

Supporting Information for

Spongy Nitrogen-Doped Activated Carbonaceous

Hybrid Derived from Biomass Material/Graphene

Oxide for Supercapacitor Electrodes

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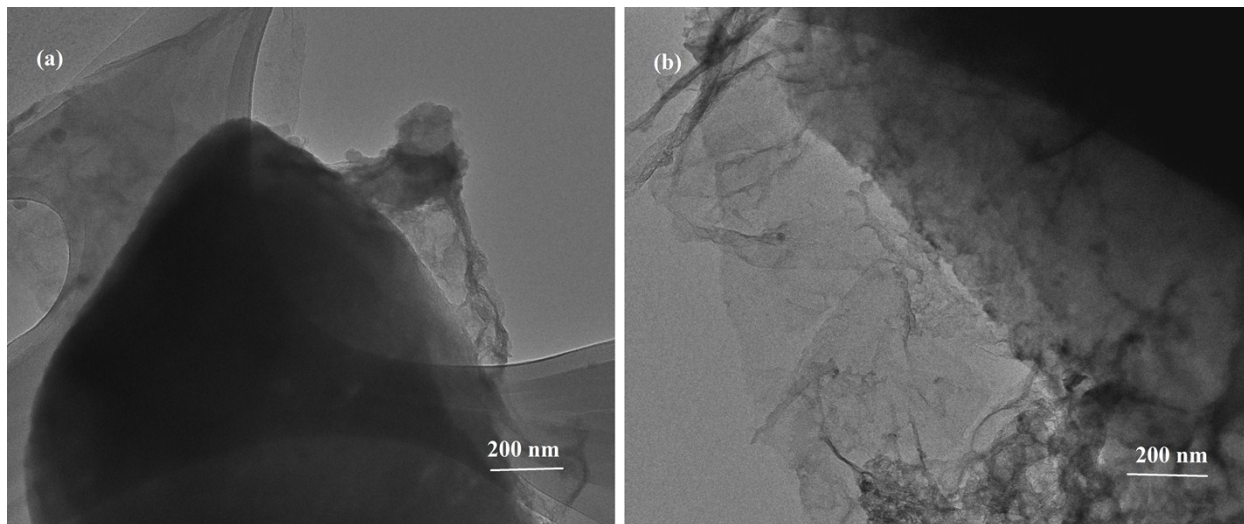


