

Cynthia J Burrows

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204
papers

10,048
citations

57
h-index

91
g-index

349
ext. papers

11,054
ext. citations

8.7
avg, IF

6.54
L-index

#	Paper	IF	Citations
204	Chemistry of ROS-mediated oxidation to the guanine base in DNA and its biological consequences. <i>International Journal of Radiation Biology</i> , 2021 , 1-9	2.9	3
203	Binding of AP endonuclease-1 to G-quadruplex DNA depends on the N-terminal domain, Mg and ionic strength.. <i>ACS Bio & Med Chem Au</i> , 2021 , 1, 44-56		3
202	Deciphering nucleic acid knots. <i>Nature Chemistry</i> , 2021 , 13, 618-619	17.6	
201	Oxidative stress-mediated epigenetic regulation by G-quadruplexes. <i>NAR Cancer</i> , 2021 , 3, zcab038	5.2	6
200	Hysteresis in poly-2Rdeoxycytidine i-motif folding is impacted by the method of analysis as well as loop and stem lengths. <i>Biopolymers</i> , 2021 , 112, e23389	2.2	2
199	Nanopore Dwell Time Analysis Permits Sequencing and Conformational Assignment of Pseudouridine in SARS-CoV-2. <i>ACS Central Science</i> , 2021 , 7, 1707-1717	16.8	6
198	Collateral Damage Occurs When Using Photosensitizer Probes to Detect or Modulate Nucleic Acid Modifications.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202110649	16.4	1
197	Potential G-Quadruplex Forming Sequences and -Methyladenosine Colocalize at Human Pre-mRNA Intron Splice Sites. <i>ACS Chemical Biology</i> , 2020 , 15, 1292-1300	4.9	7
196	Cruciform DNA Sequences in Gene Promoters Can Impact Transcription upon Oxidative Modification of 2RDeoxyguanosine. <i>Biochemistry</i> , 2020 , 59, 2616-2626	3.2	5
195	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6131-6133	5.6	
194	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2496-2498	4.3	
193	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , 2020 , 39, 2331-2333	3.8	
192	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Energy & Fuels</i> , 2020 , 34, 5107-5108	4.1	
191	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Organometallics</i> , 2020 , 39, 1665-1666	4.6	
190	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , 2020 , 27, 198-200	1.7	
189	Interplay of Guanine Oxidation and G-Quadruplex Folding in Gene Promoters. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1115-1136	16.4	46
188	On the irrelevancy of hydroxyl radical to DNA damage from oxidative stress and implications for epigenetics. <i>Chemical Society Reviews</i> , 2020 , 49, 6524-6528	58.5	28

