

Supplementary

**Y-tube Assisted Coprecipitation Synthesis of Iron-
Based Prussian Blue Analogues Cathode Materials
for Sodium-Ion batteries**

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Table S1 Comparison of the electrochemical performances of the reported Iron-based PBAs

Iron-based PBAs	Current density (mA g ⁻¹)	Initial capacity (mAh g ⁻¹)	Cycles	Capacity retention (%)	Current density (mA g ⁻¹)	Capacity (mAh g ⁻¹)	Voltage range(V)	Ref.
PB-H3	200	81.1	500	59.8	5000	68.1	2.0-4.2	s1
PB	34	116	100	4.5	850	0.09	2.0-4.0	s2
PB	200	119	500	56.9	10000	41.7	2.0-4.2	s3
PB-SP	50	93	50	80.0	200	59	2.0-4.0	s4
PB-1	100	70	100	57.1	400	44	2.0-4.5	s5
PB-L	85	98	100	61.2	170	30	2.0-4.0	s6
LQ-PB	50	80	300	56.2	1000	51	2.0-4.2	s7
PB	170	81	500	74.1	1700	21	2.0-4.0	s8
Y-PB-15	70	99.2	200	69.8	1400	71.9	2.0-4.0	This work

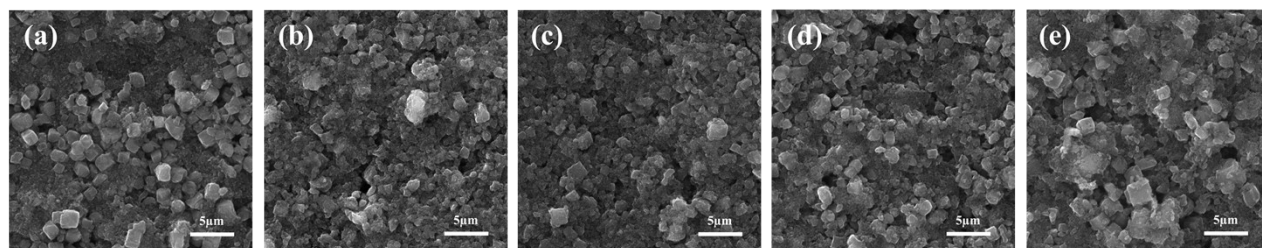


Figure S1 SEM images electrodes after 200 cycles at 0.5C for C-PB-0.3 (a), Y-PB-0.3 (b), Y-PB-15 (c), Y-PB-30 (d), and Y-PB-41(e)

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