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Self-supported VO_2 arrays decorated with N-doped carbon as advanced cathode for lithium ion storage

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Table S1. Electrochemical performance of different VO_2 cathodes for LIBs

Material	Current density	Capacity (mAh g^{-1})	Ref.
VO_2(B) nanobelt	50 mA g^{-1}	107.7 mAh g^{-1} after 50 cycles	1
VO_2 nanorods	0.1 mA cm^{-2}	250 mAh g^{-1} after 30cycles	2
VO_2(A) nanowires	90 mA g^{-1}	116 mAh g^{-1} after 50 cycles	3
VO_2(A)	50mA g^{-1}	166.7 mAh g^{-1}	4
VO_2(B) nanobelts	20 mA g^{-1}	254.0 mAh g^{-1}	5
	200 mA g^{-1}	186.3 mAh g^{-1}	
VO_2	300 mA g^{-1}	256 mAh g^{-1}	6
VO_2(B) @ carbon	100 mA g^{-1}	283 mAh g^{-1}	7
VO_2(B) - Mo foils	100 mA g^{-1}	110 mAh g^{-1}	8
Al-doped VO_2(B)	32.4 mA g^{-1}	282 mAh g^{-1}	9
Al-doped VO_2(B) nanobelts	200 mA g^{-1}	95 mAh g^{-1}	10
	1000 mA g^{-1}	61 mAh g^{-1}	

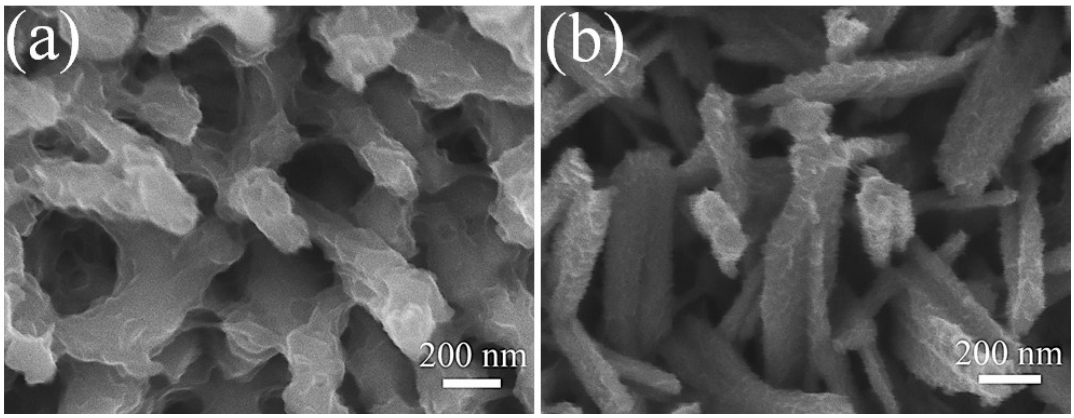

Fig. S1. SEM images of both electrodes after 500 cycles at 1C: (a) VO_2 and (b) N-C@VO_2 arrays.

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