Marc M Greenberg

List of Publications by Year in Descending Order

216 papers	6,112 citations	46 h-index	64 g-index
227 ext. papers	6,601 ext. citations	9 avg, IF	6.06 L-index

#	Paper	IF	Citations
216	Selective Inhibition of DNA Polymerase by a Covalent Inhibitor. *Journal of the American Chemical Society*, **2021**, 143, 8099-8107	16.4	4
215	Suppression of DNA Polymerase Activity Is Synthetically Lethal in BRCA1-Deficient Cells. *ACS Chemical Biology*, **2021**, 16, 1339-1343	4.9	2
214	Identifying Poly(ADP-ribose)-Binding Proteins with Photoaffinity-Based Proteomics. *Journal of the American Chemical Society*, **2021**, 143, 3037-3042	16.4	15
213	Protein Domain Specific Covalent Inhibition of Human DNA Polymerase *ChemBioChem*, **2021**, 22, 2619-2623	3.2	1
212	Reactivity and DNA Damage by Independently Generated 2SDeoxycytidin-4-yl Radical. *Journal of the American Chemical Society*, **2021**, 143, 14738-14747	16.4	1
211	Sequence context effects of replication of FapydG in three mutational hot spot sequences of the p53 gene in human cells. *DNA Repair*, **2021**, 108, 103213	4.3	1
210	Light-controlled twister ribozyme with single-molecule detection resolves RNA function in time and space. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12080-12086	11.5	8
209	Independent Generation and Time-Resolved Detection of 2SDeoxyguanosin-N2-yl Radicals. *Angewandte Chemie - International Edition*, **2020**, 59, 13406-13413	16.4	1
208	Independent Generation and Time-Resolved Detection of 2?-Deoxyguanosin-N2-yl Radicals. *Angewandte Chemie*, **2020**, 132, 13508-13515	3.6	
207	Independent Generation and Reactivity of 2SDeoxyguanosin-1-yl Radical. *Journal of Organic Chemistry*, **2020**, 85, 8665-8672	4.2	0
206	Synthesis of Oligonucleotides Containing the N -(2-Deoxy-d-erythropentofuranosyl)-2,6-diamino-4-hydroxy-5-formamidopyrimidine (Fapy?dG) Oxidative Damage Product Derived from 2SDeoxyguanosine. *Chemistry - A European Journal*, **2020**, 26, 5441-5448	4.8	2
205	Mutagenic Effects of a 2-Deoxyribonolactone-Thymine Glycol Tandem DNA Lesion in Human Cells. *Biochemistry*, **2020**, 59, 417-424	3.2	1
204	DNA-Protein Cross-Link Formation in Nucleosome Core Particles Treated with Methyl Methanesulfonate. *Chemical Research in Toxicology*, **2019**, 32, 2144-2151	4	6
203	Reactivity of N3-Methyl-2SDeoxyadenosine in Nucleosome Core Particles. *Chemical Research in Toxicology*, **2019**, 32, 2118-2124	4	4
202	A guardian residue hinders insertion of a FapydGTP analog by modulating the open-closed DNA polymerase transition. *Nucleic Acids Research*, **2019**, 47, 3197-3207	20.1	5
201	Positional Dependence of DNA Hole Transfer Efficiency in Nucleosome Core Particles. *Journal of the American Chemical Society*, **2019**, 141, 10154-10158	16.4	6
200	Effect of Histone Lysine Methylation on DNA Lesion Reactivity in Nucleosome Core Particles. *Chemical Research in Toxicology*, **2019**, 32, 910-916	4	7

199	Reactivity of the Major Product of C5SOxidative DNA Damage in Nucleosome Core Particles. *ChemBioChem*, **2019**, 20, 672-676	3.8	0
198	Histone Tail Sequences Balance Their Role in Genetic Regulation and the Need To Protect DNA against Destruction in Nucleosome Core Particles Containing Abasic Sites. *ChemBioChem*, **2019**, 20, 78-82	3.8	5
197	Synthesis of 5-Methylene-2-pyrrolones. *Organic Letters*, **2018**, 20, 4885-4887	6.2	4
196	Enhanced Cleavage at Abasic Sites within Clustered Lesions in Nucleosome Core Particles. *ChemBioChem*, **2018**, 19, 2061-2065	3.8	6
195	Mechanistic Insight through Irreversible Inhibition: DNA Polymerase Uses a Common Active Site for Polymerase and Lyase Activities. *Journal of the American Chemical Society*, **2018**, 140, 9034-9037	16.4	9
194	Traceless Tandem Lesion Formation in DNA from a Nitrogen-Centered Purine Radical. *Journal of the American Chemical Society*, **2018**, 140, 6400-6407	16.4	12
