



**Figure S1.** Nitrogen adsorption–desorption isotherms.

**Table S1.** BET-specific surface area results for iron compounds.

Material	Surface area (m <sup>2</sup> g <sup>-1</sup> )	Reference
ZVI	1.711	Our work
Hematite	12.71	[27]
Goethite	2.13	[28]
Magnetite	5.60	[29]