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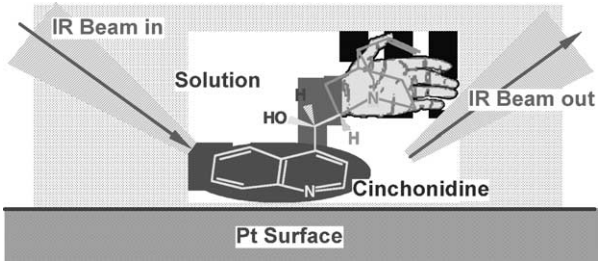
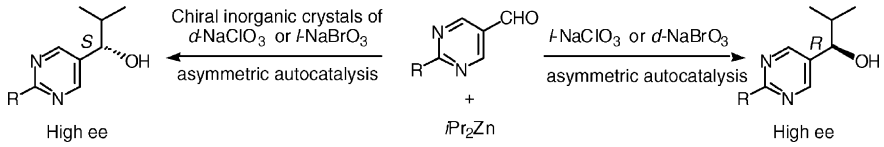
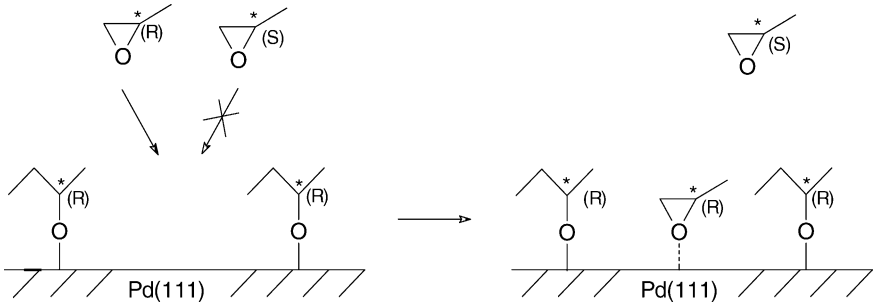
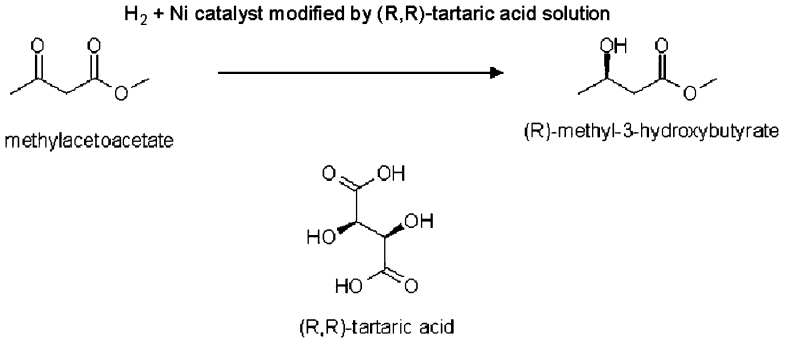
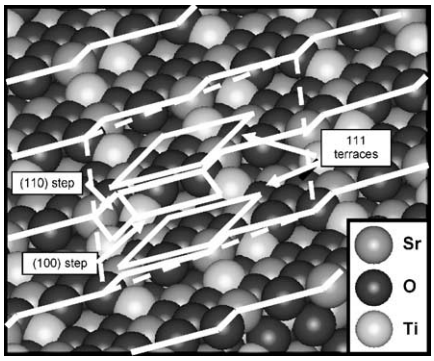


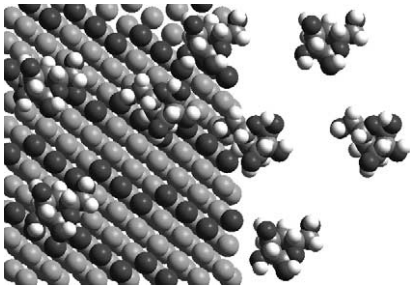


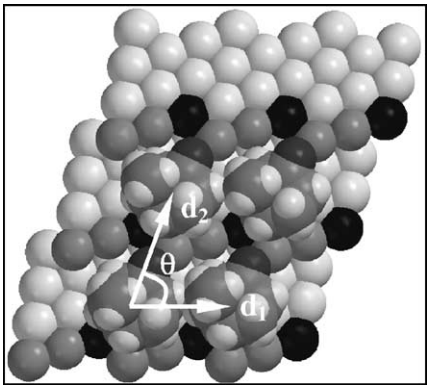


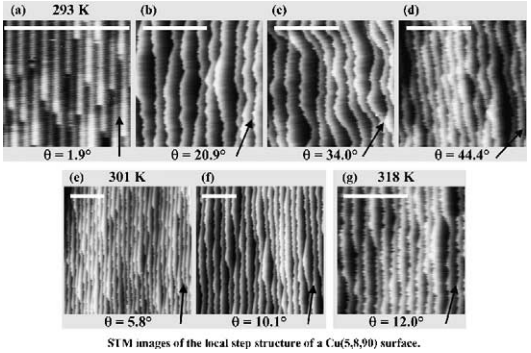
This paper is a model study of the enantioselective catalytic reaction shown below. We investigate how the presence of surface oxygen species affects the adsorption of (*R*,*R*)-tartaric acid on Ni{1 1 1} surfaces.











STM images of the local step structure of a Cu(5,8,90) surface.

Robert T. Downs, Robert M. Hazen

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Chiral indices of crystalline surfaces as a measure of enantioselective potential

Some chiral surfaces deviate more from an achiral configuration and possess greater enantioselective potential than others. We describe a procedure to calculate chiral indices of two-dimensional periodic atomic surfaces.