

Molybdenum Chemistry of Biological Significance

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Molybdenum performs various functions essential for life. It appears to play a role in nitrogen metabolism akin to the roles of iron and copper in oxygen metabolism. It occurs in bacteria, fungi, plants, insects, birds, and mammals, and is involved in enzymes responsible for such phenomena as nitrogen fixation, nitrate reduction, and purine catabolism. The current interest in molybdenum chemistry stems from this importance in biology.

Molybdenum Chemistry of Biological Significance brings together both biological and abiological research approaches focused on elucidating and duplicating the mech-

anisms of molybdenum-containing enzymes. It covers a broad spectrum of interests, including research on the enzymes themselves, iron-molybdenum cofactor and Mo-Fe-S cubane clusters, and reactions and properties of molybdenum complexes.

An important source of new information on the latest research results in the field and a useful reference tool, *Molybdenum Chemistry of Biological Significance* will also serve to familiarize newcomers with the state of the art in this vital area of research.

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