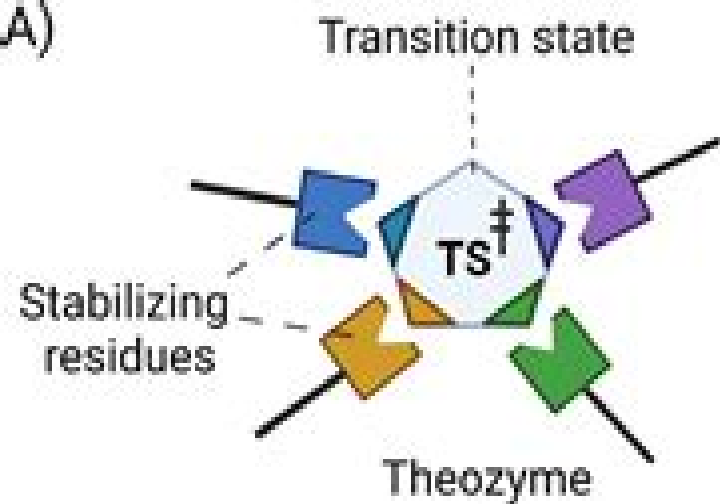


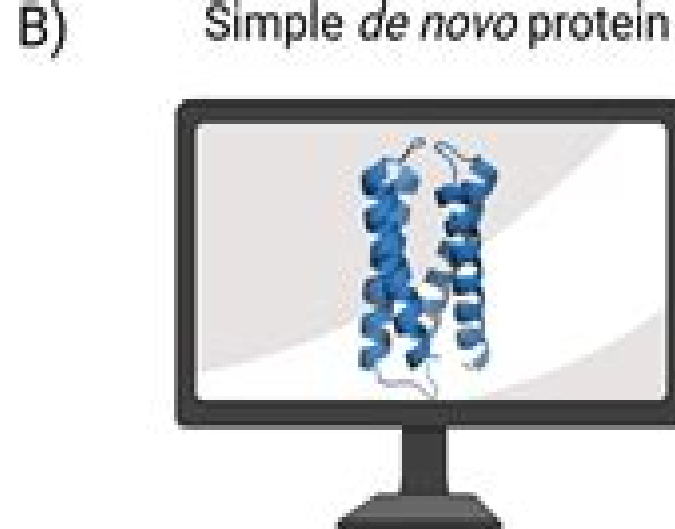


Docking in the
protein backbone



Further
stabilizing
amino acids

★ = Artificial moiety



★ Artificial moiety
incorporation



De novo artificial
enzyme

Artificial Enzymes

Eric V. Anslyn, Dennis A. Dougherty



Artificial Enzymes:

Artificial Enzymes Ronald Breslow, 2006-05-12 This first book on this fascinating topic is edited by one of today's most famous and internationally respected organic chemists renowned for his pioneering synthesis of the cyclopropenyl cation. For his part, Ronald Breslow has brought together leading scientists in this expanding area to provide a novel overview of protein, cyclodextrin, metal, and porphyrin-based artificial enzymes, as well as enzyme-like polymers and dendrimers. A must for all scientists interested in this emerging field.

Nanozymes: Next Wave of Artificial Enzymes Xiaoyu Wang, Wenjing Guo, Yihui Hu, Jiangjiexing Wu, Hui Wei, 2016-07-27 This book describes the fundamental concepts, the latest developments, and the outlook of the field of nanozymes, i.e., the catalytic nanomaterials with enzymatic characteristics. As one of today's most exciting fields, nanozyme research lies at the interface of chemistry, biology, materials science, and nanotechnology. Each of the book's six chapters explores advances in nanozymes. Following an introduction to the rise of nanozymes research in the course of research on natural enzymes and artificial enzymes in Chapter 1, Chapters 2 through 5 discuss different nanomaterials used to mimic various natural enzymes: from carbon-based and metal-based nanomaterials to metal oxide-based nanomaterials and other nanomaterials. In each of these chapters, the nanomaterials' enzyme-mimetic activities, catalytic mechanisms, and key applications are covered. In closing, Chapter 6 addresses the current challenges and outlines further directions for nanozymes. Presenting extensive information on nanozymes and supplemented with a wealth of color illustrations and tables, the book offers an ideal guide for readers from disparate areas including analytical chemistry, materials science, nanoscience, and nanotechnology, biomedical and clinical engineering, environmental science, and engineering, green chemistry, and novel catalysis.

