

Supplementary Information: Facilitating Synthesis of FeP/C@CoP Composites as High-Performance Anode Materials for Sodium-Ion Batteries

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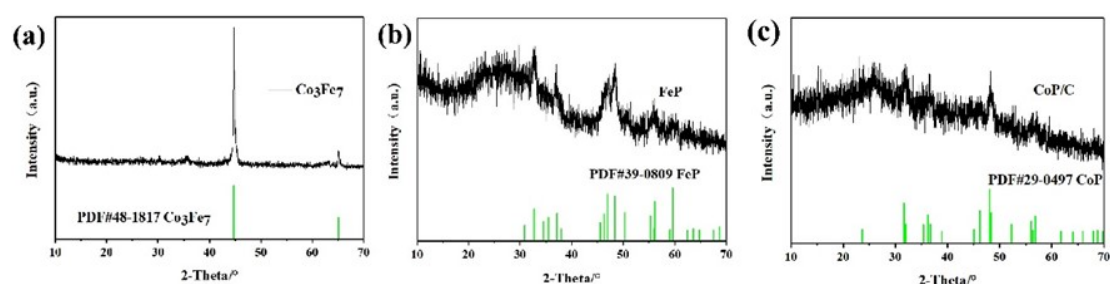


Figure S1. XRD diffraction pattern of (a) Fe-MOF@Co-based nanoarray composite carbide product $\text{Co}_3\text{Fe}_7/\text{C}$; (b) Fe-MOF Phosphating product FeP/C ; (c) ZIF-67 phosphating product CoP/C .

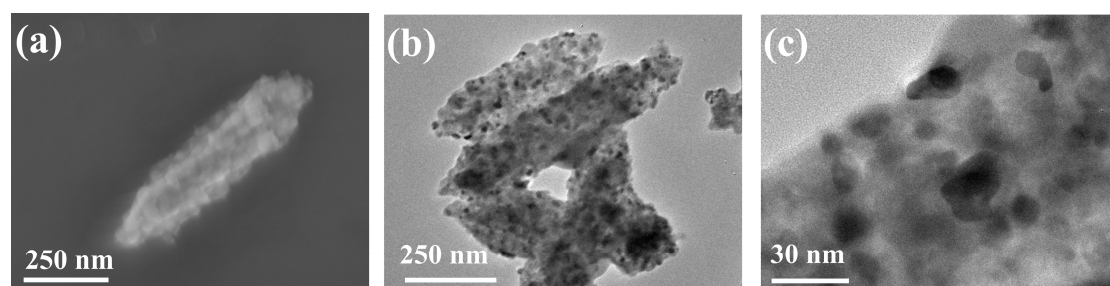


Figure S2 (a) SEM image and (b,c) TEM images of FeP/C .

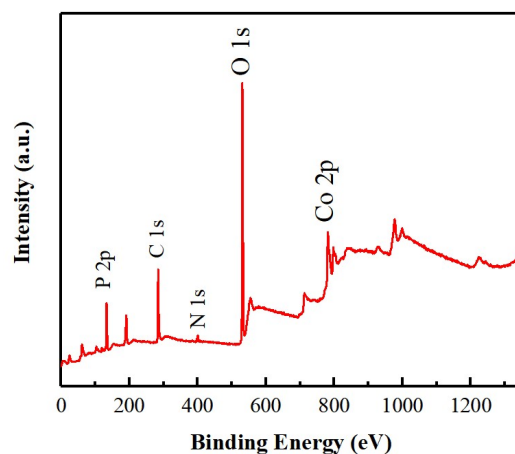


Figure S3 XPS survey spectrum of FeP/C@CoP.

Element	Weight%	Atomic%
C K	8.20	15.21
O K	41.00	57.10
P K	23.69	17.04
Fe K	18.90	7.54
Co K	8.21	3.11
Totals	100.00	

Table S1. The mass fraction of an element of FeP/C@CoP.

