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# Artificial Photosynthesis

From Basic Biology to Industrial Application



# Artificial Photosynthesis From Basic Biology To Industrial Application

**Hitoshi Nasu, Robert McLaughlin**



## **Artificial Photosynthesis From Basic Biology To Industrial Application:**

**Artificial Photosynthesis** Anthony F. Collings, Christa Critchley, 2007-09-24 Since the events crucial to plant photosynthesis are now known in molecular detail this process is no longer nature's secret but can for the first time be mimicked by technology Broad in its scope this book spans the basics of biological photosynthesis right up to the current approaches for its technical exploitation making it the most complete resource on artificial photosynthesis ever published The contents draw on the expertise of the Australian Artificial Photosynthesis Network currently the world's largest coordinated research effort to develop effective photosynthesis technology This is further backed by expert contributions from around the globe providing an authoritative overview of current research worldwide [Artificial Photosynthesis](#)

Mohammad Najafpour, 2012-02-24 Photosynthesis is one of the most important reactions on Earth and it is a scientific field that is intrinsically interdisciplinary with many research groups examining it We could learn many strategies from photosynthesis and can apply these strategies in artificial photosynthesis Artificial photosynthesis is a research field that attempts to replicate the natural process of photosynthesis The goal of artificial photosynthesis is to use the energy of the sun to make different useful material or high energy chemicals for energy production This book is aimed at providing fundamental and applied aspects of artificial photosynthesis In each section important topics in the subject are discussed and reviewed by experts [Microbial Photosynthesis](#)

Rachapudi V. Sreeharsha, S. Venkata Mohan, 2024-06-19 This book uncovers the basic principles of microbial photosynthesis and the latest technological interventions of this crucial phenomenon In the recent past the basic principles of microbial photosynthesis were technologically articulated to engineer several cell factories that can utilize waste resources and generate different groups of industrially valuable products Also the list of model organisms for specific usage have been increasing enormously This volume covers the material in four sections each of the part dealing with the basic principles of microbial photosynthesis in an applied orientation focusing on waste valorization and circular bioeconomy Furthermore the following chapters deal with the very recent advancements in metabolic engineering and artificial photosynthesis with respect to value addition Not only will this book be available for graduate and postgraduate students in microbiology biotechnology plant sciences environmental sciences energy engineering and renewable energy it is also an excellent material for researchers needing a multidisciplinary approach

*Photosynthesis: Structures, Mechanisms, and Applications* Harvey J.M. Hou, Mohammad Mahdi Najafpour, Gary F. Moore, Suleyman I. Allakhverdiev, 2017-05-16 To address the environmental socioeconomic and geopolitical issues associated with increasing global human energy consumption technologies for utilizing renewable carbon free or carbon neutral energy sources must be identified and developed Among renewable sources solar energy is quite promising as it alone is sufficient to meet global human demands well into the foreseeable future However it is diffuse and diurnal Thus effective strategies must be developed for its capture conversion and storage In this context photosynthesis provides a paradigm for large scale

deployment Photosynthesis occurs in plants algae and cyanobacteria and has evolved over 3 billion years The process of photosynthesis currently produces more than 100 billion tons of dry biomass annually which equates to a global energy storage rate of 100 TW Recently detailed structural information on the natural photosynthetic systems has been acquired at the molecular level providing a foundation for comprehensive functional studies of the photosynthetic process Likewise sophisticated spectroscopic techniques have revealed important mechanistic details Such accomplishments have made it possible for scientists and engineers to construct artificial systems for solar energy transduction that are inspired by their biological counterparts The book contains articles written by experts and world leaders in their respective fields and summarizes the exciting breakthroughs toward understanding the structures and mechanisms of the photosynthetic apparatus as well as efforts toward developing revolutionary new energy conversion technologies The topics chapters will be organized in terms of the natural sequence of events occurring in the process of photosynthesis while keeping a higher order organization of structure and mechanism as well as the notion that biology can inspire human technologies For example the topic of light harvesting will be followed by charge separation at reaction centers followed by charge stabilization followed by chemical reactions followed by protection mechanisms followed by other more specialized topics and finally ending with artificial systems and looking forward As shown in the table of contents TOC the book includes and integrates topics on the structures and mechanisms of photosynthesis and provides relevant information on applications to bioenergy and solar energy transduction

**Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 16-20)** Karl M Kadish, Roger Guilard, Kevin M Smith, 2012-06-08 This is the fourth set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to

date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come

**Enzyme Catalysis Today and the Chemistry of the 21st Century** Gertz I. Likhtenshtein, 2025-02-17 This book examines enzymatic reactions from the standpoint of physical chemistry An introductory chapter gives a brief overview of the role of enzymes in metabolism biotechnology and medicine while describing the framework for chemical mimicry of enzyme reactions Subsequent chapters of the book are devoted to a general overview of vital enzyme processes methods of enzyme kinetic reactions the theory of elementary mechanisms oriental dynamic and polar factors affecting enzyme catalysts as well as the current status and prospects of enzyme chemical modeling The book gives particular attention to chemical reactions highly important in modern research efforts such as the conversion of light energy into chemical energy with a high quantum yield photooxidation of water reduction of atmospheric nitrogen and utilization of carbon dioxide in ambient conditions The book is intended for scientists working on enzyme catalysis and the adjacent areas such as chemical modeling of biological processes homogeneous catalysis biomedical research biotechnology and bioengineering In addition it can serve as secondary instructional material for graduate and undergraduate students of chemistry medicine biochemistry biophysics biophysiology and bioengineering

*Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 6-10)* Karl M Kadish, Roger Guilard, Kevin M Smith, 2010-06-29 This is the second set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique Handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and

graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come

**Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 1-5)** Karl M Kadish, Roger Guilard, Kevin M Smith, 2010-03-16 This is the first set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrated new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique Handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors of the chapters This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come

**Organic Nanomaterials** Tomas Torres, Giovanni Bottari, 2013-08-05 Discover a new generation of organic nanomaterials and their applications Recent developments in nanoscience and nanotechnology have given rise to a new generation of functional organic nanomaterials with controlled morphology and well defined properties which enable a broad range of useful applications This book explores some of the most important of these organic nanomaterials describing how they are synthesized and characterized Moreover the book explains how researchers have incorporated organic nanomaterials into devices for real world applications Featuring contributions from an international team of leading nanoscientists Organic Nanomaterials is divided into five parts Part One introduces the fundamentals of nanomaterials and self assembled nanostructures Part Two examines carbon nanostructures from fullerenes to carbon nanotubes to graphene reporting on properties theoretical studies and applications Part Three investigates key aspects of some inorganic materials self assembled monolayers organic field effect transistors and molecular self assembly at solid surfaces Part Four explores topics that involve both biological aspects and nanomaterials such as biofunctionalized surfaces Part Five offers detailed examples of how organic nanomaterials enhance sensors and molecular

photovoltaics Most of the chapters end with a summary highlighting the key points References at the end of each chapter guide readers to the growing body of original research reports and reviews in the field Reflecting the interdisciplinary nature of organic nanomaterials this book is recommended for researchers in chemistry physics materials science polymer science and chemical and materials engineering All readers will learn the principles of synthesizing and characterizing new organic nanomaterials in order to support a broad range of exciting new applications

**Bioinorganic Photochemistry** Grazyna Stochel,Zofia Stasicka,Malgorzata Brindell,Wojciech Macyk,Konrad Szacilowski,2009-06-10 Bioinorganic photochemistry is a rapidly evolving field integrating inorganic photochemistry with biological medical and environmental sciences The interactions of light with inorganic species in natural systems and the applications in artificial systems of medical or environmental importance form the basis of this challenging inter disciplinary research area Bioinorganic Photochemistry provides a comprehensive overview of the concepts and reactions fundamental to the field illustrating important applications in biological medical and environmental sciences Topics covered include Cosmic and environmental photochemistry Photochemistry of biologically relevant nanoassemblies Molecular aspects of photosynthesis Photoinduced electron transfer in biosystems Modern therapeutic strategies in photomedicine The book concludes with an outlook for the future of environmental protection discussing emerging techniques in the field of pollution abatement and the potential for bioinorganic photochemistry as a pathway to developing cheap environmentally friendly sources of energy Written as an authoritative guide for researchers involved in the development of bioinorganic photochemical processes Bioinorganic Photochemistry is also accessible to scientists new to the field and will be a key reference source for advanced courses in inorganic and bioinorganic chemistry

