

Supporting Information

High-Performance Supercapacitor Electrode Based on Naphthoquinone-Appended Dopamine Neurotransmitter as an Efficient Energy Storage Material

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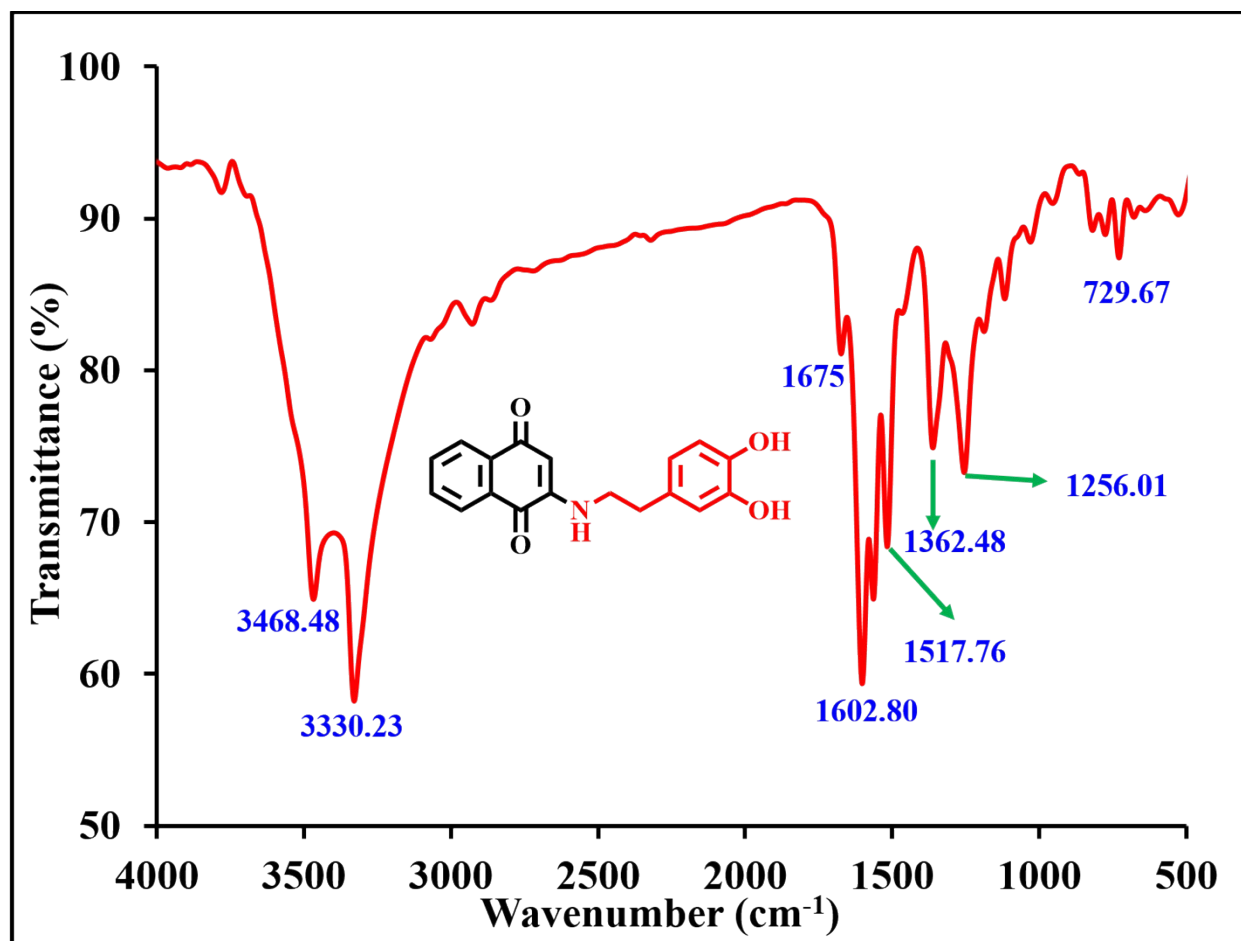


Fig. S1. FT-IR spectra of NQ-DP.