187	Iron Fenton oxidation of 2Rdeoxyguanosine in physiological bicarbonate buffer yields products consistent with the reactive oxygen species carbonate radical anion not the hydroxyl radical. <i>Chemical Communications</i> , 2020 , 56, 9779-9782	5.8	13
186	RNA polymerase II stalls on oxidative DNA damage via a torsion-latch mechanism involving lone pair-π and CH-π interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9338-9348	11.5	13
185	Structural Elucidation of Bisulfite Adducts to Pseudouridine That Result in Deletion Signatures during Reverse Transcription of RNA. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16450-16460	16.4	6
184	Human Gene Expression Regulated by Epigenetic-Like Oxidative DNA Modification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11036-11049	16.4	26
183	Computational Study of the Formation of C8, C5, and C4 Guanine:Lysine Adducts via Oxidation of Guanine by Sulfate Radical Anion. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5150-5163	2.8	4
182	Synthesis of Site-Specific Crown Ether Adducts to DNA Abasic Sites: 8-Oxo-7,8-Dihydro-2Rdeoxyguanosine and 2Rdeoxycytidine. <i>Methods in Molecular Biology</i> , 2019 , 1973, 15-25	1.4	1
181	Location dependence of the transcriptional response of a potential G-quadruplex in gene promoters under oxidative stress. <i>Nucleic Acids Research</i> , 2019 , 47, 5049-5060	20.1	29
180	Transcriptome-wide profiling of multiple RNA modifications simultaneously at single-base resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6784-6789	11.5	79
179	Colocalization of mA and G-Quadruplex-Forming Sequences in Viral RNA (HIV, Zika, Hepatitis B, and SV40) Suggests Topological Control of Adenosine -Methylation. <i>ACS Central Science</i> , 2019 , 5, 218-228	16.8	26
178	Oxidative Modification of Guanine in a Potential Z-DNA-Forming Sequence of a Gene Promoter Impacts Gene Expression. <i>Chemical Research in Toxicology</i> , 2019 , 32, 899-909	4	9
177	Impact of DNA Oxidation on Toxicology: From Quantification to Genomics. <i>Chemical Research in Toxicology</i> , 2019 , 32, 345-347	4	5
176	Oxidative Modification of the Potential G-Quadruplex Sequence in the PCNA Gene Promoter Can Turn on Transcription. <i>Chemical Research in Toxicology</i> , 2019 , 32, 437-446	4	33
175	Effect of Oxidative Damage on Charge and Spin Transport in DNA. <i>Journal of the American Chemical Society</i> , 2019 , 141, 123-126	16.4	20
174	Nanopore Analysis of the 5-Guanidinohydantoin to Iminoallantoin Isomerization in Duplex DNA. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3973-3978	4.2	4
173	Accounts: 50 Years of a Great Idea. <i>Accounts of Chemical Research</i> , 2018 , 51, 1-2	24.3	1
172	Human DNA Repair Genes Possess Potential G-Quadruplex Sequences in Their Promoters and 5RUntranslated Regions. <i>Biochemistry</i> , 2018 , 57, 991-1002	3.2	36
171	The Fifth Domain in the G-Quadruplex-Forming Sequence of the Human NEIL3 Promoter Locks DNA Folding in Response to Oxidative Damage. <i>Biochemistry</i> , 2018 , 57, 2958-2970	3.2	11
170	Unusual Isothermal Hysteresis in DNA i-Motif pH-Transitions: A Study of the RAD17 Promoter Sequence. <i>Biophysical Journal</i> , 2018 , 114, 1804-1815	2.9	16

169	Single-Molecule Titration in a Protein Nanoreactor Reveals the Protonation/Deprotonation Mechanism of a C:C Mismatch in DNA. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5153-5160	16.4	22
168	The RAD17 Promoter Sequence Contains a Potential Tail-Dependent G-Quadruplex That Downregulates Gene Expression upon Oxidative Modification. <i>ACS Chemical Biology</i> , 2018 , 13, 2577-2584	4.9	18
167	Unraveling the 4n - 1 rule for DNA i-motif stability: base pairs vs. loop lengths. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 4537-4546	3.9	18
166	Characterization of G-Quadruplexes in <i>Chlamydomonas reinhardtii</i> and the Effects of Polyamine and Magnesium Cations on Structure and Stability. <i>Biochemistry</i> , 2018 , 57, 6551-6561	3.2	4
165	ΦHemolysin Nanopore Is Sensitive to Guanine-to-Inosine Substitutions in Double-Stranded DNA at the Single-Molecule Level. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14224-14234	16.4	16
164	Case studies on potential G-quadruplex-forming sequences from the bacterial orders Deinococcales and Thermales derived from a survey of published genomes. <i>Scientific Reports</i> , 2018 , 8, 15679	4.9	25
163	Rapid Screen of Potential i-Motif Forming Sequences in DNA Repair Gene Promoters. <i>ACS Omega</i> , 2018 , 3, 9630-9635	3.9	10
162	Oxidative DNA damage is epigenetic by regulating gene transcription via base excision repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2604-2609	11.5	190
161	Sequencing the Mouse Genome for the Oxidatively Modified Base 8-Oxo-7,8-dihydroguanine by OG-Seq. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2569-2572	16.4	78
160	Dynamics of a DNA Mismatch Site Held in Confinement Discriminate Epigenetic Modifications of Cytosine. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2750-2756	16.4	29
159	Interrogation of Base Pairing of the Spiroiminodihydantoin Diastereomers Using the ΦHemolysin Latch. <i>Biochemistry</i> , 2017 , 56, 1596-1603	3.2	6
158	Computational Study of Oxidation of Guanine by Singlet Oxygen (1O_2) and Formation of Guanine:Lysine Cross-Links. <i>Chemistry - A European Journal</i> , 2017 , 23, 5804-5813	4.8	21
157	8-Oxo-7,8-dihydroguanine, friend and foe: Epigenetic-like regulator versus initiator of mutagenesis. <i>DNA Repair</i> , 2017 , 56, 75-83	4.3	77
156	4n-1 Is a "Sweet Spot" in DNA i-Motif Folding of 2RDeoxycytidine Homopolymers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4682-4689	16.4	68
155	Holy Grails in Chemistry, Part II. <i>Accounts of Chemical Research</i> , 2017 , 50, 445	24.3	7
154	Formation and processing of DNA damage substrates for the hNEIL enzymes. <i>Free Radical Biology and Medicine</i> , 2017 , 107, 35-52	7.8	72
153	8-Oxo-7,8-dihydroguanine in the Context of a Gene Promoter G-Quadruplex Is an On-Off Switch for Transcription. <i>ACS Chemical Biology</i> , 2017 , 12, 2417-2426	4.9	59
152	Reverse Transcription Past Products of Guanine Oxidation in RNA Leads to Insertion of A and C opposite 8-Oxo-7,8-dihydroguanine and A and G opposite 5-Guanidinohydantoin and Spiroiminodihydantoin Diastereomers. <i>Biochemistry</i> , 2017 , 56, 5053-5064	3.2	18

