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Kinetic and thermodynamic parameters of copper-dioxygen interaction with different oxygen binding modes (Karlin, K.D. (117) 215)

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A novel catalysis of N-hydroxyphthalimide (NHPI) combined with $Co(acac)_n$ (n=2 or 3) in the oxidation of organic substrates with molecular oxygen (Ishii, Y. (117) 123)

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Copper- and vanadium-catalyzed asymmetric oxidations (Bolm, C. (117) 347)

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Functional models for the oxygen binding/activating hemeproteins, myoglobin and cytochrome c oxidase (Collman, J.P. (117) 9)

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The photoreactions of the carboxylate complexes of 5,10, 15,20-tetra(2-*N*-methylpyridyl)porphyrin (Gilbert, B.C. (117) 249)

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Ozone as primary oxidant in iron(III) porphyrin catalyzed hydroxylation of hydrocarbons (Gross, Z. (117) 243)

The photoreactions of the carboxylate complexes of 5,10, 15,20-tetra(2-*N*-methylpyridyl)porphyrin (Gilbert, B.C. (117) 249)

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Propylene epoxidation with hydrogen peroxide and titanium silicalite catalyst: Activity, deactivation and regeneration of the catalyst (Thiele, G.F. (117) 351)

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 $PMo_{12-n}V_nO_{40}^{(3+n)-}$ heteropolyanions as catalysts for aerobic oxidation (Kozhevnikov, I.V. (117) 151)

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Catalytic oxidation with dinuclear Cu(I) macrocyclic dioxygen complexes as intermediates (Martell, A.E. (117) 205)

Cyclohexane oxidation using transition metal-containing aluminophosphates (MAPO-VFI) (Luna, F.J. (117) 405)

Catechol oxidation

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Catechols

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The selective oxidation of toluenes to benzaldehydes by cerium(III), hydrogen peroxide and bromide ion (Auty, K. (117) 279)

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Oxygen and I (Barton, D.H.R. (117) 3)

Chloroperoxidase

Chloroperoxidase catalyzed oxidations in *t*-butyl alcohol/water mixtures (Van Deurzen, M.P.J. (117) 329)

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Relation between structure and catalytic properties of transition metal complexes with heteropolyanion $PW_{11}O_{39}^{7-}$ in oxidative reactions (Kuznetsova, L.I. (117) 389)

Cobaloxime(II)

Kinetics and mechanism of the cobaloxime(II) catalyzed oxidative dehydrogenation and double bond cleavage of 3,3', 5,5'-tetra-tert-butyl-4,4'-dihydroxystilbene by O₂ (Simándi, L.I. (117) 299)

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Solid state cyanocobaltates that reversibly bind dioxygen: synthesis, structure and reactivity relationships (Ramprasad, D. (117) 273)

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A novel catalysis of N-hydroxyphthalimide (NHPI) combined with $Co(acac)_n$ (n=2 or 3) in the oxidation of organic substrates with molecular oxygen (Ishii, Y. (117) 123)

Cobalt porphyrins

Functional models for the oxygen binding/activating hemeproteins, myoglobin and cytochrome c oxidase (Collman, J.P. (117) 9)

Copper catalyst

Aerobic oxidation of alkanes and alkenes in the presence of aldehydes catalyzed by copper salts and copper-crown ether (Komiya, N. (117) 21)

Copper complexes

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Copper(I) dioxygen complexes

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Copper(II) complexes

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Copper-oxygen chemistry

Functional models for the oxygen binding/activating hemeproteins, myoglobin and cytochrome c oxidase (Collman, J.P. (117) 9)

Copper protein models

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Aerobic oxidation of alkanes and alkenes in the presence of aldehydes catalyzed by copper salts and copper-crown ether (Komiya, N. (117) 21)

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Cyclohexane

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Cyclohexanone oxime

A study of the organic by-products in the cyclohexanone ammoximation (Cesana, A. (117) 367)

Cytochrome c oxidase models

Cytochrome c oxidase models. Dinuclear iron/copper complexes derived from covalently modified deuteroporphyrins (Monzani, E. (117) 199)

