

Supporting Information

Common ion effect enhanced Prussian blue analogue for aqueous ammonium ion storage

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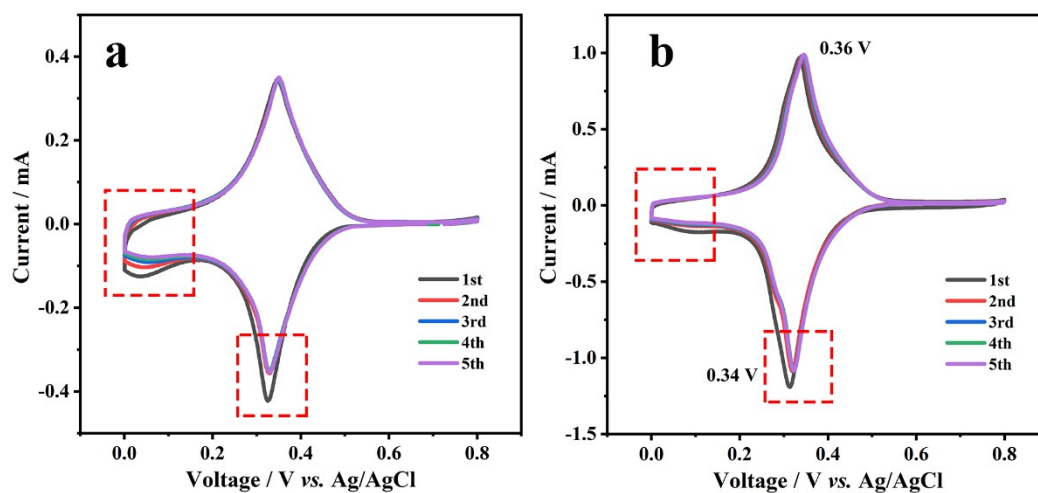


Fig. S1. (a) The first five CV curves of AIBs without additives at 0.1 mV s^{-1} . (b) The first five CV curves of AIBs with additives at 0.1 mV s^{-1} .

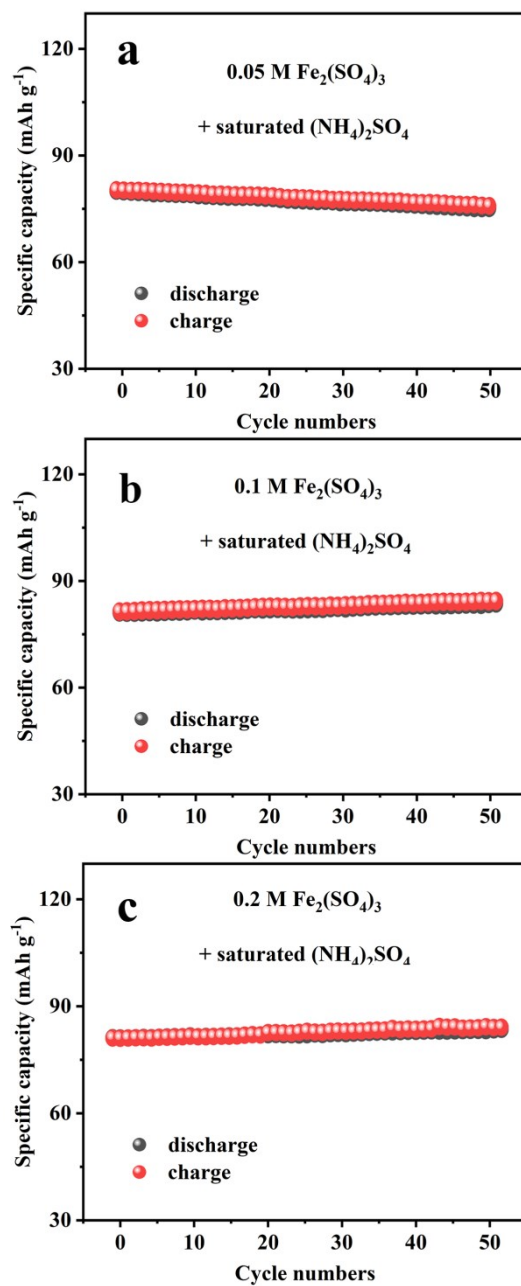


Fig. S2. Cycling performance of FeHCF in different concentrations of $\text{Fe}_2(\text{SO}_4)_3$ additive. (a) 0.05 M $\text{Fe}_2(\text{SO}_4)_3$. (b) 0.1 M $\text{Fe}_2(\text{SO}_4)_3$. (c) 0.2 M $\text{Fe}_2(\text{SO}_4)_3$.

