

# Michael D Sevilla

## List of Publications by Year in descending order

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137  
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6,665  
citations

50170

46  
h-index

71532

76  
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140  
all docs

140  
docs citations

140  
times ranked

2571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of the Directionality of Hole Transfer between the Base and the Sugar-Phosphate Backbone in DNA with the Number of Sulfur Atoms in the Phosphate Group. <i>Journal of Physical Chemistry B</i> , 2022, 126, 430-442.	1.2	2
2	Proton-Transfer Reactions in One-Electron-Oxidized G-Quadruplexes: A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1483-1491.	1.2	3
3	Electron-Induced Repair of 2'-Deoxyribose Sugar Radicals in DNA: A Density Functional Theory (DFT) Study. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1736.	1.8	5
4	Ne-22 Ion-Beam Radiation Damage to DNA: From Initial Free Radical Formation to Resulting DNA-Base Damage. <i>ACS Omega</i> , 2021, 6, 16600-16611.	1.6	5
5	Temperature Effects on CO <sub>2</sub> Electroreduction Pathways in an Imidazolium-Based Ionic Liquid on Pt Electrode. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26094-26105.	1.5	15
6	Site of Azido Substitution in the Sugar Moiety of Azidopyrimidine Nucleosides Influences the Reactivity of Aminyl Radicals Formed by Dissociative Electron Attachment. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11357-11370.	1.2	4
7	One Way Traffic: Base-to-Backbone Hole Transfer in Nucleoside Phosphorodithioate. <i>Chemistry - A European Journal</i> , 2020, 26, 9407-9407.	1.7	0
8	One Way Traffic: Base-to-Backbone Hole Transfer in Nucleoside Phosphorodithioate. <i>Chemistry - A European Journal</i> , 2020, 26, 9495-9505.	1.7	4
9	One-electron oxidation of ds(5'-GGG-3') and ds(5'-G(8OG)G-3') and the nature of hole distribution: a density functional theory (DFT) study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5078-5089.	1.3	15
10	Reaction of Electrons with DNA: Radiation Damage to Radiosensitization. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3998.	1.8	54
11	Adsorption and Electrochemistry of Carbon Monoxide at the Ionic Liquid-Pt Interface. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4726-4734.	1.2	10
12	Excited States of One-Electron Oxidized Guanine-Cytosine Base Pair Radicals: A Time Dependent Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3098-3108.	1.1	18
13	Structural, spectroscopic, electrochemical, and magnetic properties for manganese(II) triazamacrocyclic complexes. <i>Inorganica Chimica Acta</i> , 2019, 486, 546-555.	1.2	5
14	Observation of dissociative quasi-free electron attachment to nucleoside via excited anion radical in solution. <i>Nature Communications</i> , 2019, 10, 102.	5.8	55
15	Direct observation of the oxidation of DNA bases by phosphate radicals formed under radiation: a model of the backbone-to-base hole transfer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14927-14937.	1.3	20
16	SOMO-HOMO Level Inversion in Biologically Important Radicals. <i>Journal of Physical Chemistry B</i> , 2018, 122, 98-105.	1.2	52
17	Electron-Mediated Aminyl and Iminyl Radicals from C5 Azido-Modified Pyrimidine Nucleosides Augment Radiation Damage to Cancer Cells. <i>Organic Letters</i> , 2018, 20, 7400-7404.	2.4	14
18	Low-Energy Electron (LEE)-Induced DNA Damage: Theoretical Approaches to Modeling Experiment. , 2017, , 1741-1802.		13

