

GTR & RCMS Seminar

Design of artificial metalloenzymes for novel in vitro applications

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***Noyori Materials Science Laboratory
Chemistry Gallery***

Metalloenzymes are known to catalyze chemical reactions with exceptionally high regio- and enantioselectivity and with faster reaction kinetics. Metalloenzymes become more desirable than conventional chemical catalysts for the chemical transformation of the substrate having multiple functional groups. The talk would discuss various aspects of the metalloenzymes, such as their structure, functions, the role of the metal center in the catalytic activity, current limitations, and challenges for industrial-scale applications and highlight our recent efforts in this challenging area.

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