
Molecular Switches

molecular switches: the design, synthesis and biological ... - molecular switches: the design, synthesis and biological applications of photoactive enzyme inhibitors a thesis submitted in partial fulfilment of the requirements for the degree of doctor of philosophy in chemistry in the university of canterbury by nathan a. alexander university of canterbury 2006 **molecular switches in nature) and) technology: an introduction)** - molecular switches like azobenzene represent promising systems for applications, e.g. molecular electronic devices and sensor applications, due to their ability to undergo a reversible, photoinduced conformational change between two stereoisomers, the trans- and the cis-isomer [tam00, rau03a, fan90]. stereoisomers are molecules that have **integrating macromolecules with molecular switches** - freedom that many molecular switches need to have in order to switch efficiently. azobenzenes have attracted the most attention as far as the integration of molecular switches with macromolecules is concerned: they are chemically robust, exhibit low fatigue, can be readily functionalized, and have tunable light absorption properties. **molecular switches - onlinelibrary.wiley** - 7.1 molecular switches made from dna and rna 227 7.2 switchable ribozymes 229 7.2.1 ribozyme switching by antisense interaction 230 7.2.2 ribozyme deactivation by steric hindrance 231 7.2.3 ribozyme activation by complex stabilization 231 7.2.4 ligand-induced stabilization of the ribozyme domain 231 **molecular switches: elementary processes and applications** - 10 salzau-meeting: "molecular switches: elementary processes and applications" sensors and switches based on polymer-metal nanocomposites near the percolation threshold franz faupel, kiel nanocomposites consisting of metallic nanoparticles in a dielectric polymer matrix **the smallest molecular switch - arxiv** - of the molecular wire again switches from edge to a strongly tilted face geometry although the substrate and tip both have a pronounced left-right asymmetry. for the $x = 3^\circ$ position of the tip in fig.1(b) we find the molecular wire to also have a metastable conformation that corresponds to a local energy minimum. **engineering precision rna molecular switches - pnas** - precision rna molecular switches that trigger only in the presence of their corresponding ligand. by using similar enzyme engineering strategies, new rna switches can be made to operate as designer molecular sensors or as a new class of genetic control elements. mastery of the molecular forces that dictate biopolymer **nonlinear optical molecular switches for alkali ion ...** - nonlinear optical molecular switches for alkali ion identification aurélie plaquet 1*, benoît champagne 1 and Frédéric Castet 2 1 laboratoire de chimie théorique, ucpts, université de namur (unamur), rue de bruxelles 61, b-5000 namur, belgium; e-mail: benoitampagne@unamur **the art of building small: from molecular switches to ...** - molecular switches designed to address some of the fundamental problems indicated above. at the outset of these investigations, we had anticipated that a major advantage that chirality would introduce to optical switching is the possibility of nondestructive **molecular rotors, motors, and switches** - molecular switches and machines with mechanical bonds carson j. bruns, j. fraser stoddart facile assembly of light-driven molecular motors onto a solid surface jiawen chen, kuang-yen chen, ben l. feringa a molecular pump chuyang cheng, paul r. mcgonigal, j. fraser stoddart towards ferroelectric materials through molecular rotors paul dron **molecular wires, switches and memories - yale university** - molecular wires, switches and memories a dissertation presented to the faculty of the graduate school of yale university in candidacy for the degree of doctor of philosophy by jia chen dissertation director: professor mark a. reed december 2000 **new molecular switch architectures - pnas** - vated switches over many cycles (33, 34). if we, as chemists, wish to mimic and eventually compete with biology then we need to address this issue, in addition to developing new chemically activated switches capable of complex functions. here we survey new architectures of chemically activated molecular switches and **linking molecular switches to platinum electrodes studied ...** - linking molecular switches to platinum electrodes studied with dft timo jacob* fritz-haber-institut der max-planck-gesellschaft, faradayweg 4-6, d-14195 berlin, germany mario blanco and william a. goddard iii materials and process simulation center, beckman institute (139-74), california institute of technology, pasadena, california 91125

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