193	Rotational Effects within Nucleosome Core Particles on Abasic Site Reactivity. *Biochemistry*, **2018**, 57, 3945-3952	3.2	13
192	An oxidized abasic lesion inhibits base excision repair leading to DNA strand breaks in a trinucleotide repeat tract. *PLoS ONE*, **2018**, 13, e0192148	3.7	3
191	Histone tails decrease N7-methyl-2Sdeoxyguanosine depurination and yield DNA-protein cross-links in nucleosome core particles and cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E11212-E11220	11.5	26
190	Oxidation of 8-Oxo-7,8-dihydro-2Sdeoxyguanosine Leads to Substantial DNA-Histone Cross-Links within Nucleosome Core Particles. *Chemical Research in Toxicology*, **2018**, 31, 1364-1372	4	14
189	Expanded Substrate Scope of DNA Polymerase and DNA Polymerase Lyase Activity on 5SOverhangs and Clustered Lesions. *Biochemistry*, **2018**, 57, 6119-6127	3.2	2
188	Independent Generation of Reactive Intermediates Leads to an Alternative Mechanism for Strand Damage Induced by Hole Transfer in Poly(dA-T) Sequences. *Journal of the American Chemical Society*, **2018**, 140, 11308-11316	16.4	7
187	Thiol Specific and Tracelessly Removable Bioconjugation via Michael Addition to 5-Methylene Pyrrolones. *Journal of the American Chemical Society*, **2017**, 139, 6146-6151	16.4	50
186	The A-Rule and Deletion Formation During Abasic and Oxidized Abasic Site Bypass by DNA Polymerase *ACS Chemical Biology*, **2017**, 12, 1584-1592	4.9	7
185	Synergistic Effects of an Irreversible DNA Polymerase Inhibitor and DNA Damaging Agents on HeLa Cells. *ACS Chemical Biology*, **2017**, 12, 1576-1583	4.9	9
184	Aminyl Radical Generation via Tandem Norrish Type I Photocleavage, Fragmentation: Independent Generation and Reactivity of the 2SDeoxyadenosin- N6-yl Radical. *Journal of Organic Chemistry*, **2017**, 82, 3571-3580	4.2	19
183	Probing Enhanced Double-Strand Break Formation at Abasic Sites within Clustered Lesions in Nucleosome Core Particles. *Biochemistry*, **2017**, 56, 14-21	3.2	7
182	Identification of proximal sites for unwound DNA substrate in Escherichia coli topoisomerase I with oxidative crosslinking. *FEBS Letters*, **2017**, 591, 28-38	3.8	1

181	Independent Generation and Reactivity of Thymidine Radical Cations. *Journal of Organic Chemistry*, **2017**, 82, 11072-11083	4.2	4
180	5-Formylcytosine Yields DNA-Protein Cross-Links in Nucleosome Core Particles. *Journal of the American Chemical Society*, **2017**, 139, 10617-10620	16.4	75
179	DNA Damage Emanating From a Neutral Purine Radical Reveals the Sequence Dependent Convergence of the Direct and Indirect Effects of Radiolysis. *Journal of the American Chemical Society*, **2017**, 139, 17751-17754	16.4	12
178	Independent Photochemical Generation and Reactivity of Nitrogen-Centered Purine Nucleoside Radicals from Hydrazines. *Organic Letters*, **2017**, 19, 6444-6447	6.2	7
177	In Vitro Bypass of Thymidine Glycol by DNA Polymerase Forms Sequence-Dependent Frameshift Mutations. *Biochemistry*, **2017**, 56, 6726-6733	3.2	5
176	EC-tagging allows cell type-specific RNA analysis. *Nucleic Acids Research*, **2017**, 45, e138	20.1	26
175	Pyrimidine Nucleobase Radical Reactivity in DNA and RNA. *Radiation Physics and Chemistry*, **2016**, 128, 82-91	2.5	5
174	Structural Basis for Excision of 5-Formylcytosine by Thymine DNA Glycosylase. *Biochemistry*, **2016**, 55, 6205-6208	3.2	24
173	Reactivity of Nucleic Acid Radicals. *Advances in Physical Organic Chemistry*, **2016**, 50, 119-202	0.3	18
172	Mechanistic Studies on RNA Strand Scission from a C2SRadical. *Journal of Organic Chemistry*, **2016**, 81, 9199-9205	4.2	4
171	Sequence selective tagging of 8-oxo-7,8-dihydro-2Sdeoxyguanosine (8-oxodGuo) using PNAs. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 4918-4921	2.9	2
