Enhancing the Energy Density of Phosphorus Doped Mesoporous Carbon Nitride using Redox Mediated Gel-polymer Electrolyte

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Supplementary information

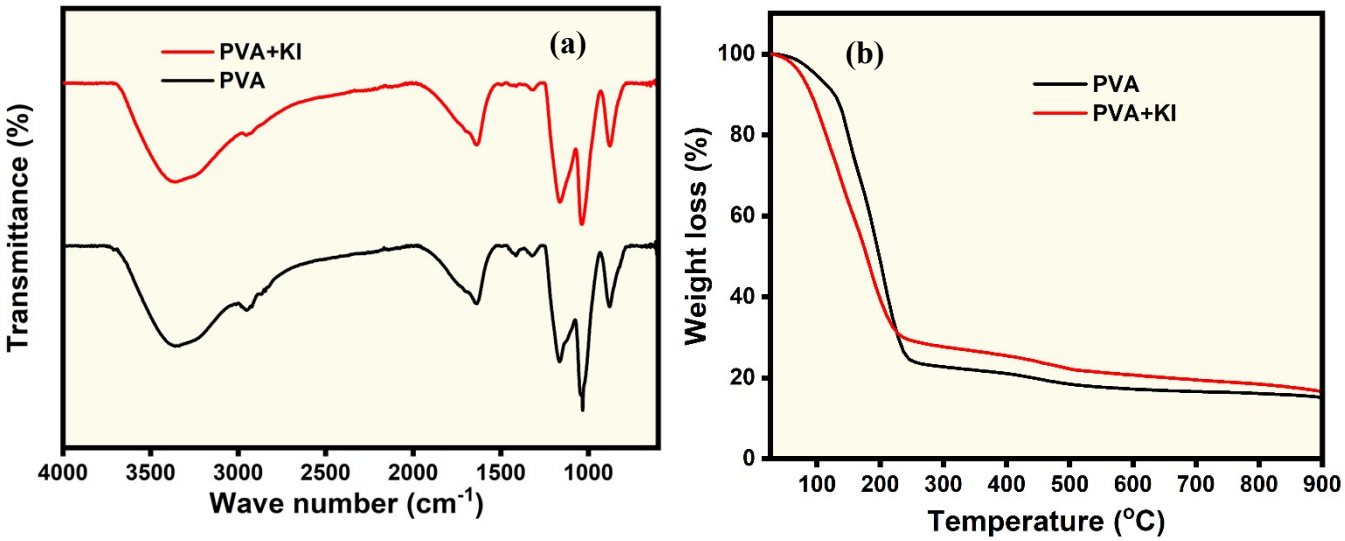

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Fig. S1 (a) FTIR and (b) thermograms of PVA and PVA+KI.

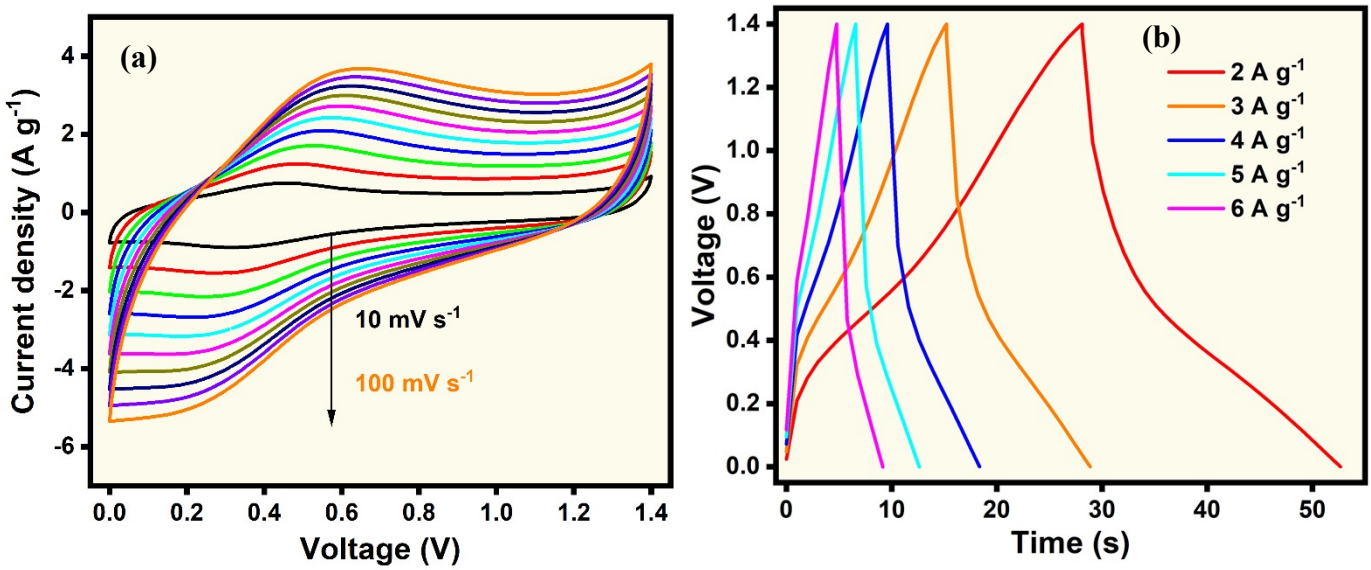

Fig. S2. (a) CVs of Mg-CN-based symmetrical device recorded at various scan rates in the range of 10 to 100 mV s^{-1} and (b) GCD curves recorded at various current densities in the range of 2 to 6 A g^{-1}.

