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contributions to organometallic
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Chemisorption, decomposition and reactivity of $\text{Os}_3(\text{CO})_{12}$, $\text{H}_2\text{Os}_3(\text{CO})_{10}$ and $\text{Os}_6(\text{CO})_{18}$ supported on silica and alumina and the investigation of the fischer-tropsch catalysis with these systems. Journal of Organometallic Chemistry 1981 , 213 (1) ,

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215-247.

Towards An Understanding Of
(PDF) Adsorption, chemisorption,
and catalysis

Chemisorption is a kind of
adsorption which involves a
chemical reaction between the
surface and the adsorbate. New

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chemical bonds are generated at the adsorbant surface. Examples include macroscopic phenomena that can be very obvious, like corrosion, and subtler effects associated with heterogeneous catalysis, where the catalyst and reactants are in different phases.

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Catalysis. [Richard M Lambert;
Gianfranco Pacchioni] --

Heterogeneous catalysis provides the backbone of the world's chemical and oil industries. The innate complexity of practical catalytic systems suggests that useful progress should be

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Chemisorption - Wikipedia

Chemisorption is used to
quantitatively measure the number
of surface active sites which are

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used to promote a specified
catalytic reaction. Critical
parameters for chemisorption
measurement are: the area of the
active element, metal dispersion,
surface acidity, exposed
proportion of the active element.

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Abstract. This review article
focuses on correlating the catalytic
reactivity of NPs and their
geometry. It illustrated that
chemisorption and catalytic
properties such as the onset

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reaction temperature, the activity, and selectivity of a nanocatalyst may be tuned through controlled synthesis of NPs with well-defined sizes and shapes.

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2. Chemisorption and Catalytic Activity. As noted in Section 1, any attempted correlation of the catalytic activity of a gold particles with its physical or chemical properties must necessarily be indirect, since activity is determined by the manner in which

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reactants and species derive from them are chemisorbed on the surface, that is to say, on the type of new chemical bonds that are formed.

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In this work, the reactivity of
supported Co catalysts as a
function of the oxide support
(alumina, silica-alumina, zirconia

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and titania) and Re promoter for the hydrodeoxygenation of phenol at 300 °C and 3 MPa H₂ using a batch autoclave reactor was investigated. The catalyst properties have been obtained fr

Model oxide-supported metal

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A short history of the relationships
among adsorption, chemisorption,
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reviewed. A special focus is on the
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is a prerequisite for the
understanding of

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structure – reactivity correlations,
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we first review different synthesis
methods that result in narrow NP
size distributions and shape
controlled NPs. ... For Cu NPs
supported on ...

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dependent Chemisorption and ...
Abstract. Many industrially
important catalysts consist of late
transition metal particles
supported on the surfaces of oxide
materials. Our studies of such
systems using model catalysts
consisting of metal films vapor

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deposited onto the surfaces of
single-crystalline oxides are
reviewed here.

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The chemical and electronic
interactions of organometallic

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species with metal oxide support materials are of fundamental importance for the development of new classes of catalytic materials. Chemisorption of $\text{Cp}^*(\text{PMe}_3)\text{IrMe}_2$ on sulfated alumina (SA) and sulfated zirconia (SZ) led to an unexpected redox mechanism for

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