

1. Record Nr.	UNINA9910346775303321
Autore	Nothstein Alexandra Kelly
Titolo	Selenium Transfer between Kaolinite or Goethite Surfaces, Nutrient Solution and Oryza Sativa
Pubbl/distr/stampa	KIT Scientific Publishing, 2016
ISBN	1000051067
Descrizione fisica	1 online resource (XXV, 244 p. p.)
Collana	Karlsruher mineralogische und geochemische Hefte : Schriftenreihe des Instituts für Angewandte Geowissenschaften
Soggetti	Social & cultural anthropology, ethnography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The aim of this study was to describe and quantify Se transfer at the interface between soil and plant. For this purpose, three Se reservoirs were defined: soil, soil solution and plant, represented by kaolinite or goethite, nutrient solution and rice. First, Se transfer from solution to plant and Se partitioning in the plant was studied; then adsorption-desorption processes of Se onto kaolinite and goethite were investigated. Finally, a mass balance of the combined experiment was modelled.