

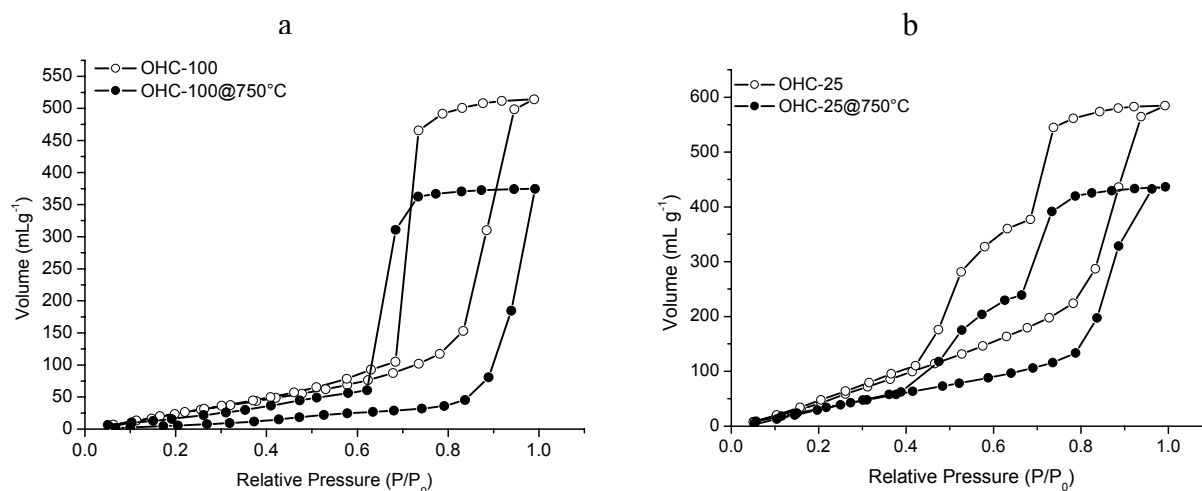


Fig. S1. Water adsorption isotherms of the hydrothermal and further carbonised a) OHC-100 and b) OHC-25 materials proving their different hydrophilicity.

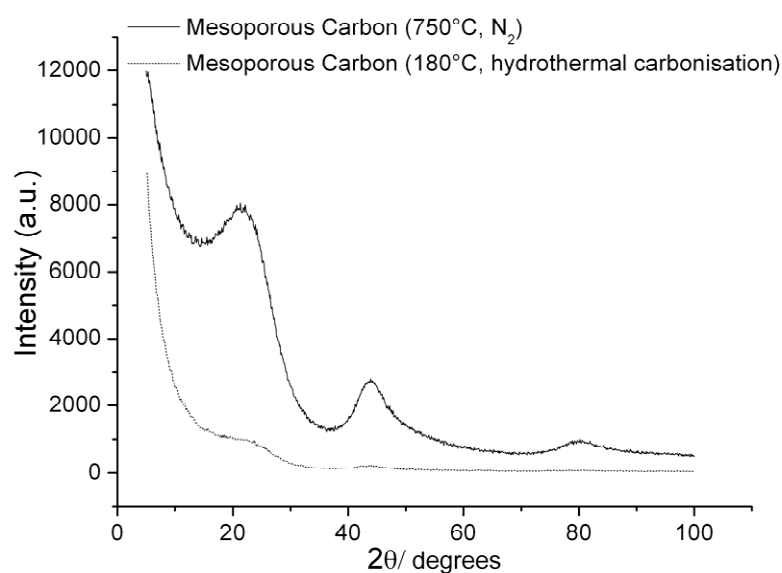


Fig. S2. XRD patterns of the ordered carbon materials after hydrothermal carbonisation and after further carbonisation at 750°C under N₂.

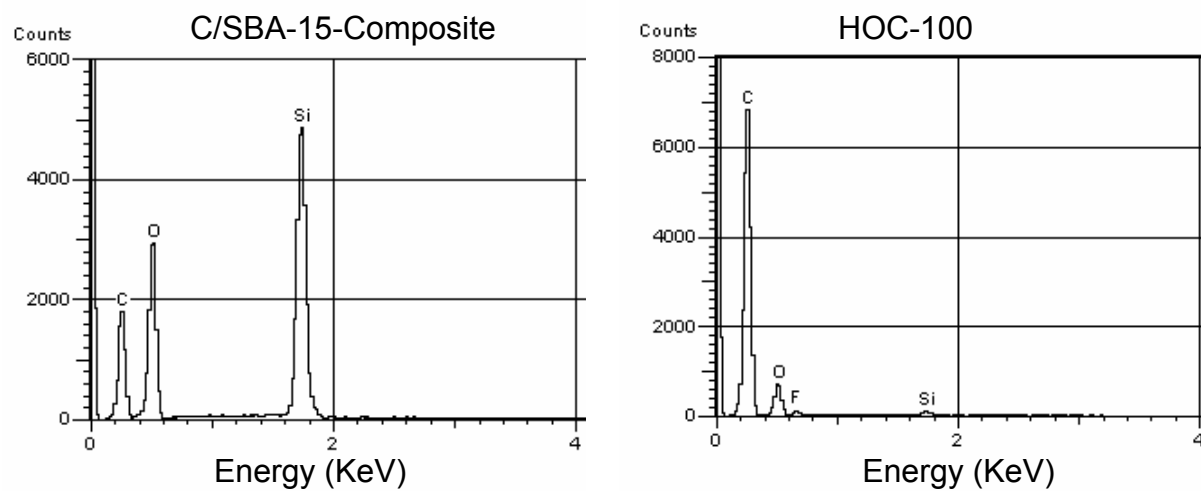


Fig. S3. EDX spectra of the composite and mesoporous ordered carbon materials.

