

Figure S1: Cyclic voltammograms of BiF₃ with 5wt% Carbon Black at different scan rates from 25 to 200 mV.s⁻¹

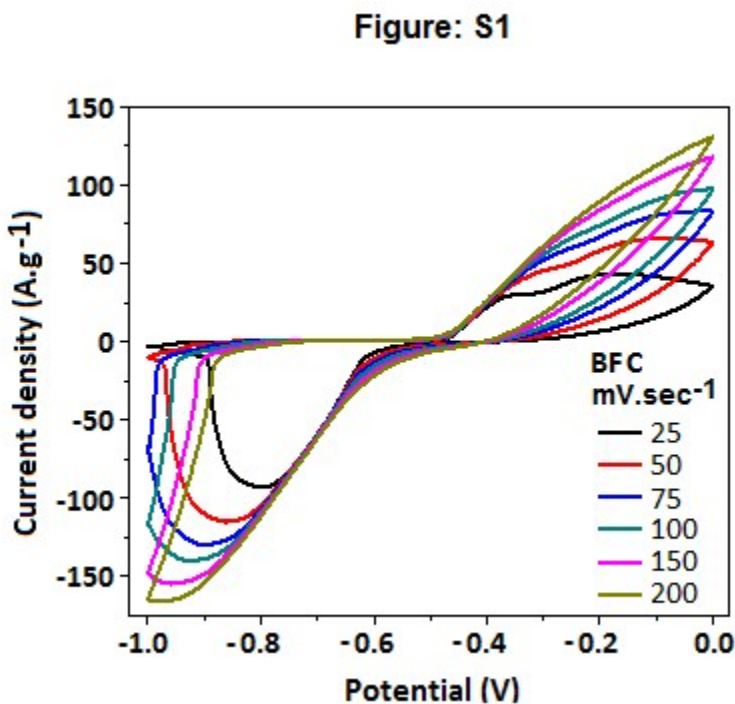


Table S1: The fitting parameters were extracted from the equivalent circuit model.

Table: S2

Name of the compounds	Specific capacitance (F/g)	Current density (A/g)	Energy density (Wh/Kg)	Electrolyte	References
BiOCl	124	0.5 A/g	17.2	KOH (6M)	1
Bi ₂ S ₃ -Ni foam	148.7	1 A/g	45.1	KOH (1M)	2
Bi ₂ O ₃ -MnO ₂	150.2	1 A/g	9.5	Na ₂ SO ₄ (1M)	3
rGO-BiVO ₄	151	0.15 mA/cm ²	33.7	KOH (6M)	4
Bi ₂ S ₃ -Poly-(3,4-ethylenedioxy pyrrole)	201	1 A/g	100.5	1-butyl-3-methyl imidazolium trifluoro-methanesulfonate	5
(Bi ₂ O ₃)-Ni-foam	322.5	5 mV/s	702.97	Na ₂ SO ₄ (1M)	6
GO-BiVO ₄	479	5 A/g	10.75	NaOH (2M)	7
Bi ₂ O ₃ nanowires	691.3	2 A/g	138.3	KOH (6M)	8
rGO-BiFeO ₃ Nanowire	928.43	5 A/g	18.62	KOH (3M)	9
Bi ₂ WO ₆	608	0.5 mA/cm ²	67	KOH (1M)	10
BiF ₃ -aniline	1127		313	KOH (1M)	Present work

Table S2: Some reported bismuth based materials for electrochemical supercapacitor application. rGO (reduced graphene oxide).

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