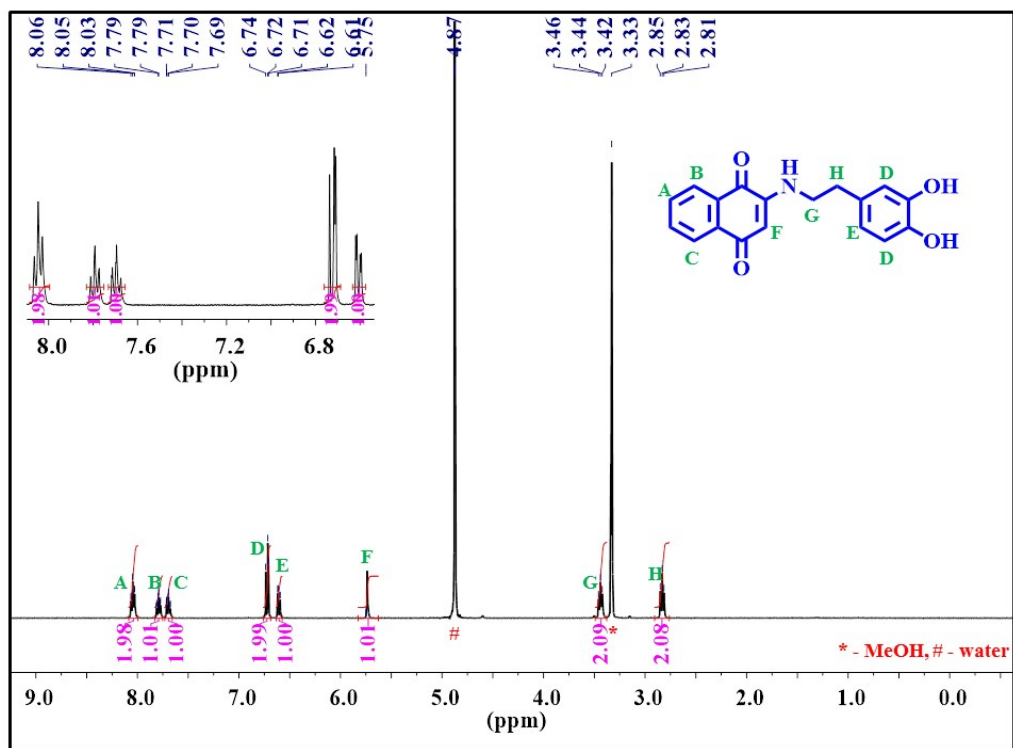


Fig. S2. ¹H NMR spectra of NQ-DP.

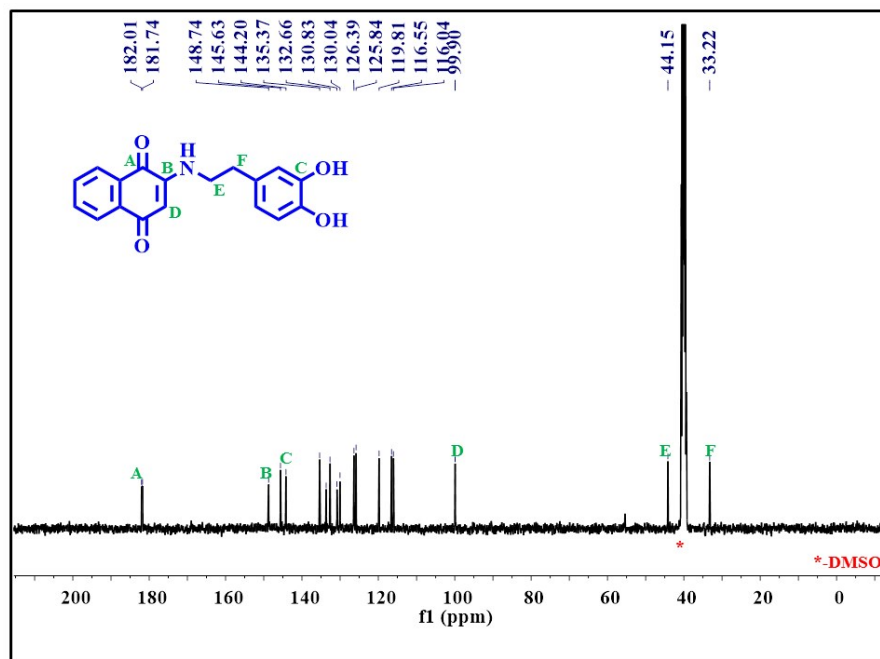


Fig. S3. ¹³C NMR spectra of NQ-DP.

