

Supporting Information

Ultrasensitive simultaneous detection of ascorbic acid, dopamine, uric acid and acetaminophen on a graphitized porous carbon- modified electrode

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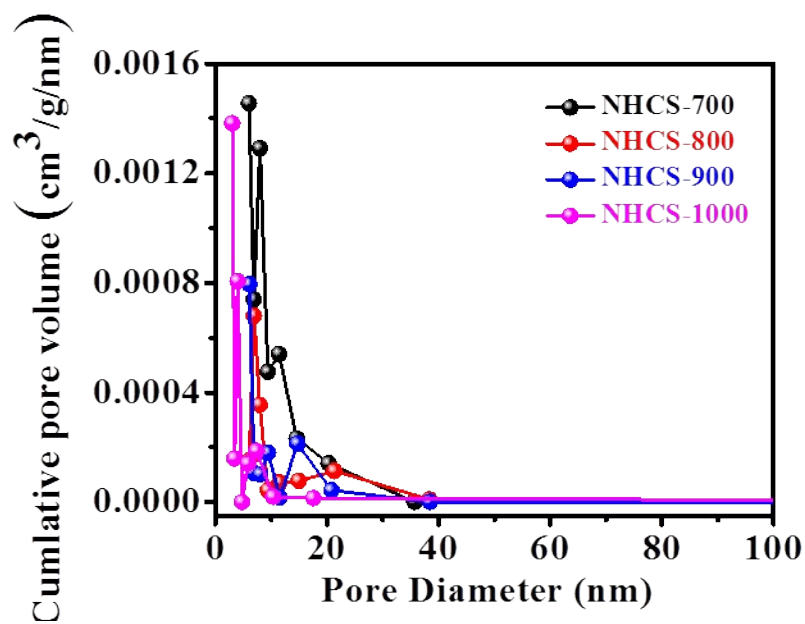


Figure S1. Pore size distribution curves analysis from Barrett–Joyner–Halenda method of NHCS-700, NHCS-800, NHCS-900 and NHCS-1000 samples.

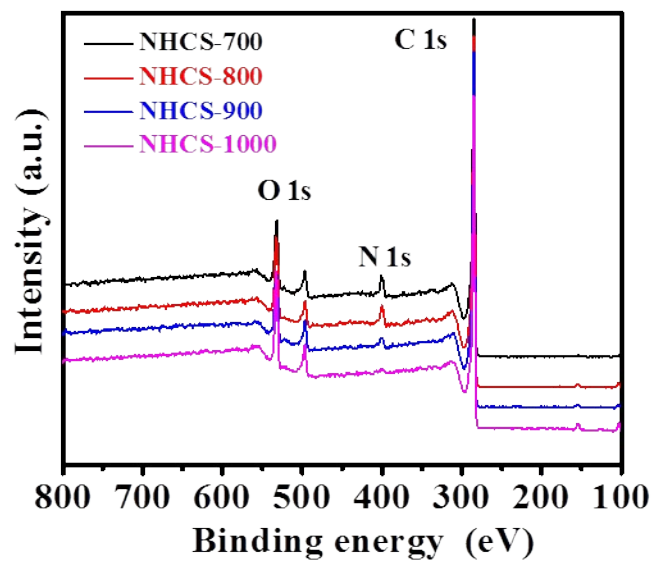


Figure S2. XPS survey spectrum of NHCS-700, NHCS-800, NHCS-900 and NHCS-1000 samples in the range of 100-800 eV.

Table S1. The carbon, nitrogen and oxygen atomic percentages of NHCS-700, NHCS-800, NHCS-900 and NHCS-1000 samples.

S. No	N-doped hollow carbon samples	Carbon (C) 285 eV (atomic %)	Nitrogen (N) 401 eV (atomic %)	Oxygen (O) 532 eV (atomic %)
1	NHCS-700	86.86	4.69	8.45
2	NHCS-800	85.88	4.56	9.56
3	NHCS-900	88.47	2.91	8.62
4	NHCS-1000	87.12	1.24	11.64

