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The supported copper hydroxide catalyst on manganese oxide-based octahedral molecular sieve OMS-2 ( $\text{Cu}(\text{OH})_x/\text{OMS-2}$ ) was designed on the basis of the concept of coupled electron transfer. OMS-2 could act as not only a support for copper hydroxide species but also an electron-transfer mediator (cocatalyst) to generate a rapid electron-transfer path from an alkyne to dioxygen. As a result,  $\text{Cu}(\text{OH})_x$  ...

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Weinheim ; Cambridge : Wiley-VCH,  
c2006. Physical description. xiii, 474 p. :  
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### **Molecular heterogeneous catalysis : a conceptual and ...**

As its name implies, a heterogeneous catalyst exists as a separate phase (almost always a solid) from the one (most commonly a gas) in which the reaction takes place. The catalytic effect arises from disruption (often leading to dissociation) of the reactant molecules brought about by their interaction with the surface of the catalyst.

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Heterogeneous catalysis typically involves solid phase catalysts and gas phase reactants. In this case, there is a cycle of molecular adsorption, reaction, and desorption occurring at the catalyst



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surface. Thermodynamics, mass transfer, and heat transfer influence the rate (kinetics) of reaction.

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catalytically active site is crucial for the excellent performance of biocatalysts in a vast number of processes. However, many catalytic processes occur under reaction conditions for which biocatalysts are less suited.

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molecular level to heterogeneous  
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