Figure S1. TEM images of (a) A-CRGO-1, (b) A-CRGO-4

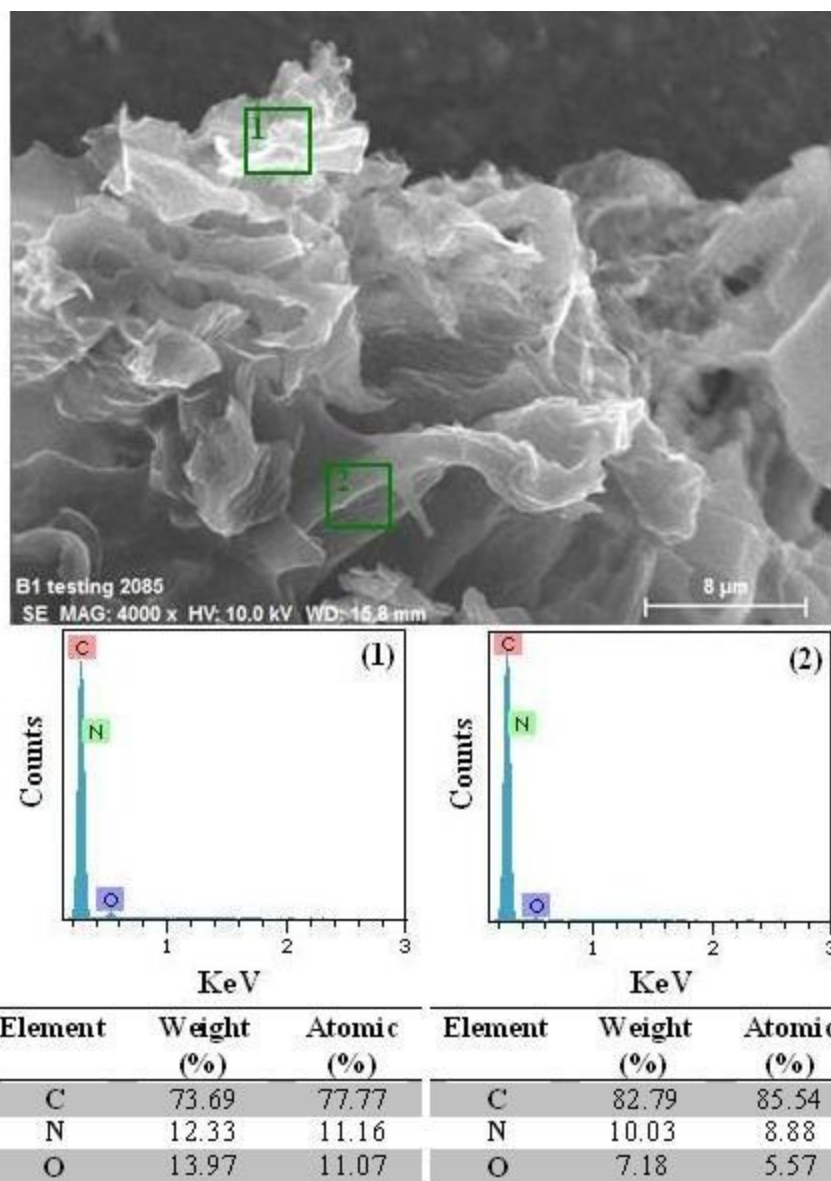


Figure S2. EDX analysis of NA-CRGO-1at two different zons; 1) Graphene 2) Carbon

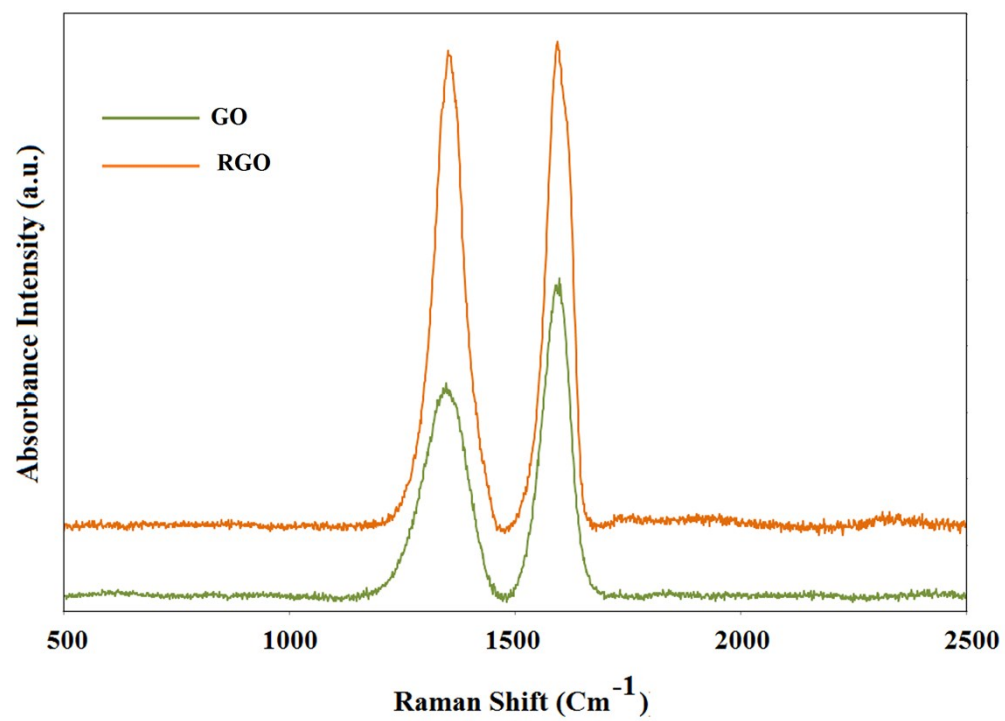


Figure S3. The Raman spectra of GO and RGO

Table S1. Carbon, hydrogen, oxygen and nitrogen contents (%) in AC, A-CRGO and NA-CRGO samples obtained using the elemental analysis (CHN)

Sample	C	H	N	O	N/C
AC	57.950	2.321	0.243	39.486	0.0042
A-CRGO-1	77.565	1.232	0.164	21.039	0.0021
A-CRGO-4	63.331	2.006	0.290	34.373	0.0045
NA-CRGO-1	61.192	2.395	13.652	22.761	0.2231
NA-CRGO-4	59.218	2.625	10.215	27.942	0.1724

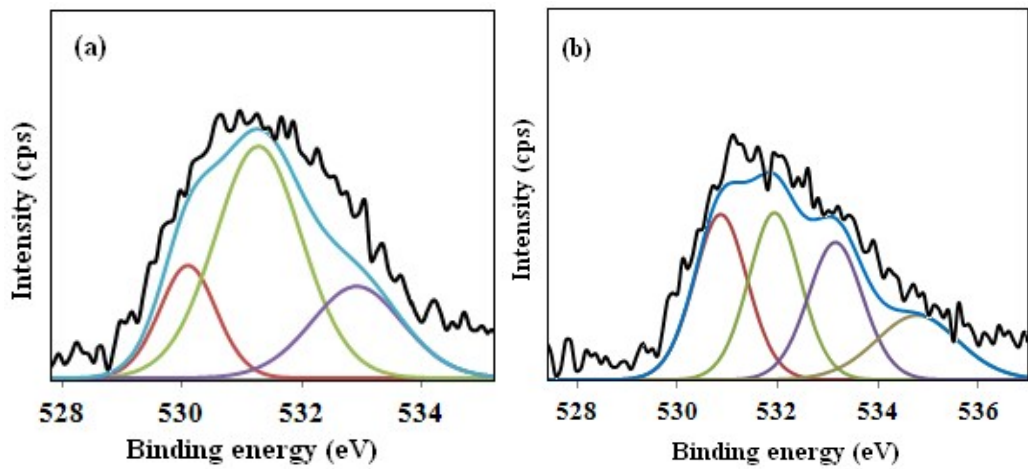


Figure S4. High-resolution O 1s spectra of a) NA-CRGO-1 and b) NA-CRGO-4