Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Table S1. Physical parameters for WYM.

Sample	CTs[a](°C)	d_{002}(nm)	S_{BET}(m^2 g^{-1})	AHD[b](nm)	I_D/I_G
WYM-900	900	0.369	1.29	17.83	2.73
WYM-1000	1000	0.372	1.40	10.74	2.58
WYM-1100	1100	0.374	48.19	8.05	2.26
WYM-1200	1200	0.380	19.15	7.71	1.93

[a] The calcination temperatures

[b] The average hole diameter

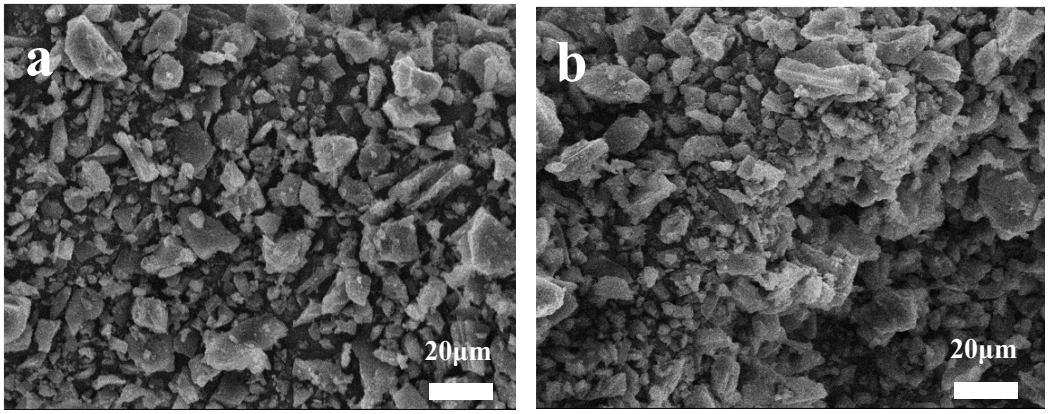

Fig. S1. SEM images of (a) Anthracite raw material; (b) Precursor.