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19	Hydrogen Electrooxidation in Ionic Liquids Catalyzed by the NTF <sub>2</sub> Radical. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5161-5167.	1.5	13
20	Prehydrated One-Electron Attachment to Azido-Modified Pentofuranoses: Aminyl Radical Formation, Rapid H-Atom Transfer, and Subsequent Ring Opening. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4968-4980.	1.2	11
21	Cytosine Iminyl Radical (cytN <sup>•</sup> ) Formation via Electron-Induced Debromination of 5-Bromocytosine: A DFT and Gaussian 4 Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4825-4829.	1.1	9
22	Modulating the Catalytic Activity of Cerium Oxide Nanoparticles with the Anion of the Precursor Salt. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20039-20050.	1.5	26
23	Thermally Induced Oxidation of [Fe II (tacn) <sub>2</sub> ](OTf) <sub>2</sub> (tacn = 1,4,7-triazacyclononane). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5529-5535.	1.0	2
24	Independent Photochemical Generation and Reactivity of Nitrogen-Centered Purine Nucleoside Radicals from Hydrazines. <i>Organic Letters</i> , 2017, 19, 6444-6447.	2.4	7
25	Gamma and ion-beam irradiation of DNA: Free radical mechanisms, electron effects, and radiation chemical track structure. <i>Radiation Physics and Chemistry</i> , 2016, 128, 60-74.	1.4	47
26	UV-Induced Adenine Radicals Induced in DNA A-Tracts: Spectral and Dynamical Characterization. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3949-3953.	2.1	35
27	Anaerobic Oxidation of Methane to Methyl Radical in NTF <sub>2</sub> -Based Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13466-13473.	1.5	7
28	Do Solvated Electrons (e <sub>aq</sub> <sup>•-</sup> ) Reduce DNA Bases? A Gaussian 4 and Density Functional Theory-Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2115-2123.	1.2	43
29	Comment on "Proton Transfer of Guanine Radical Cations Studied by Time-Resolved Resonance Raman Spectroscopy Combined with Pulse Radiolysis". <i>Journal of Physical Chemistry B</i> , 2016, 120, 2984-2986.	1.2	14
30	<i>In Situ</i> Generated Platinum Catalyst for Methanol Oxidation via Electrochemical Oxidation of Bis(trifluoromethylsulfonyl)imide Anion in Ionic Liquids at Anaerobic Condition. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1004-1012.	1.5	18
31	İ-Radical to İf-Radical Tautomerization in One-Electron-Oxidized 1-Methylcytosine and Its Analogs. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11496-11505.	1.2	20
32	5-Thiocyanato-2-deoxyuridine as a possible radiosensitizer: electron-induced formation of uracil-C5-thiyl radical and its dimerization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16907-16916.	1.3	29
33	A Simple ab Initio Model for the Hydrated Electron That Matches Experiment. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9148-9159.	1.1	88
34	Low-Energy Electron (LEE)-Induced DNA Damage: Theoretical Approaches to Modeling Experiment. , 2015, , 1-63.		1
35	Presolvated Electron Reactions with Methyl Acetoacetate: Electron Localization, Proton-Deuteron Exchange, and H-Atom Abstraction. <i>Molecules</i> , 2014, 19, 13486-13497.	1.7	10
36	An ESR and DFT study of hydration of the 2-deoxyuridine-5-yl radical: a possible hydroxyl radical intermediate. <i>Chemical Communications</i> , 2014, 50, 14605-14608.	2.2	15

