

Supporting Information

Cross-linked poly(ionic liquid) as precursors for nitrogen-doped porous carbons

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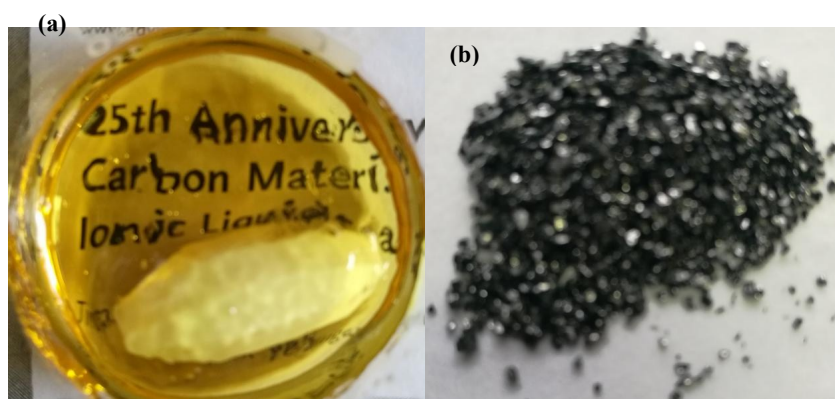


Fig. S1 (a) complex gel of P[BVIMBr-0.1DVB]-SiO₂ (inner white object is stirrer), and (b) accordingly NPC

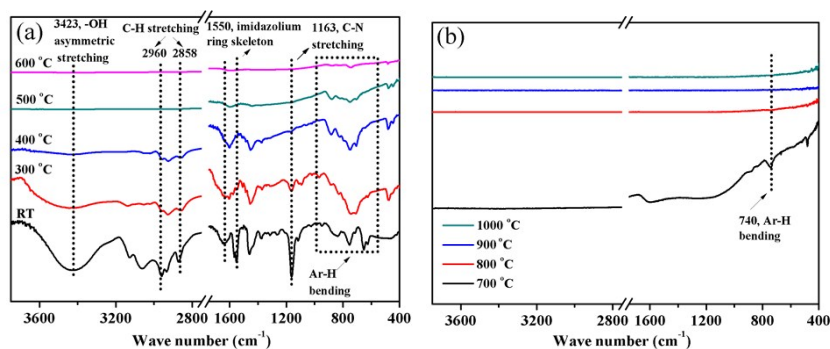


Fig. S2 IR of NPCs from different carbonization temperature (a) RT-600 °C and (b) 700-1000 °C

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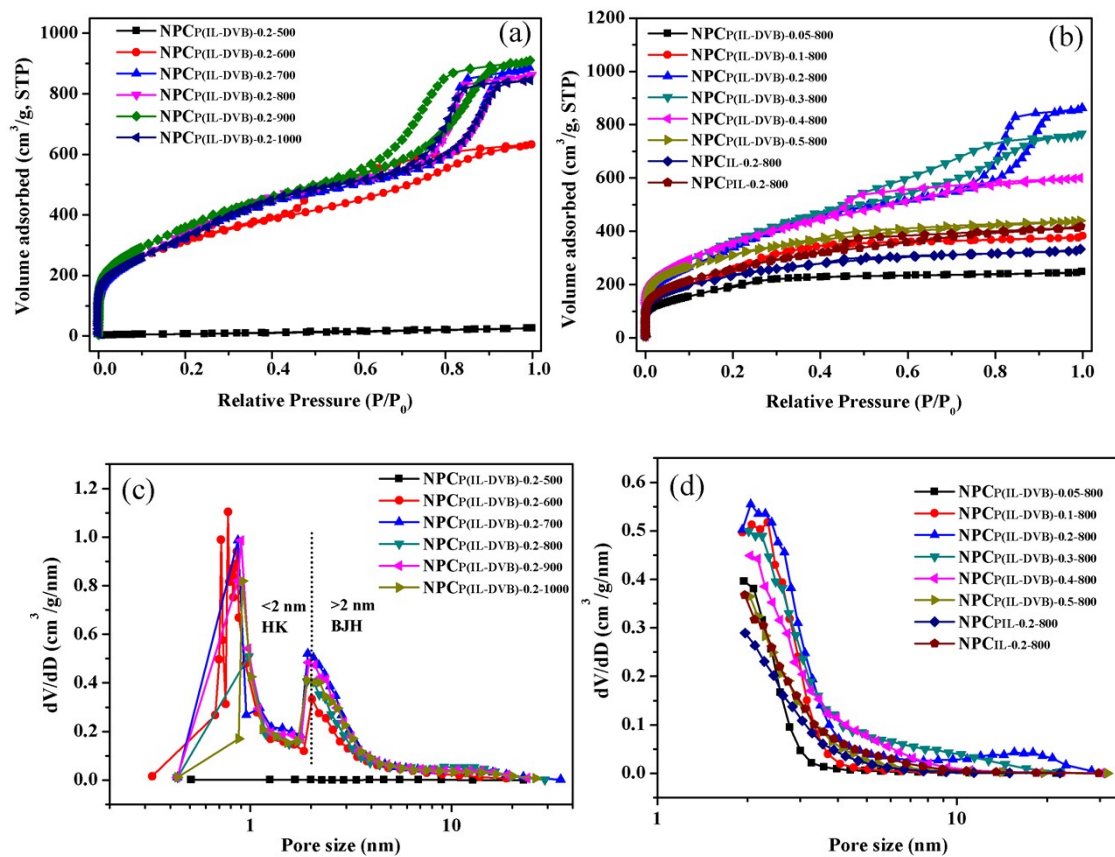


