

Table S1. Components of soil with As contamination via XRF.

Components	Mass (%)
SiO ₂	61.69
Al ₂ O ₃	14.72
CaO	12.20
Fe ₂ O ₃	5.67
K ₂ O	2.33
TiO ₂	1.32
MgO	1.02
SO ₃	0.32
P ₂ O ₅	0.31
Na ₂ O	0.24
MnO	0.05
Cr ₂ O ₃	0.04
ZrO ₂	0.03
ZnO	0.02
Co ₂ O ₃	0.02
SrO	0.01
Rb ₂ O	0.01

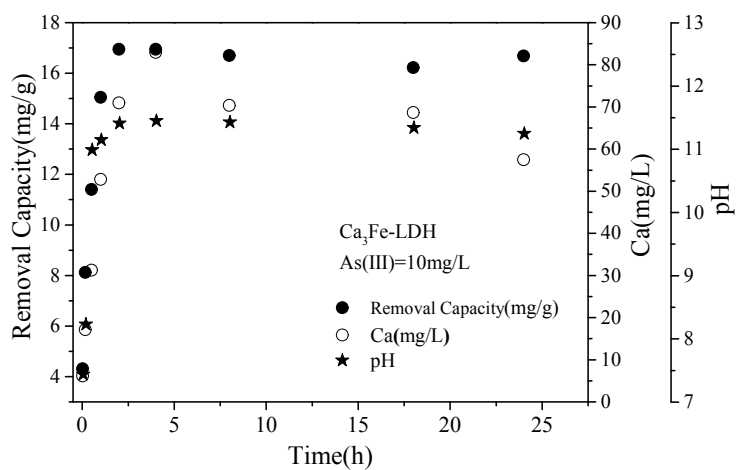


Figure S1. The removal of As(III), Ca concentration and pH in solution by Ca binary LDH.

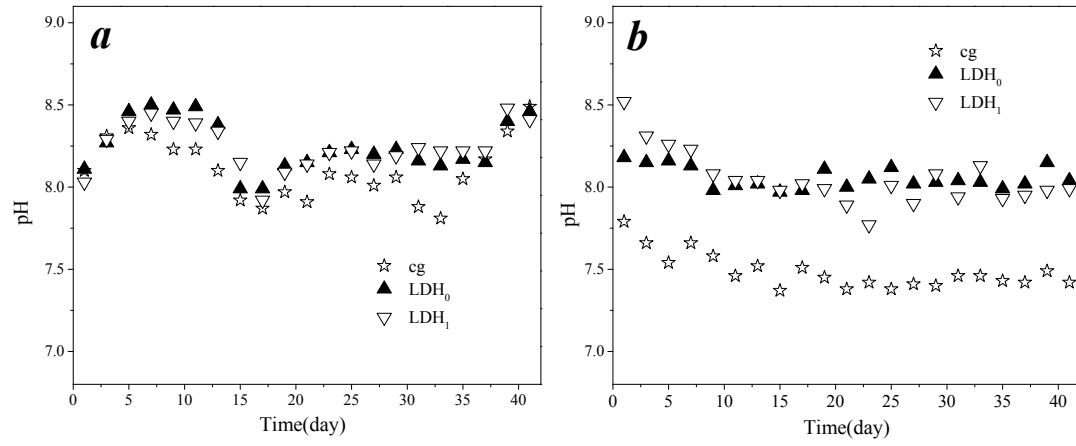


Figure S2. pH value in (a) surface water, (b) pore water.