



Technical Data Sheet

ACS Material Nitrogen-doped Mesoporous Carbon spheres (NC)

1 – Preparation Method

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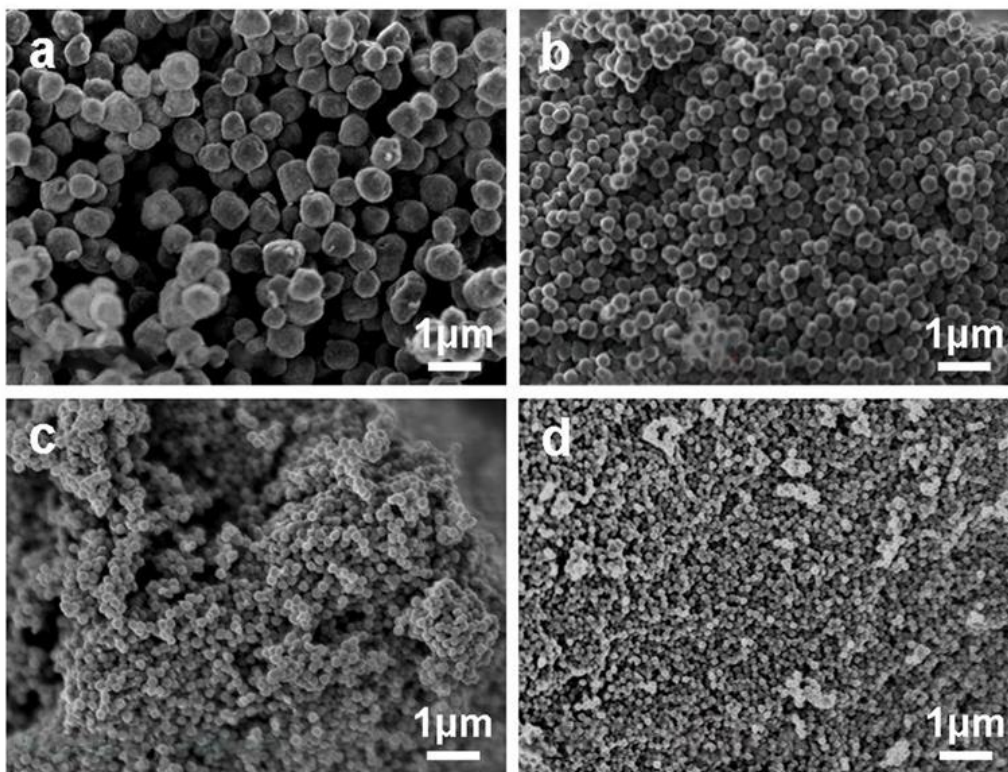
1. Preparation Method

Template method

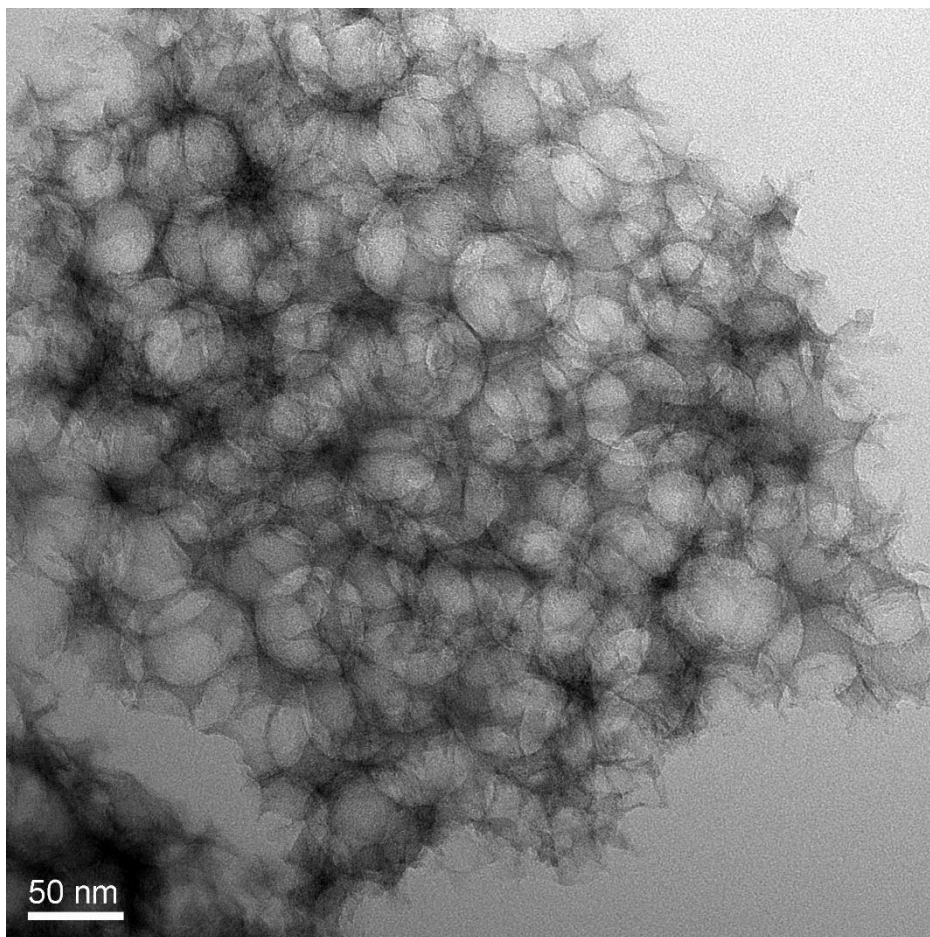
2. Characterizations

SKU	S _{BET} (m ² /g)	S _{t-Pot} (m ² /g)	S _{BJH} (m ² /g)	V _{micro} (cm ³ /g)	V _{meso} (cm ³ /g)	D _{average} (nm)	Particle interval (nm)	H (wt %)	C (wt %)	N (wt %)
CSNC1001	837	748	101	0.30	0.58	~4.2	650	2.85	87.18	5.34
CSNC2001	937	864	94	0.35	0.44	~3.3	350	3.31	86.02	5.48
CSNC3001	1063	1005	83	0.41	0.59	~3.8	200	3.24	85.00	5.39
CSNC4001	1041	1000	58	0.41	0.29	~2.2	120	2.67	84.53	5.56

S: Surface area; V: Volume; D: Diameter.



Typical SEM Image of ACS Material Nitrogen-doped Mesoporous Carbon spheres (NC)
(a) CSNC1001,650nm, (b) CSNC2001,350nm, (c) CSNC3001,200nm, (d) CSNC1004,120nm.



Typical TEM of ACS Material Nitrogen-doped Mesoporous Carbon spheres (NC)

3. Applications

Supercapacitor, Li-ion battery, Bio-medicine, Gas absorption and Catalysis, etc.

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