Fig. S3 (a), (b) N₂ adsorption and desorption isotherms, (c) and (d) pore size distribution of NPCs from different preparation parameters

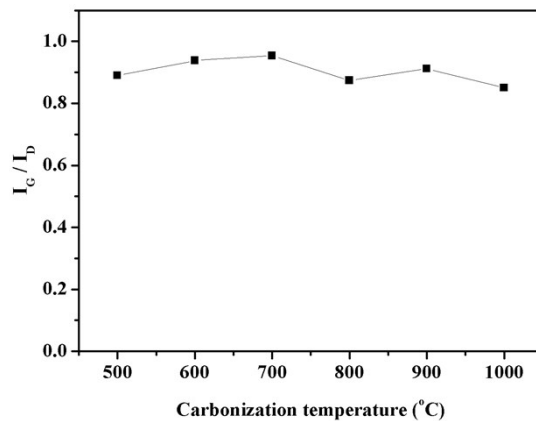
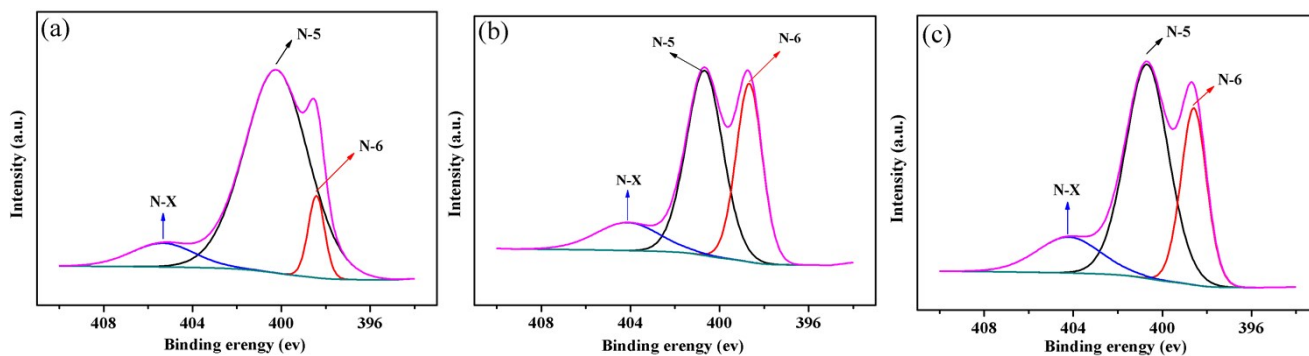


Fig. S4 Intensity of G-bands / D-bands of NPCs from different carbonization temperature



