Figure S1: FTIR spectra of gases evolved from N-Starbon at 100 °C and 240 °C.

Figure S2: The FTIR spectra of N-Starbon carbonised to 450 °C, before and after In$^{3+}$ adsorption.
Figure S3: The full survey XPS spectrum of N-Starbon-450.

Figure S4: High resolution XPS spectrum in the C1s region of N-Starbon-450.

Figure S5: High resolution XPS spectrum in the N1s region of N-Starbon-450.
Figure S6: High resolution XPS spectrum in the N1s region of N-Starbon-0.

Figure S7: High resolution XPS spectrum in the N1s region of N-Starbon-300.

Figure S8: High resolution XPS spectrum in the N1s region of N-Starbon-600.
Figure S9: The DRIFT spectra of N-Starbon carbonised to low temperatures.

Figure S10: The DRIFT spectra of normal and expanded chitosan carbonised to various temperatures at regular Starbon® heating rates and fast heating rates (10 °C min⁻¹).