170	Double-strand breaks from a radical commonly produced by DNA-damaging agents. *Chemical Research in Toxicology*, **2015**, 28, 810-6	4	6
169	Unlike catalyzing error-free bypass of 8-oxodGuo, DNA polymerase is responsible for a significant part of FapydG-induced G -sT mutations in human cells. *Biochemistry*, **2015**, 54, 1859-62	3.2	19
168	Rapid Histone-Catalyzed DNA Lesion Excision and Accompanying Protein Modification in Nucleosomes and Nucleosome Core Particles. *Journal of the American Chemical Society*, **2015**, 137, 11022-31	16.4	16
167	Correlation of Thermal Stability and Structural Distortion of DNA Interstrand Cross-Links Produced from Oxidized Abasic Sites with Their Selective Formation and Repair. *Biochemistry*, **2015**, 54, 6274-83	3.2	4
166	Probing interactions between lysine residues in histone tails and nucleosomal DNA via product and kinetic analysis. *ACS Chemical Biology*, **2015**, 10, 622-30	4.9	21
165	Light-Triggered RNA Annealing by an RNA Chaperone. *Angewandte Chemie*, **2015**, 127, 7389-7392	3.6	2
164	Light-Triggered RNA Annealing by an RNA Chaperone. *Angewandte Chemie - International Edition*, **2015**, 54, 7281-4	16.4	19

163	Bromopyridone Nucleotide Analogues, Anoxic Selective Radiosensitizing Agents That Are Incorporated in DNA by Polymerases. *Journal of Organic Chemistry*, **2015**, 80, 10675-85	4.2	5
162	Mutagenic Bypass of an Oxidized Abasic Lesion-Induced DNA Interstrand Cross-Link Analogue by Human Translesion Synthesis DNA Polymerases. *Biochemistry*, **2015**, 54, 7409-22	3.2	6
161	Rapid RNA strand scission following C2Shydrogen atom abstraction. *Journal of the American Chemical Society*, **2015**, 137, 596-9	16.4	9
160	Irreversible inhibition of DNA polymerase β by small-molecule mimics of a DNA lesion. *Journal of the American Chemical Society*, **2014**, 136, 3176-83	16.4	17
159	Independent generation and reactivity of uridin-2Syl radical. *Journal of Organic Chemistry*, **2014**, 79, 10303-10	4.2	12
158	5,6-Dihydropyrimidine peroxyl radical reactivity in DNA. *Journal of the American Chemical Society*, **2014**, 136, 3928-36	16.4	26
157	DNA damage by histone radicals in nucleosome core particles. *Journal of the American Chemical Society*, **2014**, 136, 6562-5	16.4	19
156	Synthesis of cross-linked DNA containing oxidized abasic site analogues. *Journal of Organic Chemistry*, **2014**, 79, 5948-57	4.2	14
155	Quantitative detection of 8-Oxo-7,8-dihydro-2Sdeoxyguanosine using chemical tagging and qPCR. *Chemical Research in Toxicology*, **2014**, 27, 1227-35	4	12
154	Looking beneath the surface to determine what makes DNA damage deleterious. *Current Opinion in Chemical Biology*, **2014**, 21, 48-55	9.7	13
153	Abasic and oxidized abasic site reactivity in DNA: enzyme inhibition, cross-linking, and nucleosome catalyzed reactions. *Accounts of Chemical Research*, **2014**, 47, 646-55	24.3	62
152	Reduced repair capacity of a DNA clustered damage site comprised of 8-oxo-7,8-dihydro-2Sdeoxyguanosine and 2-deoxyribonolactone results in an increased mutagenic potential of these lesions. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2014**, 762, 32-9	3.3	20
151	Nucleotide excision repair of chemically stabilized analogues of DNA interstrand cross-links produced from oxidized abasic sites. *Biochemistry*, **2014**, 53, 5958-65	3.2	6
150	Deconvoluting the reactivity of two intermediates formed from modified pyrimidines. *Organic Letters*, **2013**, 15, 3618-21	6.2	19
149	Photochemical control of DNA structure through radical disproportionation. *ChemBioChem*, **2013**, 14, 1590-6	3.8	5
148	DNA double strand cleavage via interstrand hydrogen atom abstraction. *Journal of the American Chemical Society*, **2013**, 135, 16368-71	16.4	19
147	Human DNA polymerase λ but not β can bypass a 2-deoxyribonolactone lesion together with proliferating cell nuclear antigen. *ACS Chemical Biology*, **2013**, 8, 336-44	4.9	6