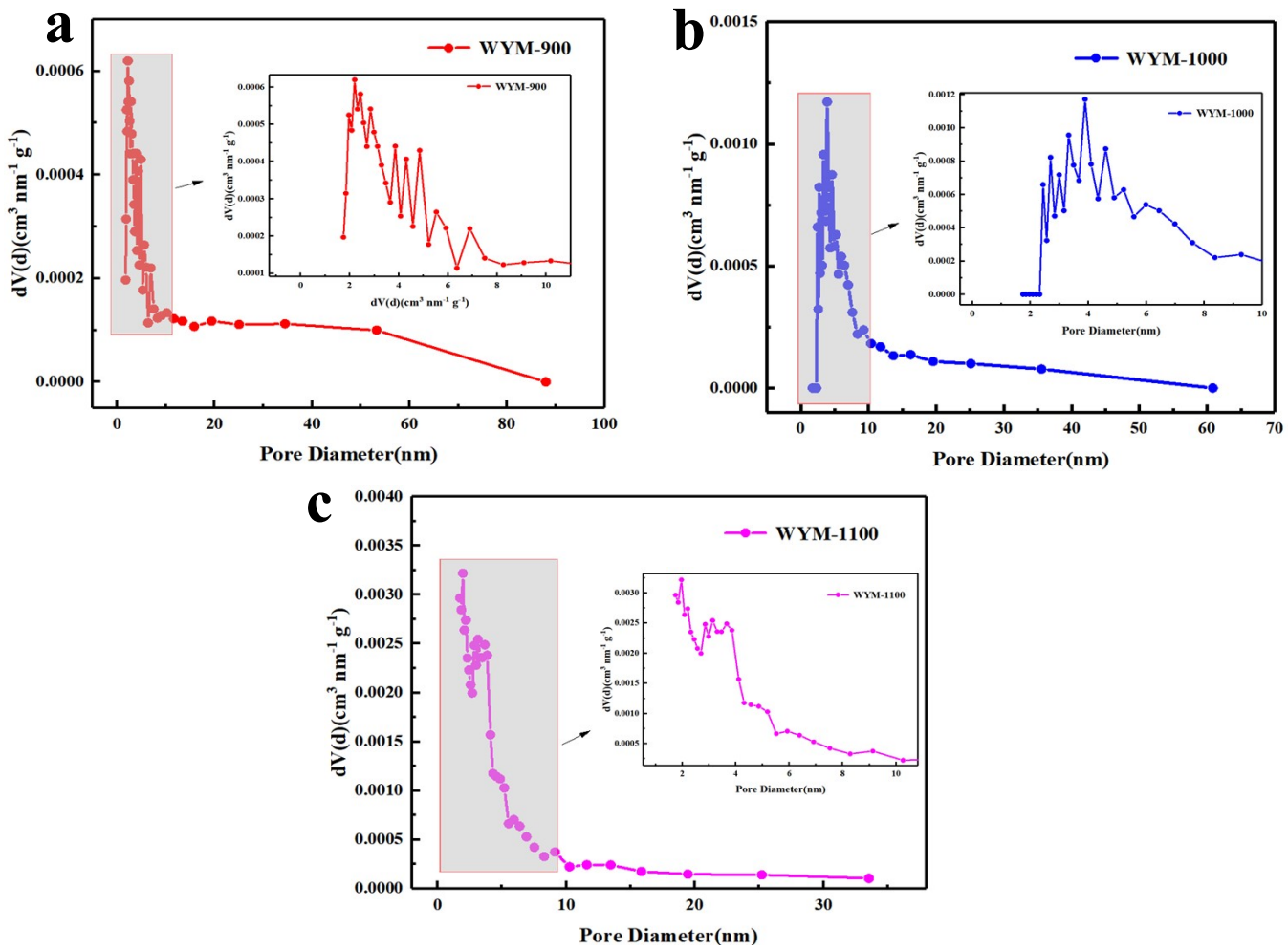

Fig. S2. The pore size distributions of (a) WYM-900; (b) WYM-1000 and (c) WYM-1100.