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37	Reactions of 5-methylcytosine cation radicals in DNA and model systems: Thermal deprotonation from the 5-methyl group vs. excited state deprotonation from sugar. <i>International Journal of Radiation Biology</i> , 2014, 90, 433-445.	1.0	10
38	Electron Spin Resonance of Radicals in Irradiated DNA. , 2014, , 299-352.		25
39	One-Electron Oxidation of Gemcitabine and Analogs: Mechanism of Formation of C3 <sup>•</sup> and C2 <sup>•</sup> Sugar Radicals. <i>Journal of the American Chemical Society</i> , 2014, 136, 15646-15653.	6.6	15
40	Proton Transfer Induced SOMO-to-HOMO Level Switching in One-Electron Oxidized A-T and G-C Base Pairs: A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5453-5458.	1.2	40
41	• vs •-Radical States of One-Electron-Oxidized DNA/RNA Bases: A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11623-11632.	1.2	21
42	Presolvated Low Energy Electron Attachment to Peptide Methyl Esters in Aqueous Solution: C-O Bond Cleavage at 77 K. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2872-2877.	1.2	9
43	Formation of S-Cl Phosphorothioate Adduct Radicals in dsDNA S-Oligomers: Hole Transfer to Guanine vs Disulfide Anion Radical Formation. <i>Journal of the American Chemical Society</i> , 2013, 135, 12827-12838.	6.6	27
44	Excited state proton-coupled electron transfer in 8-oxoG-C and 8-oxoG-A base pairs: a time dependent density functional theory (TD-DFT) study. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1328-1340.	1.6	14
45	Hydroxyl Ion Addition to One-Electron Oxidized Thymine: Unimolecular Interconversion of C5 to C6 OH-Adducts. <i>Journal of the American Chemical Society</i> , 2013, 135, 3121-3135.	6.6	42
46	Direct Strand Scission in Double Stranded RNA via a C5-Pyrimidine Radical. <i>Journal of the American Chemical Society</i> , 2012, 134, 3917-3924.	6.6	25
47	One-Electron Oxidation of Neutral Sugar Radicals of 2-Deoxyguanosine and 2-Deoxythymidine: A Density Functional Theory (DFT) Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9409-9416.	1.2	20
48	Direct Formation of the C5-Radical in the Sugar-Phosphate Backbone of DNA by High-Energy Radiation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5900-5906.	1.2	24
49	Kr-86 Ion-Beam Irradiation of Hydrated DNA: Free Radical and Unaltered Base Yields. <i>Radiation Research</i> , 2012, 178, 524.	0.7	13
50	Low-Energy Electron (LEE)-Induced DNA Damage: Theoretical Approaches to Modeling Experiment. , 2012, , 1215-1256.		7
51	Highly Oxidizing Excited States of One-Electron-Oxidized Guanine in DNA: Wavelength and pH Dependence. <i>Journal of the American Chemical Society</i> , 2011, 133, 4527-4537.	6.6	36
52	Hydroxyl Radical (OH <sup>•</sup> ) Reaction with Guanine in an Aqueous Environment: A DFT Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15129-15137.	1.2	92
53	Comment on "Theoretical Study of Polaron Formation in Poly(G)-Poly(C) Cations". <i>Journal of Physical Chemistry B</i> , 2011, 115, 8947-8948.	1.2	8
54	Photooxidation of Nucleic Acids on Metal Oxides: Physicochemical and Astrobiological Perspectives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3393-3403.	1.5	14

