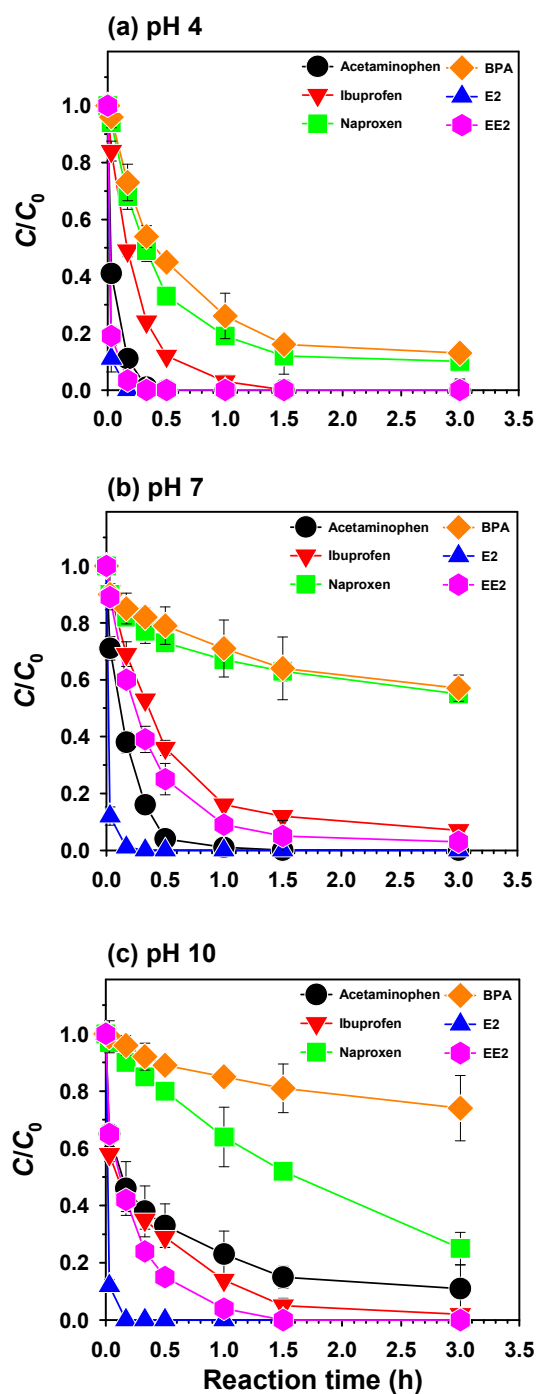
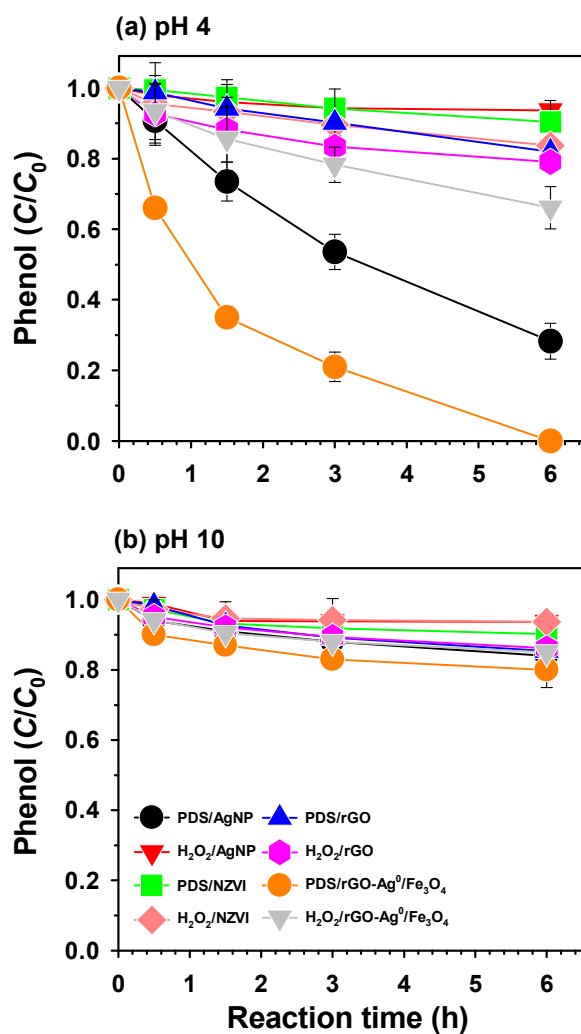


**Fig. 4.** Removal of phenol by AgNP, NZVI, rGO and rGO-Ag<sup>0</sup>/Fe<sub>3</sub>O<sub>4</sub> NH in catalytic activation of PDS and H<sub>2</sub>O<sub>2</sub>. Experimental conditions: [AgNP]<sub>0</sub> = [NZVI]<sub>0</sub> = [rGO]<sub>0</sub> = [rGO-Ag<sup>0</sup>/Fe<sub>3</sub>O<sub>4</sub>]<sub>0</sub> = 0.1 g/L; [phenol]<sub>0</sub> = 10 μM; [PDS]<sub>0</sub> = [H<sub>2</sub>O<sub>2</sub>]<sub>0</sub> = 1 mM; pH = 7; and temperature = 298 K.



**Fig. 6.** Removal of acetaminophen, ibuprofen, naproxen, BPA, E2, and EE2 by rGO-Ag<sup>0</sup>/Fe<sub>3</sub>O<sub>4</sub> NH in catalytic activation of PDS. Experimental conditions: [rGO-Ag<sup>0</sup>/Fe<sub>3</sub>O<sub>4</sub>]<sub>0</sub> = 0.1 g/L; [acetaminophen]<sub>0</sub> = [ibuprofen]<sub>0</sub> = [naproxen]<sub>0</sub> = [BPA]<sub>0</sub> = [E2]<sub>0</sub> = [EE2]<sub>0</sub> = 10 μM; [PDS]<sub>0</sub> = 1 mM; pH = 4, 7, and 10; and temperature = 298 K.



**Fig. S3.** Removal of phenol by AgNP, NZVI, rGO, and rGO- $Ag^0/Fe_3O_4$  at (a) pH 4 and (b) 10 in catalytic activation of PDS and  $H_2O_2$ . Experimental conditions:  $[AgNP]_0 = [NZVI]_0 = [rGO]_0 = [rGO-Ag^0/Fe_3O_4]_0 = 0.1$  g/L;  $[Phenol]_0 = 10$   $\mu$ M;  $[PDS]_0 = [H_2O_2]_0 = 1$  mM; and temperature = 298 K.