

## Supporting Information

### **Preparation of macroscopic spherical porous carbons@carboxymethylcellulose sodium gel beads and application for removal of tetracycline**

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Table S1 Fitting parameters of intraparticle diffusion model for the adsorption TC on EPCs@CMCS gel beads with different initial concentrations.

$C_0$ (mg L <sup>-1</sup> )	$k_{id,1}$ (g mg <sup>-1</sup> min <sup>-1/2</sup> )	$C_1$	$R^2$	$k_{id,2}$ (g mg <sup>-1</sup> min <sup>-1/2</sup> )	$C_2$	$R^2$
<b>50</b>	16.17	1.91	0.9980	1.50	37.95	0.8300
<b>75</b>	22.92	1.28	0.9887	2.91	52.83	0.8939
<b>100</b>	27.34	0.03	0.9910	4.13	66.85	0.7714

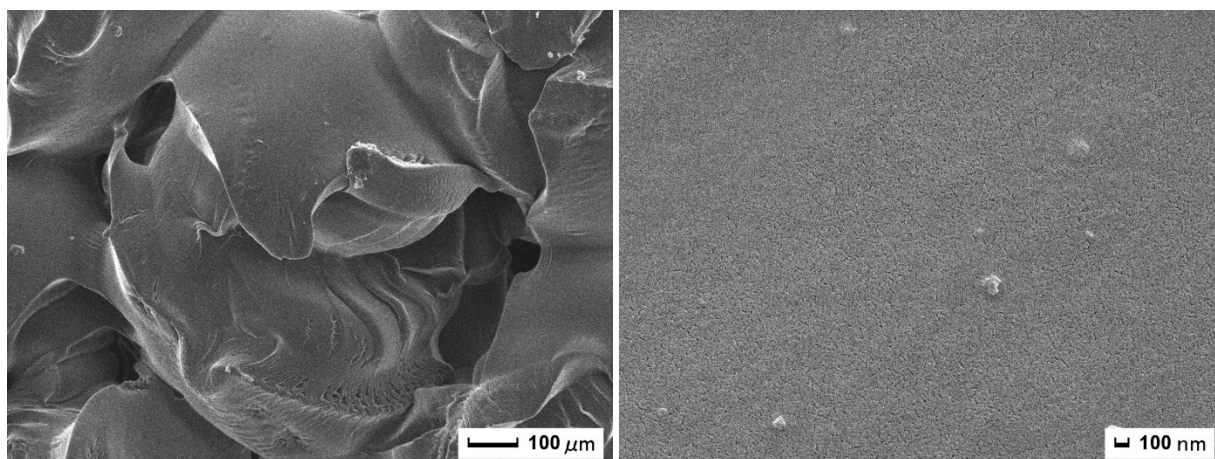


Fig. S1 SEM images of CMCS gel beads.

