

Electronic Supplementary Information

Nitrogen-enriched double-shelled carbon/NiAl LDH hollow microspheres for excellent electrochemical performance

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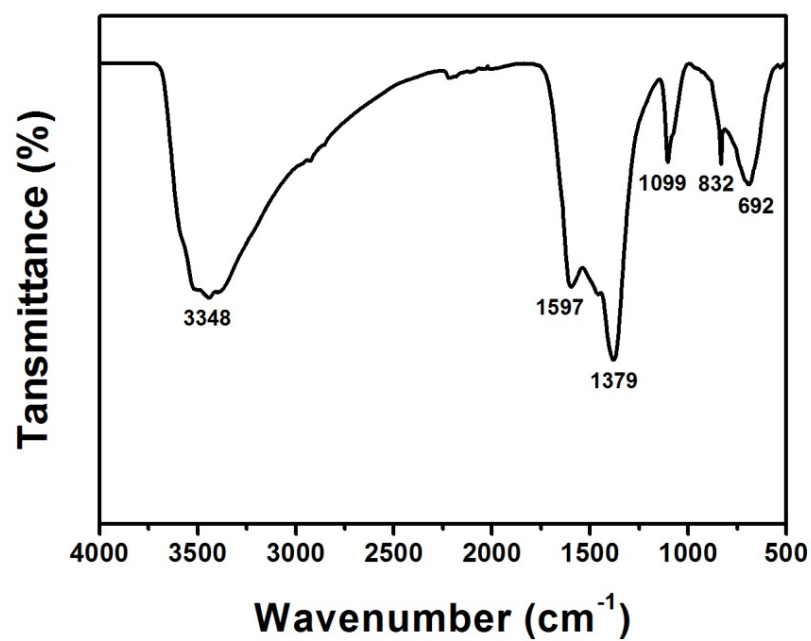


Fig. S1 IR spectrum of N-C@LDH hollow microspheres.

