



Molecular Switches

J. L. Atwood, Jonathan W. Steed



Molecular Switches:

Molecular Switches Ben L. Feringa, Wesley R. Browne, 2011-08-04
T glich benutzen wir Schalter um strombetriebene Ger te an und abzuschalten und kein Computer w rde ohne sie funktionieren Nach den gleichen Prinzipien funktionieren auch molekulare Schalter die unter dem Einflu ihrer Umwelt zwischen zwei definierten Zust nden wechseln k nnen Im Gegensatz zu den gew hnlichen Schaltern sind molekulare Schalter aber au erordentlich klein und ihre Anwendung in der Nanotechnologie Biomedizin und im Computerchipdesign ffnet neue Horizonte Im vorliegenden Zweib nder berichten Herausgeber und Autoren ber molekulare Schalter aus Katenanen und Rotaxanen Fulgiden Fl ssigkristallen und Polypeptiden Die Bandbreite der behandelten Themen reicht von chiroptischen Schaltern ber multifunktionale Systeme bis hin zu molekularen logischen Schaltungen Chemiker und Materialwissenschaftler in Industrie und Hochschule die sich f r einen der innovativsten Bereiche ihrer Wissenschaft interessieren werden dieses Buch mit Gewinn lesen

Molecular Photoswitches Zbigniew L. Pianowski, 2022-06-01
A comprehensive overview about the emerging field of photoswitches and their applications in materials science and biology *Molecular Photoswitches* guides the reader through the basic molecular structures of photochromic compounds and their applications in the area of photoresponsive materials as well as in the biological context The initial chapters describe individual classes of molecular photoswitches introducing their principles of photochromism typical switching wavelengths thermal stability of photoisomers and other key information which is ordinarily spread in the literature These classes comprise i a azobenzenes diazocines arylazoheterocycles arylhydrazones indigoids photochromic imines or acylhydrazones The book also covers Catalysis with molecular switches Applications in photochromic porous materials liquid crystals or nanoparticles Light responsive molecular machines logic devices and molecular magnets Photomodulation of biological systems photoswitchable biopolymers lightmodulated antibiotics cytotoxins ion channel inhibitors light propelled artificial muscles and computationally designed photochromic proteins This two volume work is a valuable guide for researchers and non experts working in the field of photochemistry organic chemistry catalysis materials science biology and medicine

The Molecular Switch Rob Phillips, 2020-09-01
A signature feature of living organisms is their ability to carry out purposeful actions by taking stock of the world around them To that end cells have an arsenal of signaling molecules linked together in signaling pathways which switch between inactive and active conformations The Molecular Switch articulates a biophysical perspective on signaling showing how allostery a powerful explanation of how molecules function across all biological domains can be reformulated using equilibrium statistical mechanics applied to diverse biological systems exhibiting switching behaviors and successfully unify seemingly unrelated phenomena Rob Phillips weaves together allostery and statistical mechanics via a series of biological vignettes each of which showcases an important biological question and accompanying physical analysis Beginning with the study of ligand gated ion channels and their role in problems ranging from muscle action to vision Phillips then undertakes increasingly sophisticated case studies from

bacterial chemotaxis and quorum sensing to hemoglobin and its role in mammalian physiology He looks at G protein coupled receptors as well as the role of allosteric molecules in gene regulation Phillips concludes by surveying problems in biological fidelity and offering a speculative chapter on the relationship between allostery and biological Maxwell demons Appropriate for graduate students and researchers in biophysics physics engineering biology and neuroscience The Molecular Switch presents a unified quantitative model for describing biological signaling phenomena **Molecular and Supramolecular**

Information Processing Evgeny Katz,2013-02-14 Edited by a renowned and much cited chemist this book covers the whole span of molecular computers that are based on non biological systems The contributions by all the major scientists in the field provide an excellent overview of the latest developments in this rapidly expanding area A must have for all researchers working on this very hot topic Perfectly complements Biomolecular Information Processing also by Prof Katz and available as a two volume set Molecular and Supramolecular Information Processing Evgeny Katz,2012 **Molecular Switches A.**

