

Supporting Information

The Structural Evolution of 3D-RGO with Reduction Temperature and its Effect on Capacitive Deionization Performance

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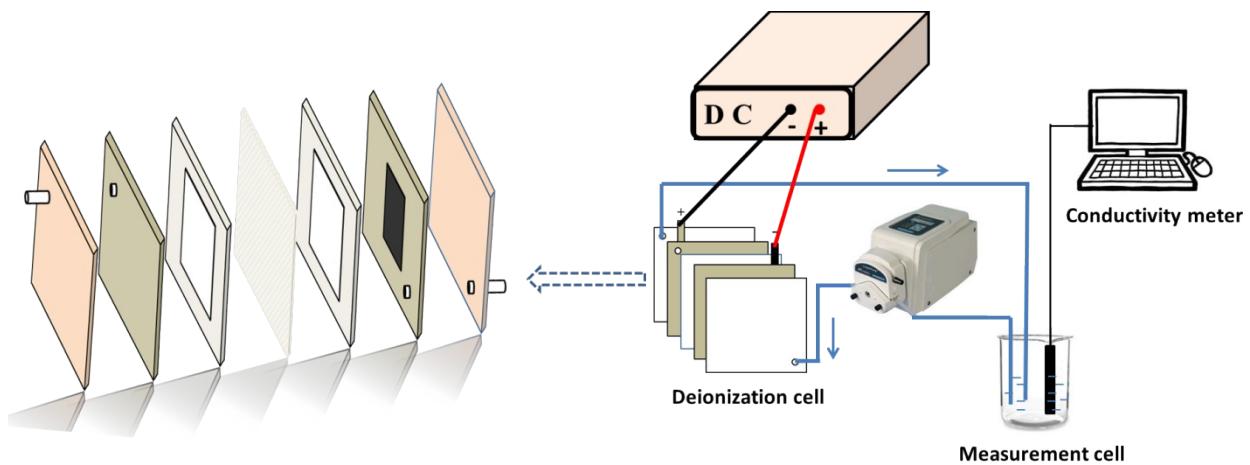


