

1.	Record Nr.	UNIORUON00034329
	Autore	NGUYEN THIEN GIAP
	Titolo	Dan luan ngon ngu hoc / Nguyen Thien Giap, Doan Thien Thuat, Nguyen Minh Thuyet
	Pubbl/distr/stampa	[Hanoi], : Giao Duc, 1995 324 p. ; 21 cm
	Classificazione	VIE II C
	Altri autori (Persone)	DOAN THIEN THUAT
	Soggetti	LINGUA VIETNAMITA
	Lingua di pubblicazione	Vietnamita
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9911020229003321
	Autore	Woggon Wolf-D
	Titolo	Bioorganic and Enzymatic Catalysis
	Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2023 ©2024
	ISBN	9783527678365 3527678360 9783527678334 3527678336
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (192 pages)
	Disciplina	547.215
	Soggetti	Bioorganic chemistry Catalysis
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Cover -- Title Page -- Contents -- Preface -- 1 Enzymatic CC Bond

Formation by Aldol Reactions -- Aldolases -- Class I Aldolases -- Bioorganic Class I Aldolase Reactions -- Class II Aldolases -- Class II Aldolase Mimics -- References -- 2 Fatty Acid- and Polyketide-Synthases - Claisen-Type CC Bond Formation -- Biomimetic Decarboxylative CC Bond Formation -- References -- 3 Carbenium-Ion-Driven CC Bond Formations - Terpenes -- Enzyme-like Cyclisations Involving Carbenium Ions -- References -- 4 Oxidations Catalysed by Heme Complexes -- Monooxygenases -- Cytochromes P450 -- Synthetic P450 Enzyme Models -- Chloroperoxidase (CPO) -- Synthetic Enzyme Mimics of Chloroperoxidase (CPO) -- NO Synthase (NOS) -- References -- 5 Oxidations Catalysed by Non-heme Complexes and Other Co-factors -- Methane Monooxygenase -- Active Site Analogues of Methane Monooxygenase -- Enzyme Mimics of Cu Monooxygenases -- Flavin-dependent Monooxygenases -- Enzyme Mimics of Baeyer-Villiger Monooxygenases -- References -- 6 C-H Activation -- References -- 7 Dioxygenases -- Metal Complexes Displaying Dioxygenase-like Reactivity -- References -- 8 Oxidoreductases -- Cytochrome c Oxidase -- References -- 9 Synthetic Systems That Mimic Certain Aspects of Oxidoreductases -- References -- Index -- EULA.

Sommario/riassunto

This book, authored by Prof. Wolf-D. Woggon, provides an in-depth exploration of bioorganic and enzymatic catalysis, focusing on the chemical processes involved in enzymatic C-C bond formation, particularly through aldol reactions, and the synthesis of enzyme mimics. It offers a detailed comparison of natural enzymatic reactions with synthetic analogs, emphasizing reaction mechanisms. The text covers topics such as aldolases, Claisen-type reactions, and terpene cyclization, as well as oxidation processes catalyzed by both heme and non-heme complexes. The book is aimed at students with a basic understanding of organic chemistry and professionals in academia or industry seeking to enhance their knowledge of enzymatic catalysis. It includes didactic examples and references, making it a valuable resource for those interested in the application of synthetic methods to mimic natural enzymatic processes.
