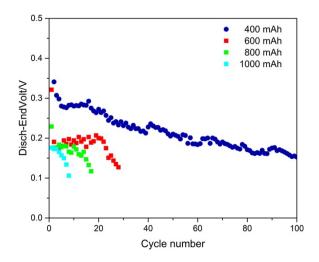


Fig. S4 he dishcarge cut-off voltage (Disch-EndVolt) evolution when the discharge specific capacity is limited to 400 mAh \cdot g⁻¹, 600 mAh \cdot g⁻¹, 800 mAh \cdot g⁻¹, and 1000 mAh \cdot g⁻¹.

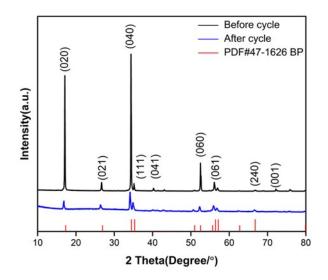


Fig. S5 The XRD patterns of black phosphorus before cycling and after cycling when the discharge specific capacity is limited to $400 \text{ mAh} \cdot \text{g}^{-1}$.