

Supporting Information

Simultaneous adsorption/reduction of bromate by nanoscale zero-valent iron supported on modified activated carbon

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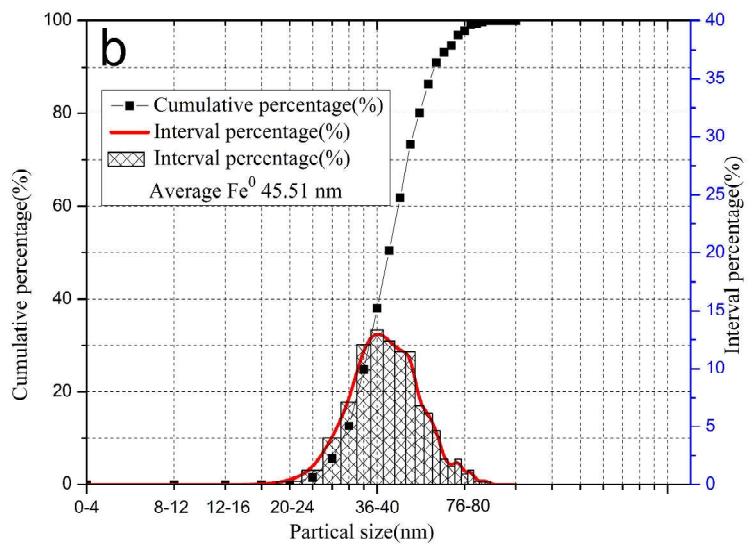
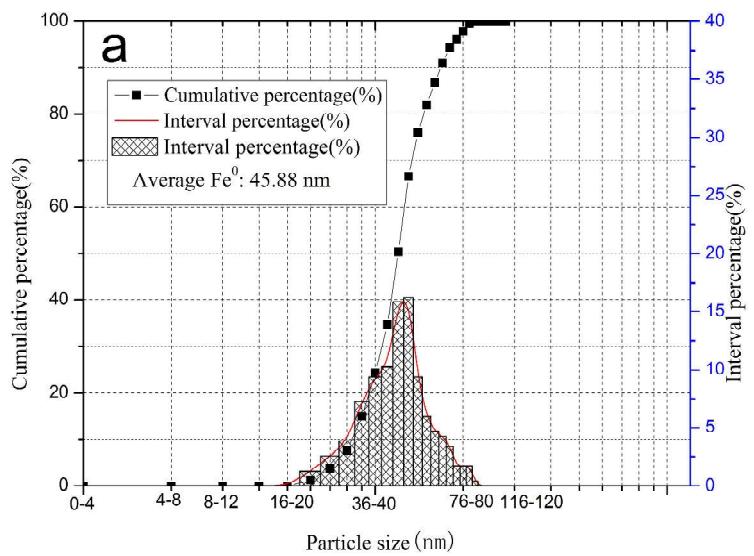
(a) nZVI/AC_{H2O}, (b) nZVI/AC_{NH3}, (c) nZVI/AC_{HNO3} and (d) nZVI/AC_{HN}.

Fig. S2. SEM image of AC.

Fig. S3. TEM image of nZVI/AC_{HN} and unsupported nZVI.

Table S1 Boehm's titration and mass titration result of different activated carbons

sample	Total surface acidity (mmol/g)	Total surface basicity (mmol/g)	pH_{PZC}
AC _{H2O}	0.1030	0.2686	9.19
AC _{HNO3}	0.7110	0.0413	3.95
AC _{NH3}	0.0407	0.3625	10.02
AC _{HN}	0.2690	0.2049	7.12