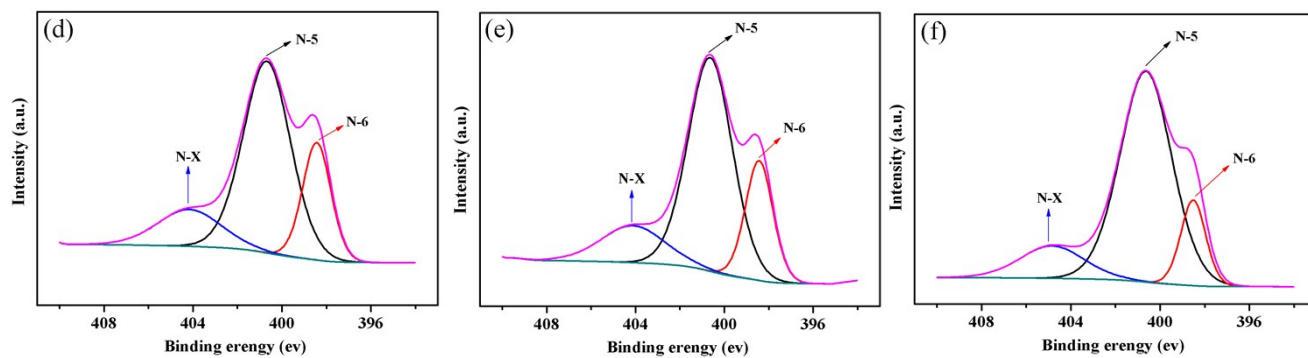


Fig. S5 XPS-spectra of N1s-orbitals of NPCs from different carbonization temperature: (a) 500 °C, (b) 600 °C, (c) 700 °C, (d) 800 °C, (e) 900 °C, (f) 1000 °C.

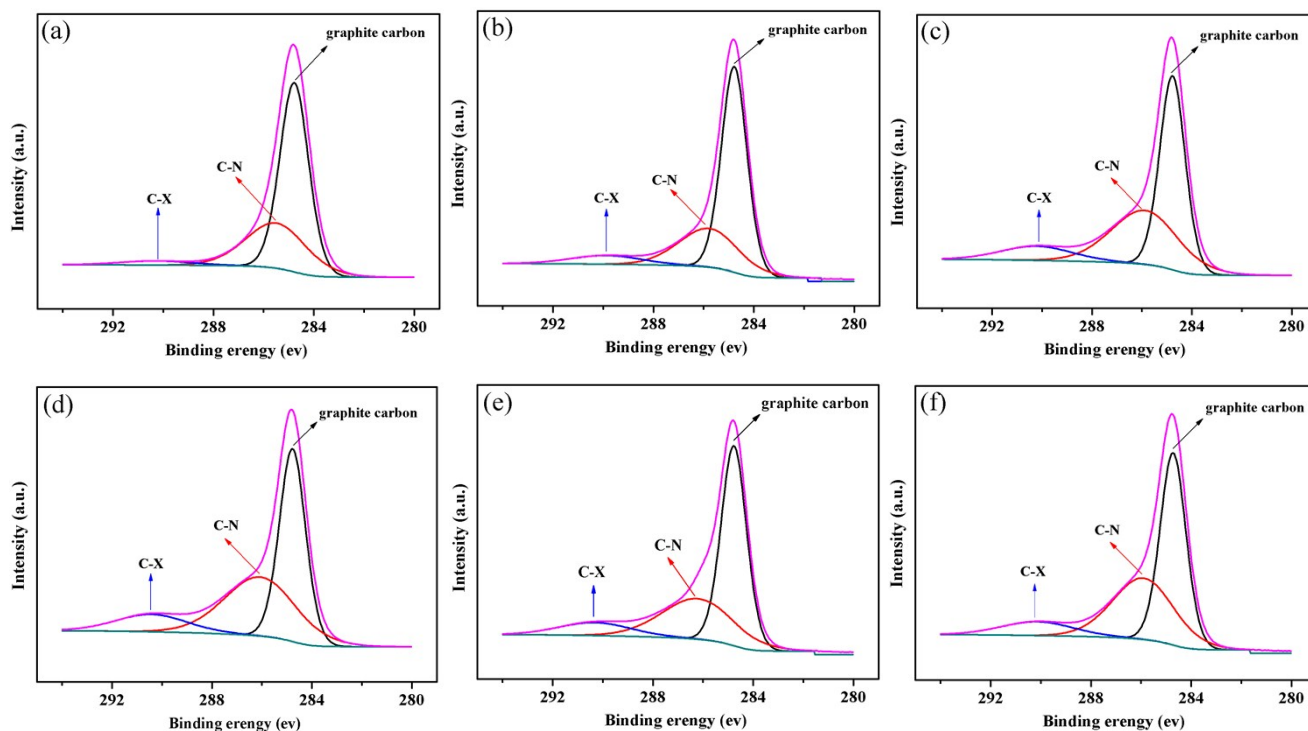


Fig. S6 XPS-spectra of C1s-orbitals of NPCs from different carbonization temperature: (a) 500 °C, (b) 600 °C, (c) 700 °C, (d) 800 °C, (e) 900 °C, (f) 1000 °C.