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55	Density Functional Theory Studies of the Extent of Hole Delocalization in One-Electron Oxidized Adenine and Guanine Base Stacks. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4990-5000.	1.2	55
56	Proton-Coupled Electron Transfer in DNA on Formation of Radiation-Produced Ion Radicals. <i>Chemical Reviews</i> , 2010, 110, 7002-7023.	23.0	185
57	Formation of Aminyl Radicals on Electron Attachment to AZT: Abstraction from the Sugar Phosphate Backbone versus One-Electron Oxidation of Guanine. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9289-9299.	1.2	19
58	Prototropic equilibria in DNA containing one-electron oxidized GC: intra-duplex vs. duplex to solvent deprotonation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5353.	1.3	54
59	Mechanisms of Radiation-Induced DNA Damage: Direct Effects. , 2010, , 509-542.		24
60	Physicochemical Mechanisms of Radiation-Induced DNA Damage. , 2010, , 503-541.		11
61	Synthesis and EPR Studies of 2-Deoxyuridines with Alkynyl, Rodlike Linkages. <i>Chemistry - A European Journal</i> , 2009, 15, 7569-7577.	1.7	15
62	Role of Excited States in Low Energy Electron (LEE) Induced Strand Breaks in DNA Model Systems: Influence of Aqueous Environment. <i>ChemPhysChem</i> , 2009, 10, 1426-1430.	1.0	45
63	Direct Observation of the Hole Protonation State and Hole Localization Site in DNA-Oligomers. <i>Journal of the American Chemical Society</i> , 2009, 131, 8614-8619.	6.6	104
64	Sugar Radical Formation by a Proton Coupled Hole Transfer in 2-Deoxyguanosine Radical Cation (2-dG <sup>•+</sup> ): A Theoretical Treatment. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13374-13380.	1.2	20
65	Influence of Hydration on Proton Transfer in the Guanine <sup>•+</sup> Cytosine Radical Cation (G <sup>•+</sup> /C <sup>•+</sup> ) Base Pair: A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11359-11361.	1.2	97
66	Radical Formation and Chemical Track Structure in Ion-Beam Irradiated DNA. , 2009, , .		3
67	Comment on "Excited States of DNA Base Pairs Using Long-Range Corrected Time-Dependent Density Functional Theory". <i>Journal of Physical Chemistry A</i> , 2009, 113, 11093-11094.	1.1	3
68	Effect of Base Stacking on the Acid-Base Properties of the Adenine Cation Radical [A <sup>•+</sup> ] in Solution: ESR and DFT Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 10282-10292.	6.6	74
69	Photoexcitation of Adenine Cation Radical [A <sup>•+</sup> ] in the near UV-vis Region Produces Sugar Radicals in Adenosine and in Its Nucleotides. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15844-15855.	1.2	36
70	The Role of "Excited States in Electron-Induced DNA Strand Break Formation: A Time-Dependent Density Functional Theory Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 2130-2131.	6.6	71
71	Microhydration of the Guanine <sup>•+</sup> Cytosine (GC) Base Pair in the Neutral and Anionic Radical States: A Density Functional Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5189-5198.	1.2	48
72	Formation of Sugar Radicals in RNA Model Systems and Oligomers via Excitation of Guanine Cation Radical. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2168-2178.	1.2	33

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73	Radiation Effects On DNA: Theoretical Investigations Of Electron, Hole And Excitation Pathways To DNA Damage. Challenges and Advances in Computational Chemistry and Physics, 2008, , 577-617.	0.6	17
74	DFT Treatment of Radiation Produced Radicals in DNA Model Systems. Advances in Quantum Chemistry, 2007, 52, 59-87.	0.4	48
75	Sugar Radicals Formed by Photoexcitation of Guanine Cation Radical in Oligonucleotides. Journal of Physical Chemistry B, 2007, 111, 7415-7421.	1.2	41
76	Low-Energy Electron Attachment to 5â€-Thymidine Monophosphate:Â Modeling Single Strand Breaks Through Dissociative Electron Attachment. Journal of Physical Chemistry B, 2007, 111, 5464-5474.	1.2	81
77	The Role of Charge and Spin Migration in DNA Radiation Damage. Nanoscience and Technology, 2007, , 139-175.	1.5	34
78	Photo-induced Hole Transfer from Base to Sugar in DNA: Relationship to Primary Radiation Damage. Radiation Research, 2006, 165, 479-484.	0.7	55
79	Comment on Electron Transfer vs Differential Decay in Irradiated DNA. Journal of Physical Chemistry B, 2006, 110, 25122-25123.	1.2	5
80	Photoexcitation of Dinucleoside Radical Cations:Â A Time-Dependent Density Functional Study. Journal of Physical Chemistry B, 2006, 110, 24181-24188.	1.2	45
81	The Guanine Cation Radical:Â Investigation of Deprotonation States by ESR and DFT. Journal of Physical Chemistry B, 2006, 110, 24171-24180.	1.2	133
82	C5'- and C3'-sugar radicals produced via photo-excitation of one-electron oxidized adenine in 2'-deoxyadenosine and its derivatives. Nucleic Acids Research, 2006, 34, 1501-1511.	6.5	55
83	Products of the reactions of the dry and aqueous electron with hydrated DNA: hydrogen and 5,6-dihydropyrimidines. Radiation Physics and Chemistry, 2005, 72, 257-264.	1.4	31
84	Track Structure in DNA Irradiated with Heavy Ions. Radiation Research, 2005, 163, 447-454.	0.7	31
85	UVA-visible photo-excitation of guanine radical cations produces sugar radicals in DNA and model structures. Nucleic Acids Research, 2005, 33, 5553-5564.	6.5	66
86	Sugar Radicals in DNA: Isolation of Neutral Radicals in Gamma-Irradiated DNA by Hole and Electron Scavenging. Radiation Research, 2005, 163, 591-602.	0.7	42
87	Formation of 8-oxo-7,8-dihydroguanine-radicals in Â-irradiated DNA by multiple one-electron oxidations. Nucleic Acids Research, 2004, 32, 6565-6574.	6.5	95
88	Hydrogen Atom Loss in Pyrimidine DNA Bases Induced by Low-Energy Electrons:Â Energetics Predicted by Theory. Journal of Physical Chemistry B, 2004, 108, 19013-19019.	1.2	43
89	The Formation of DNA Sugar Radicals from Photoexcitation of Guanine Cation Radicals. Radiation Research, 2004, 161, 582-590.	0.7	38
90	DFT Investigation of Dehalogenation of Adenineâ”Halouracil Base Pairs upon Low-Energy Electron Attachment. Journal of the American Chemical Society, 2003, 125, 8916-8920.	6.6	82

