Supporting Information

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Fig. S1 Byproducts concentrations in the pretreatment hydrolysate under different carbonization temperatures (a), carbonization times (b), sulfonation temperatures (c)

and sulfonation times (d).

Hydrolysis reaction conditions: 120 °C, 10 h, 1 g of catalyst, 0.5 g of corncob and 50

ml water.



Fig. S2 XRD patterns of MMC, MMCSA and Fe₃O₄.

Catalyst preparation conditions: carbonization temperature at 350 °C for 1 h and

sulfonation temperature at 130 °C for 10 h.



Fig. S3 TEM picture of MMCSA.



Fig. S4 Hysteresis loop of MMCSA.



Fig. S5 FT-IR spectra of MMCSA synthesized under optimal conditions.



Fig. S6 XPS spectra of MMC and MMCSA.