Fig. S1. The schematic of the CDI measuring system

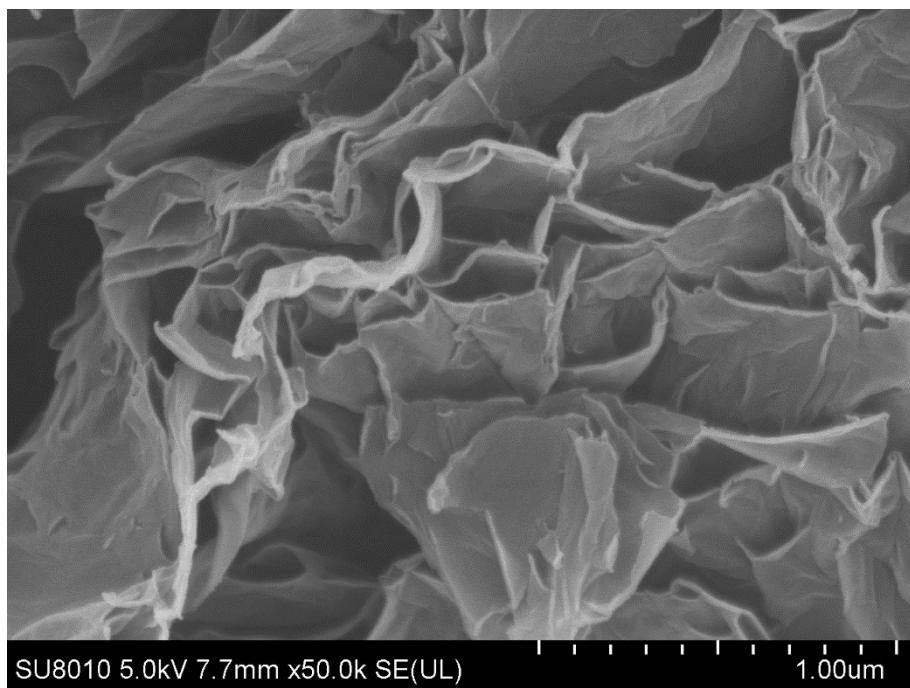


Fig. S2. SEM images of RGO-650 °C

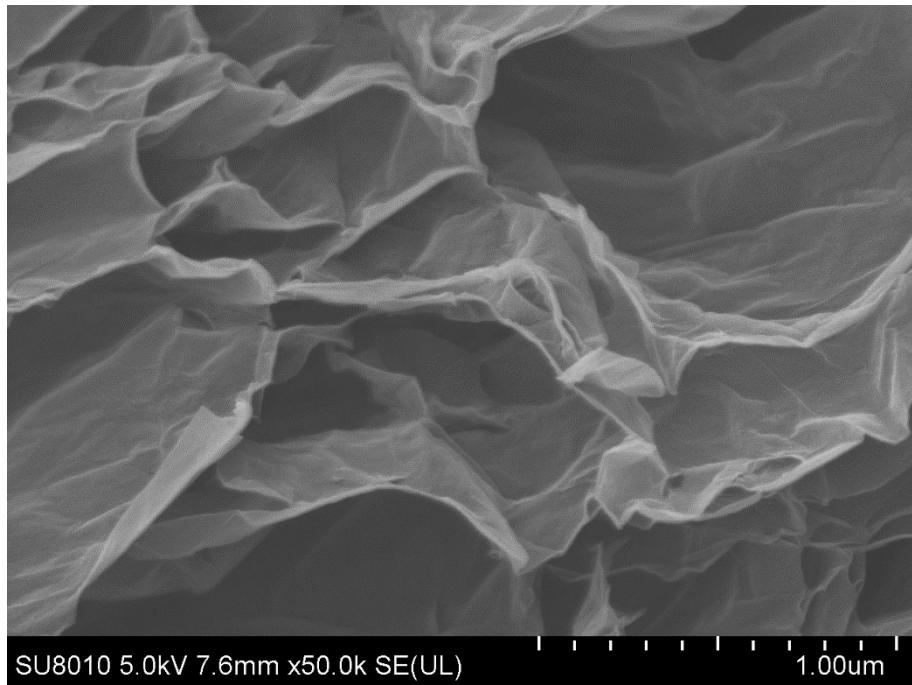


Fig. S3. SEM images of RGO-850 °C

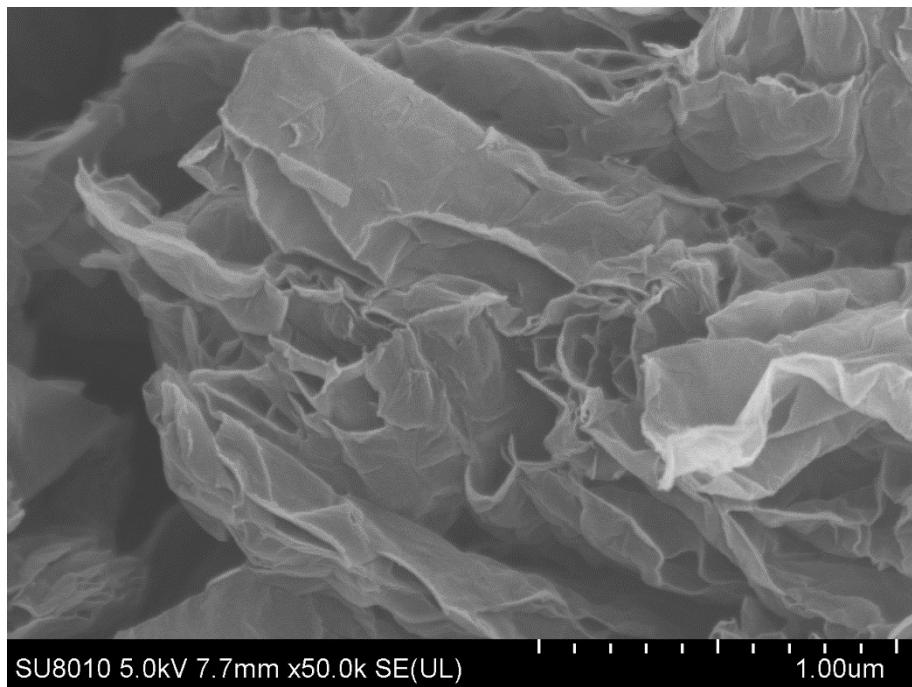


Fig. S4. SEM images of RGO-1050 °C

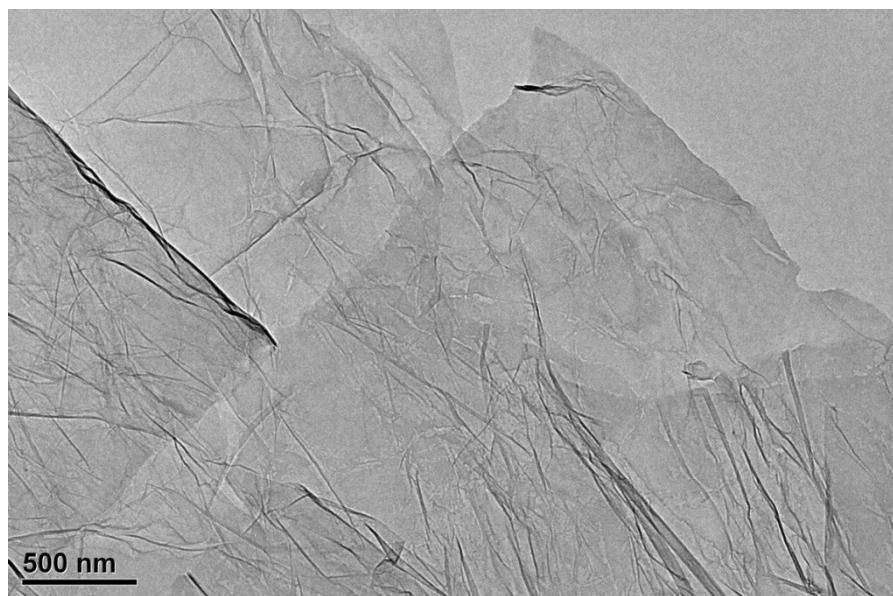


Fig. S5. TEM images of RGO-650 °C

