

Frederick D Lewis

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278
papers

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54
h-index

82
g-index

281
ext. papers

10,350
ext. citations

10.3
avg, IF

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L-index

#	Paper	IF	Citations
278	Dynamics of photoinduced charge transfer and hole transport in synthetic DNA hairpins. <i>Accounts of Chemical Research</i> , 2001 , 34, 159-70	24.3	503
277	Absolute rates of hole transfer in DNA. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14894-903	16.4	303
276	Direct measurement of hole transport dynamics in DNA. <i>Nature</i> , 2000 , 406, 51-3	50.4	301
275	Driving Force Dependence of Electron Transfer Dynamics in Synthetic DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12346-12351	16.4	162
274	Crossover from superexchange to hopping as the mechanism for photoinduced charge transfer in DNA hairpin conjugates. <i>Journal of the American Chemical Society</i> , 2006 , 128, 791-800	16.4	156
273	Dynamics of Photoinduced Charge Separation and Charge Recombination in Synthetic DNA Hairpins with Stilbenedicarboxamide Linkers. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2889-2902	16.4	151
272	Donor-bridge-acceptor energetics determine the distance dependence of electron tunneling in DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12536-41	11.5	148
271	Lewis acid catalysis of photochemical reactions. 8. Photodimerization and cross-cycloaddition of coumarin. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8653-8661	16.4	147
270	Proton-transfer reactions of photogenerated radical ion pairs. <i>Accounts of Chemical Research</i> , 1986 , 19, 401-405	24.3	143
269	Bispyrenyl Excimer Fluorescence: A Sensitive Oligonucleotide Probe. <i>Journal of the American Chemical Society</i> , 1997 , 119, 5451-5452	16.4	141
268	Control of kinetics and thermodynamics of [1,5]-shifts by aromaticity: a view through the prism of Marcus theory. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9329-42	16.4	116
267	DNA as helical ruler: exciton-coupled circular dichroism in DNA conjugates. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14445-53	16.4	110
266	Formation and reactions of stilbene exciplexes. <i>Accounts of Chemical Research</i> , 1979 , 12, 152-158	24.3	110
265	Dynamics and energetics of single-step hole transport in DNA hairpins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4850-61	16.4	109
264	Structure and Photoinduced Electron Transfer in Exceptionally Stable Synthetic DNA Hairpins with Stilbenediether Linkers. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9905-9906	16.4	108
263	Photochemical generation, isomerization, and oxygenation of stilbene cation radicals. <i>Journal of the American Chemical Society</i> , 1990 , 112, 8055-8064	16.4	104
262	Between superexchange and hopping: an intermediate charge-transfer mechanism in poly(A)-poly(T) DNA hairpins. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3953-63	16.4	102

