Supplementary information

Post-heating effects on the physical and electrochemical capacitive properties of reduced graphene oxide paper

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Department of Mechanical Engineering, Yonsei University, 50 Yonsei-ro, Seodaemungu, Seoul 120-749, KOREA **Table S1** I_D/I_G ratio of rGO papers annealed at different temperatures.

Annealing temperature	I_D/I_G
RT	1.07
200°C	1.095
400°C	1.117
600°C	1.121
800°C	1.193
1000°C	1.200



Fig. S1 XRD patterns of RT and 1000 °C annealed rGO papers.



Fig. S2 Surface morphology of GO and rGO papers annealed at different temperatures.



Fig. S3 Nitrogen adsorption/desorption isotherm of rGO paper annealed at 200° C and 1000° C and pore size distribution in inset, further demonstrate the porous structure with high surface area.



Fig. S4 XPS scans for the different temperature annealed rGO papers.



Fig. S5 Raman Spectra of rGO paper annealed at 200°C and 1000°C in argon and argon + hydrogen gas.



Fig. S6 Cyclic voltammetric (CV) behavior of rGO paper annealed at 200 °C in 1M H₂SO₄.



Fig. S7 Ragone plots of the samples annealed at different temperature.