

Facile scalable production of amorphous nickel borate for high performance *hybrid
supercapacitors*

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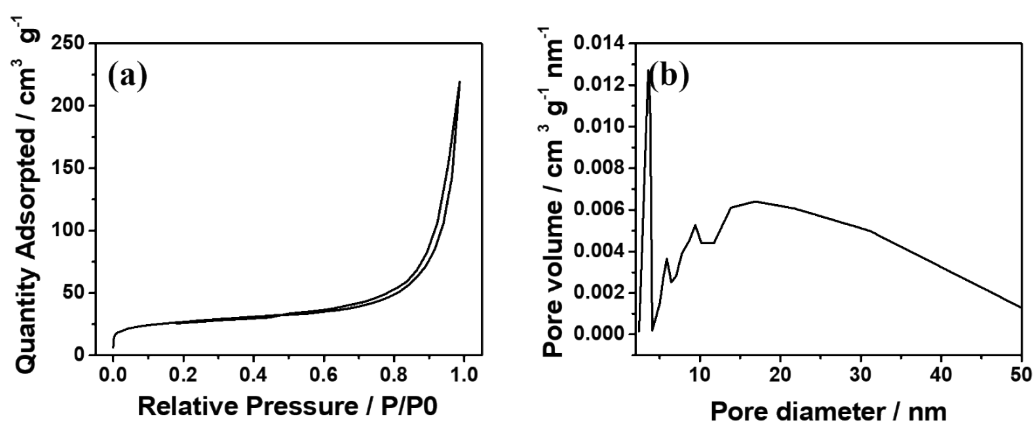


Figure S1 (a) N₂ adsorption-desorption isotherms and (b) pore size distribution
amorphous NiB_xO_y