Artificial Enzymes Ronald Breslow, 2006-05-12 This first book on this fascinating topic is edited by one of today's most famous and internationally respected organic chemists renowned for his pioneering synthesis of the cyclopropenyl cation. For his part, Ronald Breslow has brought together leading scientists in this expanding area to provide a novel overview of protein, cyclodextrin, metal, and porphyrin-based artificial enzymes, as well as enzyme-like polymers and dendrimers. A must for all scientists interested in this emerging field.

Artificial Enzyme Fouad Sabry, 2025-03-18 Artificial enzyme This chapter introduces the concept of artificial enzymes, their design, and their significance in the realm of nanomotors, laying the foundation for the entire book. Selenogallate The exploration of selenogallate as a novel material, discussing its synthesis and its application in enhancing catalytic processes for energy generation. Electrocatalyst This chapter examines the role of electrocatalysts in nanomotors, focusing on their ability to promote efficient energy conversion and their applications in fuel cells. Selenidostannate A deep dive into selenidostannate compounds; this chapter highlights their importance in enhancing the performance of nanomotor-based systems for sustainable energy solutions. Energy applications of nanotechnology This chapter explores the potential of nanotechnology in revolutionizing energy production, emphasizing the role of nanomotors in improving energy efficiency and sustainability.

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Advances in Supramolecular Chemistry G.W. Gokel, 2000-03-07 In this volume inorganic organic and bioorganic chemistry are represented in contributions from around the world Pioneering work in self assembled structures organized by the use of transition metals is described in chapter 1 followed by details of extensive studies of self assembled structures formed from various biomolecules in chapter 2 The next two chapters describe the formation of spherical molecular containers and their understanding of such structures based on Platonic and Archimedean solids and the fascinating family of synthetic peptide receptors and the interactions that can be explored using these host molecules In chapter 5 a mixture of computational chemistry drug design and synthetic organic and inorganic chemistry in

the development of superoxide dismutase mimics is described The final two chapters discuss the bioorganic and supramolecular principles required for the design of synthetic artificial enzymes and the supramolecular self assembly and its possible role in the origin of life It is hoped that this broad international view of supramolecular chemistry and the many directions it leads will be of interest to those already in the field It is also hoped that those outside the field may see extensions of their own work that will bring them into it

Enzymes and their Applications Mr. Rohit

Manglik,2024-05-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

The Biorganic Chemistry of Enzymatic Catalysis Valerian T. D'Souza,Joseph Feder,1991-12-10 This volume grew out of a symposium organized by the students of Professor Myron L Bender His research focused on the mechanisms of enzymatic catalysis and was instrumental in showing that enzymes do not possess magical powers to accelerate reactions a trillion times on an average but follow simple rules of chemistry A group of scientists who were trained by Bender have contributed some of their work to this book to pay homage to their mentor The range of topics covered is such that researchers and industry with interest in biological chemistry will gain knowledge from the advances being made in related fields The book shows organic chemists what advances have taken place in biological chemistry and biochemists will discover how principles of organic chemistry can be applied to reveal the powers of enzymatic catalysis

Modern Physical Organic Chemistry Eric V. Anslyn,Dennis A. Dougherty,2006 Making explicit the connections between physical organic chemistry and critical fields such as organometallic chemistry materials chemistry bioorganic chemistry and biochemistry this book escorts the reader into an area that has been thoroughly updated in recent times

Nano-Enzyme Incorporated Particles Veleeswaran Ananthi,Alagarsamy Arun,Chaudhery Mustansar Hussain,2024-05-28 Approx 296 pages Focuses on integrative approaches of the enzyme nanoparticle synthesis and its applications on biomedicine biosensors and biocatalysis Encloses the potential challenges and developments of enzyme incorporated nanoparticles Discusses the vital activities of nanozymes in enzyme mimicking processes and prudent bio catalytic efficiency Covers the latest methods and procedures involved in enzyme incorporated nanomaterials