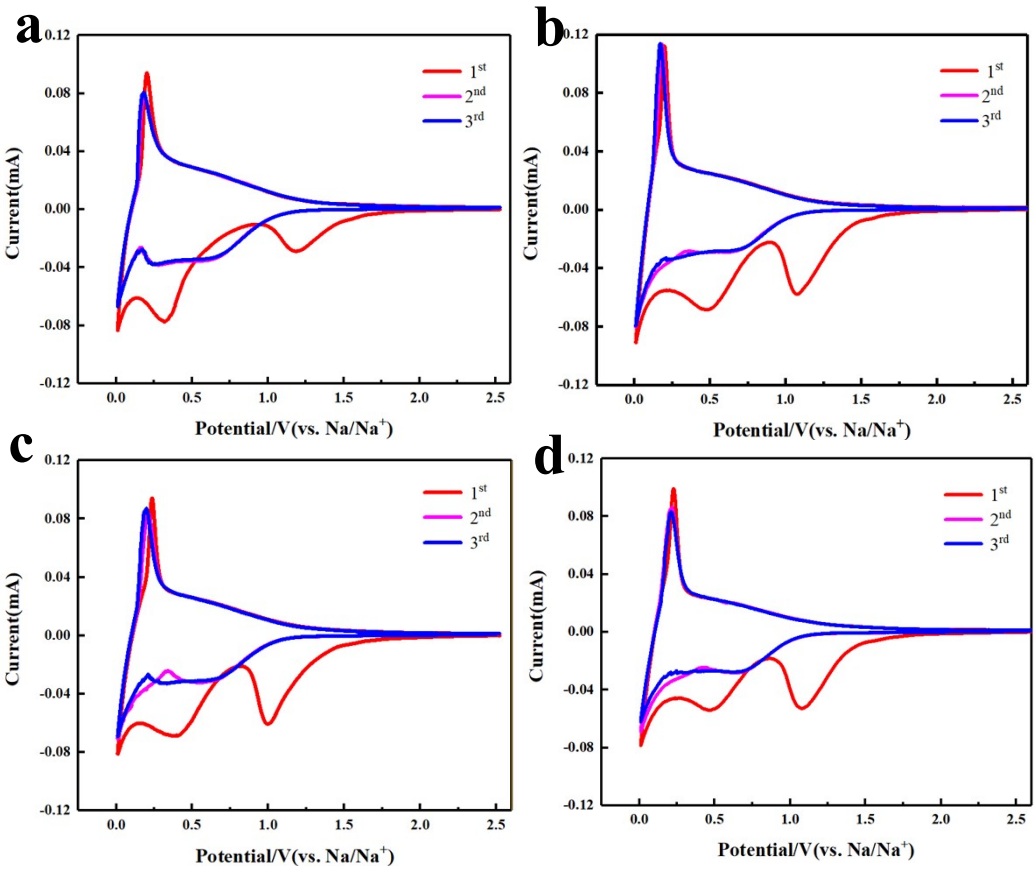

Fig. S3. Cyclic voltammetry (CV) curves. (a) WYM-900; (b) WYM-1000; (c) WYM-1100 and (d) WYM-1200.

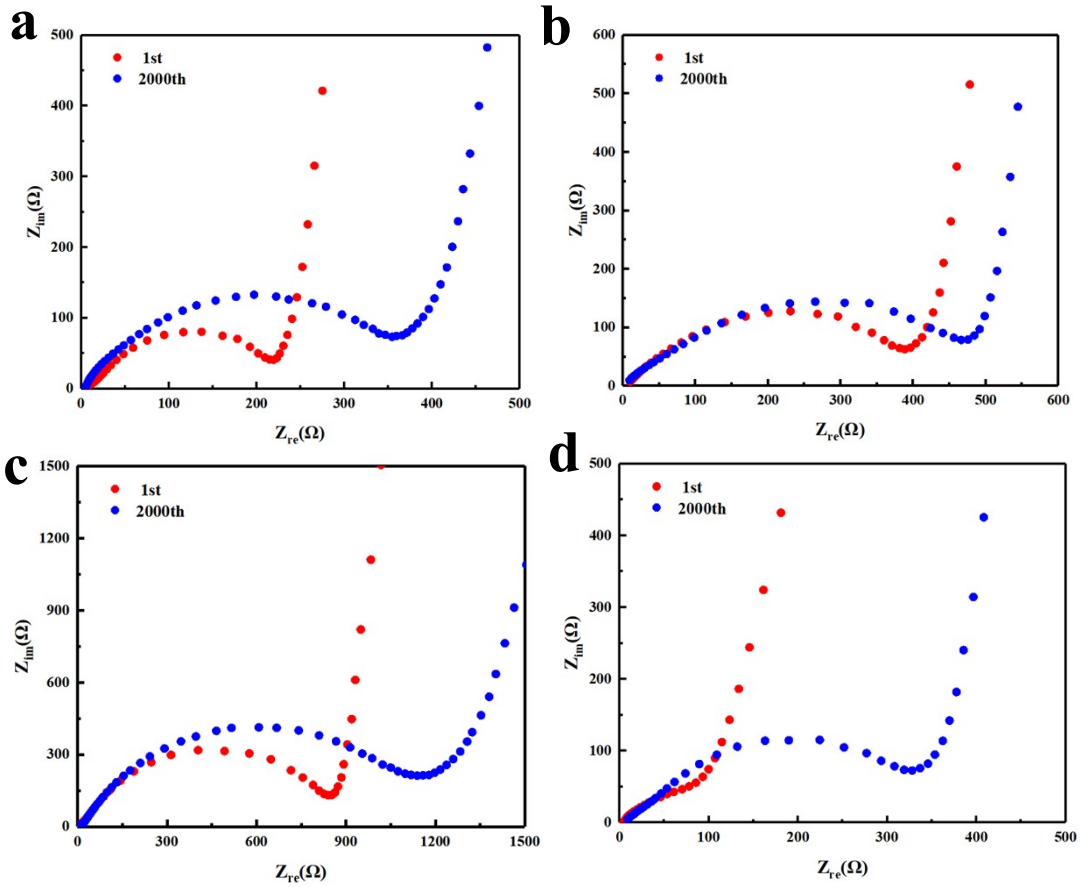

Fig. S4. Nyquist impedance data of WYM. (a) WYM-900; (b) WYM-1000; (c) WYM-1100 and (d) WYM-1200.