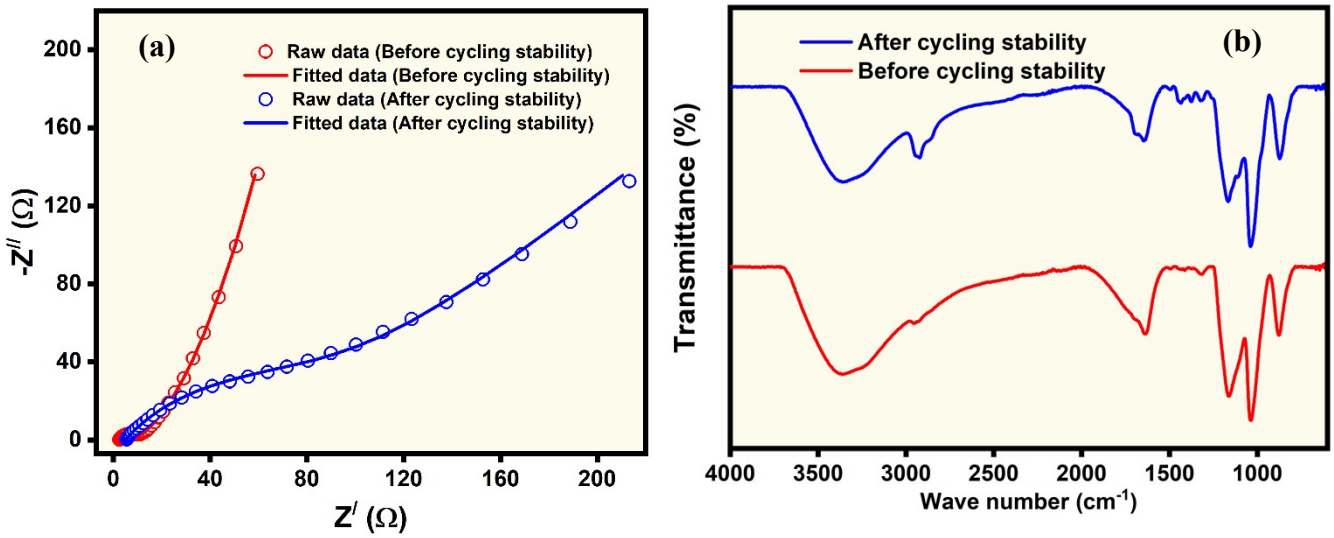

Fig. S3. (a) Nyquist plot of symmetrical device and (b) FTIR spectra of R-mgpe recorded before and after cycling stability.

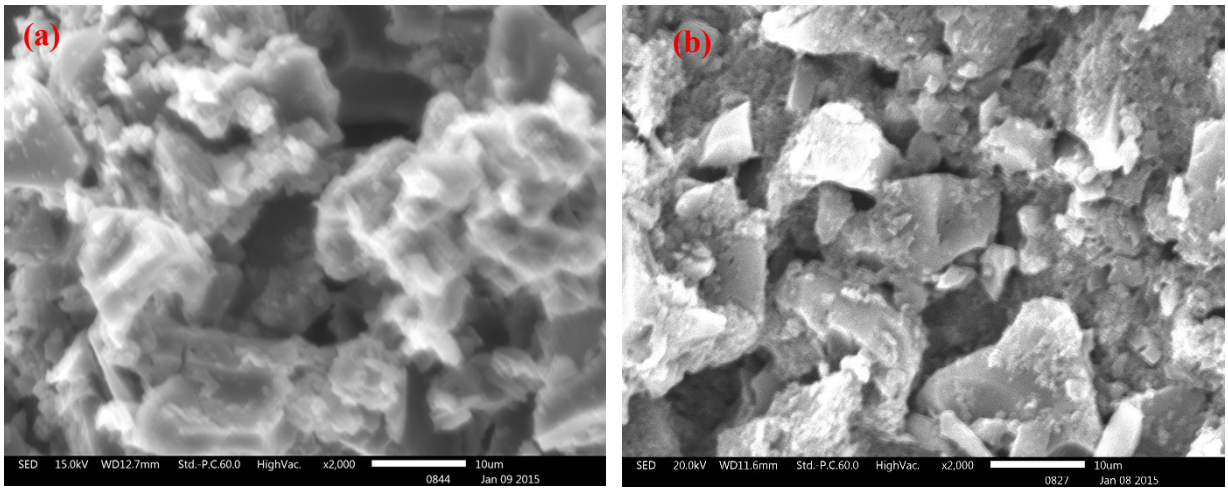

Fig. S4. SEM images of P-Mg-CN recorded before (a) and after (b) cycling stability at a current density of 7 A g^{-1}.