

Supplemental Materials

Activated Carbon Assisted Fenton-like Treatment of Wastewater Containing Acid Red G

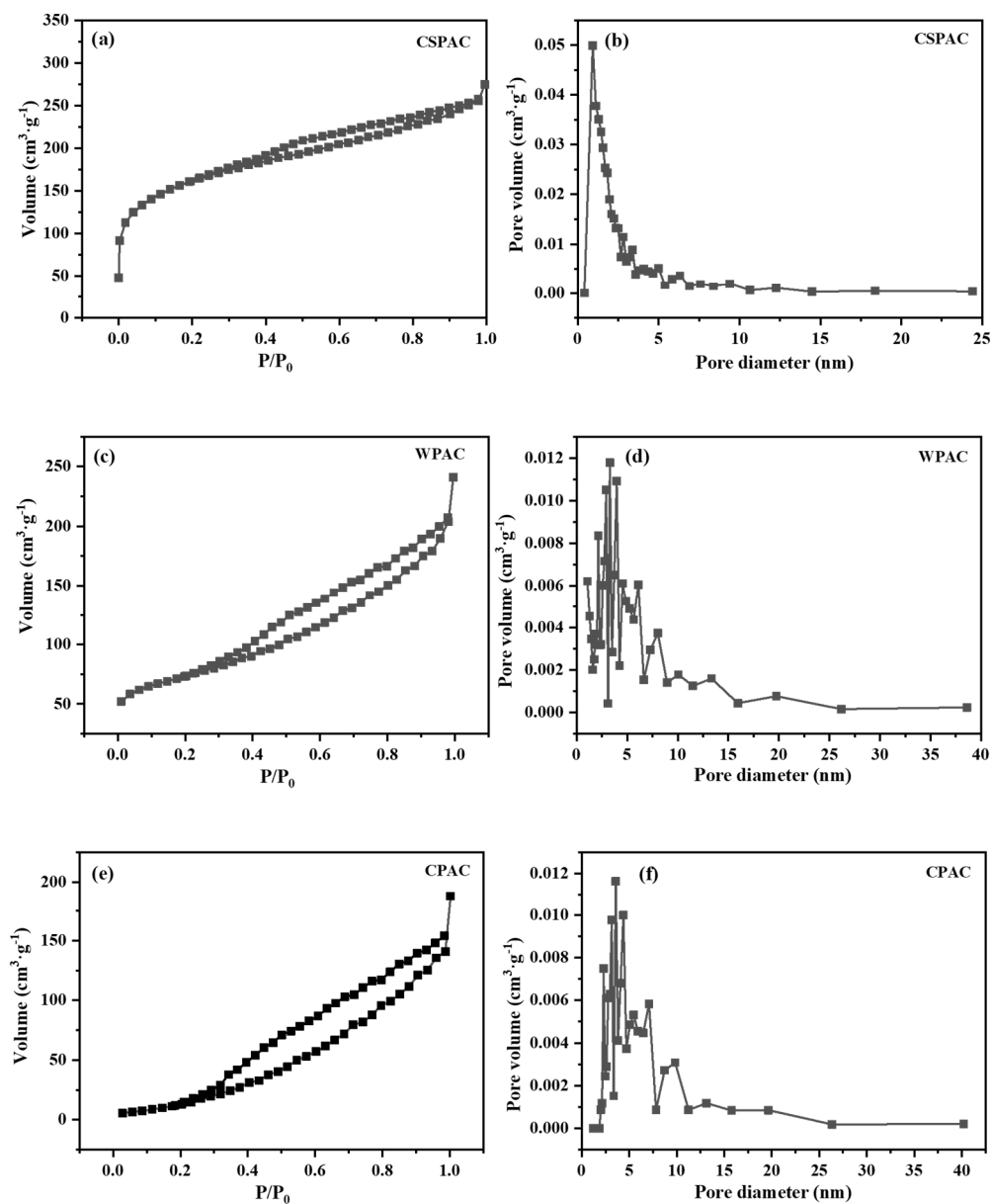


Figure S1. N_2 adsorption-desorption isotherm of CSPAC (a), WPAC (c) and CPAC (e); and pore diameter distribution of CSPAC (b), WPAC (d) and CPAC (f).

Table S1. The specific surface area, pore size and pore volume of three kinds of ACs.