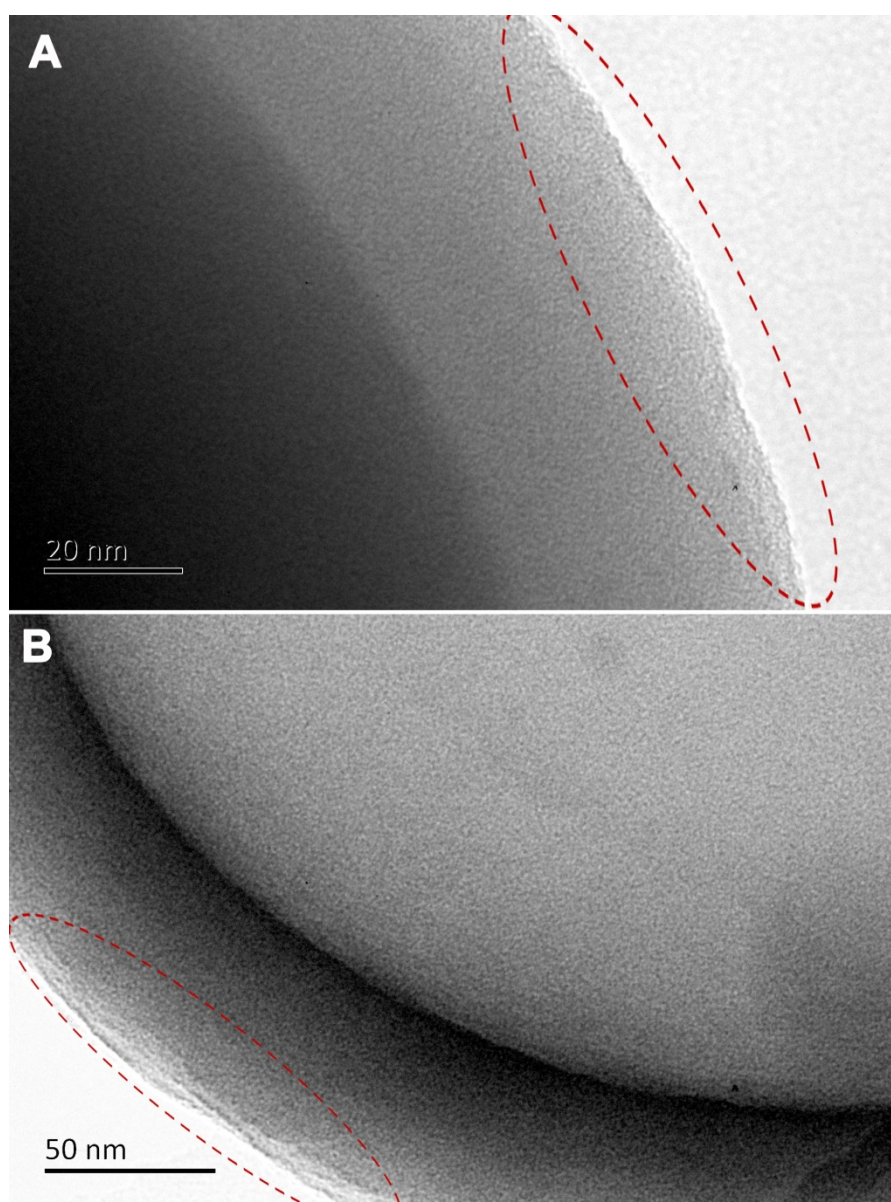


Fig. S2 Enlarged TEM images of SiO₂@C (A) and carbon hollow spheres (B).

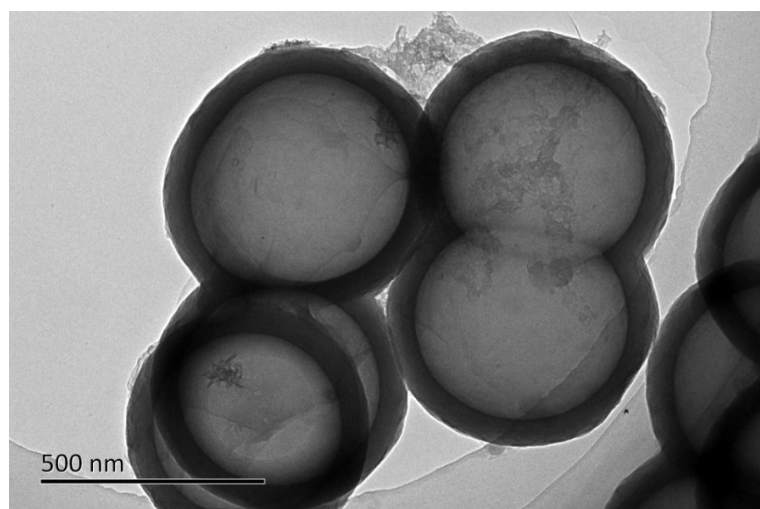


Fig. S3 TEM image of N-enriched carbon spheres.