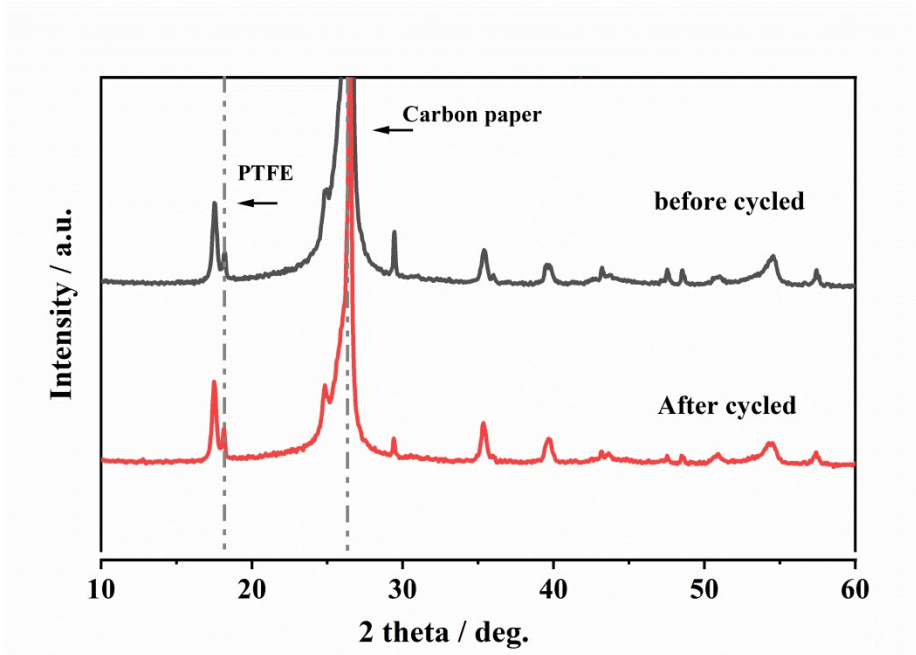


Fig. S3. XRD patterns of FeHCF electrode before and after cycled.

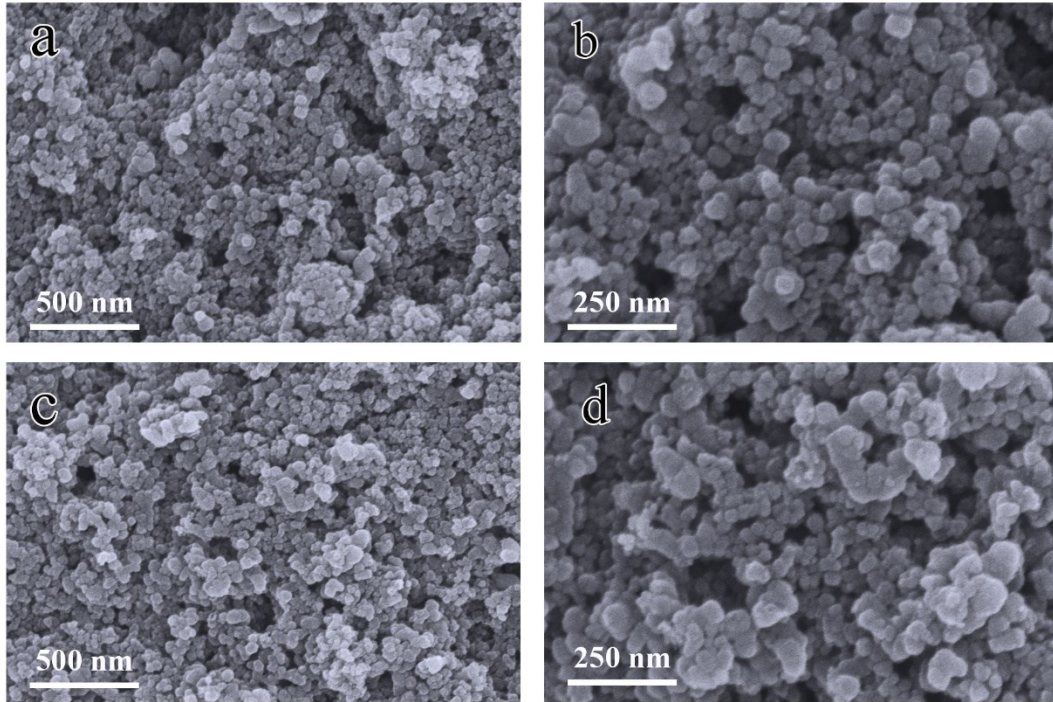


Fig. S4. (a, b) SEM images of pristine $\text{FeFe}(\text{CN})_6$ electrode. (c, d) SEM images of cycled $\text{FeFe}(\text{CN})_6$ electrode using electrolyte with additive after 500 cycles at 50 mA g^{-1} .

Table S1. The element content of FeHCF sample.

Sample	Element	Content
FeHCF	Fe	4.56 %
	K	0.02 %

Table S2. The content of Fe element in the electrolyte before and after cycled.

	Before cycled	After cycled
Electrolyte without additives	0 M	0.062 M
Electrolyte with additives	0.104 M	0.108 M