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.

<table>
<thead>
<tr>
<th>$C_o$ (mg L$^{-1}$)</th>
<th>$k_{id,1}$ (g mg$^{-1}$ min$^{-1/2}$)</th>
<th>$C_1$</th>
<th>$R^2$</th>
<th>$k_{id,2}$ (g mg$^{-1}$ min$^{-1/2}$)</th>
<th>$C_2$</th>
<th>$R^2$</th>
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<tr>
<td>50</td>
<td>16.17</td>
<td>1.91</td>
<td>0.9980</td>
<td>1.50</td>
<td>37.95</td>
<td>0.8300</td>
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<tr>
<td>75</td>
<td>22.92</td>
<td>1.28</td>
<td>0.9887</td>
<td>2.91</td>
<td>52.83</td>
<td>0.8939</td>
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<tr>
<td>100</td>
<td>27.34</td>
<td>0.03</td>
<td>0.9910</td>
<td>4.13</td>
<td>66.85</td>
<td>0.7714</td>
</tr>
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</table>
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 Linear fitting of pseudo-first-order (a) and pseudo-second-order (b) kinetics of TC on EPCs@CMCS gel beads with different initial concentrations. (pH = 6.0, $T = 298$ K)
Fig. S4 FT-IR spectra of EPCs@CMCS gel beads before (a) and after (b) adsorption of TC (the first cycle).