Streamlining Free Radical Green Chemistry V. Tamara Perchyonok,Ioannis Lykakis,Al Postigo,2012 The environmental and health hazards created by industrial chemicals and consumer products must be minimized For safer products to be designed the relationships between structure and toxicity must be understood at the molecular level Green chemistry combined with free radical research has the potential to offer innovative solutions to such problems Some solutions are greener than others and many necessitate significant financial investment New technology will only be adopted if real benefit can be shown and sometimes adaptation of existing methods is the best option The efficiency of processes must be assessed not only in terms of the final yield but also cost environmental impact and waste toxicity This

practical and concise guide showcases the sustainable methods offered by green free radical chemistry and summarizes the fundamental science involved. It discusses the pros and cons of free radical chemistry in aqueous systems for synthetic applications. All transformation steps are covered including initiation, propagation and termination. Useful background knowledge is combined with examples including industrial scale processes for pharmaceuticals and fine chemicals. The book helps chemists to choose appropriate methods for achieving maximum output using a modern environmentally conscious approach. It shows that armed with an elementary knowledge of kinetics, an understanding of the mechanistic and technical aspects and some common sense, it is possible to harness free radicals for use in a broad range of applications. Streamlining Green Free Radical Chemistry is aimed at chemists, engineers, materials scientists, biochemists and biomedical experts as well as undergraduate and postgraduate students. It encourages readers to question conventional methods and move towards the Benign by Design approach of the future. References to further reading are provided at the end of each chapter.

Homogeneous Catalysts Development Mohammad Reza Rahimpour, Mohammad Amin Makarem, Tayebah Roostaie, Maryam Meshksar, 2024-10-04. Homogeneous Hydrogenation and Metathesis Reactions, a volume in the Advances in Catalysis series, covers hydrogenation and metathesis reactions in two separate sections. The first section is devoted to homogeneous hydrogenation reactions and related processes including hydrogenation of alkenes, esters, olefins, etc. In the second section, the metathesis reactions of olefins, alkenes, and alkynes are presented. In addition, the industrial application of homogeneous metathesis reactions is investigated. Includes thermodynamic and kinetic studies of homogeneous catalysts. Describes transition metal ligand and solvent roles in homogeneous catalysts. Explains preparation, characterization, deactivation, and regeneration of homogeneous catalysts. Presents homogeneous catalysts by clusters, carbenes, fixed metal complexes, and liquid-liquid multiphase catalysts. **Enzymology and Enzyme Technology** Mr. Rohit Manglik, 2024-03-30.

EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels. *Improving and Tailoring Enzymes for Food Quality and Functionality* Rickey Y. Yada, Derek R. Dee, 2024-03-21. Improving and Tailoring Enzymes for Food Quality and Functionality, Second Edition, covers the most relevant information demanded in the production, engineering, and application of enzymes. The title is very detailed and is in the important cross field of academia and industry. This totally revised new edition covers a broad range of topics related to enzymes and their use in food, presenting both the fundamental theory and practical application, updated with interesting novel information on biosensors, waste valorization, up cycling, and engineering perspectives, besides an increased focus on sustainability. Thoroughly updated revision covering a broad range of topics related to enzymes and their use in the food industry. Presents both the fundamental theory and recent examples from the literature including the fundamentals of protein folding and enzyme catalysis, the preparation of enzymes from natural