Decarboxylation

The photoreactions of the carboxylate complexes of 5,10, 15,20-tetra(2-*N*-methylpyridyl)porphyrin (Gilbert, B.C. (117) 249)

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Oxidative desulphurisation of oils via hydrogen peroxide and heteropolyanion catalysis (Collins, F.M. (117) 397)

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Diastereoselective epoxidation of allylic alcohols with hydrogen peroxide catalyzed by titanium-containing zeolites or methyltrioxorhenium versus stoichiometric oxidation with dimethyldioxirane: Clues on the active species in the zeolite lattice (Adam, W. (117) 357)

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Dihydroxystilbene cleavage

Kinetics and mechanism of the cobaloxime(II) catalyzed oxidative dehydrogenation and double bond cleavage of 3,3', 5,5'-tetra-tert-butyl-4,4'-dihydroxystilbene by O₂ (Simándi, L.I. (117) 299)

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Dinuclear heme/copper complexes

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Dioxygen

 $PMo_{12} - _{n}V_{n}O_{40}^{(3+n)}$ heteropolyanions as catalysts for aerobic oxidation (Kozhevnikov, I.V. (117) 151)

Liquid-phase oxygenation of hydrocarbons with molecular oxygen catalyzed by Fc₂Ni-substituted Keggin-type heteropolyanion (Mizuno, N. (117) 159)

Relation between structure and catalytic properties of transition metal complexes with heteropolyanion $PW_{11}O_{39}^{7-}$ in oxidative reactions (Kuznetsova, L.I. (117) 389)

Dioxygen activation

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Dioxygen carriers

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Functional modeling of manganese-containing O₂ evolution enzymes with manganese porphyrin dimers (Naruta, Y. (117) 115)

Epoxidation

Lipase-catalyzed preparation of peroxy acids and their use for epoxidation (Rüsch gen. Klaas, M. (117) 311)

Propylene epoxidation with hydrogen peroxide and titanium silicalite catalyst: Activity, deactivation and regeneration of the catalyst (Thiele, G.F. (117) 351)

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Epoxidation catalysis

Studies on polyoxo and polyperoxo-metalates part 5: Peroxide-catalysed oxidations with heteropolyperoxo-tungstates and -molybdates (Gresley, N.M. (117) 185)

Epoxidation of alkenes

Aerobic oxidation of alkanes and alkenes in the presence of aldehydes catalyzed by copper salts and copper-crown ether (Komiya, N. (117) 21)

Epoxides

New dioxomolybdenum(VI) catalysts for the selective oxidation of terminal n-alkenes with molecular oxygen (Herrmann, W.A. (117) 455)

EPR spectroscopy

The photoreactions of the carboxylate complexes of 5,10, 15,20-tetra(2-*N*-methylpyridyl)porphyrin (Gilbert, B.C. (117) 249)

Fe^{II}-Fe^{IV} and Fe^{III}-Fe^V manifolds

Oxygen and I (Barton, D.H.R. (117) 3)

Fe, Ni-substituted Keggin-type heteropolytungstate

Liquid-phase oxygenation of hydrocarbons with molecular oxygen catalyzed by Fe₂Ni-substituted Keggin-type heteropolyanion (Mizuno, N. (117) 159)

Gas sweetening

The evolution, chemistry and applications of chelated iron hydrogen sulfide removal and oxidation processes (McManus, D. (117) 289)

Gif Chemistry

Oxygen and I (Barton, D.H.R. (117) 3)

Heterogeneous catalysis

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Heterogeneous catalytic oxidation

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Heteropolyanions

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Heteropolycomplexes

Relation between structure and catalytic properties of transition metal complexes with heteropolyanion $PW_{11}O_{39}^{7-}$ in oxidative reactions (Kuznetsova, L.I. (117) 389)

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Studies on polyoxo and polyperoxo-metalates part 5: Peroxide-catalysed oxidations with heteropolyperoxo-tungstates and -molybdates (Gresley, N.M. (117) 185)

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Horseradish peroxidase – a biocatalyst for the one-pot synthesis of enantiomerically pure hydroperoxides and alcohols (Hoch, U. (117) 321)