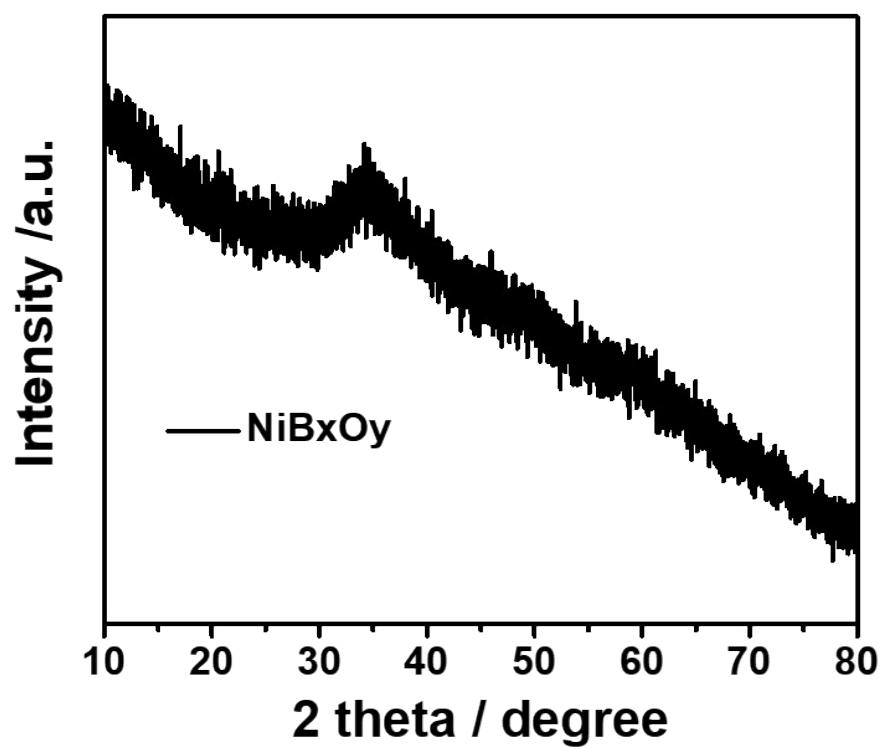


Figure S2 XRD pattern of NiB_xO_y nanosheet

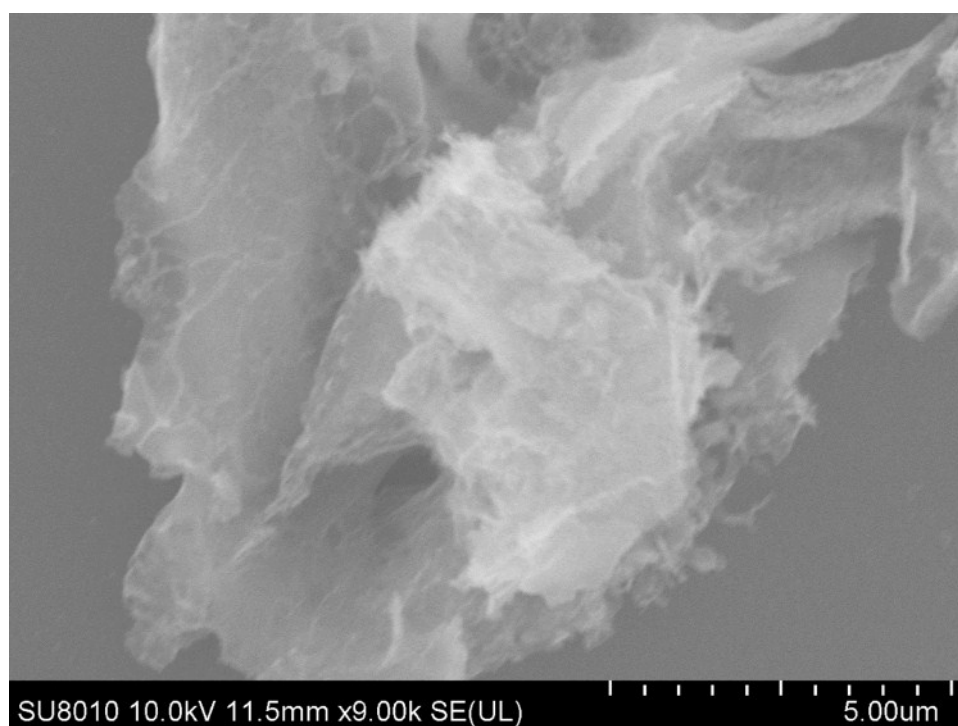


Figure S3 SEM of active carbon prepared by carbonize agaric

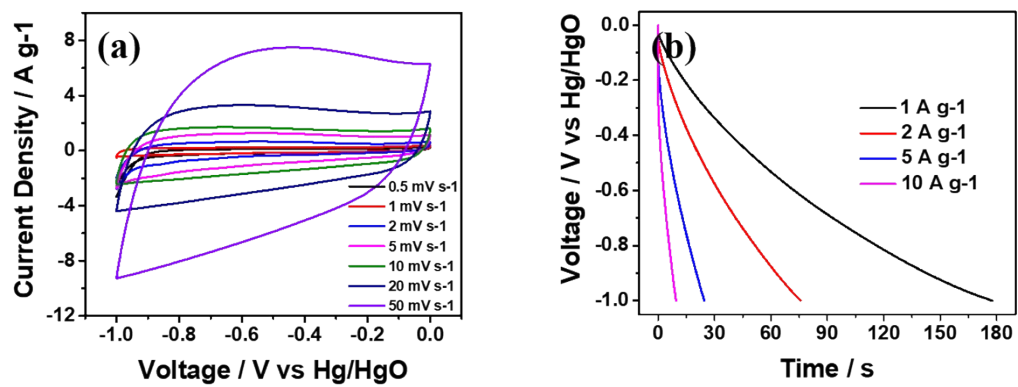


Figure S4 (a) CV curves of AC at different scan rates; (b) GCD curves of AC at different current densities