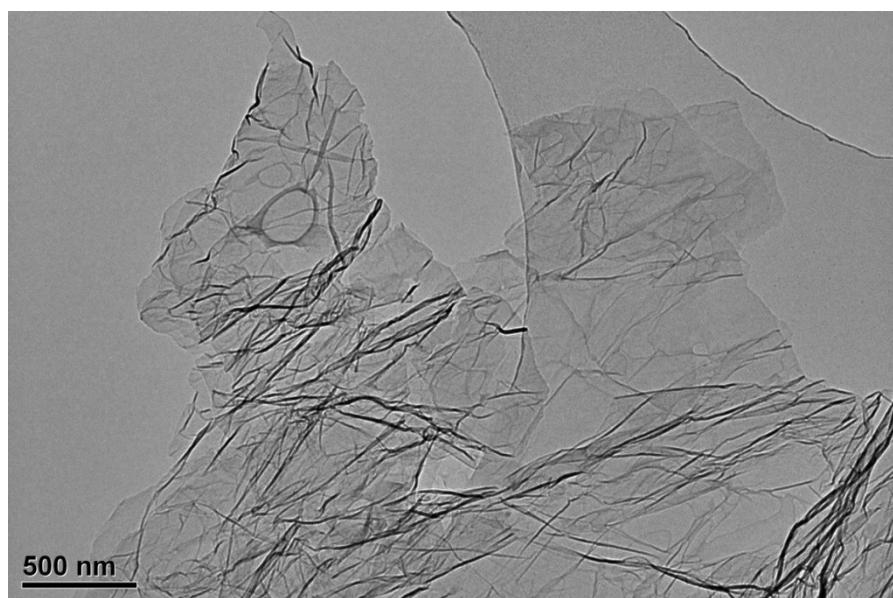


Fig. S6. TEM images of RGO-850 °C

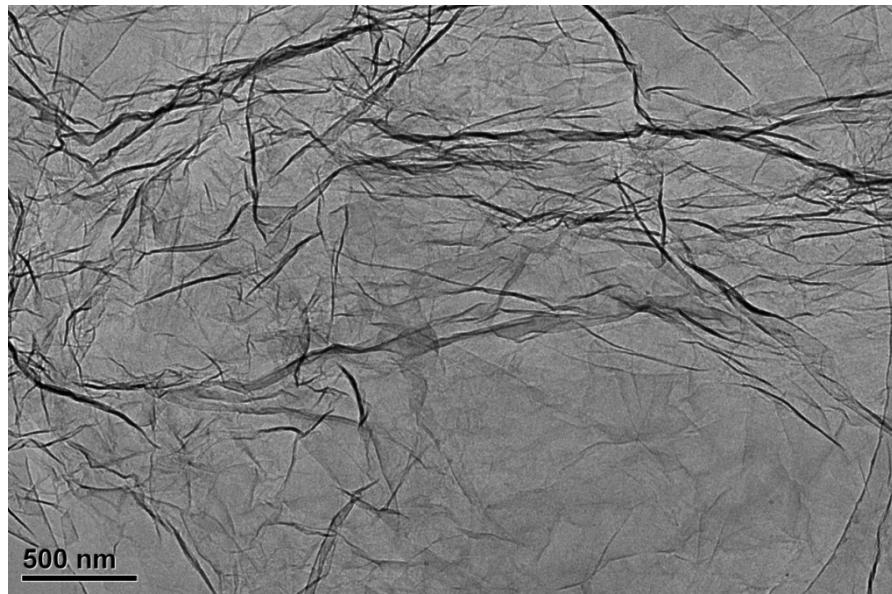


Fig. S7. TEM images of RGO-1050 °C

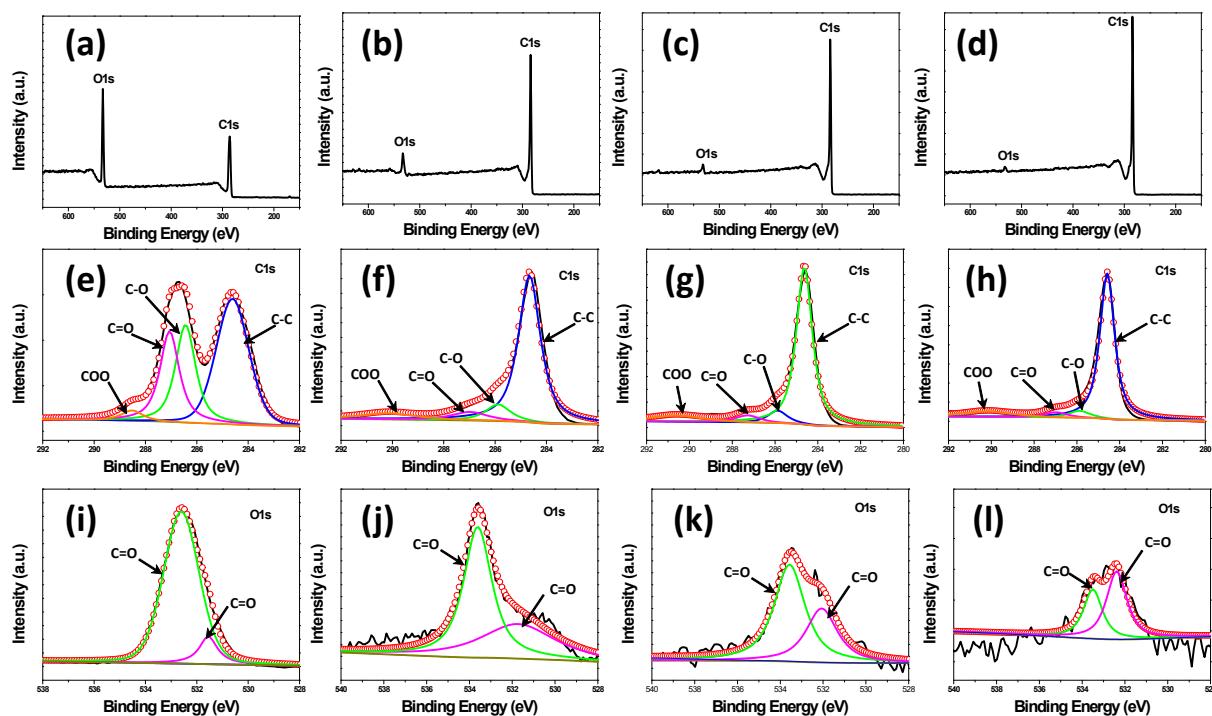


Fig. S8. XPS spectra of (a, e, i) GO; (b, f, j) RGO-650 °C; (c, g, k) RGO-850 °C; (d, h, l) RGO-1050 °C.

Table S1. The elemental composition of GO, RGO-650, RGO-850, and RGO-1050 by XPS analysis.

Sample	C (%)	O (%)	C/O
GO	69.64	30.36	2.29
RGO-650	92.85	7.15	12.98
RGO-850	96.04	3.96	24.25
RGO-1050	98.25	1.75	56.14

Table S2. The compositional analysis and C/O ratio of GO, RGO-650, RGO-850, and RGO-1050 by XPS.

	Carbon atoms %			
	C-C	C-O	C=O	C(O)O
GO	52.66	22.58	20.56	4.2
RGO-650	74.51	10.41	7.26	7.82
RGO-850	76.70	7.54	5.57	10.19
RGO-1050	78.93	5.72	4.82	10.52