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His research interests are in the field of the molecular aspects of heterogeneous catalysis with the following three main themes: computational studies of surface-chemical reactivity, mechanism in heterogeneous catalysis and physical chemistry of catalyst synthesis.

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Sulfuric Acid-Catalyzed Conversion of Alkynes to Ketones in an Ionic Liquid Medium under Mild Reaction Conditions. Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong SAR, China.

### **Sulfuric Acid-Catalyzed Conversion of Alkynes to Ketones**

In acid catalysis and base catalysis a chemical reaction is catalyzed by an acid or a base. The acid is the proton donor and the base is the proton acceptor, known as Brønsted-Lowry acid and base respectively. Typical reactions catalyzed by proton transfer are esterifications and aldol reactions. In these reactions the conjugate acid of the carbonyl group is a better electrophile than the ...

### **Acid catalysis - Wikipedia**

donor on the reactivity of the Lewis acidic acceptor. The family of  $\pi$ - $\pi^*$  interactions represents the largest and most commonly recognized form of Lewis base catalysis, and

### **ReactionMechanisms DOI:10.1002/anie.200604943**

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