

Supplementary Table S5 Details of extraction procedure for Shiowatana method

As speciation	Extractive reagents	Reaction time and temperature
Water-soluble As (F _{S1})	Deionized water (pH = 6)	25 °C, 16 h
Surface-adsorbed As (F _{S2})	0.5 M NaHCO ₃ (pH = 9)	25 °C, 16 h
Fe/Al associated As (F _{S3})	0.1 M NaOH (pH = 13)	25 °C, 16 h
Acid-extractable As (F _{S4})	1 M HCl	25 °C, 16 h
Residual As (F _{S5})	14 M HNO ₃	200 °C, 15 min