

Amnon Kohen

University of Iowa

CHE 0133117

Enzymes are the biological proteins that enhance, direct and control chemical processes in any living organism. Most enzymatic processes are faster than the uncatalyzed process by many orders of magnitude. In this project, enzymes are studied using tools of organic and physical chemistry. In-depth understanding of how enzymes work from a chemist point of view is fascinating and is also essential to many medicinal and bio-technological applications. The project attempts to elucidate the role of structure-dynamics-activity relationship and of quantum effects in enzyme catalysis.

