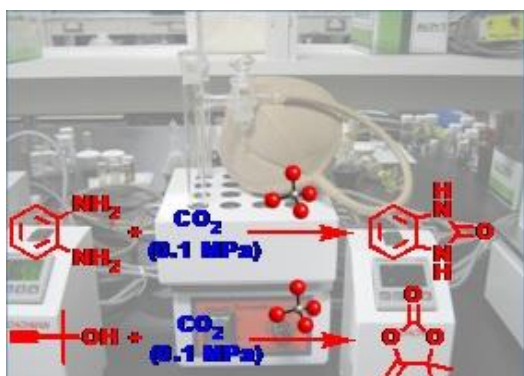
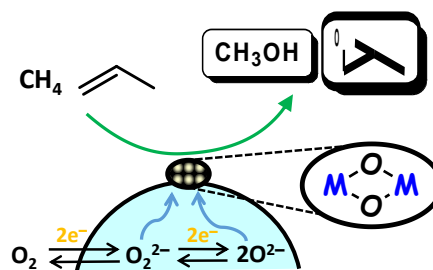


Design and Creation of Catalyst Materials for Difficult Chemical Reactions

Chemical industries leave much room for improvement from the standpoints of environmental conservation and efficiency of resource utilization. Developments of superior catalytic technologies are socially desirable. Our main goals are the development of innovative inorganic catalyst materials and their application to environmentally-conscious chemical processes. For example, we have designed catalysts which can activate inert small molecules such as CO_2 and H_2O_2 , leading to highly efficient catalytic systems. We are also developing inorganic solid catalysts with well-defined active sites by using the know-how about the control of solution-states of metal precursors not only in aqueous but also in organic media.



Development of catalysts for CO_2 chemical fixation at atmospheric pressure



Creation of inorganic solid catalysts with well-defined active sites