Malcolm Campbell,Christopher J. Paradise,2016-04-21 This book introduces the concept of emergent properties which are unexpected traits found only when two or more biological components interact Experimental evidence of several emergent properties explains how hemoglobin can act like a high affinity oxygen carrier some times and then switch to a low affinity carrier exactly when and where it should The second example presents how one particular virus determines whether it should stay latent within its host or whether it should kill its host and spread its progeny into the environment The final example looks at the surprising properties that emerge as a consequence of random behaviors at the molecular level It is unlikely that many people are aware of these unexpected behaviors that come from non living molecules based on their structures **Chiroptical Molecular Switches** Anne Marie Schoevaars,1998 **Springer Handbook of**

Nanotechnology Bharat Bhushan,2017-11-05 This comprehensive handbook has become the definitive reference work in the field of nanoscience and nanotechnology and this 4th edition incorporates a number of recent new developments It integrates nanofabrication nanomaterials nanodevices nanomechanics nanotribology materials science and reliability engineering knowledge in just one volume Furthermore it discusses various nanostructures micro nanofabrication micro nanodevices and biomicro nanodevices as well as scanning probe microscopy nanotribology and nanomechanics molecularly thick films industrial applications and nanodevice reliability societal environmental health and safety issues and nanotechnology education In this new edition written by an international team of over 140 distinguished experts and put together by an experienced editor with a comprehensive understanding of the field almost all the chapters are either new or substantially revised and expanded with new topics of interest added It is an essential resource for anyone working in the rapidly evolving field of key technology including mechanical and electrical engineers materials scientists physicists and chemists

Encyclopedia of Supramolecular Chemistry J. L. Atwood,Jonathan W. Steed,2004 Covers the fundamentals of supramolecular chemistry supramolecular advancements and methods in the areas of chemistry biochemistry biology

environmental and materials science and engineering physics computer science and applied mathematics **Novel Tailor-Made Externally Triggerable Single- Molecular Switches for Molecular Electronics** Gero Harzmann,2015

Chiroptical Molecular Switches Anne Marie Schoevaars,1998 **Molecular Switches, 2 Volume Set** Ben L. Feringa, Wesley R. Browne,2011-08-29 The long awaited second edition of the successful book covering molecular switches now in two volumes Providing principles and applications this book brings you everything you need to know about molecular switches a hot topic in the nanoworld The major classes of molecular switches including catenanes rotaxanes azobenzenes together with polymer and biomolecular switching systems and DNA based switches are covered Chemists and material scientists interested in one of the most innovative areas of their science will benefit greatly from reading this book This book will appeal most to organic chemists because of the way new structures are introduced through their synthesis but it will also provide a useful introduction for other scientists provided they are conversant with molecular structures Organic and Biomolecular Chemistry a comprehensive and up to date insight Chemistry Industry *Molecular Photoswitches* Zbigniew L. Pianowski,2022 *Molecular Electronics - Science and Technology* Ari Aviram,1992 Molecular electronics refers to the possible future use of molecules as electronic circuit elements in signal processing circuits molecules doing the chores of transistors and electronic switches a tantalizing idea that has recently become the target of many research programs around the world Molec **Advanced Polymer Processing** Lian Xiang Ma,Chuang Sheng Wang,Weimin Yang,2009-12-21 Selected peer reviewed papers from the Advanced Polymer Processing International Forum Qingdao China 19 21 August 2009 APPF 2009 Light-controlled Conductance Using Molecular Switches Tibor Kudernáč,2007 *Molecular Switches for Nano-scale Devices* Seogshin Kang,2006 Chapter 4 describes an in situ Fourier transform infrared FTIR spectroscopic technique that has been developed to monitor molecular behavior in single molecule thick nanoelectronic devices This technique is applicable to a range of molecular based devices and has the potential to provide researchers in the field with a tool to understand the molecular behavior that contributes to device performance **Current Engineering Practice** ,1983

Chiroptical Molecular Switches Ben de Lange,1993 **Chiroptical Molecular Switches: Synthesis and Applications** Ben de Lange,1993

Reviewing **Molecular Switches**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Molecular Switches**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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