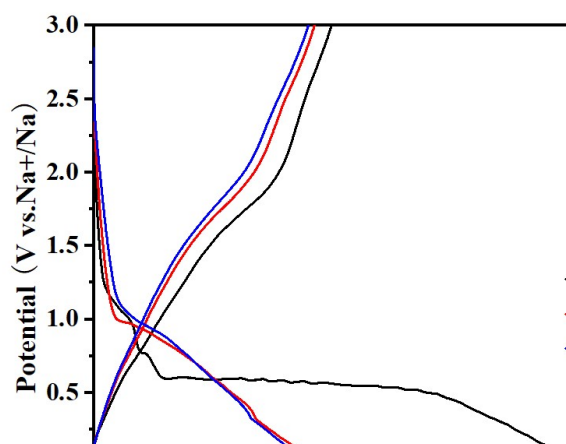


Figure S4 the first three capacity-voltage profiles at 0.1 A g⁻¹ of FeP/C.

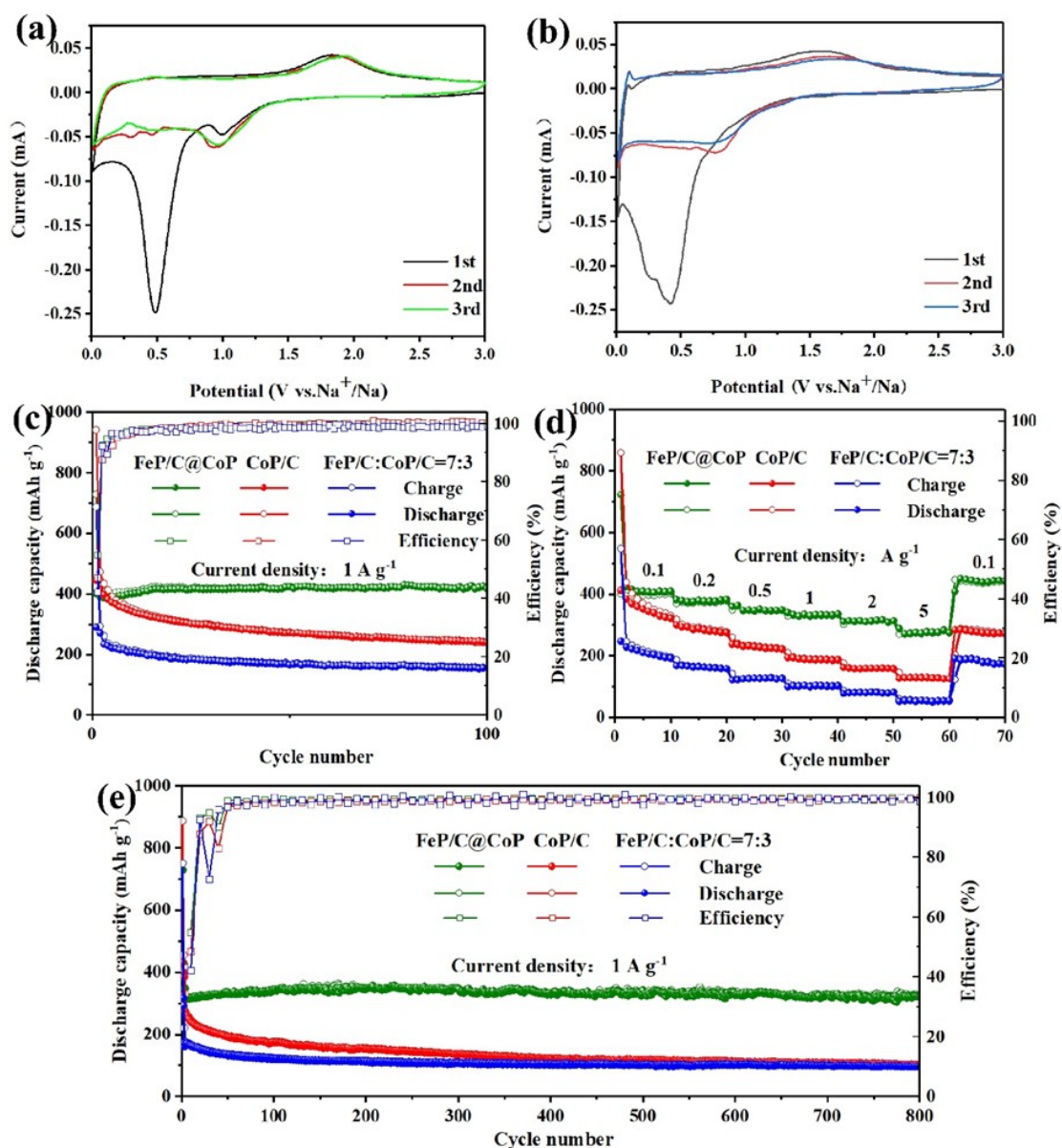


Figure S5 The first three CV curves at 0.1 mV s⁻¹ in the voltage of 0.01-3.0 V of (a) FeP/C and (b) FeP/C: CoP/C=7: 3 composites. (c) Cycling performance of FeP/C@CoP, CoP/C and FeP/C: CoP/C=7: 3 electrodes at current of 0.1 A