

## Cooperative Catalysis Designing Efficient Catalysts For Synthesis

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### Cooperative Catalysis Designing Efficient Catalysts

Metal species encapsulated in finned zeolites ensure a large configuration diffusion rate and high surface permeability, simultaneously. This structure breaks the trade-off effect between diffusion length and surface barrier attributed to epitaxial growth of well-crystallized finlike protrusions on seed crystals. It exhibited a quite high specific activity in PDH. View the article.

### ACS Catalysis | Vol 12, No 2

A new strategy for enantioselective transition-metal catalysis is presented, wherein a H-bond donor placed on the ligand of a cationic complex allows precise positioning of the chiral counteranion responsible for asymmetric induction. The successful implementation of this paradigm is demonstrated in 5-exo-dig and 6-endo-dig cyclizations of 1,6-enynes, combining an achiral phosphinourea Au(I) ...

### H-Bonded Counterion-Directed Enantioselective Au(I) Catalysis

The key to designing new or better heterogeneous catalysts from first principles is to understand the active site not in spite of but including the full complexity and related multidimensionality ...

### The concept of active site in heterogeneous catalysis ...

Plastics pollution is causing an environmental crisis, prompting the development of new approaches for recycling, and upcycling. Here, we review challenges and opportunities in chemical and ...

### Chemical and biological catalysis for plastics recycling ...

Artificial photosynthesis is a chemical process that biomimics the natural process of photosynthesis to convert sunlight, water, and carbon dioxide into carbohydrates and oxygen. The term artificial photosynthesis is commonly used to refer to any scheme for capturing and storing the energy from sunlight in the chemical bonds of a fuel (a solar fuel). ...

### Artificial photosynthesis - Wikipedia

Protein Sci. 2015. 24: p. 762-778) of significant participation in catalysis by residues outside the first shell, but these effects are poorly understood. As we uncover details of how nature builds protein catalysts, we establish best practices for enzyme design.

### Chemistry REU - Northeastern University College of Science

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The research community at the School of Science is multidisciplinary, enabling our researchers and students to collaborate with experts across the university, and with a range of industry partners.

### **School of Science - RMIT University**

Beyond Dong's Rh(I) catalysis, the asymmetric synthesis of  $\gamma$ -lactones (Figure 12C, 55) was also achieved by combining Co(I) or Ir(I) catalysts with chiral bisphosphine ligands. In Yoshikai's Co(I) catalysis, 88 sub-stoichiometric amount of indium powder is required to reduce CoBr<sub>2</sub> precatalyst and to prevent potential catalyst deactivation ...

### **Forging C–heteroatom bonds by transition-metal-catalyzed ...**

An efficient and novel Ag I-catalyzed methodology for the synthesis of multisubstituted 4-silyloxyproline-3-carboxylates with broad variability for the placement of substituents at the 2-, 5-, and N-positions is presented. Convenient conversion of imino ethers to fully substituted pyrroles with uniformly high chemo- and regioselectivity was ...

### **Angewandte Chemie International Edition: Vol 60, No 24**

1. Introduction. Photocatalytic organic transformation to produce useful compounds with a green and sustainable process has been given much attention, especially, in the relation to the industrial production in environmentally friendly and sustainably economical way , , . Various imines are multifunctional intermediates for the synthesis of pharmaceuticals, bioactive compounds and fine chemicals.

### **Oxygen vacancy enhanced visible light photocatalytic ...**

For efficient hydrogen evolution reaction (HER) in water splitting, active, robust, and cost-effective catalysts are highly desired. Here, we present a facile approach to fabricate 1T-phase dominant V-doped MoS<sub>2</sub> nanosheets which can be easily grown on carbon paper at a large scale.

### **Professor Ajayan Vinu / Staff Profile / The University of ...**

A deeper understanding of this enzyme could lead to more efficient catalysts for nitrogen reduction under ambient conditions. Model molecular catalysts have been designed that mimic some of the functions of the active site of nitrogenase. Some modest success has also been achieved in designing electrocatalysts for dinitrogen reduction.

### **Beyond fossil fuel-driven nitrogen transformations**

25. Recent Advances in Two-Dimensional Nanostructures for Catalysis Applications (invited Review article) Bai, S.; Xiong, Y.\* Sci. Adv. Mater. 2015, 7, 2168-2181.-> Selected as an ESI Hot Paper. 2014 . 24. Controllably Interfacing with Metal: A Strategy for Enhancing CO Oxidation on Oxide Catalysts by Surface Polarization

### **Xiong Research Group - USTC**

Heterogeneous catalysis is a mature field, and new porous solids must show specific advantages over established catalysts and catalyst supports such as zeolites, alumina, silica, or simple polymer resin technologies. So far, many heterogeneous MOF catalysts are simply variants of these more classical materials.

### **Function-led design of new porous materials**

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