

Supporting Information

Introducing micropores into carbon nanoparticles synthesized via solution plasma process by thermal treatment and their charge storage properties in supercapacitors

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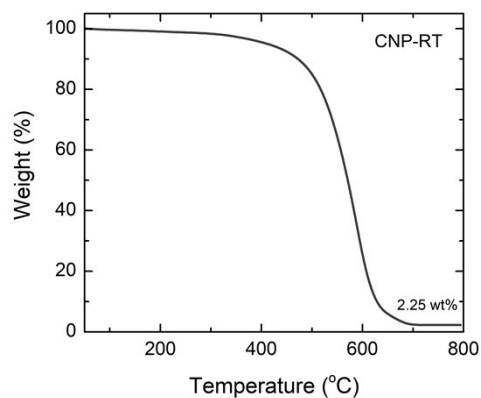


Fig. S1. TGA curve of CNP-RT in the temperature range of 50 to 800 °C at a heating rate of 10 °C min⁻¹ and under O₂ flow.

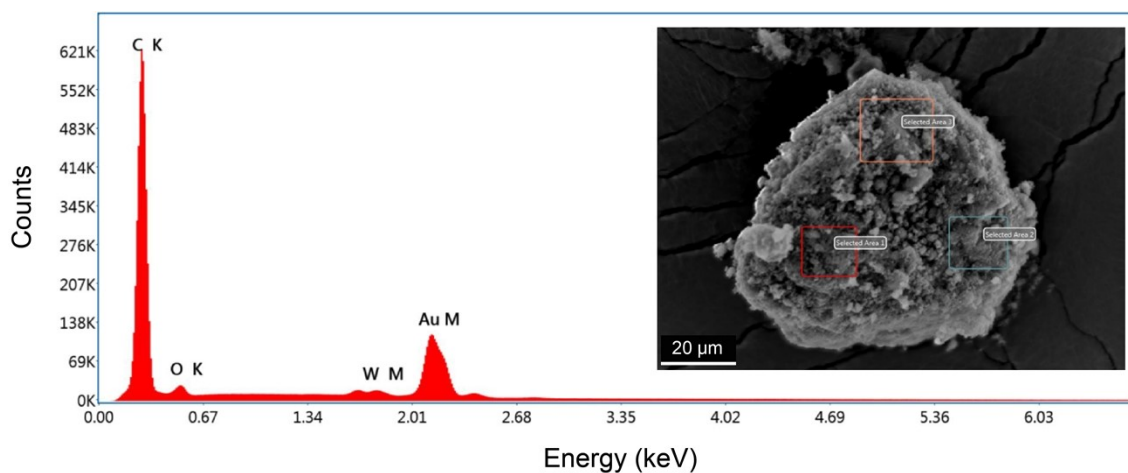


Fig. S2. EDS area analysis on three different areas of CNP-RT. The Au M signal was also detected due to the Au coating on the sample before measurements.

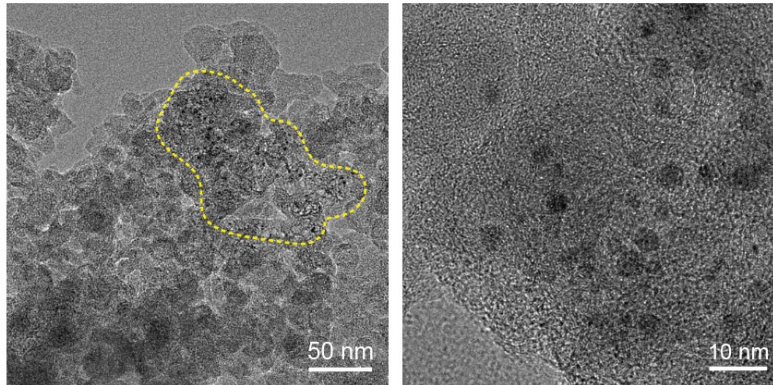


Fig. S3. TEM images of CNP-RT showing the presence of WC_{1-x} particles encapsulated in carbon particles.