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91	Density Functional Theory Studies of Electron Interaction with DNA: Can Zero eV Electrons Induce Strand Breaks?. <i>Journal of the American Chemical Society</i> , 2003, 125, 13668-13669.	6.6	179
92	Electron Spin Resonance Study of DNA Irradiated with an Argon-Ion Beam: Evidence for Formation of Sugar Phosphate Backbone Radicals. <i>Radiation Research</i> , 2003, 160, 174-185.	0.7	72
93	Electron and Hole Transfer from DNA Base Radicals to Oxidized Products of Guanine in DNA. <i>Radiation Research</i> , 2003, 159, 411-419.	0.7	28
94	Excess Electron Transfer in DNA: Effect of Base Sequence and Proton Transfer. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2755-2762.	1.2	70
95	Dehalogenation of 5-Halouracils after Low Energy Electron Attachment: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11248-11253.	1.1	108
96	DFT Calculations of the Electron Affinities of Nucleic Acid Bases: Dealing with Negative Electron Affinities. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1596-1603.	1.1	232
97	Proton-Assisted Electron Transfer in Irradiated DNA-Acrylamide Complexes: Modeled by Theory. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1614-1617.	1.2	27
98	Electron Spin Resonance Study of Electron and Hole Transfer in DNA: Effects of Hydration, Aliphatic Amine Cations, and Histone Proteins. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6031-6041.	1.2	36
99	Investigation of Proton Transfer within DNA Base Pair Anion and Cation Radicals by Density Functional Theory (DFT). <i>Journal of Physical Chemistry B</i> , 2001, 105, 10115-10123.	1.2	191
100	Electron Spin Resonance Study of Electron Transfer Rates in DNA: Determination of the Tunneling Constant $I^2$ for Single-Step Excess Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1128-1136.	1.2	112
101	Electron Spin Resonance Study of Electron Transfer in DNA: Inter-Double-Strand Tunneling Processes. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6942-6949.	1.2	60
102	Electron Spin Resonance Study of the Temperature Dependence of Electron Transfer in DNA: Competitive Processes of Tunneling, Protonation at Carbon, and Hopping. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10406-10411.	1.2	69
103	Density Functional Theory Investigation of the Electronic Structure and Spin Density Distribution in Peroxyl Radicals. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1619-1626.	1.1	30
104	Modification of the Reductive Pathway in Gamma-Irradiated DNA by Electron Scavengers: Targeting the Sugar-Phosphate Backbone. <i>Radiation Research</i> , 1998, 149, 422.	0.7	19
105	Competitive Electron Scavenging by Chemically Modified Pyrimidine Bases in Bromine-Doped DNA: Relative Efficiencies and Relevance to Intrastrand Electron Migration Distances. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1460-1467.	1.2	80
106	Application of Isodesmic Reactions to the Calculation of the Enthalpies of H <sub>2</sub> O <sup>•+</sup> and OH <sup>•+</sup> Addition to DNA Bases: Estimated Heats of Formation of DNA Base Radicals and Hydrates. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8935-8941.	1.1	32
107	Interaction of the Chlorine Atom with Water: ESR and ab Initio MO Evidence for Three-Electron ( $\dot{I}f2\dot{I}f^*$ ) Bonding. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2910-2915.	1.1	45
108	Radiation-Induced DNA Damage as a Function of Hydration. II. Base Damage from Electron-Loss Centers. <i>Radiation Research</i> , 1996, 145, 304.	0.7	99

