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Supplementary Information

A Nickel Coordination Supramolecular Network Synergized with Nitrogendoped Graphene as Advanced Cathode to Significantly Boost the Rate Capability and Durability of Supercapacitors

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Fig. S1 TG curve of Ni-PDC



Fig. S2 The coordination environment of nickel element.



Fig. S3 (a) N_2 adsorption-desorption isotherm and (b) the pore diameter distribution curve (2-100nm) for the Ni-PDC@NG composite.



Fig. S4 The Ni 2p XPS spectra of Ni-PDC@NG composite.



Fig. S5 Electrochemical properties of the Ni-PDC electrode: (a) CV curves of the Ni-PDC electrode at varied scan rates; (b) GCD curves of the Ni-PDC electrode at different current densities; (c) Cycle performance of the Ni-PDC electrode at a current densities of 50 A g⁻¹ for 1000 cycles.



Fig. S6 The IR voltage drops of Ni-PDC electrode as a function of current density.



Fig. S7 CV curves of the activated carbon electrode and Ni-PDC@NG electrode at a scan rate of 50 mV s⁻¹.



Fig. S8 Nyquist plots for the Ni-PDC@NG // activated carbon device.