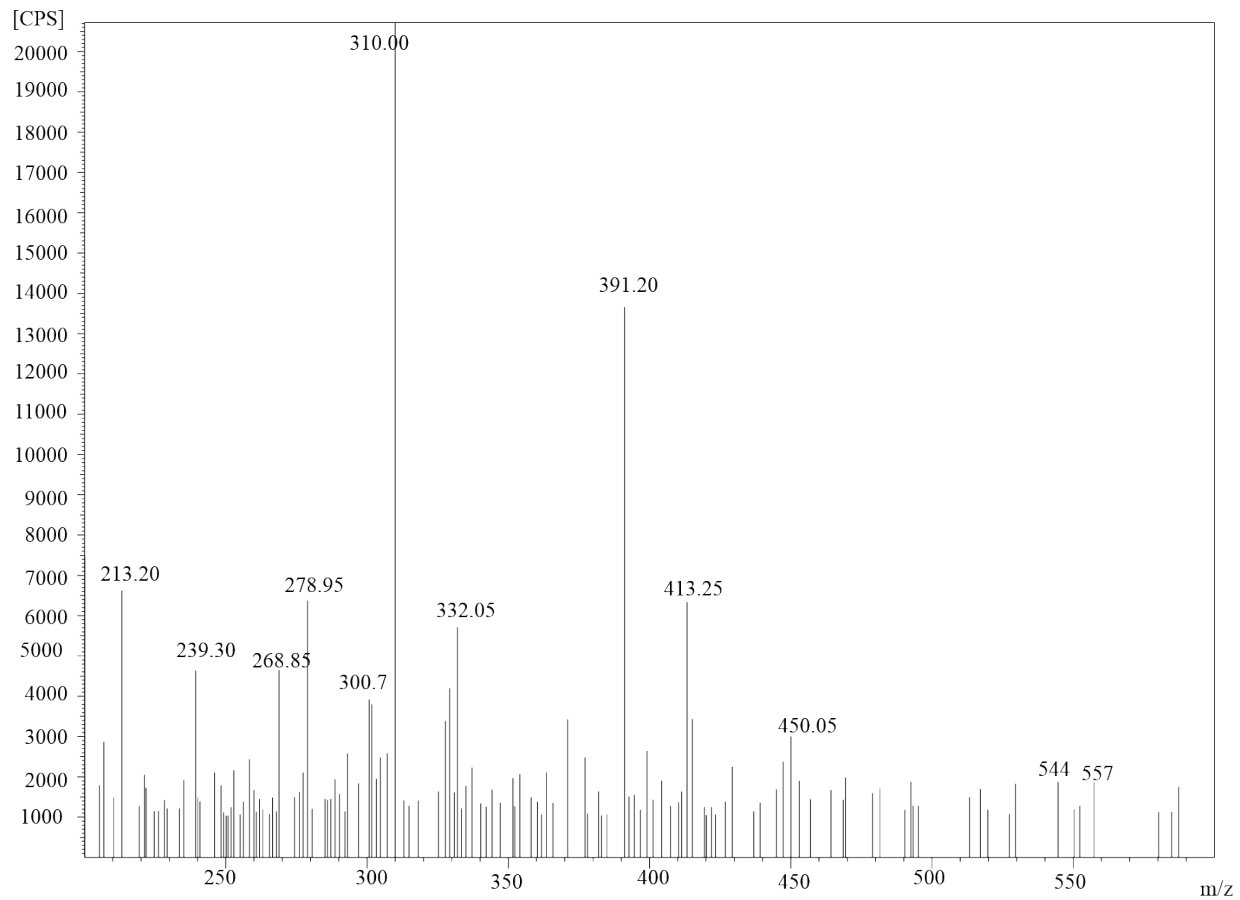


Fig. S4. LRMS spectrum of NQ-DP