Sample	$S_{\text{BET}}/\text{m}^2\cdot\text{g}^{-1}$	$V/\text{cm}^3\cdot\text{g}^{-1}$	R/nm
CSPAC	549.50	0.252	3.10
WPAC	254.49	0.330	5.90
CPAC	66.01	0.341	17.72

V: Total pore volume; R: Average pore diameter

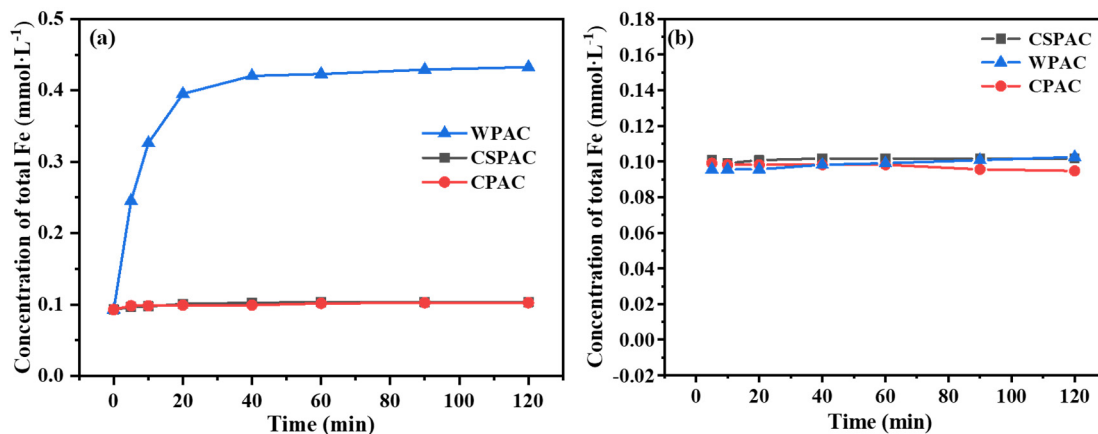


Figure S2. Total iron ion concentration in solution (a) before and (b) after acid treatment (0.1 mmol/L of FeCl_3 , 0.4 g/L of AC, pH=3).

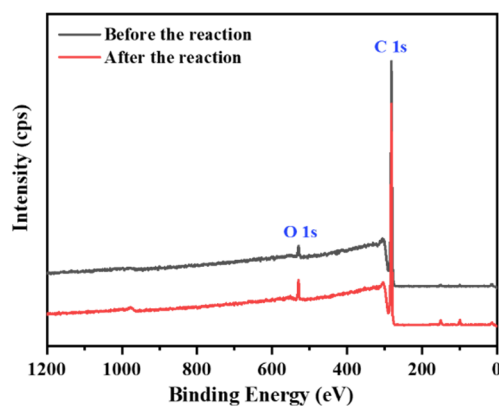


Figure S3. Full-scan XPS spectra of CSPAC before and after the reaction in $\text{Fe}^{3+}/\text{CSPAC}/\text{H}_2\text{O}_2$ system.

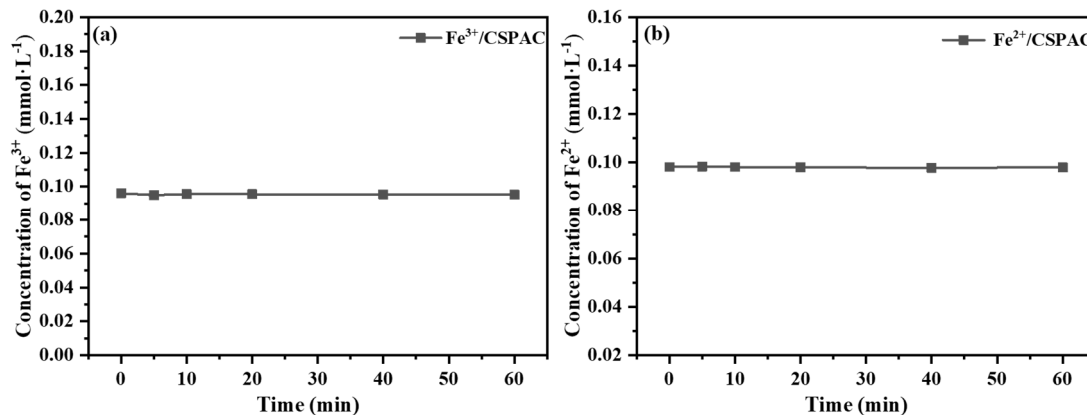


Figure S4. Adsorption of (a) Fe^{3+} and (b) Fe^{2+} by CSPAC (0.1 mmol/L of $\text{FeCl}_3/\text{FeCl}_2$, 0.6 g/L of CSPAC, pH=3).