
Metal Oxo And Metal Peroxo Species In Catalytic Oxidations

evaluation of thermal and radiation induced chemistries of ... - metal oxo-hydroxo clusters are discrete structures on the order of 1 nm or smaller, characterized by significant metal-oxygen bonding. these species offer a promising approach to ultrahigh resolution patterning, for example, using photo-lithography at euv wavelengths and beyond,¹⁷ as highly **titanium(iii)-oxo clusters in a metal-organic framework ...** - metal oxides have found broad applications in the chemical industry as catalyst supports by using surface oxo/hydroxo groups to coordinate to catalytic metal centers. such surface oxo/hydroxo ligands are readily available, thermally robust, and chemically stable, but lack tunability of their electronic and **review* of metallic resists for euv** - solubility of these metal oxo-films. dehydration is prevented by binding peroxide to hf. fortunately, the metal peroxide decomposition can be induced by high-energy light or electrons (eq 2) thereby creating metal hydroxides that can condense and become insoluble. in brief, the metal peroxides allow the resists to dissolve in the unexposed **mechanistic studies of metal-oxo cubane catalysts for ...** - the metal-metal ($d = 2.8 \text{ \AA}$) and metal-oxo ($d = 1.9 \text{ \AA}$) distances in cop. i. and psii-oec are similar. a view of the dicubane structure rotated by 45° is also shown in figure 1. in this view, it is easier to see that cop. i. consists of edge-sharing octahedron, which is the basic building block of alkali metal cobaltate the s. **metal-ligand multiple bonds. oxo, imido and nitrido ...** - non-oxidizing metal-oxo complexes may be an appropriate description but the situation could be quite different in the cases of ruthenium-oxo and in some high-valent osmium-oxo complexes. to account for the high affinity of $[\text{Fe}^{\text{IV}}(\text{porp}^+)_2]$ (porp⁺ = porphyrinato cation radical) in the oxidation of **metal-oxo and metal-peroxo species in catalytic oxidations** - metal-oxo and metal-peroxo species in catalytic oxidations volume editor: b. meunier with contributions by w. adam, f. banse, j. bernadou, a.g. blackman, **applications of x-ray absorption techniques for ...** - applications of x-ray absorption techniques for characterization of metals, metal cations, and metal oxo species in catalysts applications of x-ray absorption techniques for characterization of metals, metal cations, and metal oxo species in catalysts alexis t. bell department of chemical engineering university of california berkeley, ca 94720-1462 **high-valent metal-oxo intermediates in energy demanding ...** - metal-oxo intermediates in energy demanding processes: from dioxygen reduction to water 1 splitting kallol 2 ray, florian heims 1, matthias schwalbe and wonwoo nam four-electron reduction of dioxygen to water and splitting of water to dioxygen are extremely important processes in the context of attaining clean renewable energy sources. high-valent **transition metal salts - oxo-biodegradable plastics ...** - transition metal salts questions are sometimes asked about the effect of transition metal compounds (often inappropriately called "heavy metals") present in oxo-biodegradable plastics. the heavy metals known to science are lead, mercury, cadmium and chromium. none of these are used in pro-oxidant additive for oxo-biodegradable plastics. **early- versus late-transition-metal-oxo bonds: the ...** - j. phys. chem. 1988, 92, 2109-2115 2109 early- versus late-transition-metal-oxo bonds: the electronic structure of VO^+ and RuO^+ emily a. cartert and william a. goddard iii* arthur amos noyes laboratory of chemical physics, california institute of technology, **a well-defined terminal vanadium(iii) oxo complex** - the metal-centered one-electron reduction of this vanadium(iv) oxo complex furnishes a stable, diamagnetic $[\text{V}^{\text{III}}(\text{O})(\text{py}5\text{me}2)]^+$ (3) species. the vanadium(iii) oxo species is unreactive toward h- and o-atom transfer but readily reacts with protons to form a putative vanadium hydroxo complex. **perspective dalton department of chemistry, university of ...** - 2648 j. chem. soc., dalton trans., 2000, 2647-2657 biological interest in late transition metal oxo and imido chemistry originates from several areas.⁷ the reaction of molecular oxygen with $\text{Cu}(\text{O})$ complexes, of long standing **the reactivity of the active metal oxo and hydroxo ...** - the reactivity of the active metal oxo and hydroxo intermediates and its implications in oxidations zhuqi chen and guochuan yin* while the significance of the redox metal oxo moieties have been fully acknowledged in versatile oxidation processes, active metal hydroxo moieties are gradually realized to play the **oxygen transfer in electrophilic epoxidation probed by 17O ...** - between the so-called metal spectator oxo and the peroxo moieties that raise the energy of the high-lying lone-pair on oxygen, thus increasing the reactivity of the peroxo species. introduction electrophilic epoxidations are at the core of numerous processes, ranging from the industrial synthesis of propylene **enantioselective reduction of imines catalyzed by a ...** - oxidation metal-oxo catalyst. particularly noteworthy is the chemo- and enantioselective reduction of α,β -unsaturated imines to allylic n -phosphinyl amines, which can undergo further transformations.¹³ this reaction provides a rare example of a catalytic process employing a chiral rhenium complex.¹⁴ while chiral metal-oxo

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