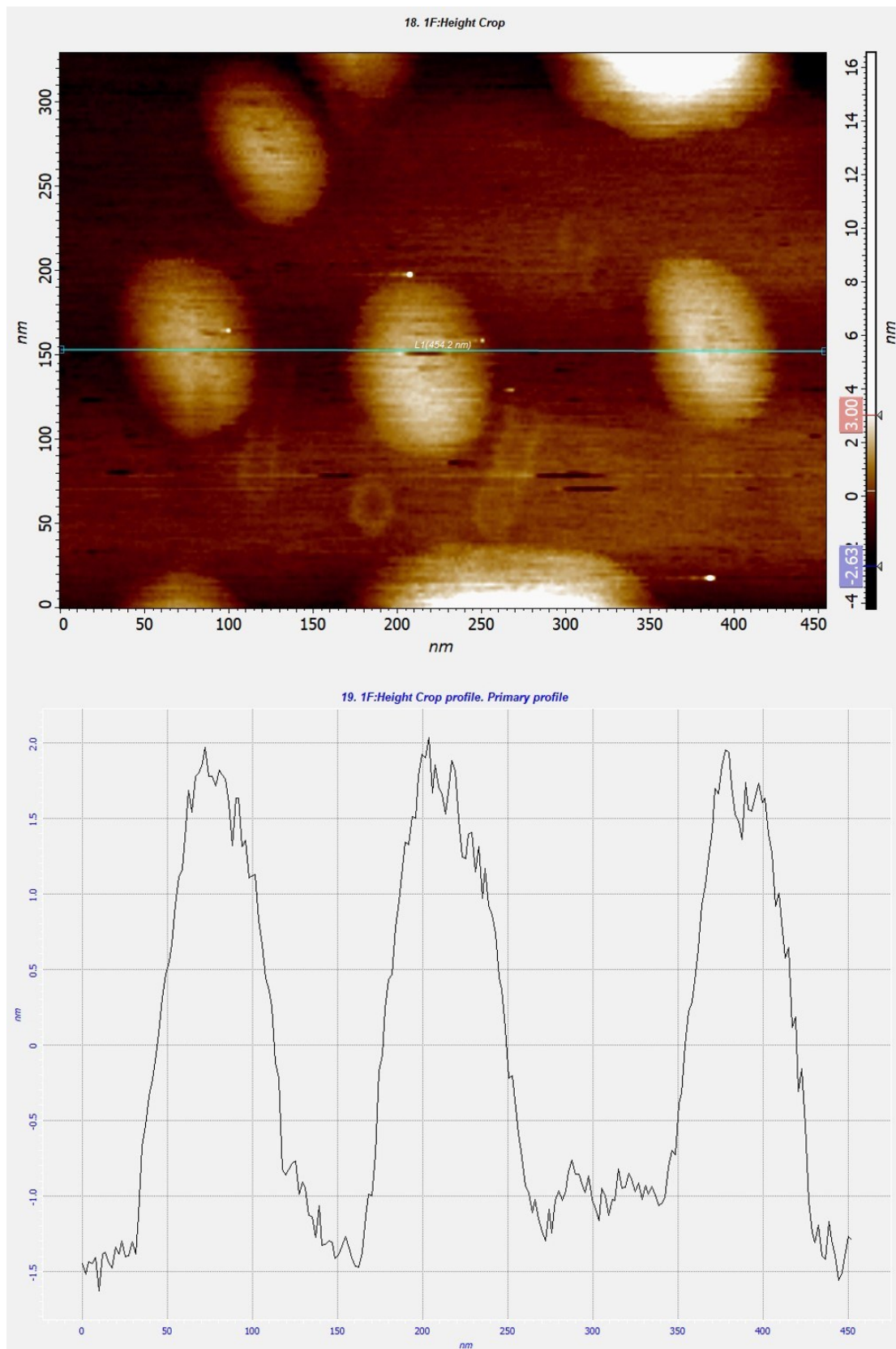


Figure S5 AFM image of NiB_xO_y in tapping mode: topography image and height profiles

Table S1 Atomic ratios determined by XPS

Name	Start BE	Peak BE	End BE	Height CPS	FWHM eV	Area (P) CPS.eV	Area (N) TPP-2M	Atomic %
C 1s	293.71	284.8	279.81	33054.39	1.7	73548.3	1031.32	24.97
O 1s	540.11	532.08	526.91	110851.07	2.58	309729.25	1797.06	43.51
Ni 2p	890.51	856.49	848.81	36353.9	2.9	318006.68	347.98	8.43
B 1s	196.11	192.32	186.51	12549.32	1.78	25811.45	907.96	21.99