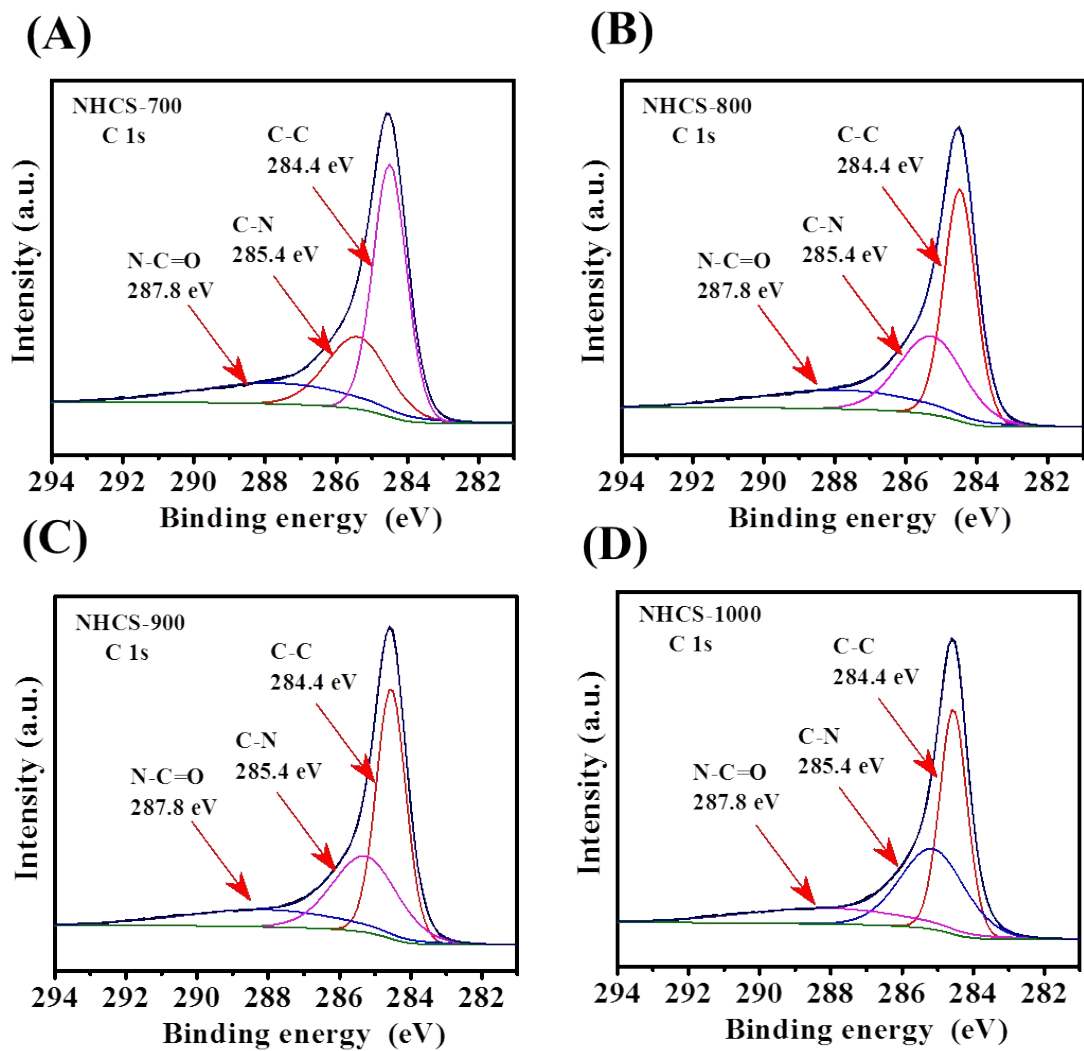


Figure S3. C 1s spectra of (A) NHCS-700, (B) NHCS-800, (C) NHCS-900 and (D) NHCS-1000 samples in the range of 294-281 eV.