261	Optically active BINOL core-based phenyleneethynylene dendrimers for the enantioselective fluorescent recognition of amino alcohols. <i>Journal of Organic Chemistry</i> , 2001 , 66, 6136-40	4.2	100
260	Lewis acid catalysis of photochemical reactions. 7. Photodimerization and cross-cycloaddition of cinnamic esters. <i>Journal of the American Chemical Society</i> , 1988 , 110, 1261-1267	16.4	91
259	Duplex and hairpin dimer structures for perylene diimide-oligonucleotide conjugates. <i>Chemical Communications</i> , 2005 , 4795-7	5.8	90
258	Charge-transfer and spin dynamics in DNA hairpin conjugates with perylenediimide as a base-pair surrogate. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13945-55	16.4	88
257	The Photochemistry of trans-ortho-, -meta-, and -para-Aminostilbenes. <i>Journal of the American Chemical Society</i> , 1999 , 121, 12045-12053	16.4	87
256	X-ray diffraction "fingerprinting" of DNA structure in solution for quantitative evaluation of molecular dynamics simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3534-9	11.5	84
255	Dynamics and Equilibria for Oxidation of G, GG, and GGG Sequences in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12037-12038	16.4	82
254	Hydrophobic self-assembly of a perylenediimide-linked DNA dumbbell into supramolecular polymers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15808-13	16.4	80
253	Direct measurement of the dynamics of hole hopping in extended DNA G-tracts. An unbiased random walk. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14388-90	16.4	77
252	Hole mobility in DNA a tracts. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7982-5	16.4	77
251	Hybrid Oligonucleotides Containing Stilbene Units. Excimer Fluorescence and Photodimerization. <i>Journal of the American Chemical Society</i> , 1995 , 117, 8785-8792	16.4	77
250	Excited State Properties of Donor-Acceptor Substituted trans-Stilbenes: The meta-Amino Effect. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8146-8153	2.8	76
249	Dynamics of electron injection in DNA hairpins. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11280-1	16.4	75
248	Lewis acid catalysis of coumarin photodimerization. <i>Journal of the American Chemical Society</i> , 1983 , 105, 3344-3345	16.4	75
247	trans-Stilbene-amine exciplexes. Stereoelectronic control of amine dimer cation radical formation. <i>Journal of the American Chemical Society</i> , 1984 , 106, 701-708	16.4	75
246	Orientation control of fluorescence resonance energy transfer using DNA as a helical scaffold. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10002-3	16.4	73
245	One-way photoisomerization of cis-stilbene via a cation radical chain mechanism. <i>Journal of the American Chemical Society</i> , 1985 , 107, 203-207	16.4	73
244	Photochemistry of methyl-substituted butyrophenones. <i>Journal of the American Chemical Society</i> , 1972 , 94, 3852-3858	16.4	73

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- 242 Dynamics of superexchange photoinduced electron transfer in duplex DNA. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2001**, 2, 1-16 16.4 70
- 241 Synthesis, structure, and photochemistry of exceptionally stable synthetic DNA hairpins with stilbene diether linkers. *Journal of the American Chemical Society*, **2002**, 124, 12165-73 16.4 69
- 240 Hydrophobic dimerization and thermal dissociation of perylenediimide-linked DNA hairpins. *Journal of the American Chemical Society*, **2009**, 131, 5920-9 16.4 65
- 239 Efficient charge transport in DNA diblock oligomers. *Journal of the American Chemical Society*, **2009**, 131, 9722-7 16.4 64
- 238 Photochemical addition of tertiary amines to stilbene. Stereoelectronic control of tertiary amine oxidation. *Journal of Organic Chemistry*, **1981**, 46, 1077-1082 4.2 64
- 237 trans-Stilbene-amine exciplexes. Photochemical addition of secondary and tertiary amines to stilbene. *Journal of the American Chemical Society*, **1977**, 99, 7991-7996 16.4 64
- 236 The Excited State Behavior of Aminostilbenes. A New Example of the Meta Effect. *Journal of the American Chemical Society*, **1997**, 119, 3834-3835 16.4 63
- 235 Crystal Structures of Secondary Arenedicarboxamides. An Investigation of Arene-Hydrogen Bonding Relationships in the Solid State. *Journal of the American Chemical Society*, **1996**, 118, 12029-12037 16.4 63
- 234 Selectivity of tertiary amine oxidations. *Journal of the American Chemical Society*, **1980**, 102, 1751-1752 16.4 63
- 233 Spectroscopy and Photochemistry of Nickel(II), Palladium(II), and Platinum(II) .beta.-Diketonates. *Inorganic Chemistry*, **1995**, 34, 3173-3181 5.1 61
- 232 Face-to-face and edge-to-face pi-pi interactions in a synthetic DNA hairpin with a stilbenediether linker. *Journal of the American Chemical Society*, **2003**, 125, 10842-9 16.4 60
- 231 Metal ion initiated charge-transfer photopolymerization of tetrahydrofuran. A mechanistic investigation. *Journal of the American Chemical Society*, **1982**, 104, 5586-5594 16.4 60
- 230 DNA-mediated exciton coupling and electron transfer between donor and acceptor stilbenes separated by a variable number of base pairs. *Journal of the American Chemical Society*, **2004**, 126, 8206-8215 16.4 59
- 229 Electron-transfer-induced photoisomerization, dimerization, and oxygenation of trans- and cis-anethole. The role of monomer and dimer cation radicals. *Journal of the American Chemical Society*, **1988**, 110, 8664-8670 16.4 58
- 228 Conformational control of TT dimerization in DNA conjugates. A molecular dynamics study. *Journal of Physical Chemistry B*, **2010**, 114, 5215-21 3.4 57
- 227 Chain-Length- and Solvent-Dependent Intramolecular Proton Transfer in Styrene-Amine Exciplexes. *Journal of the American Chemical Society*, **1994**, 116, 597-605 16.4 56
- 226 trans-Stilbene-amine exciplexes. Behavior of the exciplex, solvent-separated radical ion pair, and free radical ions. *Journal of the American Chemical Society*, **1984**, 106, 708-715 16.4 55

