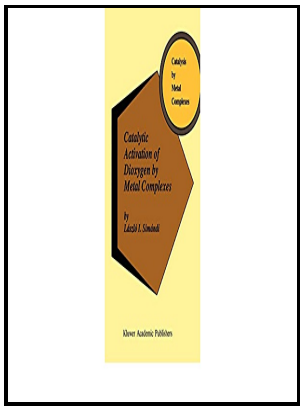
Catalytic activation of dioxygen by metal complexes

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



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

Mechanistic aspects are emphasized throughout the book. Schiff base complexes in super critical carbon dioxide ScCO 2 and in the presence of polar solvents were active catalysts.

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

However, either transience or sluggishness reactivity of synthetic analogs of metal-peroxo species impedes our understanding of oxygen activation mechanism.

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Mechanistic aspects are emphasized throughout the book.

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Advances in Catalytic Activation of Dioxygen by Metal Complexes

This approach has come to be known as biomimetic or bioinspired catalysis and continues to be a fruitful and expanding area of research. Schiff base complexes of metal ions were catalytic in ring opening polymerization processes at low temperature. The book gives a survey of those catalyst systems based on metal complexes which have been discovered and studied in the last decade.

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