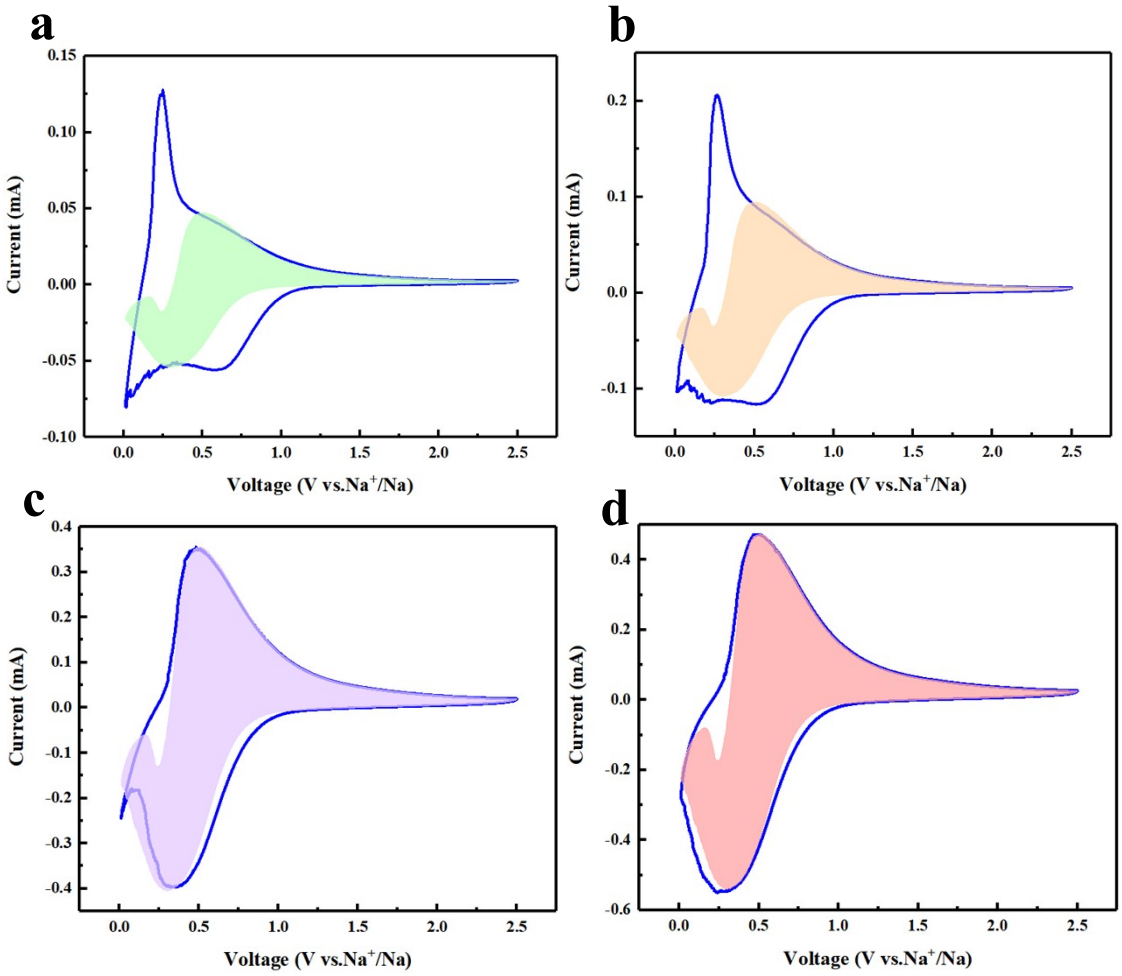

Fig. S5. Capacitive contribution (colour area) to charge storage at differents scan rate of WYM-1200. (a) 0.2 mV s^{-1}; (b) 0.4 mV s^{-1}; (c) 1.5 mV s^{-1} and (d) 2.0 mV s^{-1}.