151	8-Oxo-7,8-dihydro-2-deoxyguanosine and abasic site tandem lesions are oxidation prone yielding hydantoin products that strongly destabilize duplex DNA. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 8341-8353	3.9	13
150	Sequencing DNA for the Oxidatively Modified Base 8-Oxo-7,8-Dihydroguanine. <i>Methods in Enzymology</i> , 2017 , 591, 187-210	1.7	3
149	Electrolysis nanopore studies reveal strong interactions between biogenic polyamines and DNA hairpins. <i>Mikrochimica Acta</i> , 2016 , 183, 973-979	5.8	4
148	UV-Induced Proton-Coupled Electron Transfer in Cyclic DNA Miniduplexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7395-401	16.4	24
147	Unzipping of A-Form DNA-RNA, A-Form DNA-PNA, and B-Form DNA-DNA in the Electrosensitized Nanopore. <i>Biophysical Journal</i> , 2016 , 110, 306-314	2.9	23
146	pH-Dependent Equilibrium between 5-Guanidinohydantoin and Iminoallantoin Affects Nucleotide Insertion Opposite the DNA Lesion. <i>Journal of Organic Chemistry</i> , 2016 , 81, 351-9	4.2	23
145	Sequencing of DNA Lesions Facilitated by Site-Specific Excision via Base Excision Repair DNA Glycosylases Yielding Ligatable Gaps. <i>Journal of the American Chemical Society</i> , 2016 , 138, 491-4	16.4	24
144	Human Telomere G-Quadruplexes with Five Repeats Accommodate 8-Oxo-7,8-dihydroguanine by Looping out the DNA Damage. <i>ACS Chemical Biology</i> , 2016 , 11, 500-7	4.9	28
143	Base Flipping within the Electrosensitized Latch Allows Single-Molecule Identification of Mismatches in DNA. <i>Journal of the American Chemical Society</i> , 2016 , 138, 594-603	16.4	36
142	Energetics of base flipping at a DNA mismatch site confined at the latch constriction of Electrosensitized. <i>Faraday Discussions</i> , 2016 , 193, 471-485	3.6	6
141	Kinetics of T3-DNA Ligase-Catalyzed Phosphodiester Bond Formation Measured Using the Electrosensitized Nanopore. <i>ACS Nano</i> , 2016 , 10, 11127-11135	16.7	16
140	Computational Study of the Radical Mediated Mechanism of the Formation of C8, C5, and C4 Guanine:Lysine Adducts in the Presence of the Benzophenone Photosensitizer. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1396-409	4	14
139	Zika Virus Genomic RNA Possesses Conserved G-Quadruplexes Characteristic of the Flaviviridae Family. <i>ACS Infectious Diseases</i> , 2016 , 2, 674-681	5.5	87
138	Detection of benzo[a]pyrene-guanine adducts in single-stranded DNA using the Electrosensitized nanopore. <i>Nanotechnology</i> , 2015 , 26, 074002	3.4	15
137	A Role for the Fifth G-Track in G-Quadruplex Forming Oncogene Promoter Sequences during Oxidative Stress: Do These "Spare Tires" Have an Evolved Function?. <i>ACS Central Science</i> , 2015 , 1, 226-233	16.8	87
136	Unfolding Kinetics of the Human Telomere i-Motif Under a 10 pN Force Imposed by the Electrosensitized Nanopore Identify Transient Folded-State Lifetimes at Physiological pH. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9053-60	16.4	27
135	5-Carboxamido-5-formamido-2-iminohydantoin, in Addition to 8-oxo-7,8-Dihydroguanine, Is the Major Product of the Iron-Fenton or X-ray Radiation-Induced Oxidation of Guanine under Aerobic Reducing Conditions in Nucleoside and DNA Contexts. <i>Journal of Organic Chemistry</i> , 2015 , 80, 6996-7007	4.2	42
134	Rates of chemical cleavage of DNA and RNA oligomers containing guanine oxidation products. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1292-300	4	27

133	Nanopore detection of 8-oxoguanine in the human telomere repeat sequence. <i>ACS Nano</i> , 2015 , 9, 4296-3077	58
132	Guanine oxidation product 5-carboxamido-5-formamido-2-iminohydantoin induces mutations when bypassed by DNA polymerases and is a substrate for base excision repair. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1861-71	4 12
131	Differentiation of G:C vs A:T and G:C vs G:mC Base Pairs in the Latch Zone of Φ Hemolysin. <i>ACS Nano</i> , 2015 , 9, 11325-32	16.7 11
130	Computational studies of electronic circular dichroism spectra predict absolute configuration assignments for the guanine oxidation product 5-carboxamido-5-formamido-2-iminohydantoin. <i>Tetrahedron Letters</i> , 2015 , 56, 3191-3196	2 7
129	The NEIL glycosylases remove oxidized guanine lesions from telomeric and promoter quadruplex DNA structures. <i>Nucleic Acids Research</i> , 2015 , 43, 4039-54	20.1 88
128	Identification of DNA lesions using a third base pair for amplification and nanopore sequencing. <i>Nature Communications</i> , 2015 , 6, 8807	17.4 45
127	Photoinduced Electron Transfer in DNA: Charge Shift Dynamics Between 8-Oxo-Guanine Anion and Adenine. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7491-502	3.4 25
126	Spirodi(iminohydantoin) products from oxidation of 2Rdeoxyguanosine in the presence of NH ₄ Cl in nucleoside and oligodeoxynucleotide contexts. <i>Journal of Organic Chemistry</i> , 2015 , 80, 711-21	4.2 14
125	Effect of an Electrolyte Cation on Detecting DNA Damage with the Latch Constriction of Φ Hemolysin. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3781-3786	6.4 17
124	Internal vs fishhook hairpin DNA: unzipping locations and mechanisms in the Φ Hemolysin nanopore. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12873-82	3.4 28
123	Temperature and electrolyte optimization of the Φ Hemolysin latch sensing zone for detection of base modification in double-stranded DNA. <i>Biophysical Journal</i> , 2014 , 107, 924-31	2.9 19
122	Single-molecule investigation of G-quadruplex folds of the human telomere sequence in a protein nanocavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14325-31	11.5 50
121	Crystal structure of DNA polymerase β with DNA containing the base lesion spiroiminodihydantoin in a templating position. <i>Biochemistry</i> , 2014 , 53, 2075-7	3.2 18
120	Efficient UV-induced charge separation and recombination in an 8-oxoguanine-containing dinucleotide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11612-7	11.5 57
119	Single-molecule detection of a guanine(C8) - thymine(N3) cross-link using ion channel recording. <i>Journal of Physical Organic Chemistry</i> , 2014 , 27, 247-251	2.1 5
118	Single-molecule analysis of thymine dimer-containing G-quadruplexes formed from the human telomere sequence. <i>Biochemistry</i> , 2014 , 53, 7484-93	3.2 15
117	G-quadruplex folds of the human telomere sequence alter the site reactivity and reaction pathway of guanine oxidation compared to duplex DNA. <i>Chemical Research in Toxicology</i> , 2013 , 26, 593-607	4 103
116	Repair of hydantoin lesions and their amine adducts in DNA by base and nucleotide excision repair. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13851-61	16.4 46

