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# Photoinduced Electron Transfer An Illustrated History

**photoinduced electron transfer: strategies for organic ...** - • history of photoinduced electron transfer • basics of electron transfer versus energy transfer • oxidative pet bond cleavage • reductive pet bond cleavage • enabling of macrocyclic ring closures • intramolecular alpha-amino radical additions • intermolecular alpha-amino radical additions and applications **photoinduced electron transfer: an overview** - photoinduced electron transfer: an overview 1. introduction electron transfer reactions are of fundamental importance to both chemistry and biology. in simple terms, an electron transfer reaction involves the transfer of an electron from a 'donor' to an 'acceptor'. electron transfer reactions can occur both photochemically and biologically. **fluorescent pet (photoinduced electron transfer) sensors ...** - fluorescent pet (photoinduced electron transfer) sensors as potent analytical tools a. prasanna de silva,\*a thomas s. moodyb and glenn d. wrighta first published as an advance article on the web 6th october 2009 **photoinduced electron transfer from semiconductor quantum ...** - photoinduced electron transfer from semiconductor quantum dots to metal oxide nanoparticles kevin tvrdya,b, pavel a. frantsuzovc, and prashant v. kamata,b,d,1 another dame radiation laboratory, bdepartment of chemistry and biochemistry, cdepartment of physics, and ddepartment of chemical engineering, university of notre dame, notre dame, in 46556 **nonequilibrium photoinduced electron transfer - mit** - we consider photoinduced electron transfer, which is intrinsically a three-state system consisting of electronic ground, electronic excited ~electron donor!, and electron acceptor states. it is assumed that the bath consists of a collection of harmonic oscillators. using an elementary time-dependent **photoinduced electron transfer reactions for ...** - photoinduced electron transfer reactions for macromolecular syntheses sajjad dadashi-silab,† sean doran,† and yusuf yagci\*,t,‡ †department of chemistry, istanbul technical university, 34469 maslak, istanbul, turkey ‡center of excellence for advanced materials research (ceamr) and department of chemistry, king abdulaziz university, 21589 jeddah, saudi arabia **photoinduced electron transfer between dna-bridged ...** - photoinduced electron transfer between dna-bridged ruthenium and rhodium complexes steven m. berry literature seminar november 10, 1998 the rate of electron transfer (et) through duplex deoxyribonucleic acid (dna) has been studied using a variety of covalent or noncovalent and intercalating or non-intercalating **photoinduced electron transfer, improved nonlinear optical ...** - photoinduced electron transfer, improved nonlinear optical properties and photocurrent generation in polyaniline-graphite oxide hybrid t remyamol1, pramod gopinath2 and honey john1 1department of chemistry, indian institute of space science and technology, valiamala, thiruvananthapuram, india **photoinduced electron transfer in naphthalimide-pyridine ...** - photoinduced electron transfer in naphthalimide-pyridine systems: effect of proton transfer on charge recombination efficiencies pavel kucheryavy, renat khatmullin, ekaterina mirzakulova, dapeng zhou, and ksenija d. glusac\* department of chemistry, bowling green state university, bowling green, oh 43403 'introduction **photoinduced electron transfer and geminate recombination ...** - the model system for photoinduced intermolecular electron transfer in liquids has been described in detail elsewhere.1,3 upon photoexcitation, the donors can undergo forward electron transfer through-solvent to one of the many acceptors in solution. the donor concentration is kept low (~10<sup>-4</sup> m) to avoid donor-donor excitation transfer. **photoinduced electron-transfer in self-associated ...** - photoinduced electron transfer in self-associated complexes of several uroporphyrins and cytochrome c j. s. zhou, e. s. v. granada, n. b. leontis, and m. a. j. rogers\* contribution from the center for photochemical sciences, bowling green state university, bowling green, ohio 43403. received november 13, 1989

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