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Liquid-phase oxygenation of hydrocarbons with molecular oxygen catalyzed by Fe₂Ni-substituted Keggin-type heteropolyanion (Mizuno, N. (117) 159)

Hydrocarbon oxidation

How do electronegative substituents make metal complexes better catalysts for the oxidation of hydrocarbons by dioxygen? (Böttcher, A. (117) 229)

Hydrocarbons

Relation between structure and catalytic properties of transition metal complexes with heteropolyanion $PW_{11}O_{39}^{7-}$ in oxidative reactions (Kuznetsova, L.I. (117) 389)

Hydrogen peroxide

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New (old) hydroxo complexes of platinum(II) as catalysts for the Baeyer-Villiger oxidation of ketones with hydrogen peroxide (Strukul, G. (117) 413)

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The evolution, chemistry and applications of chelated iron hydrogen sulfide removal and oxidation processes (McManus, D. (117) 289)

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Functional models for iron-bleomycin (Roelfes, G. (117) 223) Hydroperoxides

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Hydroxylation

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N-Hydroxyphthalimide

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Imidazole propyl gel

Study of the catalytical intermediates of metalloporphyrins supported on imidazole propyl gel (Iamamoto, Y. (117) 259) Indoles oxidation

Chloroperoxidase catalyzed oxidations in *t*-butyl alcohol/water mixtures (Van Deurzen, M.P.J. (117) 329)

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Study of the catalytical intermediates of metalloporphyrins supported on imidazole propyl gel (Iamamoto, Y. (117) 259) Iron chelates

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Iron(III)

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Iron(III) porphyrin

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Iron/manganese/cobalt tetrasulfophthalocyanines

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Lipas

Lipase-catalyzed preparation of peroxy acids and their use for epoxidation (Rüsch gen. Klaas, M. (117) 311)

Macrocyclic ligands

Catalytic oxidation with dinuclear Cu(I) macrocyclic dioxygen complexes as intermediates (Martell, A.E. (117) 205)

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Manganeseporphyrin

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Oxidation of L-sorbose with molecular oxygen on platinum modified by metals, amines and phosphines (Mallat, T. (117) 425)

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Molybdenum

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Olefins

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Optically active

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Oxidative dehydrogenation

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Oxygen

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Oxygen complex

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Percarbonate

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Perfluoroalkenes

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Perfluoroarenes

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Phase transfer

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Phenols

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Photoreduction

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Platinum complexes

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Porphyrins

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Radical

A novel catalysis of N-hydroxyphthalimide (NHPI) combined with $Co(acac)_n$ (n = 2 or 3) in the oxidation of organic substrates with molecular oxygen (Ishii, Y. (117) 123)

Radical oxidations

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Reactivity in water

Peroxovanadium complexes as radical oxidants in organic solvents and in aqueous solutions (Conte, V. (117) 139)

Regioselectivity

Oxygen and I (Barton, D.H.R. (117) 3)

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Relation between structure and catalytic properties of transition metal complexes with heteropolyanion $PW_{11}O_{39}^{7-}$ in oxidative reactions (Kuznetsova, L.I. (117) 389)

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Cyclohexane oxidation using transition metal-containing aluminophosphates (MAPO-VFI) (Luna, F.J. (117) 405)

Titanium

Diastereoselective epoxidation of allylic alcohols with hydrogen peroxide catalyzed by titanium-containing zeolites or

methyltrioxorhenium versus stoichiometric oxidation with dimethyldioxirane: Clues on the active species in the zeolite lattice (Adam, W. (117) 357)

Titanium silicalite

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Metal complex catalyzed oxidations with hydroperoxides: Inner-sphere electron transfer (Moiseeva, N.I. (117) 39)

Tungsten

Metal complex catalyzed oxidations with hydroperoxides: Inner-sphere electron transfer (Moiseeva, N.I. (117) 39)

Vanadium

Metal complex catalyzed oxidations with hydroperoxides: Inner-sphere electron transfer (Moiseeva, N.I. (117) 39)

Vanadium(IV)

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VFI-structure

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VPI-

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Zeolites

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