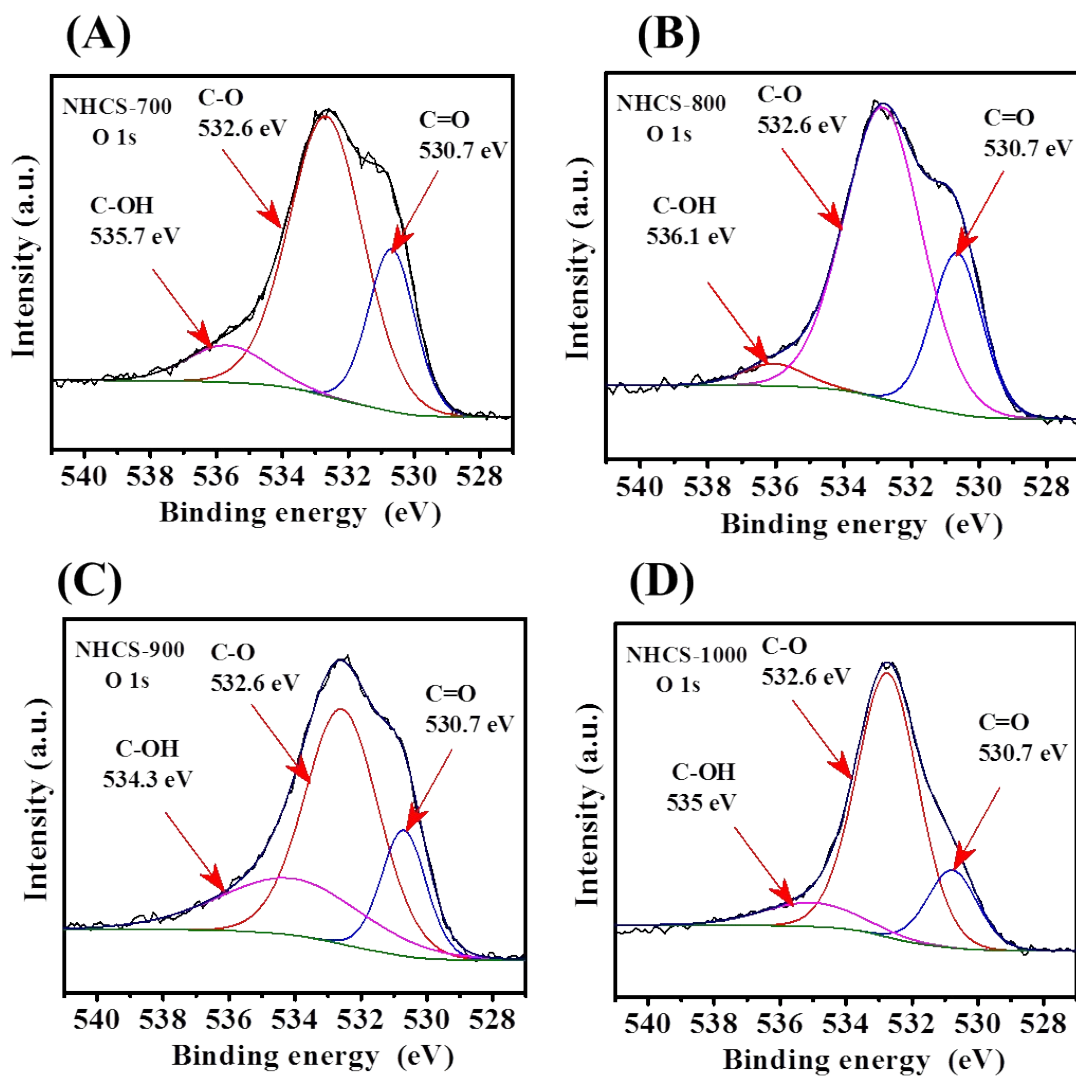


Figure S4. O 1s spectra of (A) NHCS-700, (B) NHCS-800, (C) NHCS-900 and (D) NHCS-1000 samples in the range of 541-527 eV.

