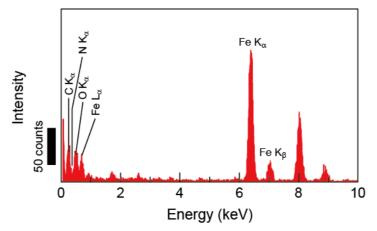
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## Supporting Information



**Fig. S1** EDX spectrum of the obtained Cs/PPy/Fe<sub>2</sub>O<sub>3</sub> nanocomposite. Percentage of each component in the nanocomposite is shown in inset.

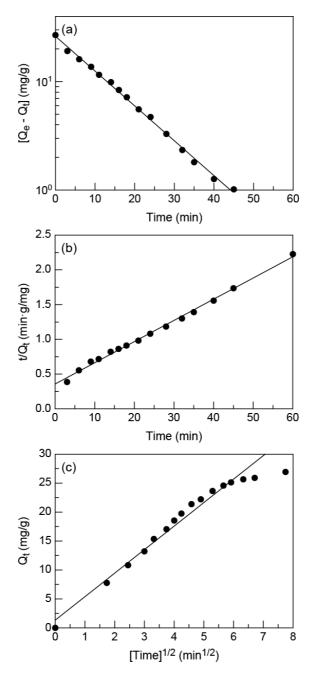
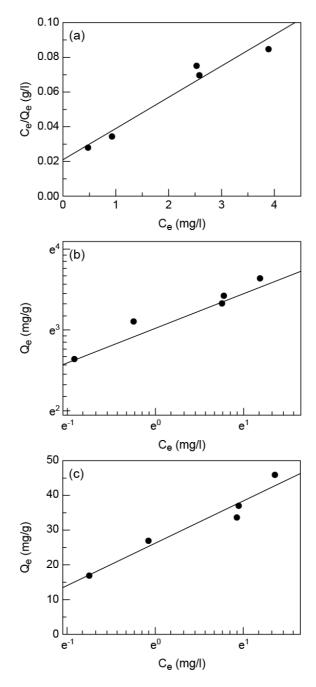


Fig. S2 (a) Pseudo-first, (b) pseudo-second order, and (c) intraparticle diffusion kinetics of adsorption of AG by  $Cs/PPy/Fe_3O_4$  nanocomposite.



**Fig. S3** (a) Langmuir, (b) Freundlich, and (c) Temkin isotherms for the adsorption of AG by Cs/PPy/Fe<sub>3</sub>O<sub>4</sub> nanocomposite.