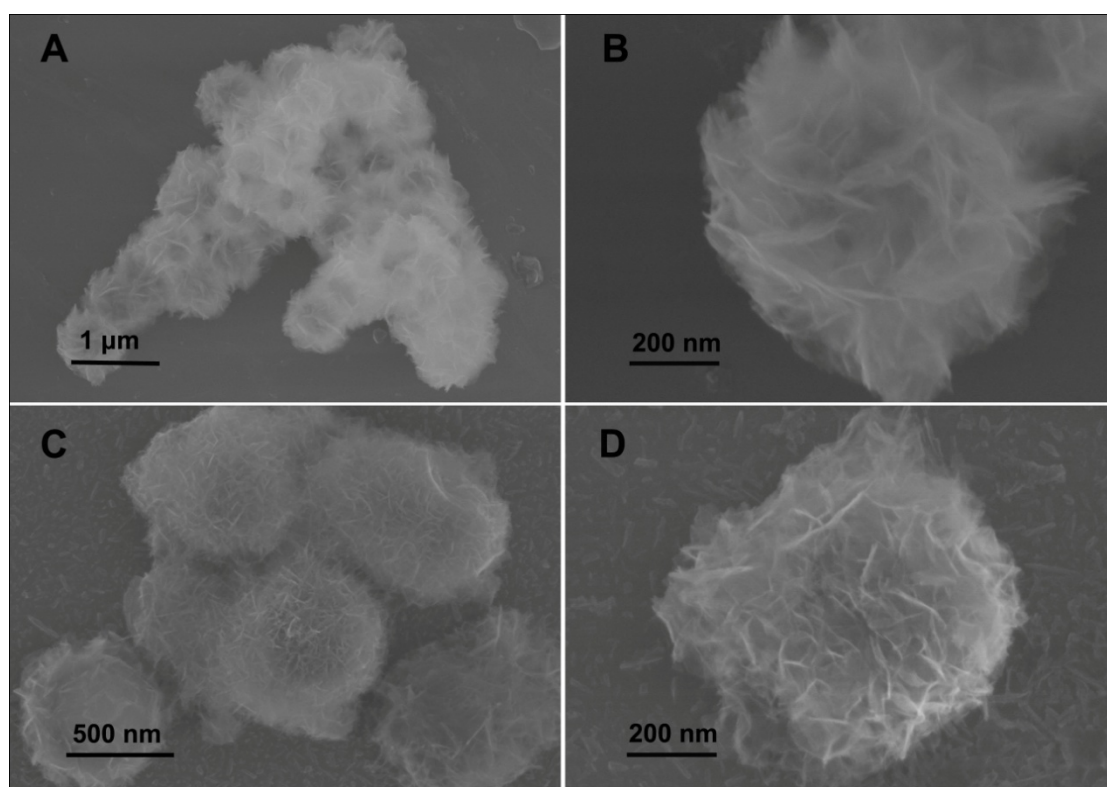


Fig. S4 SEM images of LDH HMS (A and B) and C@LDH HMS (C and D).

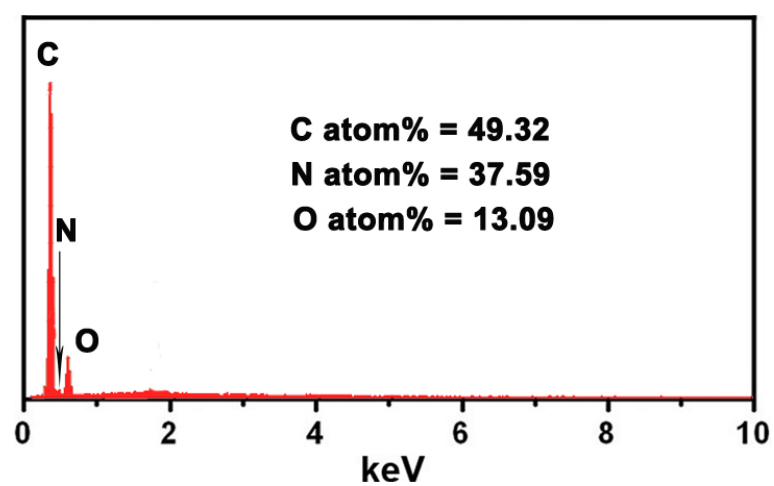


Fig. S5 EDS analysis of N-enriched carbon spheres.

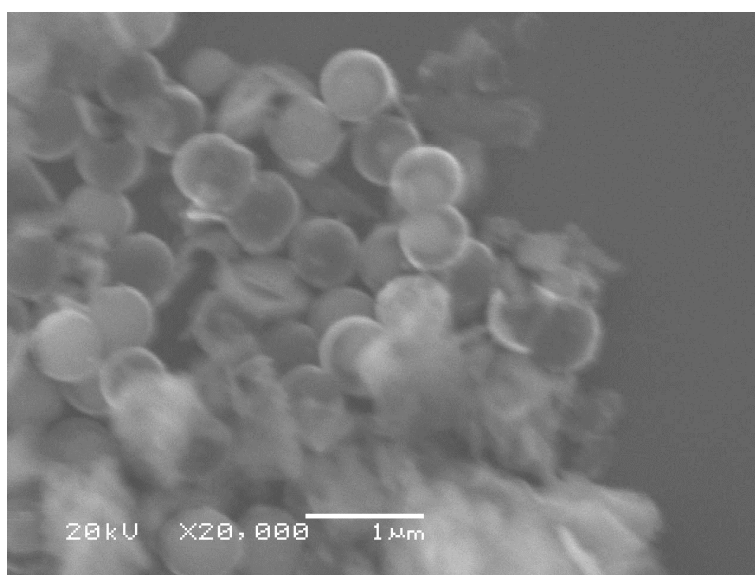


Fig. S6 SEM image of the product prepared under the same condition of C@LDH HMS just without the AlOOH sol layer deposited on carbon spheres.