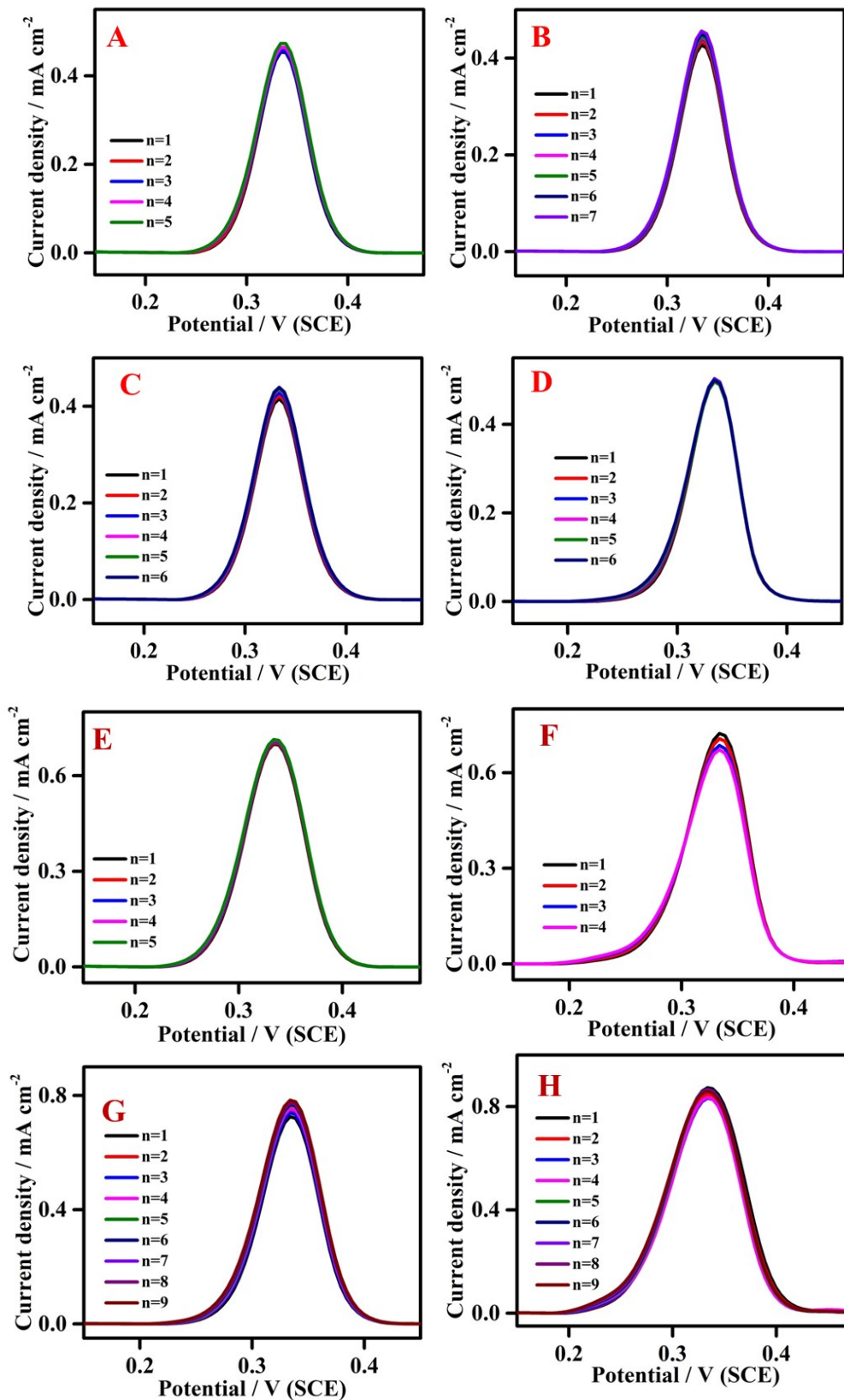


Figure S5. (A, B-Human serum 1; C, D-Human serum 2; E, F-Human serum 3 and G, H-Human serum 4) Real sample analysis human serum for the detection AC. DPV parameters:

Step potential=0.0050 V; Modulation amplitude=0.0250 V; Modulation time=0.20 sec and Interval time=0.5 sec.

