Bioinorganic Chemistry [Trace Element Evolution from Anaerobes to Aerobes /

Goodenough, John B.,
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Jrgensen, Christian K.,
editor
Mingos, David M. P.,
editor
Palmer, Graham A.,
editor
Sadler, Peter J.,
editor
Weiss, Raymond.,
editor
Williams, Robert J. P.,
editor
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Monografía

In this book the first three chapters outline the chemistry of nickel and heme largely associated with anaerobic life and believed to represent reactions which took place some 3-4x109years ago. Nickel has disappeared from the chemistry of man. The fascinating detail of the "primitive" catalysts is of interest to industrial society since very simple feed-stock is used, hydrogen, carbon monoxide and sulphate for example. The fourth chapter switches attention to a metal which became valuable later in evolution, copper, and which is involved with the use of dioxygen. It also has extremely interesting catalytic sites in enzymes. The essence of the volume lies in an appreciation of metallo- enzymes and their changing roles as the environment changed

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