g⁻¹; (d) the rate performance from 0.1 A g⁻¹ to 5 A g⁻¹; (e) the long cycling performance at 1 A g⁻¹.

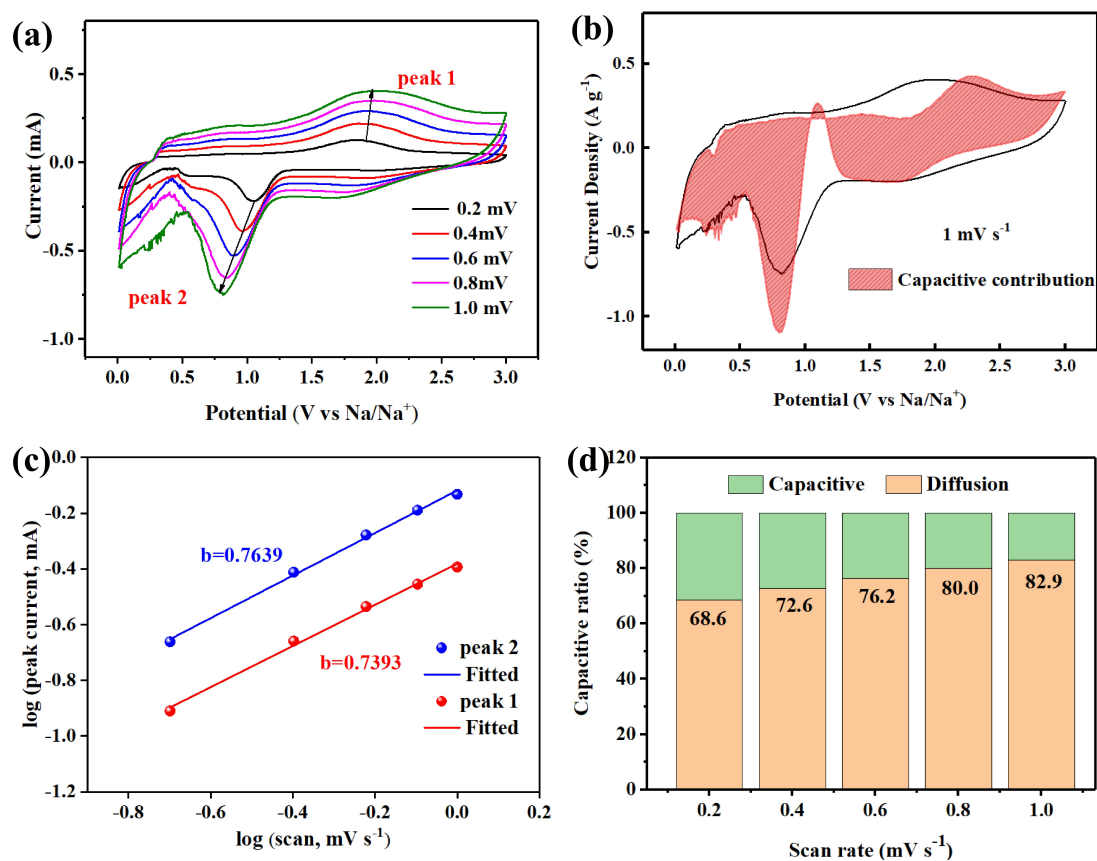


Figure S6 (a) The CV curve of the FeP/C electrode at different scan rates from 0.1 to 1 mV s⁻¹. (b) the pseudo-capacitance contribution at 1 mV s⁻¹. (c) the b-value graph of the two curves. (d) the contribution rate of capacitance at different scan rates.