146	DNA polymerase β inactivation by oxidized abasic sites. *Biochemistry*, **2013**, 52, 975-83	3.2	15

145	Histone modification via rapid cleavage of C4Soxidized abasic sites in nucleosome core particles. *Journal of the American Chemical Society*, **2013**, 135, 5274-7	16.4	37
144	DNA polymerase V kinetics support the instructive nature of an oxidized abasic lesion in Escherichia coli. *Biochemistry*, **2013**, 52, 6301-3	3.2	3
143	Nucleosome core particle-catalyzed strand scission at abasic sites. *Biochemistry*, **2013**, 52, 2157-64	3.2	41
142	Quantification of 8-oxodGuo lesions in double-stranded DNA using a photoelectrochemical DNA sensor. *Analytical Chemistry*, **2012**, 84, 6048-53	7.8	56
141	Direct strand scission in double stranded RNA via a C5-pyrimidine radical. *Journal of the American Chemical Society*, **2012**, 134, 3917-24	16.4	24
140	Photochemical generation and reactivity of the major hydroxyl radical adduct of thymidine. *Organic Letters*, **2012**, 14, 2866-9	6.2	12
139	DNA damage by C1027 involves hydrogen atom abstraction and addition to nucleobases. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 4744-50	3.4	11
138	The formamidopyrimidines: purine lesions formed in competition with 8-oxopurines from oxidative stress. *Accounts of Chemical Research*, **2012**, 45, 588-97	24.3	62
137	Biologically relevant oxidants and terminology, classification and nomenclature of oxidatively generated damage to nucleobases and 2-deoxyribose in nucleic acids. *Free Radical Research*, **2012**, 46, 367-81	4	97
136	Photochemical control of RNA structure by disrupting □stacking. *Journal of the American Chemical Society*, **2012**, 134, 12478-81	16.4	18
135	Mechanistic studies on histone catalyzed cleavage of apyrimidinic/apurinic sites in nucleosome core particles. *Journal of the American Chemical Society*, **2012**, 134, 16734-41	16.4	50
134	Histone-catalyzed cleavage of nucleosomal DNA containing 2-deoxyribonolactone. *Journal of the American Chemical Society*, **2012**, 134, 8090-3	16.4	35
133	Probing DNA interstrand cross-link formation by an oxidized abasic site using nonnative nucleotides. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 5788-93	3.4	16
132	Intracellular detection of cytosine incorporation in genomic DNA by using 5-ethynyl-2Sdeoxycytidine. *ChemBioChem*, **2011**, 12, 2184-90	3.8	39
131	Product and mechanistic analysis of the reactivity of a C6-pyrimidine radical in RNA. *Journal of the American Chemical Society*, **2011**, 133, 5152-9	16.4	31
130	Repair of the major lesion resulting from C5Soxidation of DNA. *Biochemistry*, **2011**, 50, 6273-9	3.2	10
129	Long patch base excision repair compensates for DNA polymerase □inactivation by the C4Soxidized abasic site. *Biochemistry*, **2011**, 50, 136-43	3.2	29
128	An Oxidized Abasic Lesion as an Intramolecular Source of DNA Adducts. *Australian Journal of Chemistry*, **2011**, 64, 438-442	1.2	6

127	Rapid DNA-protein cross-linking and strand scission by an abasic site in a nucleosome core particle. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22475-80	11.5	136
126	Nucleotide excision repair of a DNA interstrand cross-link produces single- and double-strand breaks. *Biochemistry*, **2010**, 49, 11-9	3.2	32
125	DNA damage and interstrand cross-link formation upon irradiation of aryl iodide C-nucleotide analogues. *Journal of Organic Chemistry*, **2010**, 75, 535-44	4.2	11
124	Direct strand scission from a nucleobase radical in RNA. *Journal of the American Chemical Society*, **2010**, 132, 3668-9	16.4	48
123	Excision of a lyase-resistant oxidized abasic lesion from DNA. *Chemical Research in Toxicology*, **2010**, 23, 766-70	4	8
122	Irreversible inhibition of DNA polymerase beta by an oxidized abasic lesion. *Journal of the American Chemical Society*, **2010**, 132, 5004-5	16.4	39
121	Inhibition of short patch and long patch base excision repair by an oxidized abasic site. *Biochemistry* , **2010**, 49, 9904-10	3.2	27
120	Competitive inhibition of uracil DNA glycosylase by a modified nucleotide whose triphosphate is a substrate for DNA polymerase. *Journal of the American Chemical Society*, **2009**, 131, 1344-5	16.4	13
119	Scope and mechanism of interstrand cross-link formation by the C4Soxidized abasic site. *Journal of the American Chemical Society*, **2009**, 131, 11132-9	16.4	55
118	Photochemical generation and reactivity of the 5,6-dihydrouridin-6-yl radical. *Journal of Organic Chemistry*, **2009**, 74, 7007-12	4.2	17
117	Double-strand break formation during nucleotide excision repair of a DNA interstrand cross-link. *Biochemistry*, **2009**, 48, 7565-7	3.2	47
116	The mutagenicity of thymidine glycol in Escherichia coli is increased when it is part of a tandem lesion. *Biochemistry*, **2009**, 48, 7833-41	3.2	15
115	DNA interstrand cross-link formation by the 1,4-dioxobutane abasic lesion. *Journal of the American Chemical Society*, **2009**, 131, 15225-31	16.4	38
114	Synthesis and analysis of oligonucleotides containing abasic site analogues. *Journal of Organic Chemistry*, **2008**, 73, 2695-703	4.2	19
113	Interstrand cross-link formation in duplex and triplex DNA by modified pyrimidines. *Journal of the American Chemical Society*, **2008**, 130, 10299-306	16.4	67
112	Self-promoted DNA interstrand cross-link formation by an abasic site. *Journal of the American Chemical Society*, **2008**, 130, 9646-7	16.4	73
111	DNA tandem lesion repair by strand displacement synthesis and nucleotide excision repair. *Biochemistry*, **2008**, 47, 4306-16	3.2	39
110	Efficient removal of formamidopyrimidines by 8-oxoguanine glycosylases. *Biochemistry*, **2008**, 47, 1043-50	3.2	48

109	Hydrogen bonding contributes to the selectivity of nucleotide incorporation opposite an oxidized abasic lesion. *Journal of the American Chemical Society*, **2008**, 130, 6080-1	16.4	13
108	Protein binding has a large effect on radical mediated DNA damage. *Journal of the American Chemical Society*, **2008**, 130, 12890-1	16.4	20
107	Multinuclear NMR and kinetic analysis of DNA interstrand cross-link formation. *Journal of the American Chemical Society*, **2008**, 130, 17981-7	16.4	32
106	Facile SNP detection using bifunctional, cross-linking oligonucleotide probes. *Nucleic Acids Research* , **2008**, 36, e31	20.1	33
105	DNA polymerase bypass in vitro and in E. coli of a C-nucleotide analogue of Fapy-dG. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 4029-34	3.4	8
104	Studies on the replication of the ring opened formamidopyrimidine, Fapy.dG in Escherichia coli. *Biochemistry*, **2007**, 46, 10202-12	3.2	43
103	Characterization and mechanism of formation of tandem lesions in DNA by a nucleobase peroxyl radical. *Journal of the American Chemical Society*, **2007**, 129, 4089-98	16.4	74
102	Facile quantification of lesions derived from 2Sdeoxyguanosine in DNA. *Journal of the American Chemical Society*, **2007**, 129, 7010-1	16.4	39
101	Selective detection and quantification of oxidized abasic lesions in DNA. *Journal of the American Chemical Society*, **2007**, 129, 8702-3	16.4	26
100	Hole migration is the major pathway involved in alkali-labile lesion formation in DNA by the direct effect of ionizing radiation. *Journal of the American Chemical Society*, **2007**, 129, 772-3	16.4	25
99	DNA strand damage product analysis provides evidence that the tumor cell-specific cytotoxin tirapazamine produces hydroxyl radical and acts as a surrogate for O(2). *Journal of the American Chemical Society*, **2007**, 129, 12870-7	16.4	52
98	Use of fluorescence sensors to determine that 2-deoxyribonolactone is the major alkali-labile deoxyribose lesion produced in oxidatively damaged DNA. *Angewandte Chemie - International Edition*, **2007**, 46, 561-4	16.4	31