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223	Photochemical addition of tertiary amines to stilbene. Free-radical and electron-transfer mechanisms for amine oxidation. <i>Journal of the American Chemical Society</i> , 1982 , 104, 1924-1929	16.4	54
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221	Conformational control of photochemical behavior. Competitive .alpha. cleavage and .gamma.-hydrogen abstraction of alkyl phenyl ketones. <i>Journal of the American Chemical Society</i> , 1974 , 96, 6090-6099	16.4	53
220	Lewis acid catalysis of photochemical reactions. 4. Selective isomerization of cinnamic esters. <i>Journal of the American Chemical Society</i> , 1986 , 108, 3005-3015	16.4	52
219	Deep-hole transfer leads to ultrafast charge migration in DNA hairpins. <i>Nature Chemistry</i> , 2016 , 8, 1015-1021	16.4	51
218	Electronic structure and spectroscopy of nickel(II), palladium(II), and platinum(II) acetylacetonate complexes. <i>Inorganic Chemistry</i> , 1993 , 32, 1251-1258	5.1	49
217	Solid-State Fluorescence of Aromatic Dicarboxamides. Dependence upon Crystal Packing. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1775-1781	3.4	48
216	Stepwise evolution of the structure and electronic properties of DNA. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12729-31	16.4	48
215	Lewis acid catalysis of photochemical reactions. 10. Spectroscopy and photochemistry of 2-quinolones and their Lewis acid complexes. <i>Journal of Organic Chemistry</i> , 1991 , 56, 5311-5318	4.2	45
214	Highly regioselective anaerobic photocyclization of 3-styrylpyridines. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3878-84	16.4	44
213	Photochemical reactions of arenecarbonitriles with aliphatic amines. 1. Effect of arene structure on aminyl vs. .alpha.-aminoalkyl radical formation. <i>Journal of the American Chemical Society</i> , 1984 , 106, 187-193	16.4	44
212	Dynamics of ultrafast singlet and triplet charge transfer in anthraquinone-DNA conjugates. <i>Journal of the American Chemical Society</i> , 2010 , 132, 444-5	16.4	43
211	Pyrene excimer fluorescence as a probe for parallel G-quadruplex formation. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1213-7	6.3	43
210	Dynamics of inter- and intrastrand hole transport in DNA hairpins. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4568-9	16.4	43
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- 206 Entropic control of photochemical reactivity. Transition state for γ -hydrogen abstraction of alkyl phenyl ketones. *Journal of the American Chemical Society*, **1974**, 96, 6100-6107 16.4 42
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- 195 Ultrafast excited-state dynamics in hexaethyleneglycol-linked DNA homoduplexes made of A/T base pairs. *Journal of the American Chemical Society*, **2013**, 135, 10290-3 16.4 37
- 194 Ultrafast proton transfer dynamics of hydroxystilbene photoacids. *Journal of Physical Chemistry A*, **2005**, 109, 2443-51 2.8 37
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- 191 Lewis-acid catalysis of photochemical reactions. 9. Structure and photoisomerization of (E)- and (Z)-cinnamamides and their Lewis acid complexes. *Journal of Organic Chemistry*, **1991**, 56, 553-561 4.2 36
- 190 Charge Transport across DNA-Based Three-Way Junctions. *Journal of the American Chemical Society*, **2015**, 137, 5113-22 16.4 35

