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## Supplementary information for

## Heteroatom-doped porous carbon derived from the "all-in-one" precursor sewage sludge for electrochemical energy storage

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Figure S1. The schematic presentation of the synthesis process.

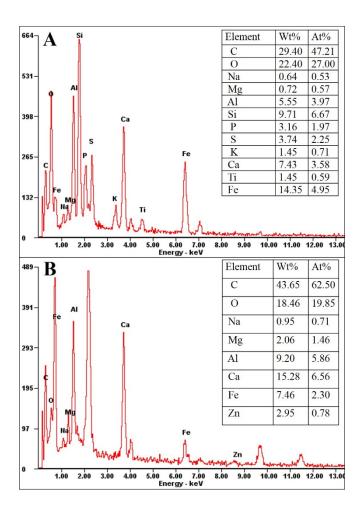
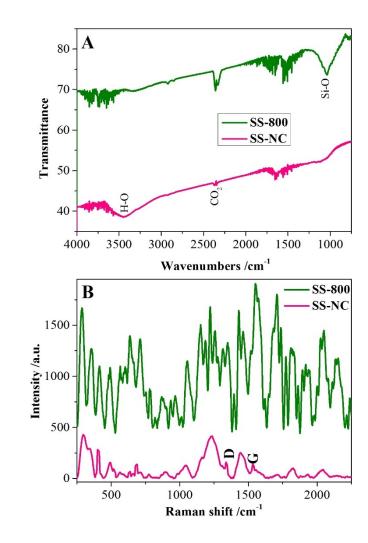


Figure S2. Energy dispersive X-ray (EDX) spectra of the (A) SS-800 and (B) SS-NC.



**Figure S3.** Characterization of the SS-800 and SS-NC. (A) FTIR spectra and (B) Raman spectra of the SS-800 and SS-NC.