97	Elucidating DNA damage and repair processes by independently generating reactive and metastable intermediates. *Organic and Biomolecular Chemistry*, **2007**, 5, 18-30	3.9	69
96	Genetic effects of oxidative DNA damages: comparative mutagenesis of the imidazole ring-opened formamidopyrimidines (Fapy lesions) and 8-oxo-purines in simian kidney cells. *Nucleic Acids Research*, **2006**, 34, 2305-15	20.1	116
95	Oxygen independent DNA interstrand cross-link formation by a nucleotide radical. *Journal of the American Chemical Society*, **2006**, 128, 485-91	16.4	90
94	Synthesis, DNA polymerase incorporation, and enzymatic phosphate hydrolysis of formamidopyrimidine nucleoside triphosphates. *Journal of the American Chemical Society*, **2006**, 128, 14606-11	16.4	19
93	Reactivity of the C2Soxidized abasic lesion and its relevance to interactions with type I base excision repair enzymes. *Chemical Research in Toxicology*, **2006**, 19, 463-8	4	8
92	Radiosensitization by a modified nucleotide that produces DNA interstrand cross-links under hypoxic conditions. *Journal of the American Chemical Society*, **2006**, 128, 2230-1	16.4	31

91	Replication of an oxidized abasic site in Escherichia coli by a dNTP-stabilized misalignment mechanism that reads upstream and downstream nucleotides. *Biochemistry*, **2006**, 45, 5048-56	3.2	18
90	The effect of the 2-amino group of 7,8-dihydro-8-oxo-2Sdeoxyguanosine on translesion synthesis and duplex stability. *Nucleic Acids Research*, **2005**, 33, 1637-43	20.1	13
89	Excision of formamidopyrimidine lesions by endonucleases III and VIII is not a major DNA repair pathway in Escherichia coli. *Nucleic Acids Research*, **2005**, 33, 3331-8	20.1	17
88	Mechanistic studies on DNA damage by minor groove binding copper-phenanthroline conjugates. *Nucleic Acids Research*, **2005**, 33, 5371-9	20.1	124
87	Mutagenic effects of abasic and oxidized abasic lesions in Saccharomyces cerevisiae. *Nucleic Acids Research*, **2005**, 33, 6196-202	20.1	35
86	Efficient DNA interstrand cross-link formation from a nucleotide radical. *Journal of the American Chemical Society*, **2005**, 127, 3692-3	16.4	94
85	Preparation and analysis of oligonucleotides containing lesions resulting from C5Soxidation. *Journal of Organic Chemistry*, **2005**, 70, 9916-24	4.2	36
84	Selective detection of 2-deoxyribonolactone in DNA. *Journal of the American Chemical Society*, **2005**, 127, 2806-7	16.4	39
83	Preparation and analysis of oligonucleotides containing the c4Soxidized abasic site and related mechanistic probes. *Journal of Organic Chemistry*, **2005**, 70, 8122-9	4.2	15
82	DNA interstrand cross-link formation initiated by reaction between singlet oxygen and a modified nucleotide. *Journal of the American Chemical Society*, **2005**, 127, 10510-1	16.4	85
81	Synthesis of oligonucleotides containing Fapy.dG (N(6)-(2-deoxy-alpha,beta-D-erythropentofuranosyl)-2,6-diamino-4-hydroxy-5-formamidopyrimidine) using a 5Sdimethoxytrityl dinucleotide phosphoramidite. *Journal of Organic Chemistry*, **2005**, 70, 141-9	4.2	31
80	DNA interstrand cross-links from modified nucleotides: mechanism and application. *Nucleic Acids Symposium Series*, **2005**, 57-8		3
79	Repair of formamidopyrimidines in DNA involves different glycosylases: role of the OGG1, NTH1, and NEIL1 enzymes. *Journal of Biological Chemistry*, **2005**, 280, 40544-51	5.4	160
78	A comprehensive comparison of DNA replication past 2-deoxyribose and its tetrahydrofuran analog in Escherichia coli. *Nucleic Acids Research*, **2004**, 32, 5480-5	20.1	35
77	Mild generation of 5-(2Sdeoxyuridinyl)methyl radical from a phenyl selenide precursor. *Organic Letters*, **2004**, 6, 5011-3	6.2	31
76	In vitro effects of a C4Soxidized abasic site on DNA polymerases. *Biochemistry*, **2004**, 43, 2656-63	3.2	12