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182	Lewis acid catalysis of photochemical reactions. 5. Selective isomerization of conjugated butenoic and dienic esters. <i>Journal of the American Chemical Society</i> , 1986 , 108, 3016-3023	16.4	33
181	Sensitized photolysis of organic azides. Possible case of nonclassical energy transfer. <i>Journal of the American Chemical Society</i> , 1968 , 90, 7033-7038	16.4	33
180	Cage effects in the photochemistry of (S)-(+)-2-phenylpropiophenone. <i>Journal of the American Chemical Society</i> , 1973 , 95, 5973-5976	16.4	33
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175	Dynamics and efficiency of DNA hole transport via alternating AT versus poly(A) sequences. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15130-1	16.4	31
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173	Quenching of aromatic hydrocarbon singlets and aryl ketone triplets by alkyl disulfides. <i>Journal of the American Chemical Society</i> , 1976 , 98, 5319-5326	16.4	31
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- 166 Dynamics and Equilibrium for Single Step Hole Transport Processes in Duplex DNA. *Topics in Current Chemistry*, **2004**, 45-65 28
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- 163 Self-quenching and dimerization of singlet trans-stilbene. *Journal of Photochemistry and Photobiology*, **1977**, 7, 421-423 27
- 162 Thymine dimer photoreversal in purine-containing trinucleotides. *Journal of Physical Chemistry B*, **2012**, 116, 698-704 3.4 26
- 161 Conformational control of thymine photodimerization in single-strand and duplex DNA containing locked nucleic acid TT steps. *Journal of the American Chemical Society*, **2010**, 132, 12856-8 16.4 26
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- 159 Dynamics and mechanism of bridge-dependent charge separation in pyrenylurea-nitrobenzene pi-stacked protophanes. *Journal of the American Chemical Society*, **2006**, 128, 4792-801 16.4 26
- 158 Relaxation Pathways of Photoexcited Diaminostilbenes. The meta-Amino Effect. *Journal of Physical Chemistry A*, **2001**, 105, 4691-4696 2.8 25
- 157 Structure and dynamics of photogenerated triplet radical ion pairs in DNA hairpin conjugates with anthraquinone end caps. *Journal of the American Chemical Society*, **2012**, 134, 11251-60 16.4 24
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150	The Photochemistry of cis-ortho-, meta-, and para-Aminostilbenes. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 285-291	2.8	23
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148	Silver(I) photocatalyzed addition of acetonitrile to norbornene. <i>Journal of the American Chemical Society</i> , 1981 , 103, 3608-3609	16.4	23
147	Sum rules and determination of exciton coupling using absorption and circular dichroism spectra of biological polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 989-94	11.5	22
146	Torsional barriers for planar versus twisted singlet styrenes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2046-7	16.4	22
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133	Distance-Dependent Electronic Interactions Across DNA Base Pairs: Charge Transport, Exciton Coupling, and Energy Transfer. <i>Israel Journal of Chemistry</i> , 2013 , 53, 350-365	3.4	20
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131	DNA base-pair flipping with fluorescent perylenediimide pincers. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 916-22	4.2	20
130	The influence of guanine on DNA hole transport efficiency. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3798-800	16.4	20
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127	The singlet states of methyl cinnamate and methyl indenoate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1989 , 47, 173-179	4.7	20
126	Temperature- and Conformation-Dependent Luminescence of Benzanilides. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 1976-1984	2.8	19
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