1. Record Nr. UNINA9910455332303321

Autore	Burnyeat Myles
Titolo	Aristotle's divine intellect [[electronic resource] /] / Myles F. Burnyeat
Pubbl/distr/stampa	Milwaukee, Wis., : Marquette University Press, 2008
ISBN	1-4416-2347-7 0-87462-345-6
Descrizione fisica	1 online resource (64 p.)
Collana	Aquinas lecture ; ; 2008
Disciplina	128.3 189.42
Soggetti	Intellect Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	short title; title page; copyright page; Prefatory; Aritotle's Divine Intellect; Notes; Bibliography; The Aquinas Lectures (complete list); bar code
Sommario/riassunto	The 2008 Aquinas Lecture, Aristotle's Divine Intellect, was delivered on Sunday, February 24, 2008, by Myles F. Burnyeat, Emeritus Fellow of All Souls College, Oxford University, and Honorary Fellow of Robinson College, Cambridge University.

2. Record Nr. UNINA9910144376003321

Titolo	Organic synthesis with enzymes in non-aqueous media / / edited by Giacomo Carrea and Sergio Riva
Pubbl/distr/stampa	Weinheim, [Germany] : , : Wiley-VCH Verlag GmbH & Co. KGaA, , 2008 ©2008
ISBN	1-283-14039-X 9786613140395 3-527-62172-5 3-527-62173-3
Descrizione fisica	1 online resource (330 p.)
Disciplina	547.02 547.2
Soggetti	Organic compounds - Synthesis Catalysis Enzymes - Synthesis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Organic Synthesis with Enzymes in Non-Aqueous Media; Contents; Preface; List of Contributors; Part One Biocatalysis in Neat Organic Solvents - Fundamentals; 1 Fundamentals of Biocatalysis in Neat Organic Solvents; 1.1 Introduction; 1.2 Effects of Water on Biocatalytic Reactions; 1.2.1 Quantification of Water in Low-Water Systems; 1.2.2 Water Activity Control; 1.2.2.1 Water Activity Control Using Saturated Salt Solutions; 1.2.2.2 Water Activity Control Using Sensors; 1.2.2.3 Water Activity Control Using Pairs of Salt Hydrates; 1.2.3 Distribution of Water; 1.2.3.1 Hysteresis Effects 1.2.4 Water Effects on Activity1.2.5 Water Effects on Selectivity; 1.2.6 Water Effects on Stability; 1.3 Solvent Effects; 1.3.1 Solvent Effects on Enzyme Activity; 1.3.2 Solvent Effects on Stability; 1.4 Effects on Equilibria; 1.4.1 Water Effects on Equilibria; 1.4.2 Solvent Effects on Equilibria; 1.5 Effects of pH in Organic Solvents; 1.6 Concluding

Remarks; 2 Effects of Organic Solvents on Enzyme Selectivity; 2.1 Introduction; 2.2 Enzyme Enantioselectivity; 2.3 Effects of Organic Solvents on the E-value; 2.4 Possible Causes of the Complexity of Solvent Effects on E
2.5 The Accuracy of E-value Determinations2.6 Kinetic and Thermodynamic Analysis of the Specificity Constants; 2.7 Solvents Effects on Non-Hydrolytic Enzymes; 2.8 Major Achievements; 2.9 Concluding Remarks; 3 Activating Enzymes for Use in Organic Solvents; 3.1 Introduction; 3.2 Water - A Unique and Necessary Solvent for Enzymatic Catalysis; 3.2.1 Challenges for Enzymatic Catalysis in Water; 3.2.2 Enzymes do Function Without Water as a Bulk Solvent - Lessons from Extreme Halophiles; 3.2.3 Behavior of Enzymes in the Absence of Bulk Water
3.2.4 Removing Water from Enzymes - the Effect of Lyophilization on Enzyme Structure and Function3.3 Enzyme Activation in Nonaqueous Media; 3.3.1 Addition of Water and Water Mimics; 3.3.2 Immobilization; 3.3.3 Solid-State Buffers; 3.3.4 Lyophilization in the Presence of Excipients; 3.3.4.1 Polymers; 3.3.4.2 Crown Ethers and Cyclodextrins; 3.4 Salt-Activated Enzymes; 3.4.1 Salt Activation is not due to a Relaxation of Diffusional Limitations; 3.4.2 Mechanism of Salt Activation; 3.4.3 The Structural and Molecular Dynamics of Salt Activation; 3.5 Conclusions
Part Two Biocatalysis in Neat Organic Solvents - Synthetic Applications4 Exploiting Enantioselectivity of Hydrolases in Organic Solvents; 4.1 Introduction; 4.1.1 Enantioselectivity; 4.1.2 Desymmetrization; 4.1.3 The Reversibility Problem; 4.1.4 Determining and Optimizing Enantioselectivity; 4.2 Enantioselective Reactions in Organic Solvents; 4.2.1 Reactions of Alcohols; 4.2.1.1 Primary Alcohols; 4.2.1.2 Secondary Alcohols; 4.2.1.3 Tertiary Alcohols; 4.2.1.4 Resolution of Dihydroxybiaryls; 4.2.2 Reaction of Amines; 4.2.2.1 Alkylamines; 4.2.2.2 Arylalkylamines; 4.2.2.3 Amino Acid Derivatives
4.2.3 Reaction of Acid Derivatives

Sommario/riassunto

Closing a gap in the literature, this comprehensive book examines and discusses different non-aqueous systems from organic solvents to ionic liquids for synthetic applications, thus opening the door to new successful methods for biocatalytic reactions. It gathers into one handy source the information otherwise widely spread throughout the literature, combining useful background information with a number of synthetic examples, including industrial scale processes for pharmaceutical and fine chemicals.Extremely well structured, the text introduces the fundamentals of non-aqueous enzymology,

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Autore	Cunningham Stuart
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Descrizione fisica	1 online resource (252 pages) : illustrations
Disciplina	621
Soggetti	Computer sound processing Sound - Recording and reproducing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia