

# Daniel E Falvey

## List of Publications by Year in descending order

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104  
papers

3,652  
citations

101535

36  
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155644

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127  
all docs

127  
docs citations

127  
times ranked

2418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating complex triplet-state dynamics in the model system isopropylthioxanthone. <i>IScience</i> , 2022, 25, 103600.	4.1	12
2	Photoacid Generators Activated through Sequential Two-Photon Excitation: 1-Sulfonatoxy-2-alkoxyanthraquinone Derivatives. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5227-5236.	2.5	3
3	Visible-Light Photocatalytic Oxidation of DMSO for RAFT Polymerization. <i>Photochemistry and Photobiology</i> , 2021, . .	2.5	1
4	State-Dependent Photochemical and Photophysical Behavior of Dithiolate Ester and Trithiocarbonate Reversible Addition-Fragmentation Chain Transfer Polymerization Agents. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4211-4222.	2.5	21
5	Generation of <i>N,N</i> -Di(4-bromophenyl)nitrenium Ion under Acidic Conditions: Search for a Nitrenium Dication. <i>Journal of Organic Chemistry</i> , 2020, 85, 8844-8850.	3.2	3
6	Mechanism of the photorelease of alcohols from the 9-phenyl-9-tritylone protecting group. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1990-1995.	2.9	1
7	Photoreleasable Protecting Groups Triggered by Sequential Two-Photon Absorption of Visible Light: Release of Carboxylic Acids from a Linked Anthraquinone- <i>N</i> -Alkylpicolinium Ester Molecule. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3204-3210.	2.5	11
8	Discrete Existence of Singlet Nitrenium Ions Revisited: Computational Studies of Non-Aryl Nitrenium Ions and Their Rearrangements. <i>ACS Omega</i> , 2018, 3, 10418-10432.	3.5	8
9	Substituent and Solvent Effects on the Stability of <i>N</i> -Heterocyclic Carbene Complexes with CO <sub>2</sub> . <i>Journal of Organic Chemistry</i> , 2017, 82, 1552-1557.	3.2	38
10	Visible light initiated release of calcium ions through photochemical electron transfer reactions. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1003-1008.	2.9	7
11	Nitrenium Ion Analogues of Nonclassical Carbocations: Cyclopropylnitrenium, Allylnitrenium, and Azetidenium Ions and Mechanisms for Their Interconversion. <i>Organic Letters</i> , 2015, 17, 484-487.	4.6	4
12	Visible Light Photorelease of Carboxylic Acids via Charge-Transfer Excitation of <i>N</i> -Methylpyridinium Iodide Esters. <i>Organic Letters</i> , 2015, 17, 3454-3457.	4.6	12
13	Photochemical Reduction of CO <sub>2</sub> Using 1,3-Dimethylimidazolylidene. <i>Organic Letters</i> , 2015, 17, 4152-4155.	4.6	26
14	Uncaging Alcohols Using UV or Visible Light Photoinduced Electron Transfer to 9-Phenyl-9-tritylone Ethers. <i>Organic Letters</i> , 2015, 17, 5986-5989.	4.6	11
15	Solvent-Dependent Decarboxylation of 1,3-Dimethylimidazolium-2-Carboxylate. <i>Journal of Organic Chemistry</i> , 2014, 79, 4293-4299.	3.2	37
16	A simple route to fluids with photo-switchable viscosities based on a reversible transition between vesicles and wormlike micelles. <i>Soft Matter</i> , 2013, 9, 5025.	2.7	75
17	The 3,5-dinitroanilide anion: a singlet anilide anion with evidence for a thermally accessible triplet state. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 699-706.	1.9	3
18	Solvent-Dependent Photochemistry of 2,2,2-Tribromoethyl-(2-phenylacetate). <i>Journal of Organic Chemistry</i> , 2013, 78, 1934-1939.	3.2	1

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19	Photochemical Heterolysis of 3,5-Bis(dimethylamino)benzyl Alcohols and Esters: Generation of a Benzyl Cation with a Low-Energy Triplet State. <i>Organic Letters</i> , 2011, 13, 212-215.	4.6	23
20	2-(3,5-Dinitrophenyl)-1,3-dithiane Carbanion: A Benzylic Anion with a Low Energy Triplet State. <i>Journal of the American Chemical Society</i> , 2011, 133, 15553-15558.	13.7	22
21	Vinyl Cations Substituted with $\hat{\pi}^2$ $\pi$ -Donors Have Triplet Ground States. <i>Journal of the American Chemical Society</i> , 2010, 132, 215-222.	13.7	35
22	Application of PET deprotection for orthogonal photocontrol of aqueous solution viscosity. <i>Chemical Communications</i> , 2010, 46, 8983.	4.1	14
23	Ketocoumarin dyes as electron mediators for visible light induced carboxylate photorelease. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 854-860.	2.9	18
24	A New Photolabile Protecting Group for Release of Carboxylic Acids by Visible-Light-Induced Direct and Mediated Electron Transfer. <i>Journal of Organic Chemistry</i> , 2009, 74, 3894-3899.	3.2	64
25	Photogelling Colloidal Dispersions Based on Light-Activated Assembly of Nanoparticles. <i>Journal of the American Chemical Society</i> , 2009, 131, 7135-7141.	13.7	73
26	Solvent-Mediated Photoinduced Electron Transfer in a Pyridinium Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2008, 130, 1552-1553.	13.7	61
27	Aqueous Photochemistry of Methyl-Benzoquinone. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2803-2812.	2.5	54
28	Photorelease of Carboxylic Acids Mediated by Visible-Light-Absorbing Gold-Nanoparticles. <i>Organic Letters</i> , 2008, 10, 457-460.	4.6	21
29	Benzylic Cations with Triplet Ground States: $\hat{\pi}^2$ Computational Studies of Aryl Carbenium Ions, Silylenium Ions, Nitrenium Ions, and Oxenium Ions Substituted with Meta $\pi$ -Donors. <i>Journal of the American Chemical Society</i> , 2007, 129, 10113-10119.	13.7	36
30	N,N-Di(4-halophenyl)nitrenium Ions: $\hat{\pi}^2$ Nucleophilic Trapping, Aromatic Substitution, and Hydrogen Atom Transfer. <i>Journal of Organic Chemistry</i> , 2007, 72, 4626-4634.	3.2	16
31	Photoinduced Electron-Transfer Reactions in Two Room-Temperature Ionic Liquids: $\hat{\pi}^2$ 1-Butyl-3-methylimidazolium Hexafluorophosphate and 1-Octyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5023-5029.	2.6	72
32	Carbazolyl Nitrenium Ion: $\hat{\pi}^2$ Electron Configuration and Antiaromaticity Assessed by Laser Flash Photolysis, Trapping Rate Constants, Product Analysis, and Computational Studies. <i>Journal of Organic Chemistry</i> , 2007, 72, 8186-8195.	3.2	19
33	Photorelease of carboxylic and amino acids from N-methyl-4-picolinium esters by mediated electron transfer. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 116-121.	2.9	21
34	Fast reactions of arylnitrenium ions with amino acids and proteins: a laser flash photolysis study. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 291-294.	1.9	6
35	Photoremovable Protecting Groups Based on Electron Transfer Chemistry. <i>ChemInform</i> , 2005, 36, no.	0.0	0
36	Photolytic Release of Carboxylic Acids Using Linked Donor $\hat{\pi}^2$ Acceptor Molecules: $\hat{\pi}^2$ Direct versus Mediated Photoinduced Electron Transfer to N-Alkyl-4-picolinium Esters. <i>Organic Letters</i> , 2005, 7, 2631-2634.	4.6	28

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37	Nitrenium Ions, 2005, 593-650.		9
38	Diphenylnitrenium Ion: Cyclization, Electron Transfer, and Polymerization Reactions. Journal of Organic Chemistry, 2005, 70, 5283-5290.	3.2	12
39	Photogenerated N-Methyl-N-1-naphthylnitrenium Ion: Laser Flash Photolysis, Trapping Rates, and Product Study. Journal of Organic Chemistry, 2005, 70, 3127-3132.	3.2	15
40	Photorelease of Carboxylic Acids, Amino Acids, and Phosphates from N-Alkylpicolinium Esters Using Photosensitization by High Wavelength Laser Dyes. Journal of the American Chemical Society, 2005, 127, 8000-8001.	13.7	58
41	C=O Bond Fragmentation of 4-Picolyl- and N-Methyl-4-picolinium Esters Triggered by Photochemical Electron Transfer. Journal of Organic Chemistry, 2004, 69, 5547-5554.	3.2	48
42	Photochemical Generation of Nitrenium Ions from Protonated 1,1-Diarylhydrazines. Organic Letters, 2004, 6, 4671-4674.	4.6	17
43	Effect of meta Electron-Donating Groups on the Electronic Structure of Substituted Phenyl Nitrenium Ions. Journal of the American Chemical Society, 2004, 126, 9661-9668.	13.7	35
44	Photoremovable protecting groups based on electron transfer chemistry. Photochemical and Photobiological Sciences, 2004, 3, 831.	2.9	64
45	Photochemically generated aryl nitrenium ions: substituent effects on reactivity studied by laser flash photolysis. This paper is dedicated to Professor Fred Lewis on the event of his 60th birthday. Photochemical and Photobiological Sciences, 2003, 2, 1205.	2.9	6
46	In vitro studies on the photobiological properties of aloe emodin and aloin A. Free Radical Biology and Medicine, 2003, 34, 233-242.	2.9	74
47	Introduction. Annual Reports on the Progress of Chemistry Section B, 2003, 99, 1.	0.9	1
48	Photochemical Oxidation of Water by 2-Methyl-1,4-benzoquinone: Evidence against the Formation of Free Hydroxyl Radical. Journal of Physical Chemistry A, 2002, 106, 2889-2894.	2.5	79
49	Reactions of N-Methyl-N-(4-biphenyl)nitrenium Ion with Electron-Rich Arenes: Laser Flash Photolysis and Product Studies. Journal of the American Chemical Society, 2002, 124, 3567-3577.	13.7	30
50	Photoinduced electron transfer cleavage of oxetane adducts of uracil and cytosine. Photochemical and Photobiological Sciences, 2002, 1, 632-635.	2.9	23
51	Photochemistry and Phototoxicity of Aloe Emodin. Photochemistry and Photobiology, 2002, 75, 346-352.	2.5	35
52	Photochemistry and Phototoxicity of Aloe Emodin. Photochemistry and Photobiology, 2002, 75, 346.	2.5	9
53	Photolysis of Thymine Oxetanes Produces Triplet Excited Carbonyl Compounds with High Efficiency. Journal of the American Chemical Society, 2001, 123, 3145-3146.	13.7	19
54	Reactions of Nitrenium Ions with Arenes: Laser Flash Photolysis Detection of a $\pi$ -Complex between N,N-Diphenylnitrenium Ion and Alkoxybenzenes. Journal of the American Chemical Society, 2001, 123, 11329-11330.	13.7	20

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55	Photoinduced C-C Bond Cleavage in Dithiane Carbonyl Adducts: A Laser Flash Photolysis Study. <i>Journal of Organic Chemistry</i> , 2001, 66, 2887-2890.	3.2	38
56	Model Studies of the (6 <sup>+</sup> 4) Photoproduct Photolyase Enzyme: Laser Flash Photolysis Experiments Confirm Radical Ion Intermediates in the Sensitized Repair of Thymine Oxetane Adducts. <i>Journal of the American Chemical Society</i> , 2000, 122, 11219-11225.	13.7	68
57	Photogenerated Nitrenium Ions: A Search for Triplet-State Reactivity in the Chemistry of the Diphenylnitrenium Ion. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11154-11158.	2.5	26
58	Photochemically Removable Protecting Groups Based on Covalently Linked Electron Donor-Acceptor Systems. <i>Journal of the American Chemical Society</i> , 2000, 122, 9361-9366.	13.7	42
59	Structures of Reactive Nitrenium Ions: Time-Resolved Infrared Laser Flash Photolysis and Computational Studies of Substituted N-Methyl-N-arylnitrenium Ions. <i>Journal of the American Chemical Society</i> , 2000, 122, 8271-8278.	13.7	74
60	Singlet-Triplet Energy Gaps in Highly Stabilized Nitrenium Ions: Experimental and Theoretical Study of 1,3-Dimethylbenzotriazolium Ion. <i>Organic Letters</i> , 2000, 2, 2451-2454.	4.6	28
61	Photoreleasable protecting groups based on electron transfer chemistry. Donor sensitized release of phenacyl groups from alcohols, phosphates and diacids. <i>Tetrahedron</i> , 1999, 55, 12699-12710.	1.9	53
62	Singlet and triplet states in the reactions of nitrenium ions. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 589-596.	1.9	37
63	On the Solution Chemistry of Parent Nitrenium Ion NH <sub>2</sub> <sup>+</sup> : The Role of the Singlet and Triplet States in Its Reactions with Water, Methanol, and Hydrocarbons. <i>Journal of Organic Chemistry</i> , 1999, 64, 5853-5857.	3.2	19
64	Protecting group release through photoinduced electron transfer: Wavelength control through sensitized irradiation. <i>Tetrahedron Letters</i> , 1998, 39, 4635-4638.	1.4	44
65	Chapter 9. Reaction mechanisms . Part (iv) Free-radical reactions. <i>Annual Reports on the Progress of Chemistry Section B</i> , 1998, 94, 321.	0.9	2
66	Dynamics of Anilinium Radical $\dot{\pm}$ -Heterolytic Fragmentation Processes. Electrofugal Group, Substituent, and Medium Effects on Desilylation, Decarboxylation, and Retro-Aldol Cleavage Pathways. <i>Journal of the American Chemical Society</i> , 1998, 120, 10676-10686.	13.7	115
67	Direct Photolysis of Phenacyl Protecting Groups Studied by Laser Flash Photolysis: An Excited State Hydrogen Atom Abstraction Pathway Leads to Formation of Carboxylic Acids and Acetophenone. <i>Journal of the American Chemical Society</i> , 1998, 120, 2965-2966.	13.7	70
68	Singlet-Triplet Splittings and 1,2-Hydrogen Shift Barriers for Methylphenylborenone, Methylphenylcarbene, and Methylphenylnitrenium in the Gas Phase and Solution. What a Difference a Charge Makes. <i>Journal of the American Chemical Society</i> , 1997, 119, 12338-12342.	13.7	63
69	Experimental Confirmation of the Iminocyclohexadienyl Cation-like Structure of Arylnitrenium Ions: Time-Resolved IR Studies of Diphenylnitrenium Ion. <i>Journal of the American Chemical Society</i> , 1997, 119, 11552-11553.	13.7	54
70	Reactions of Diarylnitrenium Ions with Electron Rich Alkenes: An Experimental and Theoretical Study. <i>Journal of Organic Chemistry</i> , 1997, 62, 2742-2751.	3.2	30
71	The Dynamics of $\dot{\pm}$ -Anilino Carboxylate and Related Cation Radical $\dot{\pm}$ -Heterolytic Fragmentations. <i>Journal of the American Chemical Society</i> , 1997, 119, 5261-5262.	13.7	24
72	Protecting Groups That Can Be Removed through Photochemical Electron Transfer: Mechanistic and Product Studies on Photosensitized Release of Carboxylates from Phenacyl Esters. <i>Journal of Organic Chemistry</i> , 1997, 62, 6245-6251.	3.2	88

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73	Model Studies of DNA Photorepair: Reduction Potentials of Thymine and Cytosine Cyclobutane Dimers Measured by Fluorescence Quenching. <i>Journal of the American Chemical Society</i> , 1997, 119, 1971-1977.	13.7	82
74	Photoinduced Electron Transfer to Pyrimidines and 5,6-Dihydropyrimidine Derivatives: Reduction Potentials Determined by Fluorescence Quenching Kinetics. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4332-4337.	2.5	47
75	Photothermal Beam Deflection Calorimetry in Solution Photochemistry: Recent Progress and Future Prospects. <i>Photochemistry and Photobiology</i> , 1997, 65, 4-9.	2.5	19
76	Computational prediction of a ground-state triplet arylnitrenium ion and a possible ground-state triplet silylene. <i>Tetrahedron Letters</i> , 1997, 38, 1515-1518.	1.4	44
77	Photochemically Generated Arylnitrenium Ions: Laser Flash Photolysis and Product Studies of the Photochemistry of N-tert-Butyl-3-methyl-6-chloroanthranilium Ions. <i>Journal of Organic Chemistry</i> , 1996, 61, 3195-3199.	3.2	13
78	Photogenerated Diarylnitrenium Ions: Laser Flash Photolysis and Product Studies on Diphenylnitrenium Ion Generated from Photolysis of 1-(N,N-Diphenylamino)pyridinium Ions. <i>Journal of the American Chemical Society</i> , 1996, 118, 8965-8966.	13.7	58
79	Substituent Effects on the Lifetimes and Reactivities of Arylnitrenium Ions Studied by Laser Flash Photolysis and Photothermal Beam Deflection. <i>Journal of the American Chemical Society</i> , 1996, 118, 8127-8135.	13.7	43
80	Model Studies of DNA Photorepair: Enthalpy of Cleavage of a Pyrimidine Dimer Measured by Photothermal Beam Deflection Calorimetry. <i>Photochemistry and Photobiology</i> , 1996, 64, 764-768.	2.5	12
81	Photolysis of 3-hydroxy-2,3-dihydro-2,1-benzisoxazole derivatives studied by EPR spectroscopy: Competing Ni—O and C—O bond scission. <i>Tetrahedron Letters</i> , 1996, 37, 2895-2898.	1.4	2
82	A photothermal beam deflection apparatus for the time-resolved kinetic study of fast photophysical and photochemical processes. <i>Review of Scientific Instruments</i> , 1996, 67, 3260-3269.	1.3	12
83	Synthesis and Photochemical Cleavage of Cis-Syn Pyrimidine Cyclobutane Dimer Analogs. [Erratum to document cited in CA122:132825]. <i>Journal of Organic Chemistry</i> , 1995, 60, 4668-4668.	3.2	1
84	Applications of photothermal beam deflection calorimetry to organic photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 87, 13-21.	3.9	15
85	Synthesis and Photochemical Cleavage of Cis-Syn Pyrimidine Cyclobutane Dimer Analogs. <i>Journal of Organic Chemistry</i> , 1995, 60, 624-631.	3.2	26
86	Model studies of the (6-4) photoproduct DNA photolyase: Synthesis and photosensitized splitting of a thymine-5,6-oxetane. <i>Journal of the American Chemical Society</i> , 1995, 117, 11375-11376.	13.7	65
87	Reactions of a Triplet Arylnitrenium Ion: Laser Flash Photolysis and Product Studies of N-tert-Butyl(2-acetyl-4-nitrophenyl)nitrenium Ion. <i>Journal of the American Chemical Society</i> , 1995, 117, 10186-10193.	13.7	59
88	Photogenerated Arylnitrenium Ions: Reactions of N-tert-Butyl(4-substituted 2-acetylphenyl)nitrenium ions with Alcohols and Water Studied by Laser Flash Photolysis. <i>Journal of the American Chemical Society</i> , 1995, 117, 6544-6552.	13.7	63
89	Photogenerated nitrenium ions: Singlet and triplet state reactions of tert-butyl-(2-acetyl-4-methyl)phenyl nitrenium ion. <i>Tetrahedron Letters</i> , 1994, 35, 4943-4946.	1.4	23
90	Free Radical Rearrangements in Uracil Derivatives. <i>Journal of Organic Chemistry</i> , 1994, 59, 4791-4799.	3.2	20

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91	Ab Initio Characterization of Phenylnitrenium and Phenylcarbene: Remarkably Different Properties for Isoelectronic Species. <i>Journal of the American Chemical Society</i> , 1994, 116, 9787-9788.	13.7	123
92	Photogeneration of the Xanthy Cation: .beta.-Cleavage from Excited State Ketones. <i>Journal of Organic Chemistry</i> , 1994, 59, 8023-8029.	3.2	8
93	Dynamics of .alpha.-CH Deprotonation and .alpha.-Desilylation Reactions of Tertiary Amine Cation Radicals. <i>Journal of the American Chemical Society</i> , 1994, 116, 4211-4220.	13.7	196
94	Stereochemistry of the solid state photodimerization of thymoquinone. <i>Tetrahedron Letters</i> , 1993, 34, 3509-3510.	1.4	8
95	Photogenerated arylnitrenium ions: photoisomerization of the N-tert-butyl-3-methylanthranilium ion and spin-selective reactivity of the isomeric arylnitrenium ion. <i>Journal of the American Chemical Society</i> , 1993, 115, 7254-7262.	13.7	34
96	Photogenerated arylnitrenium ions: absorption spectra and absolute rate constants for tert-butyl(4-halo-2-acetylphenyl)nitrenium ions measured by time-resolved laser spectroscopy. <i>Journal of the American Chemical Society</i> , 1993, 115, 9870-9871.	13.7	50
97	Radical anion reactions of cyclobutane derivatives; electron-transfer cleavage of dithymoquinone. <i>Journal of Organic Chemistry</i> , 1993, 58, 3616-3618.	3.2	21
98	Model studies of DNA photorepair: energetic requirements for the radical anion mechanism determined by fluorescence quenching. <i>Journal of the American Chemical Society</i> , 1992, 114, 7313-7314.	13.7	41
99	Solvent quality assurance in porphyrin research. <i>Energy &amp; Fuels</i> , 1992, 6, 532-534.	5.1	1
100	Model studies of DNA photorepair: radical anion cleavage of thymine dimers probed by nanosecond laser spectroscopy. <i>Journal of the American Chemical Society</i> , 1991, 113, 8557-8558.	13.7	66
101	Neophyl-like rearrangement of alkoxy radicals: direct detection of a bridged intermediate by time-resolved absorption spectroscopy. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1056-1059.	2.9	44
102	Competitive singlet-singlet energy transfer and electron transfer activation of aryl azides: application to photo-cross-linking experiments. <i>Journal of Organic Chemistry</i> , 1988, 53, 3501-3507.	3.2	33
103	Investigation of the 2,7-dihalofluorenylidenes: search for heavy atom effects in the reactions of triplet carbenes. <i>Journal of the American Chemical Society</i> , 1987, 109, 5003-5008.	13.7	12
104	Picosecond time scale dynamics of perester photodecomposition: evidence for an acyloxy radical intermediate in the photolysis of tert-butyl 9-methylfluorene-9-percarboxylate. <i>Journal of the American Chemical Society</i> , 1986, 108, 7419-7420.	13.7	62