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109	Electron Spin Resonance of DNA Irradiated with a Heavy-Ion Beam ( $^{16}\text{O}^{8+}$ ): Evidence for Damage to the Deoxyribose Phosphate Backbone. <i>Radiation Research</i> , 1996, 146, 361.	0.7	88
110	Yields of $\dot{\text{a}}^{\text{TM}}\text{OH}$ in Gamma-Irradiated DNA as a Function of DNA Hydration: Hole Transfer in Competition with $\dot{\text{a}}^{\text{TM}}\text{OH}$ Formation. <i>Radiation Research</i> , 1996, 145, 673.	0.7	67
111	One-Electron Oxidation and Reduction of Sulfites and Sulfinic Acids in Oxygenated Media: The Formation of Sulfonyl and Sulfuranyl Peroxyl Radicals. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4090-4096.	2.9	13
112	Ab Initio Molecular Orbital Study of the Structures of Purine Hydrates. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4420-4423.	2.9	25
113	Ab Initio Molecular Orbital Calculations of DNA Radical Ions. 5. Scaling of Calculated Electron Affinities and Ionization Potentials to Experimental Values. <i>The Journal of Physical Chemistry</i> , 1995, 99, 1060-1063.	2.9	214
114	Ab Initio Molecular Orbital Calculations of Radicals Formed by H <sub>2</sub> O <sub>2</sub> and H <sub>2</sub> O Addition to the DNA Bases: Electron Affinities and Ionization Potentials. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13033-13037.	2.9	39
115	Structure and Relative Stability of Deoxyribose Radicals in a Model DNA Backbone: Ab Initio Molecular Orbital Calculations. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3867-3874.	2.9	97
116	ESR Detection at 77 K of the Hydroxyl Radical in the Hydration Layer of Gamma-Irradiated DNA. <i>Radiation Research</i> , 1994, 140, 123.	0.7	47
117	Protonation of Nucleobase Anions in Gamma-Irradiated DNA and Model Systems. Which DNA Base Is the Ultimate Sink for the Electron?. <i>Radiation Research</i> , 1994, 138, 9.	0.7	67
118	The Influence of Hydration on the Absolute Yields of Primary Ionic Free Radicals in $\dot{\text{a}}^{\text{TM}}$ -Irradiated DNA at 77 K: I. Total Radical Yields. <i>Radiation Research</i> , 1993, 135, 146.	0.7	61
119	Ab initio molecular orbital calculations on DNA radical ions. 4. Effect of hydration on electron affinities and ionization potentials of base pairs. <i>The Journal of Physical Chemistry</i> , 1993, 97, 13852-13859.	2.9	86
120	The Chemical Consequences of Radiation Damage to DNA. <i>Advances in Radiation Biology</i> , 1993, , 121-180.	0.4	183
121	Ab initio molecular orbital calculations of DNA bases and their radical ions in various protonation states: evidence for proton transfer in GC base pair radical anions. <i>The Journal of Physical Chemistry</i> , 1992, 96, 661-668.	2.9	177
122	Relative abundance and reactivity of primary ion radicals in .gamma.-irradiated DNA at low temperatures. 2. Single- vs double-stranded DNA. <i>The Journal of Physical Chemistry</i> , 1992, 96, 1983-1989.	2.9	103
123	Radiation-Induced DNA Damage as a Function of Hydration: I. Release of Unaltered Bases. <i>Radiation Research</i> , 1992, 129, 333.	0.7	185
124	Ab initio molecular orbital calculations on DNA base pair radical ions: effect of base pairing on proton-transfer energies, electron affinities, and ionization potentials. <i>The Journal of Physical Chemistry</i> , 1992, 96, 9787-9794.	2.9	157
125	Electron spin resonance evidence for intra- and intermolecular .sigma.-.sigma.* bonding in methionine radicals: relative stabilities of sulfur-chlorine, sulfur-bromine, sulfur-nitrogen, and sulfur-sulfur three-electron bonds. <i>The Journal of Physical Chemistry</i> , 1991, 95, 6487-6493.	2.9	44
126	Relative abundances of primary ion radicals in .gamma.-irradiated DNA: cytosine vs. thymine anions and guanine vs. adenine cations. <i>The Journal of Physical Chemistry</i> , 1991, 95, 3409-3415.	2.9	177



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127	Structure and reactivity of peroxy and sulphonyl radicals from measurement of oxygen-17 hyperfine couplings: relationship with taft substituent parameters. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 3279.	1.7	36
128	Esr Investigations of the Reactions of Radiation-Produced Thiyl and DNA Peroxyl Radicals: Formation of Sulfoxyl Radicals. <i>Free Radical Research Communications</i> , 1989, 6, 99-102.	1.8	27
129	An ESR Investigation of the Reactions of Glutathione, Cysteine and Penicillamine Thiyl Radicals: Competitive Formation of RSO $\dot{A}$ , R $\dot{A}$ , RSSR, and RSS $\dot{A}$ . <i>International Journal of Radiation Biology</i> , 1988, 53, 767-786.	1.0	69
130	An electron spin resonance study of lactone radical cations formed in .gamma.-irradiated Freon matrixes. <i>The Journal of Physical Chemistry</i> , 1985, 89, 5251-5255.	2.9	20
131	Electron spin resonance study of radicals produced by one-electron loss from 6-azauracil, 6-azathymine, and 6-azacytosine. Evidence for both .sigma. and .pi. radicals. <i>The Journal of Physical Chemistry</i> , 1982, 86, 1751-1755.	2.9	11
132	ESR study of DNA base cation radicals produced by attack of oxidizing radicals. <i>The Journal of Physical Chemistry</i> , 1981, 85, 1027-1031.	2.9	42
133	Chemical Reactions in Proteins Irradiated at Subfreezing Temperatures. <i>Advances in Chemistry Series</i> , 1979, , 109-140.	0.6	23
134	An electron spin resonance study of .gamma.-irradiated frozen aqueous solutions containing N-acetylamino acids. <i>The Journal of Physical Chemistry</i> , 1979, 83, 2893-2897.	2.9	30
135	Electron spin resonance study of N1-substituted thymine .pi.-cation radicals. <i>The Journal of Physical Chemistry</i> , 1976, 80, 1898-1901.	2.9	30
136	Studies of Excess Electron and Hole Transfer in DNA at Low Temperatures. <i>Topics in Current Chemistry</i> , 0, , 103-128.	4.0	48
137	ESR studies of radiation damage to DNA and related biomolecules. <i>Electron Paramagnetic Resonance</i> , 0, , 243-278.	0.2	20