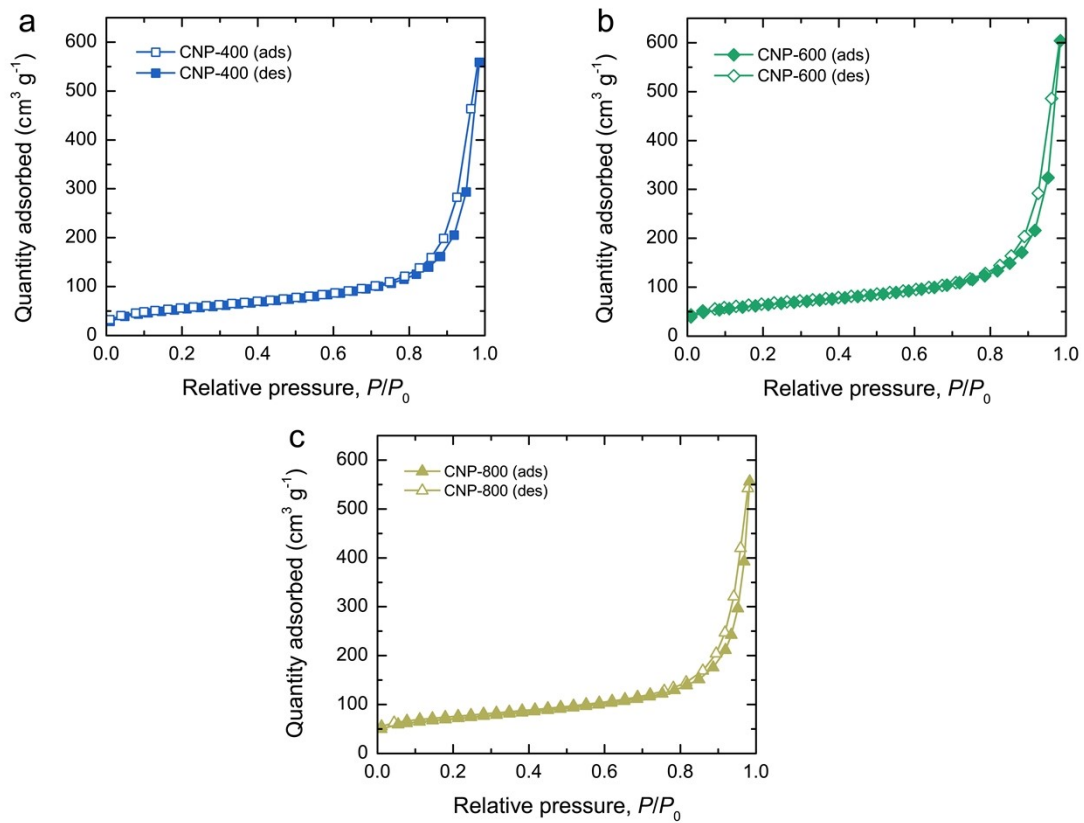


Fig. S4. N_2 adsorption-desorption isotherm of: (a) CNP-400, (b) CNP-600, and (c) CNP-800.

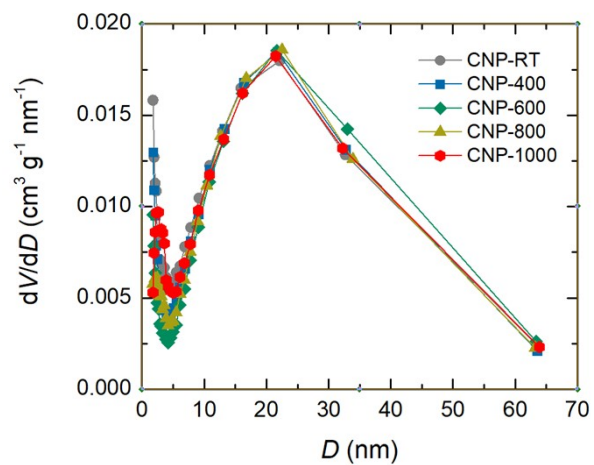


Fig. S5. BJH pore size distribution obtained from desorption isotherm of CNPs.

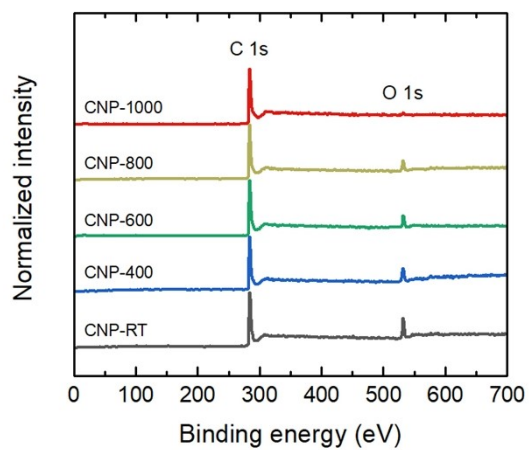


Fig. S6. XPS survey spectra of CNPs.