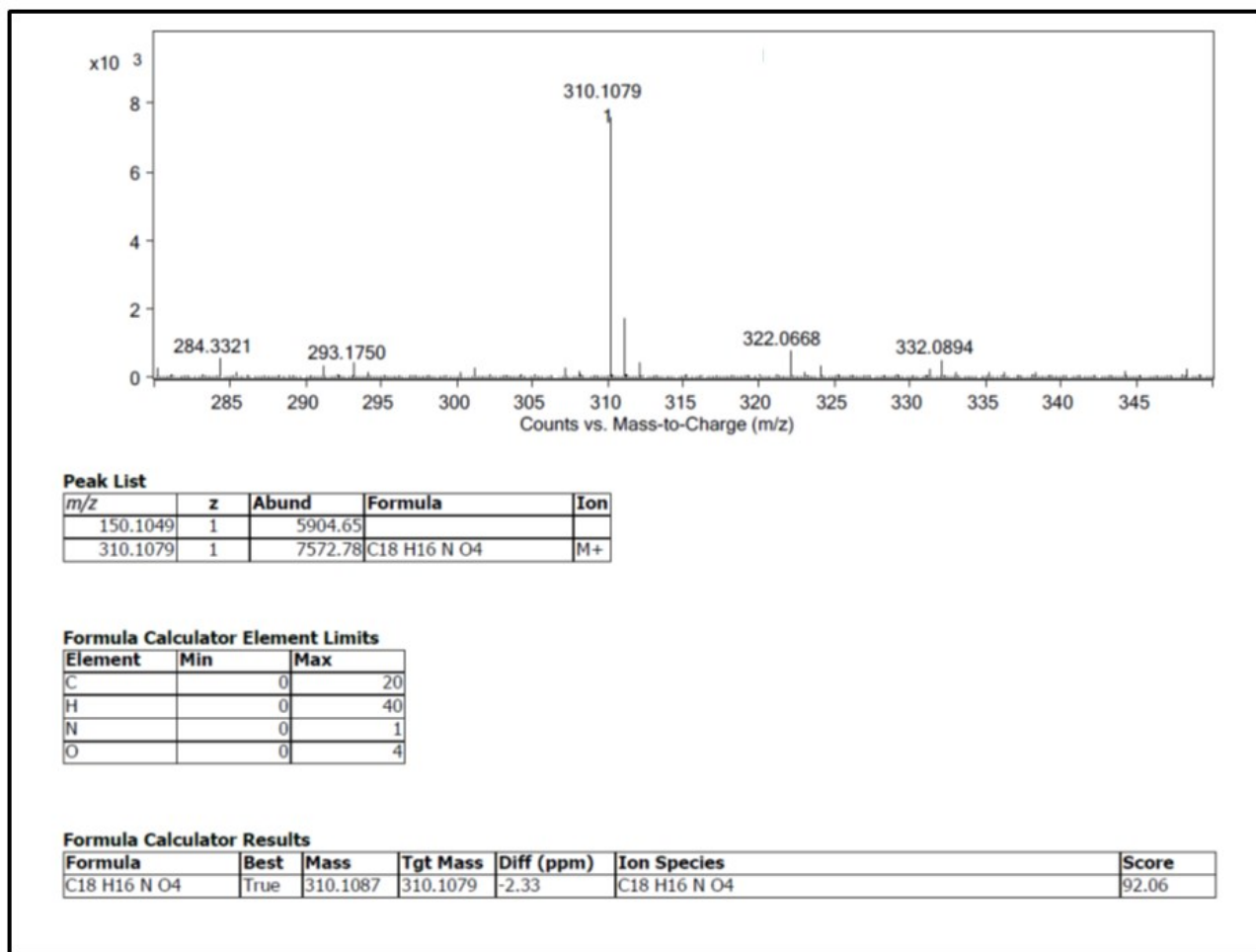


Fig. S5. HRMS spectrum of NQ-DP.