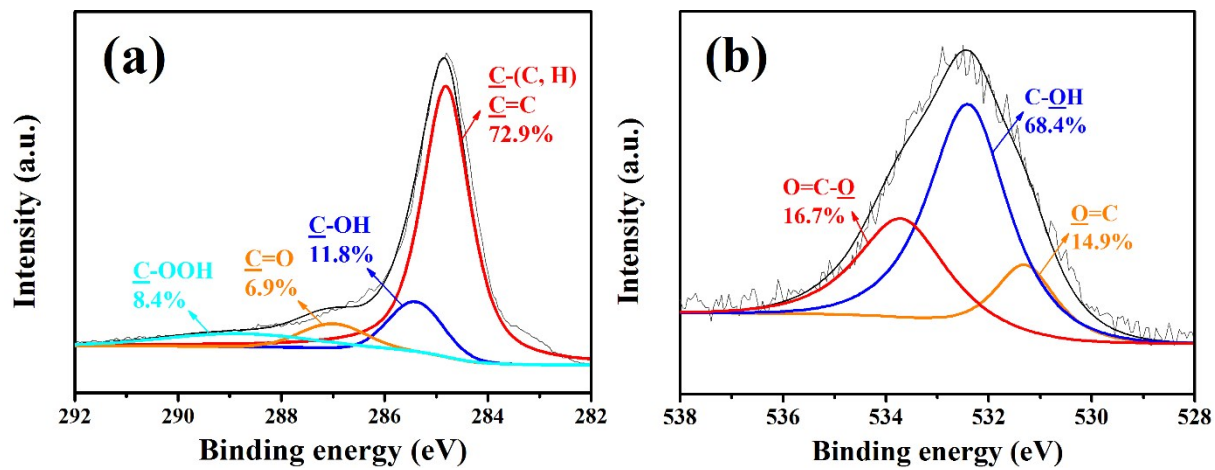


Fig. S2 The high-resolution XPS spectra of C1s (a) and O1s (b) peaks of EPCs.

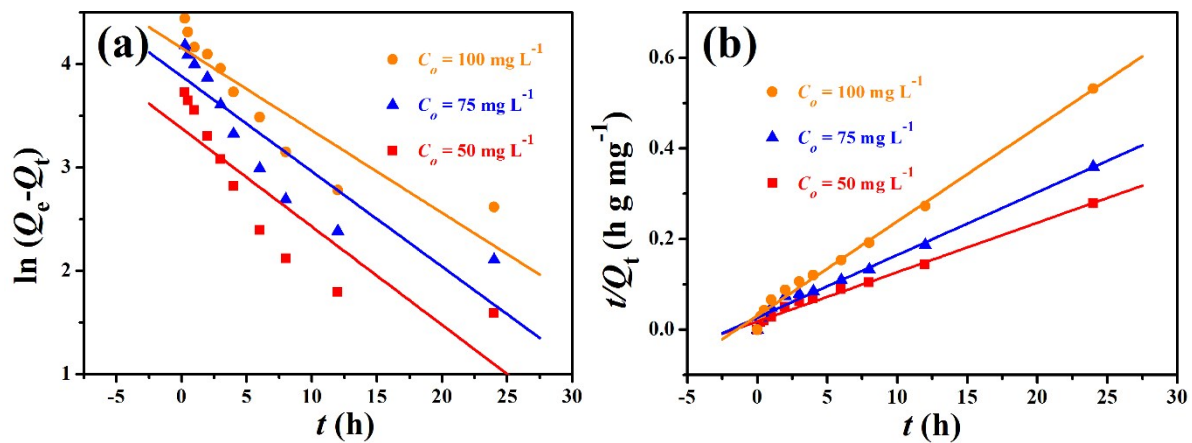


Fig. S3 Liner fitting of pseudo-first-order (a) and pseudo-second-order (b) kinetics of TC on EPCs@CMCS gel beads with different initial concentrations. ( $\text{pH} = 6.0$ ,  $T = 298 \text{ K}$ )

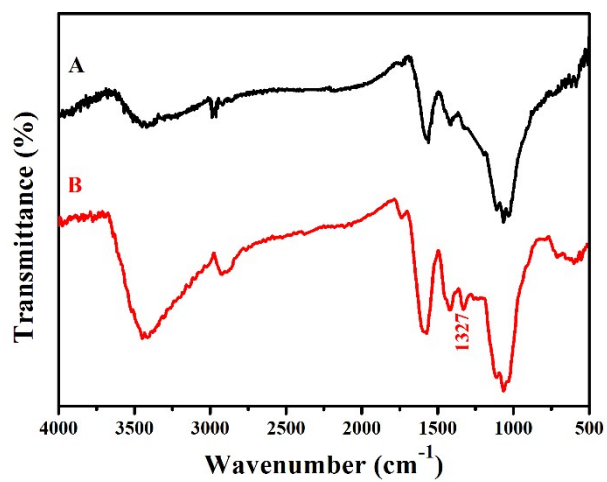


Fig. S4 FT-IR spectra of EPCs@CMCS gel beads before (a) and after (b) adsorption of TC (the first cycle).