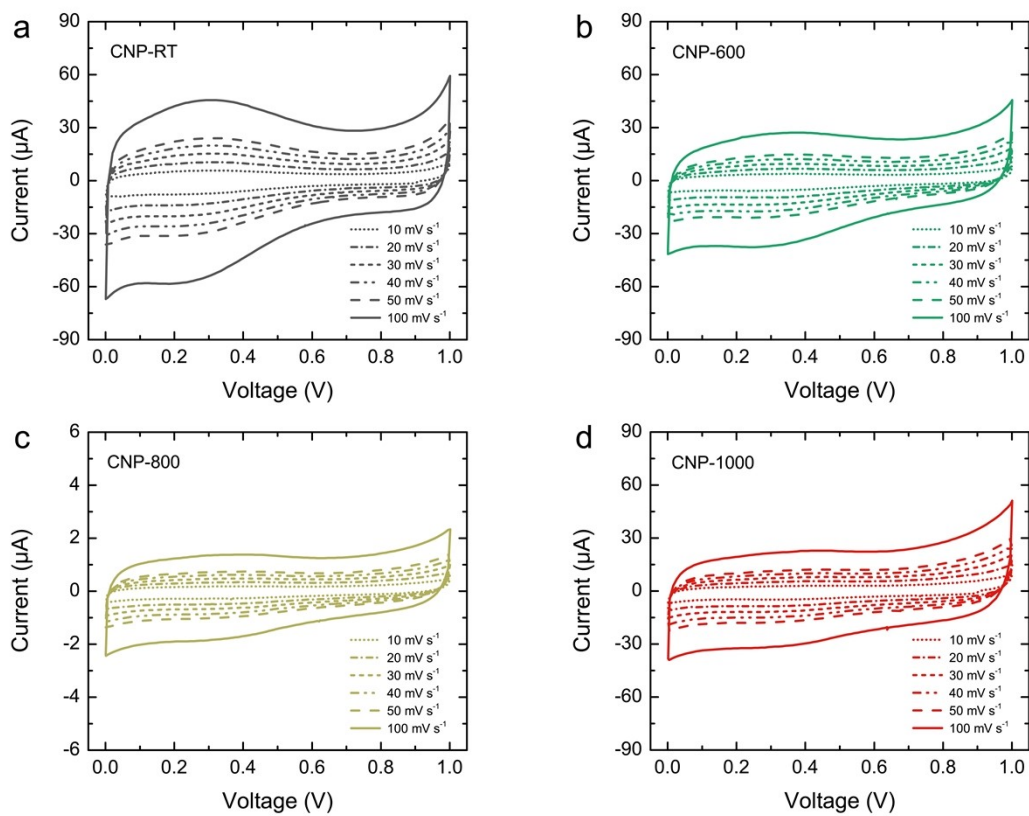


Fig. S7. CV curves at different scan rates from 10 to 100 mV s^{-1} : (a) CNP-RT, (b) CNP-600, (c) CNP-800, and (d) CNP-1000.

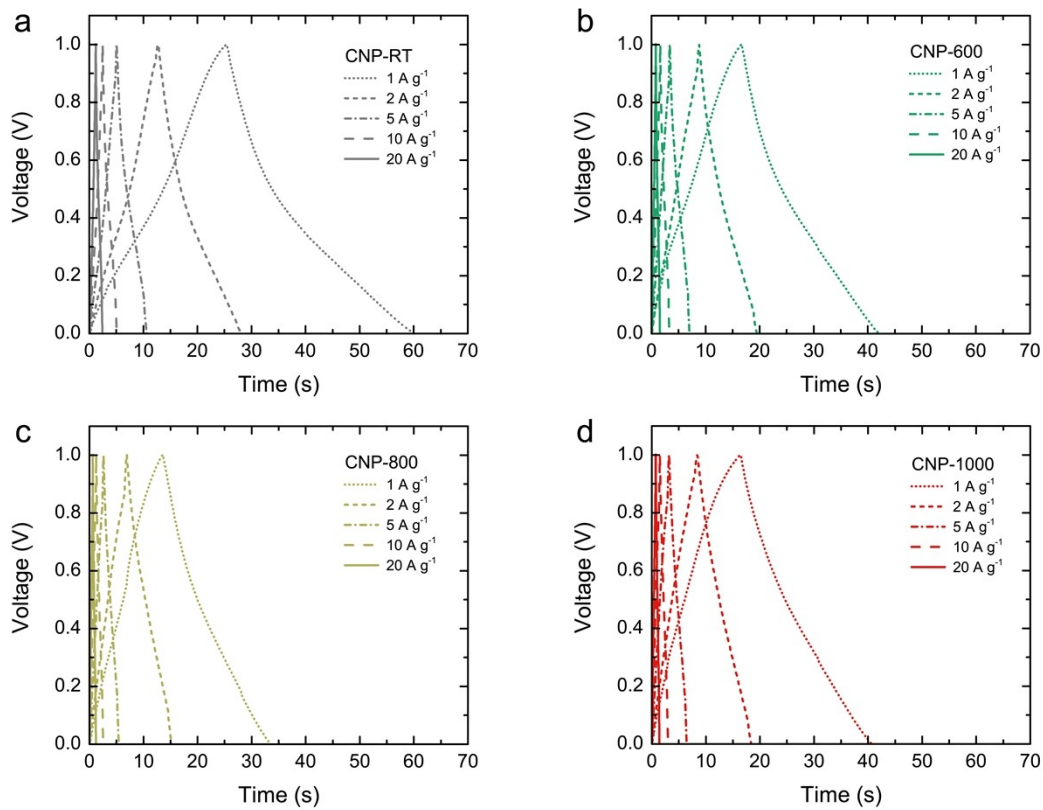


Fig. S8. GCD curves at different current densities from 1 to 20 A g⁻¹: (a) CNP-RT, (b) CNP-600, (c) CNP-800, and (d) CNP-1000.