75	Effects of the C4Soxidized abasic site on replication in Escherichia coli. An unusually large deletion is induced by a small lesion. *Biochemistry*, **2004**, 43, 13621-7	3.2	28
74	In vitro replication and repair of DNA containing a C2Soxidized abasic site. *Biochemistry*, **2004**, 43, 15217-22	3.2	21

73	Probing the configurations of formamidopyrimidine lesions Fapy.dA and Fapy.dG in DNA using endonuclease IV. *Biochemistry*, **2004**, 43, 13397-403	3.2	27
72	Independent generation and characterization of a C2Soxidized abasic site in chemically synthesized oligonucleotides. *Journal of Organic Chemistry*, **2004**, 69, 6100-4	4.2	28
71	Evidence for glycosidic bond rotation in a nucleobase peroxyl radical and its effect on tandem lesion formation. *Journal of Organic Chemistry*, **2004**, 69, 6974-8	4.2	28
70	Repair of oxidized abasic sites by exonuclease III, endonuclease IV, and endonuclease III. *Biochemistry*, **2004**, 43, 8178-83	3.2	36
69	Mutagenic effects of 2-deoxyribonolactone in Escherichia coli. An abasic lesion that disobeys the A-rule. *Biochemistry*, **2004**, 43, 6723-33	3.2	51
68	Synthesis and Characterization of Oligonucleotides Containing the C4?-Oxidized Abasic Site Produced by Bleomycin and Other DNA Damaging Agents. *Angewandte Chemie*, **2003**, 115, 6062-6065	3.6	1
67	Synthesis and characterization of oligonucleotides containing the c4Soxidized abasic site produced by bleomycin and other DNA damaging agents. *Angewandte Chemie - International Edition*, **2003**, 42, 5882-5	16.4	37
66	Transcription inhibition using modified pentanucleotides. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 2321-8	3.4	6
65	Tandem lesions are the major products resulting from a pyrimidine nucleobase radical. *Journal of the American Chemical Society*, **2003**, 125, 13376-8	16.4	63
64	Independent generation and study of 5,6-Dihydro-2Sdeoxyuridin-6-yl, a member of the major family of reactive intermediates formed in DNA from the effects of gamma-radiolysis. *Journal of Organic Chemistry*, **2003**, 68, 4275-80	4.2	24
63	Repair of DNA containing Fapy.dG and its beta-C-nucleoside analogue by formamidopyrimidine DNA glycosylase and MutY. *Biochemistry*, **2003**, 42, 9755-60	3.2	51
62	Action of human apurinic endonuclease (Ape1) on C1Soxidized deoxyribose damage in DNA. *DNA Repair*, **2003**, 2, 175-85	4.3	47
61	Cross-linking of 2-deoxyribonolactone and its beta-elimination product by base excision repair enzymes. *Biochemistry*, **2003**, 42, 2449-55	3.2	61
60	Fapy.dA induces nucleotide misincorporation translesionally by a DNA polymerase. *Angewandte Chemie - International Edition*, **2002**, 41, 771-3	16.4	45
59	Covalent trapping of human DNA polymerase beta by the oxidative DNA lesion 2-deoxyribonolactone. *Journal of Biological Chemistry*, **2002**, 277, 7637-40	5.4	96
58	A minor groove binding copper-phenanthroline conjugate produces direct strand breaks via beta-elimination of 2-deoxyribonolactone. *Journal of the American Chemical Society*, **2002**, 124, 9062-3	16.4	81
57	Fapy.dG instructs Klenow exo(-) to misincorporate deoxyadenosine. *Journal of the American Chemical Society*, **2002**, 124, 7278-9	16.4	85
56	Synthesis and characterization of oligodeoxynucleotides containing formamidopyrimidine lesions and nonhydrolyzable analogues. *Journal of the American Chemical Society*, **2002**, 124, 3263-9	16.4	94

55	Interaction of DNA containing Fapy.dA or its C-nucleoside analogues with base excision repair enzymes. Implications for mutagenesis and enzyme inhibition. *Biochemistry*, **2002**, 41, 15838-44	3.2	21
54	Synthesis of oligonucleotides and thermal stability of duplexes containing the beta-C-nucleoside analogue of Fapy*dG. *Chemical Research in Toxicology*, **2002**, 15, 1460-5	4	15
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