**Handbook of Fullerene Science and Technology** Xing Lu,Takeshi Akasaka,Zdeněk Slanina,2022-09-24 Nanocarbon chemistry and physics is a fast developing broad research area the Nobel prizes in 1996 and 2010 awarded to two key discoveries in the field and several other nanocarbon achievements of comparable importance Owing to this rapid growth the nanocarbon landscape fundamentally changes every few years creating a need to survey the field on a regular basis to update the books that have become incomplete or even obsolete As such this book focuses on fullerenes and metallofullerenes and also on the related areas of nanotubes and graphenes All the covered research topics provide important fundamental knowledge for the natural sciences but also for applications in molecular electronics superconductivity catalysis photovoltaics and medical diagnostics The current nanocarbon research activities have particularly high application potential in the conversion of solar energy future molecular memories non conventional materials for optoelectronics and new treatments for civilization diseases Offering a truly up to date critical survey of nanocarbon science its concepts and highlights it follows the concept of a handbook it addresses key topics systematically from historical background methodological aspects current important issues and application potential all supplied with extensive referencing With individual chapters written by leading experts with extensive research experience it

is a comprehensive reference resource for graduate students and active researchers alike

**Handbook of Hydrogen Energy** S.A. Sherif, D. Yogi Goswami, E.K. (Lee) Stefanakos, Aldo Steinfeld, 2014-07-29 Can hydrogen and electricity supply all of the world's energy needs Handbook of Hydrogen Energy thoroughly explores the notion of a hydrogen economy and addresses this question The handbook considers hydrogen and electricity as a permanent energy system and provides factual information based on science The text focuses on a large cross section of

**Chemical Energy Storage** Robert Schlögl, 2022-01-19 Energy in the headlines discussed controversially vital The use of regenerative energy in many primary forms leads to the necessity to store grid dimensions for maintaining continuous supply and enabling the replacement of fossil fuel systems Chemical energy storage is one of the possibilities besides mechano thermal and biological systems This work starts with the more general aspects of chemical energy storage in the context of the geosphere and evolves to dealing with aspects of electrochemistry catalysis synthesis of catalysts functional analysis of catalytic processes and with the interface between electrochemistry and heterogeneous catalysis Top notch experts provide a sound practical hands on insight into the present status of energy conversion aimed primarily at the young emerging research front

**Introduction to Nanoscience and Nanotechnology** Gabor L. Hornyak, H.F. Tibbals, Joydeep Dutta, John J. Moore, 2008-12-22 The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field Its textbook cannot afford to be a chemistry physics or engineering text focused on nano It must be an integrated multidisciplinary and specifically nano textbook The archetype of the modern nano textbook

**Nanotechnology for a Sustainable World** Thomas Faunce, 2012 Does humanity have a moral obligation to emphasise nanotechnology's role in addressing the critical public health and environmental problems of our age This well crafted book explores this idea by analysing the prospects for a macroscale nanotechnology for environmental sustainability project in areas such as food water and energy supply medicine healthcare peace and security Developing and applying an innovative science based view of natural law underpinning a global social contract it considers some of the key scientific and governance challenges such a global project may face The book concludes that the moral culmination of nanotechnology is a Global Artificial Photosynthesis project It argues that the symmetric patterns of energy creating photosynthesis life and us are shaping not only the nanotechnological advances of artificial photosynthesis but also the ethical and legal norms likely to best govern such scientific achievements to form a sustainable existence on this planet Nanotechnology for a Sustainable World will appeal to many generations of scientists and policymakers working to improve our world in public health environmental sustainability and renewable energy and nanotechnology It will also be a valuable resource for similarly motivated students of chemistry physics biology nanotechnology and photosynthesis as well as environmental and energy ethics law and policy