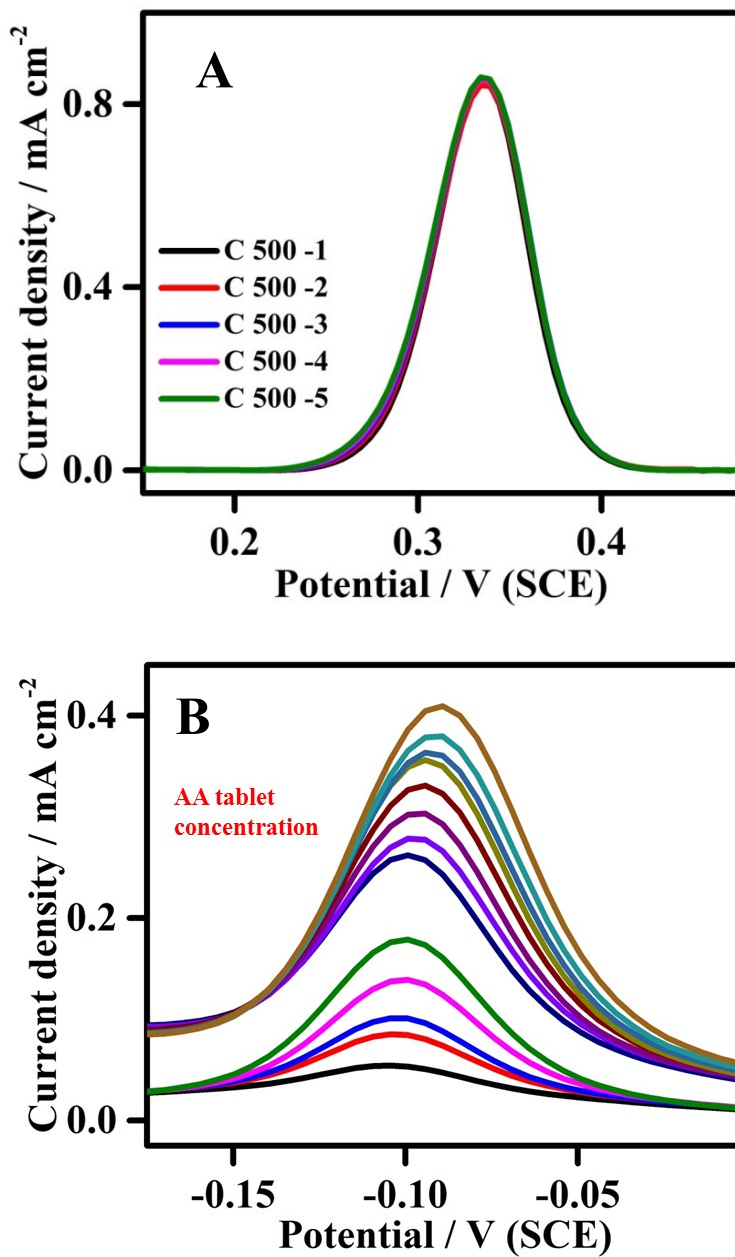


Figure S6. (A and B) Real sample analysis of PA and AA in pharmaceutical tablets.

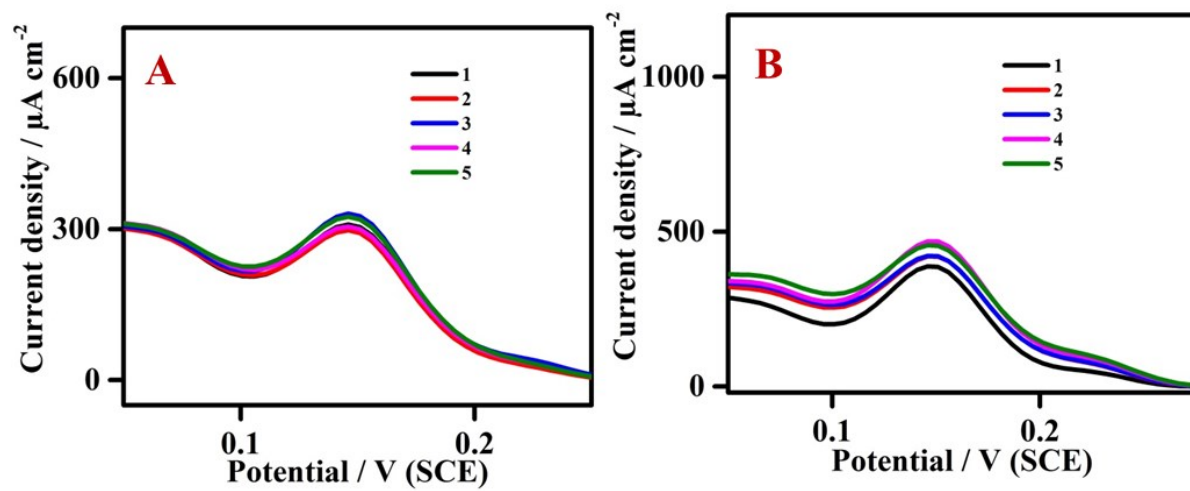


Figure S7. (A and B) Real sample analysis of DA by standard addition method.