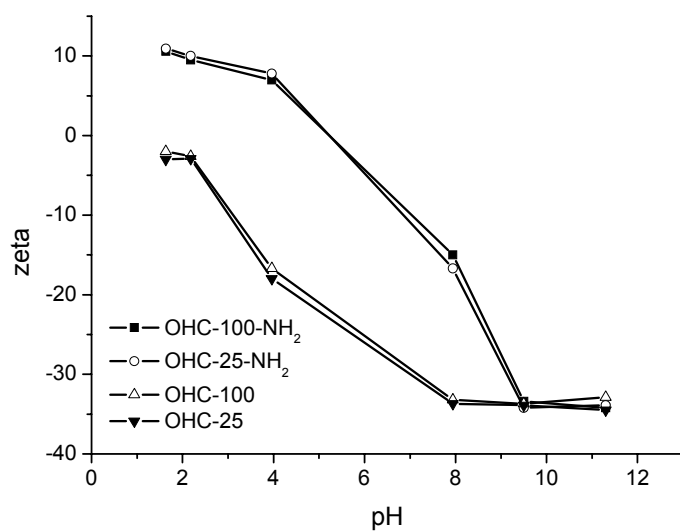


Fig. S4 Zeta potential measurements of the amino-modified and pure carbon materials

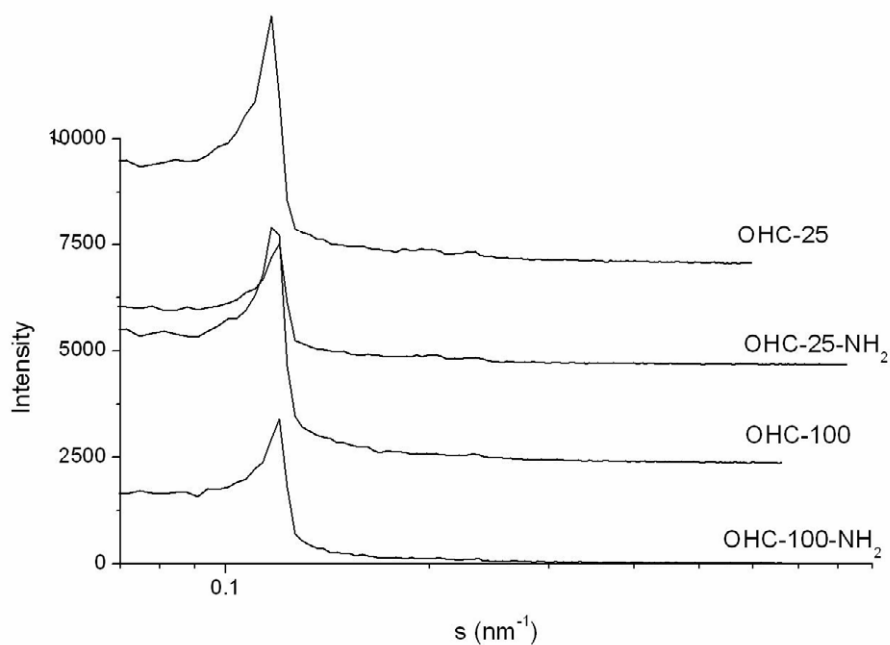


Fig. S5 SAXS patterns of the OHC before and after amino modification

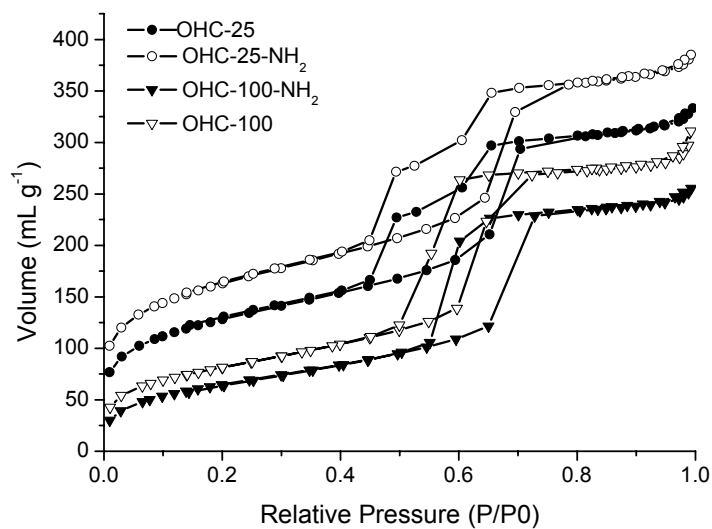


Fig. S6. N₂ adsorption isotherms the OHC before and after amino modification.