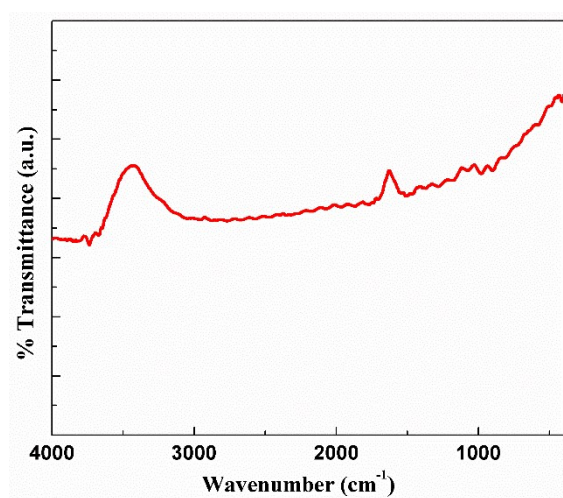


Fig. S6. IR spectrum of CP.

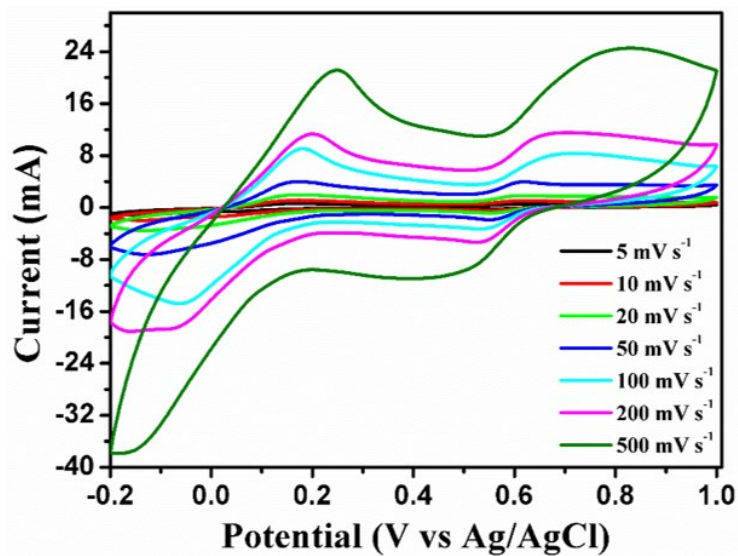


Fig. S7. Overlay of scan rate dependent cyclic voltammograms of NQ-DP/CP obtained in a three electrode system.

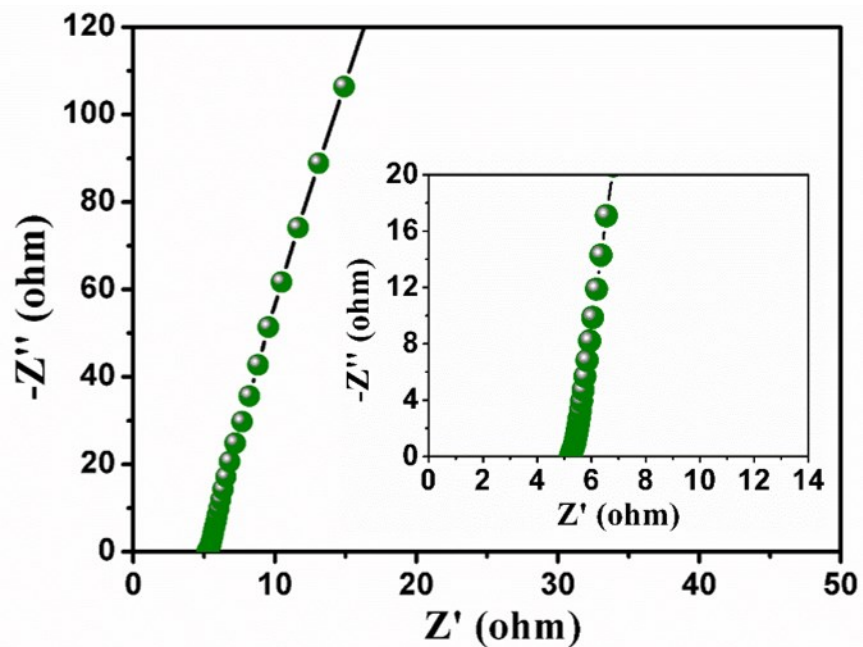


Fig. S8. Nyquist plot of CP electrode at open circuit potential obtained in a three electrode system.