115	Endonuclease and Exonuclease Activities on Oligodeoxynucleotides Containing Spiroiminodihydantoin Depend on the Sequence Context and the Lesion Stereochemistry. <i>New Journal of Chemistry</i> , 2013 , 37, 3440-3449	3.6	11
114	Structural destabilization of DNA duplexes containing single-base lesions investigated by nanopore measurements. <i>Biochemistry</i> , 2013 , 52, 7870-7	3.2	26
113	Base-excision repair activity of uracil-DNA glycosylase monitored using the latch zone of HemoI. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19347-53	16.4	47
112	Reconciliation of chemical, enzymatic, spectroscopic and computational data to assign the absolute configuration of the DNA base lesion spiroiminodihydantoin. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18191-204	16.4	54
111	Ultrafast excited-state dynamics and vibrational cooling of 8-oxo-7,8-dihydro-2Rdeoxyguanosine in D ₂ O. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12851-7	2.8	17
110	Human NEIL3 is mainly a monofunctional DNA glycosylase removing spiroiminodihydantoin and guanidinohydantoin. <i>DNA Repair</i> , 2013 , 12, 1159-64	4.3	67
109	Interactions of the human telomere sequence with the nanocavity of the HemoI ion channel reveal structure-dependent electrical signatures for hybrid folds. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8562-70	16.4	43
108	Electrical Current Signatures of DNA Base Modifications in Single Molecules Immobilized in the HemoI Ion Channel. <i>Israel Journal of Chemistry</i> , 2013 , 53, 417-430	3.4	10
107	Neil3 and NEIL1 DNA glycosylases remove oxidative damages from quadruplex DNA and exhibit preferences for lesions in the telomeric sequence context. <i>Journal of Biological Chemistry</i> , 2013 , 288, 27263-27272	5.4	79
106	Whence flavins? Redox-active ribonucleotides link metabolism and genome repair to the RNA world. <i>Accounts of Chemical Research</i> , 2012 , 45, 2151-9	24.3	22
105	Modulation of the current signatures of DNA abasic site adducts in the HemoI ion channel. <i>Chemical Communications</i> , 2012 , 48, 11410-2	5.8	9
104	Unzipping kinetics of duplex DNA containing oxidized lesions in an HemoI nanopore. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11006-11	16.4	70
103	Structural context effects in the oxidation of 8-oxo-7,8-dihydro-2Rdeoxyguanosine to hydantoin products: electrostatics, base stacking, and base pairing. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15091-102	16.4	62
102	Promiscuous 8-alkoxyadenosines in the guide strand of an siRNA: modulation of silencing efficacy and off-pathway protein binding. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17643-52	16.4	11
101	Photorepair of cyclobutane pyrimidine dimers by 8-oxopurine nucleosides. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 574-577	2.1	14
100	Crown ether-electrolyte interactions permit nanopore detection of individual DNA abasic sites in single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11504-9	11.5	89
99	Synthesis of N ² -alkyl-8-oxo-7,8-dihydro-2Rdeoxyguanosine derivatives and effects of these modifications on RNA duplex stability. <i>Journal of Organic Chemistry</i> , 2011 , 76, 720-3	4.2	9
98	Sequence-specific single-molecule analysis of 8-oxo-7,8-dihydroguanine lesions in DNA based on unzipping kinetics of complementary probes in ion channel recordings. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14778-84	16.4	35

