

Table S1. Summary for the Adsorption Amount by the Powder and the Granular Adsorbent.

Adsorbent		Max. capacity (mg-As g ⁻¹)	Adsorbed amount (mg-As g ⁻¹) at 0.01 mg-As L ⁻¹ *)	remark	Ref.
MnO ₂	electrolyzed	2.22	1.27		
	calcinated	2.26	1.20		
	granular	0.548	0.290		
Activated alumina		15.90	1.41	Langmuir type	[14]
Ferric hydroxide		-	7.98	Freundlich type	[7]

* calculated by the adsorption isotherm

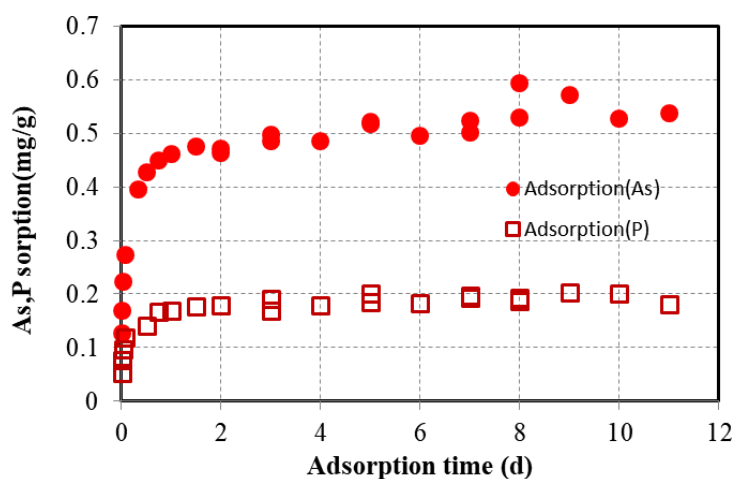


Fig. S1. Profiles of arsenate and phosphate adsorption with the progress of adsorption time.

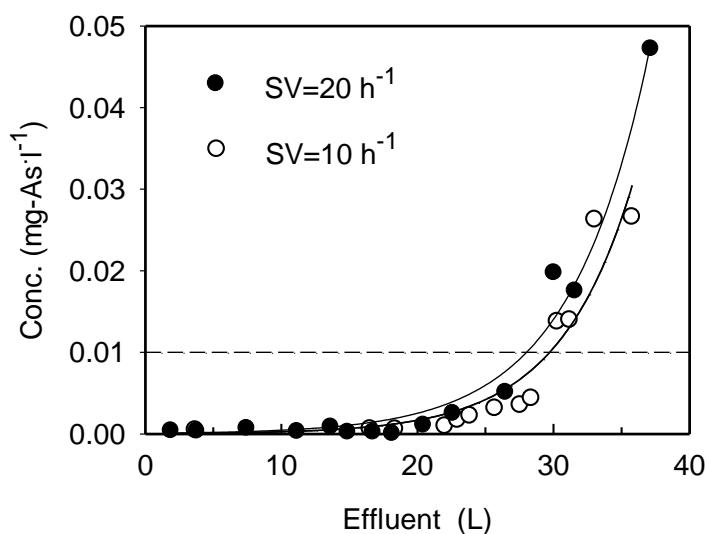


Fig. S2. Breakthrough curves of As(V). Adsorbent: the granular MnO₂ Column: 10 mm i.d.; bed height: 100 mm; bed volume: 7.85 cm³, Feed solution: 0.1 mg-As·L⁻¹.