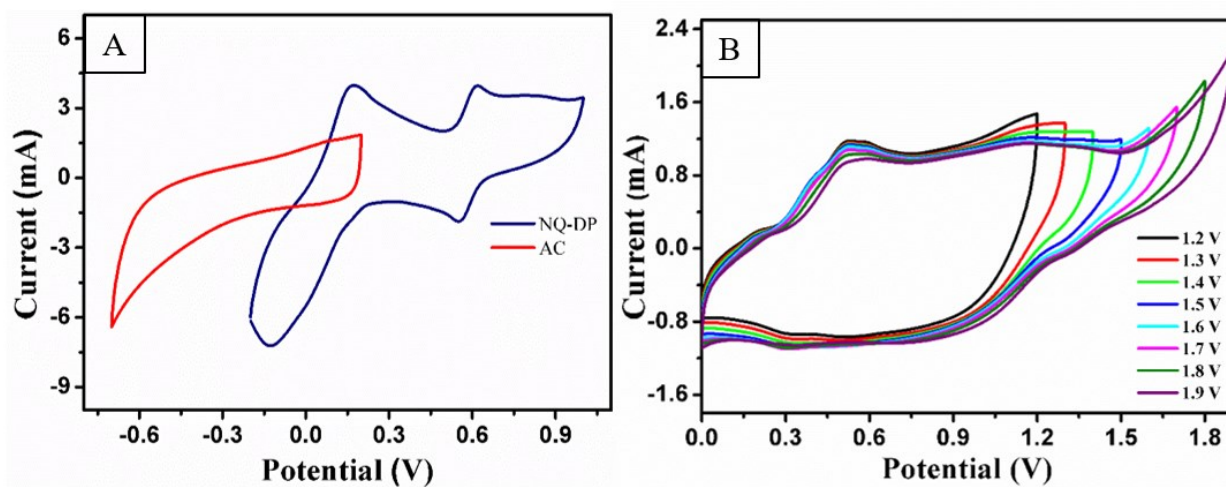


Fig. S9. Cyclic voltammogram overlay of (A) NQ-DP/CP and AC/CP recorded at a scan rate of 50 mV s⁻¹ and (B) asymmetric supercapacitor device at different voltage windows from 1.2 to 1.9 V recorded at a fixed scan of 50 mV s⁻¹.

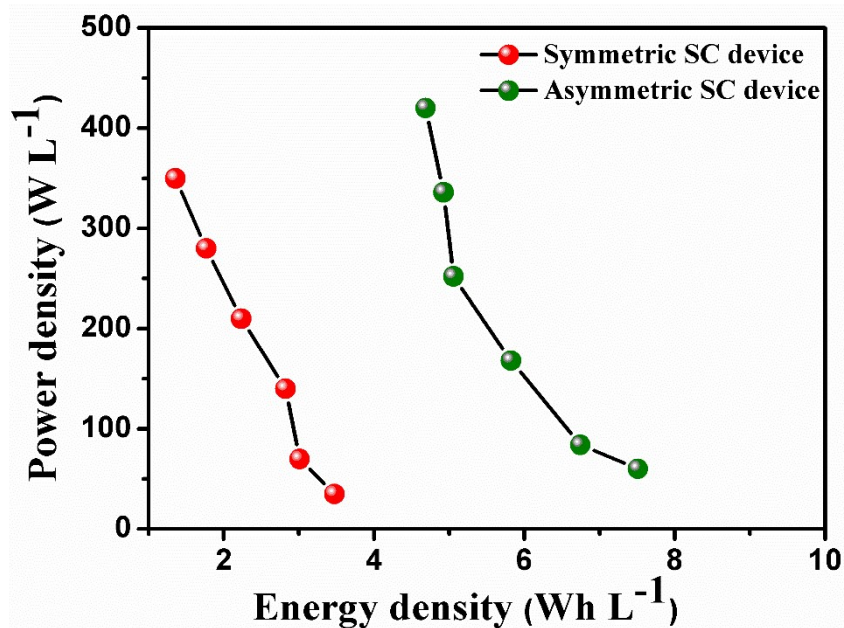


Fig. S10. Overlay of the volumetric power density and volumetric energy density plots for the symmetric and asymmetric supercapacitor devices.