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Prebiotic Chemistry: From Simple Amphiphiles to Protocell ...
 Here we show that several types of vesicles, composed of prebiotically plausible mixtures of amphiphiles, spontaneously form and sustain the methyl isocyanide-mediated activation of amino acids, peptides and nucleotides. Activation chemistry also drives the advantageous conversion of reactive monoacylglycerol phosphates into inert cyclophospholipids, thus supporting their potential role as major constituents of protocells.

Astrobiology is a remarkably interdisciplinary field. This reference serves as a key to understanding technical terms from the different subfields of astrobiology, including astronomy, biology, chemistry, the geosciences and the space sciences.

Studying the origin of life is one of man's greatest achievements over the last sixty years. The fields of interest encompassed by this quest are multiple and interdisciplinary: chemistry, physics, biology, biochemistry, mathematics, geology but also statistics, atmospheric science, meteorology, oceanography, and astrophysics. Recent scientific discoveries, such as water on Mars and the existence of super-Earths with atmospheres similar to primordial Earth, have pushed researchers to simulate prebiotic conditions in explaining the abiotic formation of molecules essential to life. This collection of articles offers an overview of recent discoveries in the field of prebiotic chemistry of biomolecules, their formation and selection, and the evolution of complex chemical systems.

This review volume, co-edited by Nobel laureate G Ertl, provides a broad overview on current studies in the understanding of design and control of complex chemical systems of various origins, on scales ranging from single molecules and nano-phenomena to macroscopic chemical reactors. Self-organizational behavior and the emergence of coherent collective dynamics in reaction diffusion systems, reactive soft matter and chemical networks are covered. Special attention is paid to the applications in molecular cell biology and to the problems of biological evolution, synthetic biology and design of artificial living cells. Starting with a detailed introduction on the history of research on complex chemical systems, its current state of the art and perspectives, the book comprises 19 chapters that survey the current progress in particular research fields. The reviews, prepared by leading international experts, yield together a fascinating picture of a rapidly developing research discipline that brings chemical engineering to new frontiers.

This book examines how humans evolved from the cosmos and prebiotic earth and what types of biological, chemical, and physical sciences drove this complex process. The author presents his view of nature which attributes the rising complexity of life to the continual increasing of information content, first in genes and then in brains.

With the onward march of science and technology, and the continuing quest for improvement, there is a growing curiosity about the world around us. Close examination of structures in nature can be rewarding and surprising Nature has shown an extraordinary capacity to develop dynamic structures and systems over many millions of years and there is still much to be learnt. Aimed at providing researchers in this subject with fresh impetus and inspiration, this book consists of papers presented at the Fifth International Conference on Design and Nature. The contributions reflect the rich variety of work currently taking place around the world and cover the following topics: Nature and Architecture; Mechanics in Nature; Natural Materials and Processing; Solutions from Nature; Biomimetics; Biomimetics and Bioinspiration; Biocapacity; Education in Design and Nature, and Helical Design in Nature.

With contributions by numerous experts

This book presents critical reviews of the present position and future trends in modern chemical research. It contains short and concise reports on chemistry, each written by the world renowned experts. The book is still valid and useful after 5 or 10 years. More information as well as the electronic version of the whole content is available at: springerlink.com. The book will interest scientists and practitioners in the mentioned fields and in industry.

The chapters in this volume describe bottom-up strategies and chronicle cutting-edge advances from several of the world's leading laboratories engaged in the development of molecular machines. The Nobel Prize in Chemistry 2016 was awarded jointly to Jean-Pierre Sauvage, Sir J. Fraser Stoddart and Bernard L. Feringa "for the design and synthesis of molecular machines". Both Jean-Pierre Sauvage and Sir J. Fraser Stoddart have also contributed to this book.

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