



Metallofactors that Activate Small Molecules [With Focus on Bioinorganic Chemistry /

Rippe, Markus W,
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Chemistry, inorganic

Catalysis

Enzymes

Biotechnology

Biochemistry

Inorganic Chemistry

Enzymology

Protein Structure

Monografía

This volume highlights recent progress on the fundamental chemistry and mechanistic understanding of metallofactors, with an emphasis on the major development in these areas from the perspective of bioinorganic chemistry. Metallofactors are essential for all forms of life and include a variety of metals, such as iron, molybdenum, vanadium, and nickel. Structurally fascinating metallofactors featuring these metals are present in many bacteria and mediate remarkable metabolic redox chemistry with small molecule substrates, including N₂, CO, H₂, and CO₂. Current interest in understanding how these metallofactors function at the atomic level is enormous, especially in the context of sustainably feeding and fueling our planet; if we can understand how these cofactors work, then there is the possibility to design synthetic catalysts that function similarly. .

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbgVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjQ2MzY2MTg>

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Autores: Rippe, Markus W, ed. lit

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es