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The result is an up-to-date review of metal oxides in catalysis. The first volume covers a range of techniques that are used to characterize oxides, with each chapter written by an expert in

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the field. Volume 2 goes on to cover the use of metal oxides in catalytic reactions.

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Here we employ reaction kinetics measurements, extensive catalyst characterization, first

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principles calculations
and microkinetic
modelling to reveal
metal oxides as a
general class of
catalysts...

Fundamentals of C-O bond activation on metal oxide catalysts

Mixed metal oxides are
used as catalysts in the
gas phase partial
oxidation of
hydrocarbons. This
paper will present the

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principles of catalyst choice for selective oxidation reactions as well as the structural features of metal oxide catalysts. The nature of active sites in selective oxidation reactions will also be briefly discussed.

Metal Oxides in Heterogeneous Catalysis | ScienceDirect

Among all catalysts and catalytic reactions,

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metal oxide catalysts and catalytic reactions are essential in most refining and petrochemical processes, in synthesizing specialty chemicals and more recently in improving environmental issues (depollution, high selectivity in reactions to avoid un-useful by-products).

**Importance,
features and uses of**

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metal oxide catalysts in ...

Vanadium-free oxide catalysts Variable-valence metal oxides are generally active in NH_3 -SCR. Mn-, Fe-, and Ce-based oxides are three representative types of vanadium-free oxide catalysts those have attracted most attentions [4, 9, 10].

Theory and practice of metal oxide

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catalyst design for the ...

Metal oxides excel at catalyzing gas phase reactions by photo-activation, as well as thermal activation of the catalyst. Oxidation of hydrocarbons, alcohols, carbon monoxide, and ammonia occurs when stimulated with light of greater energy than the band gap of the metal oxide.

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Surface properties of transition metal oxides - Wikipedia

Metal oxides are occasionally used as a catalyst. Cheaper and more resistant to poisoning than precious metal catalysts, they are often less durable and efficient than noble metals. Non-noble metal based catalysts can be either supported or unsupported metal

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oxides, and are readily available at a low price compared to noble metals.

Types of Catalysts in Catalytic Oxidation

Overall, further development of encapsulation techniques will certainly lead to an expansion of the library of metal as well as metal oxide, carbide, sulfide, etc., catalysts that can be

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confined inside the zeolite pores, for performing various catalytic reactions in a shape-selective manner.

Engineering of Transition Metal Catalysts Confined in ...

Two main methods are used to prepare supported catalysts. In the impregnation method, a suspension of the solid support is

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treated with a solution of a precatalyst, and the resulting material is then activated under conditions that will convert the precatalyst (often a metal salt) to a more active state, perhaps the metal itself.

Catalyst support - Wikipedia

At present, two types of catalysts, namely, noble metal catalysts and non-noble metal

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oxides, have been exploited for this purpose. Although transition metal oxide catalysts, and especially CoMn-based catalysts, have shown superior performance for HCHO oxidation [7], their activity at low temperatures ($<70\text{ }^{\circ}\text{C}$) is still quite low and leaves much room for improvement [8 , 9].

New insights into alkaline metal

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modified CoMn- oxide ...

Inverse catalysts—oxides supported on metals—offer an attractive alternative to overcome the constraints of typical supported metal catalysts because reactants can bind to sites in the oxide...

Inverse iron oxide/metal catalysts from

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galvanic ...

Water Oxidation

Catalysis:

Electrocatalytic

Response to Metal

Stoichiometry in

Amorphous Metal

Oxide Films Containing

Iron, Cobalt, and Nickel

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Water Oxidation

Catalysis:

Electrocatalytic

Response to ...

Metal oxide catalysts

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such as those based on Mn have good NH_3 -SCR activity at lower temperatures; however, they are severely negatively impacted at higher temperatures [,,,].

Cu-SSZ-13 zeolite-metal oxide hybrid catalysts with ...

Oxygen vacancies in metal oxide catalysts are often considered as intrinsic active centers

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for many important redox reactions. People normally believe that the catalytic activity on these vacancies is a function of the concentrations of the vacancies and the surrounding reduced cations.

Asymmetric Oxygen Vacancies: the Intrinsic Redox Active ...

The interfacial effect between a metal

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catalyst and its various supporting transition metal oxides on the catalytic activity of heterogeneous catalysis has been extensively explored; engineering interfacial sites of metal supported on metal oxide has been found to influence catalytic performance.

**Engineering
Nanoscale Interfaces
of Metal/Oxide**

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Nanowires ...

Metal and metal oxide NPs may impart catalytic properties to polymer nanocomposites, while polymers with a different structure, functionality, and architecture control the NP formation (size, shape, location, composition, etc.) and in this way, govern catalytic properties of nanocomposites.

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Role of Polymer Structures in Catalysis by Transition ...

The development of inexpensive transition metal oxide catalysts that exhibit high catalytic activities for CO oxidation is in high demand. However, these metal oxide catalysts are susceptible to moisture, as they can be quickly deactivated in the presence of

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trace amounts of
moisture.

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