97	A prebiotic role for 8-oxoguanosine as a flavin mimic in pyrimidine dimer photorepair. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14586-9	16.4	54
96	Copper/H ₂ O ₂ -mediated oxidation of 2Rdeoxyguanosine in the presence of 2-naphthol leads to the formation of two distinct isomeric adducts. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7953-63	4.2	7
95	Characterization of 2Rdeoxyguanosine oxidation products observed in the Fenton-like system Cu(II)/H ₂ O ₂ /reductant in nucleoside and oligodeoxynucleotide contexts. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 3338-48	3.9	60
94	Chemical modification of siRNA bases to probe and enhance RNA interference. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7295-300	4.2	75
93	Endonuclease VIII-like 3 (Neil3) DNA glycosylase promotes neurogenesis induced by hypoxia-ischemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18802-7	11.5	72
92	Choreographing DNA 2011 , 165-176		
91	8-Oxoguanosine switches modulate the activity of alkylated siRNAs by controlling steric effects in the major versus minor grooves. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6343-51	16.4	11
90	Comparison of Transition Metal-Mediated Oxidation Reactions of Guanine in Nucleoside and Single-Stranded Oligodeoxynucleotide Contexts. <i>Inorganica Chimica Acta</i> , 2011 , 369, 240-246	2.7	20
89	Oxidation of 9- β -ribofuranosyl uric acid by one-electron oxidants versus singlet oxygen and its implications for the oxidation of 8-oxo-7,8-dihydroguanosine. <i>Tetrahedron Letters</i> , 2011 , 52, 2176-2180	2	5
88	The mouse ortholog of NEIL3 is a functional DNA glycosylase in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4925-30	11.5	144
87	Nanopore detection of 8-oxo-7,8-dihydro-2Rdeoxyguanosine in immobilized single-stranded DNA via adduct formation to the DNA damage site. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17992-5	16.4	77
86	Mutation versus repair: NEIL1 removal of hydantoin lesions in single-stranded, bulge, bubble, and duplex DNA contexts. <i>Biochemistry</i> , 2010 , 49, 1658-66	3.2	72
85	Crystal structure of a replicative DNA polymerase bound to the oxidized guanine lesion guanidinohydantoin. <i>Biochemistry</i> , 2010 , 49, 2502-9	3.2	35
84	The oxidative DNA glycosylases of Mycobacterium tuberculosis exhibit different substrate preferences from their Escherichia coli counterparts. <i>DNA Repair</i> , 2010 , 9, 177-90	4.3	35
83	Surviving an Oxygen Atmosphere: DNA Damage and Repair. <i>ACS Symposium Series</i> , 2009 , 2009, 147-156	0.4	7
82	Finding needles in DNA stacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16010-1	11.5	
81	Plant and fungal Fpg homologs are formamidopyrimidine DNA glycosylases but not 8-oxoguanine DNA glycosylases. <i>DNA Repair</i> , 2009 , 8, 643-53	4.3	28
80	Mechanistic aspects of the formation of guanidinohydantoin from spiroiminodihydantoin under acidic conditions. <i>Chemical Research in Toxicology</i> , 2009 , 22, 526-35	4	25

79	Electronic structure of DNA--unique properties of 8-oxoguanosine. <i>Journal of the American Chemical Society</i> , 2009 , 131, 89-95	16.4	23
78	DNA-protein cross-links between guanine and lysine depend on the mechanism of oxidation for formation of C5 vs C8 guanosine adducts. <i>Journal of the American Chemical Society</i> , 2008 , 130, 703-9	16.4	116
77	Formation of tricyclic [4.3.3.0] adducts between 8-oxoguanosine and tyrosine under conditions of oxidative DNA-protein cross-linking. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10080-1	16.4	13
76	Superior removal of hydantoin lesions relative to other oxidized bases by the human DNA glycosylase hNEIL1. <i>Biochemistry</i> , 2008 , 47, 7137-46	3.2	110
75	An exploration of mechanisms for the transformation of 8-oxoguanine to guanidinohydantoin and spiroiminodihydantoin by density functional theory. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5245-56	16.4	78
74	In vitro ligation of oligodeoxynucleotides containing C8-oxidized purine lesions using bacteriophage T4 DNA ligase. <i>Biochemistry</i> , 2007 , 46, 3734-44	3.2	17
73	Unusual structural features of hydantoin lesions translate into efficient recognition by Escherichia coli Fpg. <i>Biochemistry</i> , 2007 , 46, 9355-65	3.2	27
72	Exploration of mechanisms for the transformation of 8-hydroxy guanine radical to FAPyG by density functional theory. <i>Chemical Research in Toxicology</i> , 2007 , 20, 432-44	4	41
71	Human endonuclease VIII-like (NEIL) proteins in the giant DNA Mimivirus. <i>DNA Repair</i> , 2007 , 6, 1629-41	4.3	32
70	Synthesis and characterization of the oxidized dGTP lesions spiroiminodihydantoin-2Rdeoxynucleoside-5R triphosphate and guanidinohydantoin-2Rdeoxynucleoside-5R triphosphate. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2181-4	4.2	15
69	Oxidatively induced DNA-protein cross-linking between single-stranded binding protein and oligodeoxynucleotides containing 8-oxo-7,8-dihydro-2Rdeoxyguanosine. <i>Biochemistry</i> , 2005 , 44, 5660-71 ³⁻²	3.2	57
68	Synthesis of a metallopeptide-PNA conjugate and its oxidative cross-linking to a DNA target. <i>Bioconjugate Chemistry</i> , 2005 , 16, 178-83	6.3	18
67	Spermine participates in oxidative damage of guanosine and 8-oxoguanosine leading to deoxyribosylurea formation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9540-1	16.4	60
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