



# Investigation of Uranium Binding Forms in Environmentally Relevant Waters and Bio-fluids

By Alfatih Ahmed Alamin Osman

Tudpress Verlag Der Wissenschaften Gmbh Aug 2014, 2014. Taschenbuch. Book Condition: Neu. 270x190x9 mm. This item is printed on demand - Print on Demand Titel. Neuware - Uranium from natural and anthropogenic sources is continuously and increasingly released into the environment, enters the food chain, and eventually accumulates into the bio-systems including humans posing both chemical and radiological hazards. Therefore, exposure of human to uranium becomes more and more a subject of interest in many scientific disciplines such as environmental medicine, toxicology, and radiation protection. Ingestion of uranium via food and drinking water is one of the most important pathways of exposure. The ongoing discussion in Germany and the European Union (EU) on the maximum uranium levels in drinking water reflects the increasing awareness of uranium as a public health problem. Knowledge about uranium chemical binding forms (speciation) can provide detailed information on uranium behavior (mobility, bioavailability, and toxicity) in both geo-systems and bio-systems. In the current work, uranium speciation in natural samples (water, bio-fluids) was elucidated by both spectroscopic means and theoretical modeling using the most recent thermodynamic stability constants for aqueous uranium complexes. For this purpose, environmentally relevant waters (mineral water, groundwater, acid drainage waters) and natural human...

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