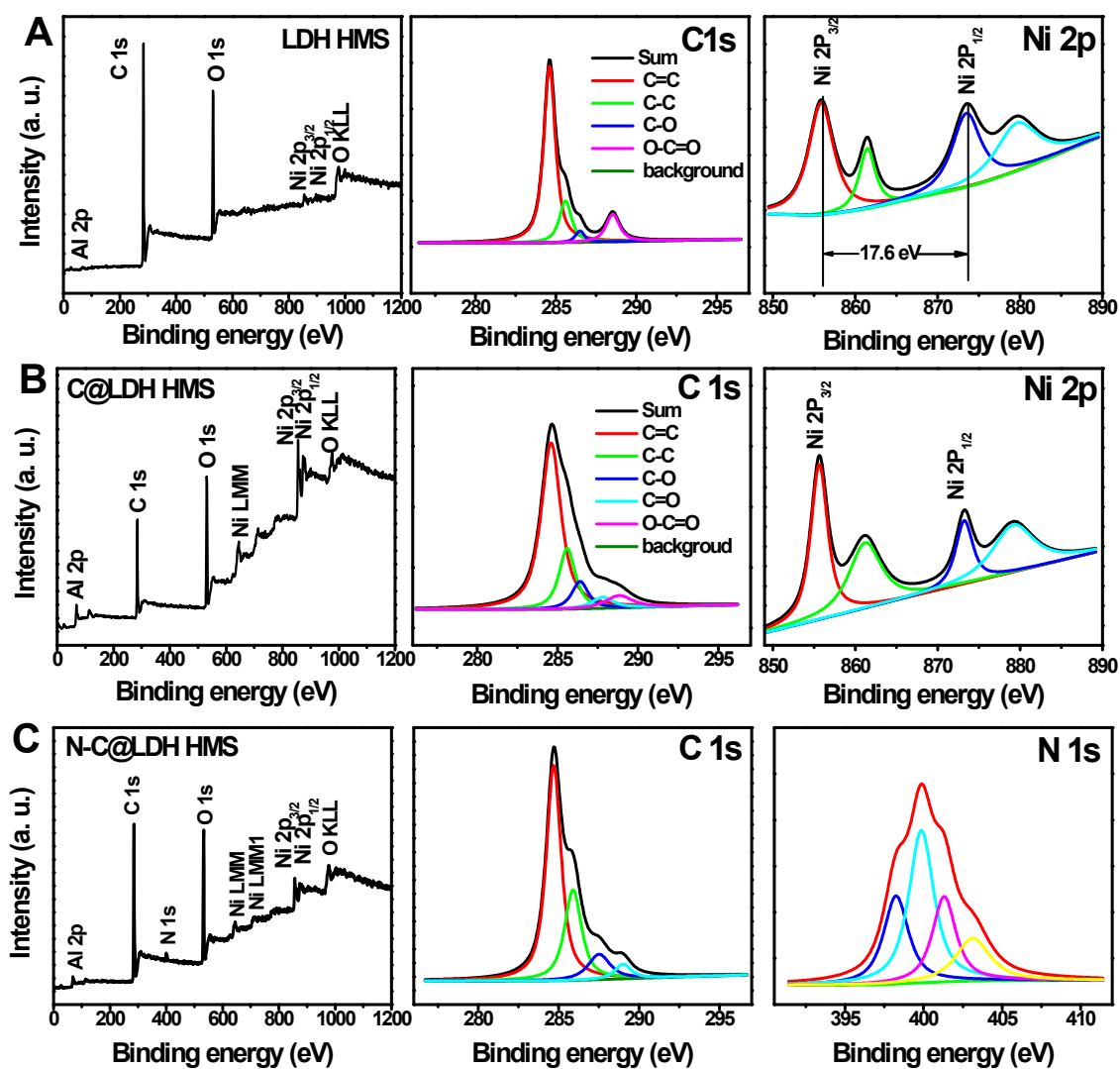


Fig. S7 Survey and element XPS spectra of LDH HMS (A), C@LDH HMS (B) and N-C@LDH HMS (C).

Table S1 The specific capacitance of as-prepared N-C@LDH HMS, C@LDH HMS and LDH HMS at different discharge current densities

Specific capacitance (F/g)	Different current density (A/g)					
	2	3	5	6	8	10
N-C@LDH HMS	1699.46	1560	1350	1284.32	1143.78	997.3
C@LDH HMS	1264.32	1234.05	1143.24	1086.49	968.65	843.24
LDH HMS	460.54	427.3	377.03	361.62	322.16	297.3