

# Bioinorganic Vanadium Chemistry



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出版者:

出版时间:2008-4

装帧:

isbn:9780470065167

Vanadium is named after Vanadis, the most aristocratic of Norse goddesses, who symbolises beauty and fertility - essential features of vanadium chemistry. It is a ubiquitous trace element, with a surprising range of biological functions. In *Bioinorganic Vanadium Chemistry*, Dieter Rehder addresses the major aspects of vanadium chemistry related to living organisms and the mutual impact between biological and inorganic vanadium chemistry. Topics covered include: the history, natural occurrence, distribution and impact of vanadium inorganic aspects of the function of vanadium in biological systems interaction of aqueous vanadate and vanadyl with biogenic ligands vanadium coordination compounds the vanadium-carbon bond methods of characterisation of biogenic and model vanadium systems (EPR and ENDOR for oxovanadium(IV); 51 V NMR for vanadium(V); XAS) vanadium in ascidians and polychaeta worms the concentration of vanadium in the form of amavadin by *Amanita* mushrooms vanadate-dependent haloperoxidases vanadium and the nitrogen cycle vanadate as energiser for bacteria, and vanadophores medicinal aspects including the anti-diabetic potential of vanadium compounds interaction of vanadium with proteins and protein substrates vanadium and phosphate-metabolising enzymes *Bioinorganic Vanadium Chemistry* conveys the essential aspects of vanadium bioinorganic chemistry, making this book a valuable

complement to more general bioinorganic chemistry texts and more specialized topical reviews for researchers and students alike.

作者介绍:

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