**Modern Nanotechnology** Junaid Ahmad Malik, Mohamed Jaffer Sadiq Mohamed, 2023-07-18 This two volume set provides a comprehensive overview of modern nanoscience and encompasses advanced techniques of nanocomposite



materials that make their way from the laboratory to the field for the revival of energy and environmental systems in a sustainable manner. It includes the design and the sophisticated fabrication of nanomaterials along with their potential energy and environmental applications while looking at how nanoscience and nanotechnology can be used to promote environmentally friendly processes and strategies. The book's purpose is to promote eco-friendly methods and techniques by covering many elements of both the synthesis and uses of nanoparticles and nanofluids for energy and environmental engineering. They provide an up-to-date synthesis of nanocomposite materials for modern nanotechnology applications in the fields of environment protection, heterogeneous catalysis, wastewater treatment, fuel cells, electrochemical energy conversion and storage applications. The set is designed for environmental scientists, nanotechnologists, chemists, engineers and individuals seeking current research on nanotechnology and its applications in environmental engineering. Graduate students working in these fields will also find it a valuable resource. Volume 1 focuses on the fundamentals of nanotechnology, environmental protection, sustainable agriculture, bioremediation, bio-nanocomposites and wastewater treatment.

**Nanophotocatalysis and Environmental Applications** Inamuddin, Mohd Imran Ahamed, Abdullah M. Asiri, Eric Lichtfouse, 2019-03-29. This book presents photocatalysis as a state-of-the-art technology in energy production and conversion. The ever-increasing demand for energy with growing economies has led to a dearth of energy sources. The exhaustive dependability on non-renewable resources of energy has not just depleted them but also led to the birth of secondary problems such as pollution and climate change. The photoactive processes have opened a new window for the production of green energy and helped in environmental sustainability. The harnessing of renewable sources especially sun and water for fuel production and noxious gases reduction solve both the issues of pollution mitigation and energy crisis.

**Photosynthesis: Solar Energy For Life** Dmitry Shevela, Lars Olof Bjorn, Govindjee, 2018-11-07. Photosynthesis has been an important field of research for more than a century but the present concerns about energy, environment and climate have greatly intensified interest in and research on this topic. Research has progressed rapidly in recent years and this book is an interesting read for an audience who is concerned with various ways of harnessing solar energy. Our understanding of photosynthesis can now be said to have reached encyclopedic dimensions. There have been in the past many good books at various levels. Our book is expected to fulfill the needs of advanced undergraduate and beginning graduate students in branches of biology, biochemistry, biophysics and bioengineering because photosynthesis is the basis of future advances in producing more food, more biomass, more fuel and new chemicals for our expanding global human population. Further, the basics of photosynthesis are and will be used not only for the above but in artificial photosynthesis, an important emerging field where chemists, researchers and engineers of solar energy systems will play a major role. *New Technologies and the Law of Armed Conflict* Hitoshi Nasu, Robert McLaughlin, 2013-12-23. Modern technological development has been both rapid and fundamentally transformative of the means and methods of warfare and of the broader environment in which warfare is

conducted In many cases technological development has been stimulated by and dedicated to addressing military requirements On other occasions technological developments outside the military sphere affect or inform the conduct of warfare and military expectations The introduction of new technologies such as information technology space technologies nanotechnology and robotic technologies into our civil life and into warfare is expected to influence the application and interpretation of the existing rules of the law of armed conflict In this book scholars and practitioners working in the fields critically examine the potential legal challenges arising from the use of new technologies and future directions of legal development in light of the specific characteristics and challenges each technology presents with regard to foreseeable humanitarian impacts upon the battlespace      *Light, Water, Hydrogen* CRAIG GRIMES, OOMMAN VARGHESE, SUDHIR RANJAN, 2007-12-03 This book covers the field of solar production of hydrogen by water photo splitting photoelectrolysis using semiconductor photoanodes The emphasis of the discussion is on the use of nanotechnology in the field The theories behind photocatalysis and photoelectrochemical processes responsible for hydrogen production are given in detail This provides a state of the art review of the semiconductor materials and methods used for improving the efficiency of the processes The book also gives an account of the techniques used for making the nanostructures

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