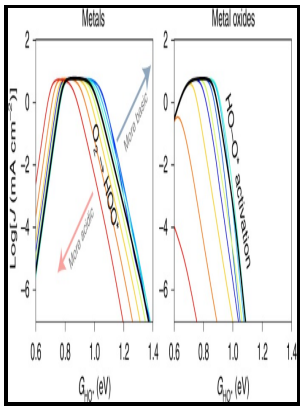
Catalytic activation of dioxygen by metal complexes

Kluwer Academic Publishers - Catalytic dioxygen reduction mediated by a tetranuclear cobalt complex supported on a stannoxane core



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Catalysis by metal complexes ;Catalytic activation of dioxygen by metal complexes
Notes: Includes bibliographical references and index.
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Catalytic activation of dioxygen by oximatocobalt(II) and oximatoiron(II) complexes for catecholase

Format E-Book Published Dordrecht : Springer Netherlands : Imprint: Springer, 1992. Schiff base complexes also catalyzed the oxidation of sulfides, thioanisoles, aldehydes, phenol and styrene. Subject headings Genre heading Electronic books.

Catalytic Activation of Dioxygen by Metal Complexes

The book gives a survey of those catalyst systems based on metal complexes which have been discovered and studied in the last decade. Mononuclear metal-peroxo species are invoked as the key intermediates in metalloenzymatic or synthetic catalysis.

Catalytic dioxygen reduction mediated by a tetranuclear cobalt complex supported on a stannoxane core

Summary The activation of dioxygen by metal ions has both synthetic potential and biological relevance. If this happens then please refresh your web browser or try waiting two to three minutes before trying again.

Catalytic dioxygen reduction mediated by a tetranuclear cobalt complex supported on a stannoxane core

Furthermore, computational studies provide a new mechanism for the osmium-peroxo-mediated alcohol oxidation, starting with the concerted double-hydrogen transfer and followed by the generation of osmium-oxo species.

Catalytic activation of dioxygen by oximatocobalt(II) and oximatoiron(II) complexes for catecholase

This trend is due obviously to the relevance of catalytic oxidation to biological processes such as dioxygen transport, and the action of oxygenase and oxidase enzymes related to metabolism. Detailed mechanistic insights were obtained on the basis of kinetic studies on the overall catalytic reaction as well as by low-temperature spectroscopic UV-Vis, resonance Raman and X-ray absorption spectroscopies trapping of the end-on μ-1,2-peroxodicobalt III intermediate 1. Dioxygen is the cleanest oxidant for use in emission-free technologies to minimize pollution of the environment.

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