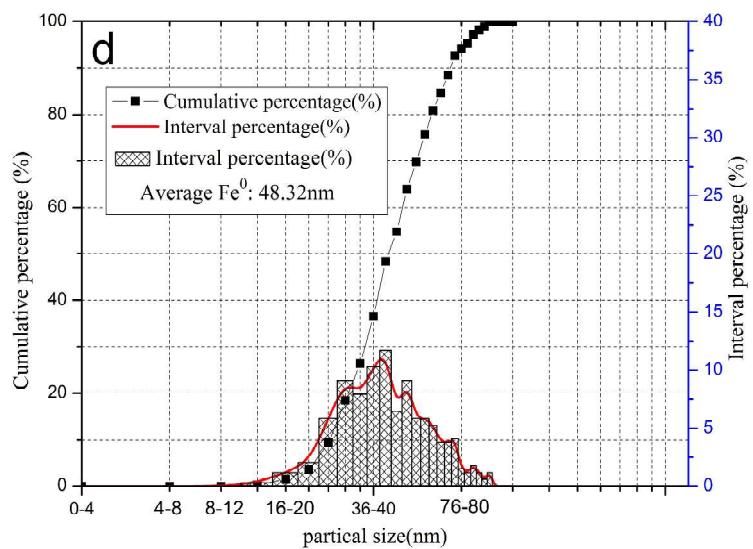
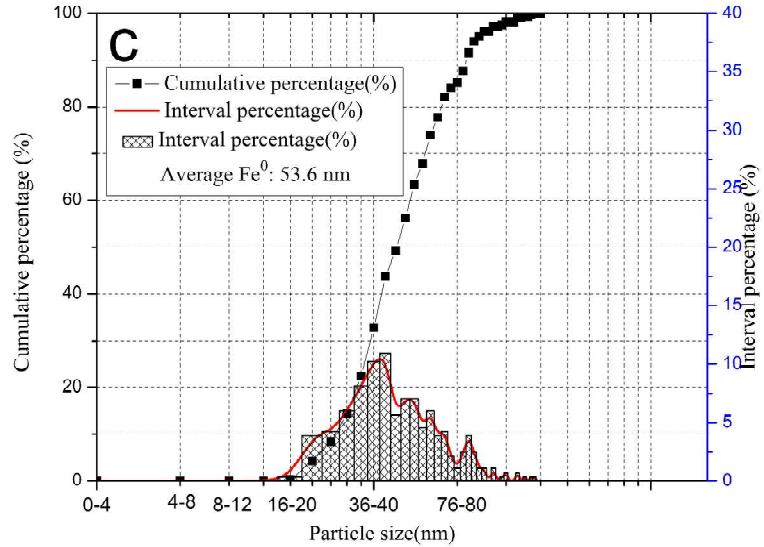


Fig. S1. Histogram of particle sizes of nZVI nanoparticles determined by SEM images.

(a) nZVI/AC_{H2O}, (b) nZVI/AC_{NH3}, (c) nZVI/AC_{HNO3} and (d) nZVI/AC_{HN}.

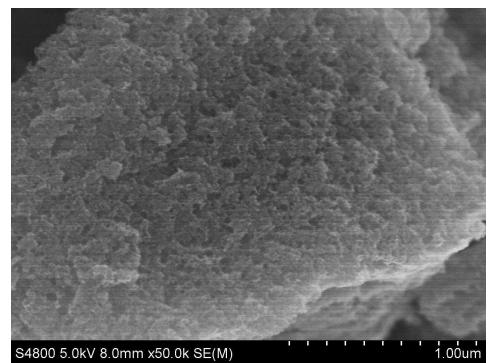


Fig. S2. (a) SEM image of AC

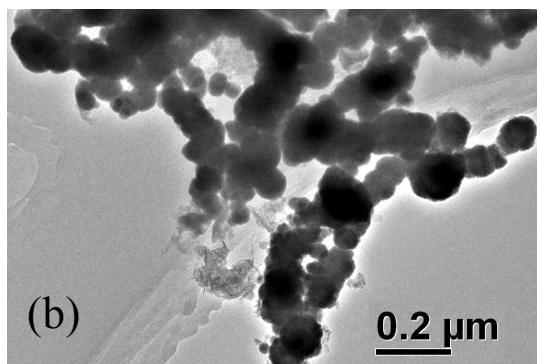
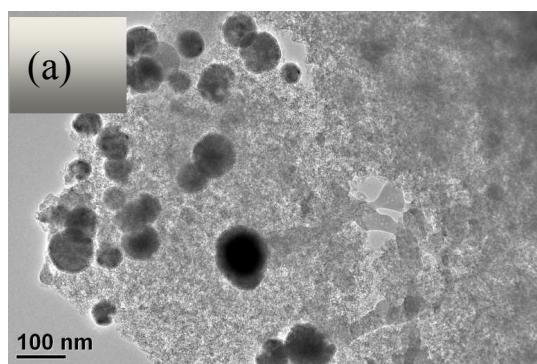


Fig. S3. (a) TEM image of nZVI/AC_{HN}; (b) unsupported nZVI