and recombinant sources immobilizing enzymes and a range of specific food applications Covers new research directions in enzymes thus helping those trying to solve a technical issue or develop a new product Nature-Derived Sensors Bahram Hemmateenejad,Zeynep Altintas,Elmira Rafatmah,2025-01-24 Nature Derived Sensors Basic Principles and Recent Advances offers a wide range of information on nature inspired solutions for modern sensor technology A branch of biomimetics science biomimetic sensors and sensing technologies have grown rapidly and widely and therefore have found real industrial applications as emerging technologies As a result of the demand for low cost high quality and smart sensors challenges across many scientific fields can be resolved by learning from nature solutions This book begins with an introductory section dealing with fundamental and basic information about biomimetic mechanisms materials algorithms and tools Various classes of nature inspired sensors are also discussed This book is an excellent reference for graduate students and researchers working with biomimetic sensors their industrial applications data science artificial intelligence and the Internet of Things in the processing of sensory data Covers recent advances and applications of biomimetics science through the fabrication and design of sensors Analyzes all kinds of nature inspired sensors Provides a general and wide overview of the science and technology of nature inspired sensors to the scientific and industrial communities *Fundamentals of Enzyme Kinetics* Athel Cornish-Bowden,2013-02-22 Now in its fourth edition this textbook is one of the few titles worldwide to cover enzyme kinetics in its entire scope and the only one to include its implications for bioinformatics and systems biology Multi enzyme complexes and cooperativity are therefore treated in more detail than in any other textbook on the market The respected and well known author is one of the most experienced researchers into the topic and writes with outstanding style and didactic clarity As with the previous editions he presents here steady state kinetics and fast reactions supplementing each chapter with problems and solutions For the first time this edition features a companion website providing all figures in colour www.wiley-vch.de/home/fundenzykinet Concise Polymeric Materials Encyclopedia Joseph C. Salamone,1998-08-28 Concise Polymeric Materials Encyclopedia culls the most used widely applicable articles from the Polymeric Materials Encyclopedia more than 1 100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field

Innovative Medical Technology Based on Artificial Cells, Including its Different Configurations Thomas Ming Swi Chang,Binglan Yu,2023-11-28 Artificial Cells are not to reproduce biological cells but to prepare an artificial system for possible uses in medicine and other areas Many of the ideas on artificial cells are being extensively applied and extended by researchers worldwide resulting in rapid and exciting progress and discoveries Different configurations include using

emulsion methods and microfluidizers to form microscopic or nano dimension cells called artificial cells synthetic cells microcapsules nanocapsules liposomes microparticles nanoparticles polymersomes etc Macro dimensions artificial cells are used for bioencapsulated cells Soluble nanobiotherapeutics can be formed by crosslinking proteins and enzymes or by PEG conjugation The principle of artificial cell has now evolved into nanomedicine biotherapeutics blood substitutes drug delivery enzyme gene therapy cancer therapy cell stem cell therapy nanoparticles liposomes bioencapsulation replicating synthetic cells cell encapsulation biosorbent immunosorbent hemoperfusion plasmapheresis regenerative medicine encapsulated microbe COVID_19 vaccine COVID_19 therapy nanobiotechnology nanotechnology and other areas Nanozymology Xiyun Yan,2020-01-30 This book introduces the new concept of nanozyme which refers to nanomaterials with intrinsic enzymatic activity rather than nanomaterials with biological enzymes incorporated on the surface The book presents the cutting edge advances in nanozyme with emphasis on state of the art applications in many important fields such as in the biomedical fields and for environmental protection The nanozyme is a totally new type of artificial enzyme and exhibits huge advantages over natural enzymes including greater stability low cost versatility simplicity and suitability for industry It is of interest to university researchers R D engineers as well as graduate students in nanoscience and technology and biology wishing to learn the core principles methods and the corresponding applications of nanozyme Encyclopedia of Supramolecular Chemistry - Two-Volume Set (Print) Jerry L. Atwood,Jonathan W. Steed,2013-10-09 The two volume Encyclopedia of Supramolecular Chemistry offers authoritative centralized information on a rapidly expanding interdisciplinary field User friendly and high quality articles parse the latest supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics Designed for specialists and students alike the set covers the fundamentals of supramolecular chemistry and sets the standard for relevant future research **Encyclopedia of Physical Organic Chemistry, 6 Volume Set** Zerong Wang,Uta Wille,Eusebio Juaristi,2017-04-17 Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry POC methodology and techniques It puts POC a classical and fundamental discipline of chemistry into the context of modern and dynamic fields like biochemical processes materials science and molecular electronics Covers basic terms and theories into organic reactions and mechanisms molecular designs and syntheses tools and experimental techniques and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods software packages and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of Physical Organic Chemistry has won the 2018 PROSE Award for MULTIVOLUME REFERENCE SCIENCE The PROSE Awards recognize the best books journals and digital content produced by professional

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