Cynthia J Burrows

List of Publications by Year
in descending order

342 papers	12,076 citations	19657 61 h-index	33894 99 g-index
349 all docs	349 docs citations	349 times ranked	7526 citing authors

#	Article	IF	Citations
1	Oxidative Nucleobase Modifications Leading to Strand Scission. Chemical Reviews, 1998, 98, 1109-1152.	47.7	1,634
2	Oxidative DNA damage is epigenetic by regulating gene transcription via base excision repair. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2604-2609.	7.1	269
3	Characterization of Spiroiminodihydantoin as a Product of One-Electron Oxidation of 8-Oxo-7,8-dihydroguanosine. Organic Letters, 2000, 2, 613-616.	4.6	268
4	The Hydantoin Lesions Formed from Oxidation of 7,8-Dihydro-8-oxoguanine Are Potent Sources of Replication Errors in Vivo. Biochemistry, 2003, 42, 9257-9262.	2.5	207
5	Characterization of Hydantoin Products from One-Electron Oxidation of 8-Oxo-7,8-dihydroguanosine in a Nucleoside Model. Chemical Research in Toxicology, 2001, 14, 927-938.	3.3	205
6	Recognition of Guanine Structure in Nucleic Acids by Nickel Complexes. Accounts of Chemical Research, 1994, 27, 295-301.	15.6	193
7	The mouse ortholog of NEIL3 is a functional DNA glycosylase in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4925-4930.	7.1	169
8	Formation of13C-,15N-, and18O-Labeled Guanidinohydantoin from Guanosine Oxidation with Singlet Oxygen. Implications for Structure and Mechanism. Journal of the American Chemical Society, 2003, 125, 13926-13927.	13.7	163
9	Transcriptome-wide profiling of multiple RNA modifications simultaneously at single-base resolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6784-6789.	7.1	162
10	Catalysis of alkene oxidation by nickel salen complexes using sodium hypochlorite under phase-transfer conditions. Journal of the American Chemical Society, 1988, 110, 4087-4089.	13.7	146
11	In Vitro Nucleotide Misinsertion Opposite the Oxidized Guanosine Lesions Spiroiminodihydantoin and Guanidinohydantoin and DNA Synthesis Past the Lesions UsingEscherichia coliDNA Polymerase I (Klenow Fragment)â€. Biochemistry, 2002, 41, 15304-15314.	2.5	146
12	Sequence and Stacking Dependence of 8-Oxoguanine Oxidation:Â Comparison of One-Electron vs Singlet Oxygen Mechanisms. Journal of the American Chemical Society, 1999, 121, 9423-9428.	13.7	145
13	The pH-Dependent Role of Superoxide in Riboflavin-Catalyzed Photooxidation of 8-Oxo-7,8-dihydroguanosine. Organic Letters, 2001, 3, 2801-2804.	4.6	144
14	Alkene aziridination and epoxidation catalyzed by chiral metal salen complexes. Tetrahedron Letters, 1992, 33, 1001-1004.	1.4	143
15	DNA Damage from Sulfite Autoxidation Catalyzed by a Nickel(II) Peptide. Journal of the American Chemical Society, 1997, 119, 1501-1506.	13.7	141
16	G-Quadruplex Folds of the Human Telomere Sequence Alter the Site Reactivity and Reaction Pathway of Guanine Oxidation Compared to Duplex DNA. Chemical Research in Toxicology, 2013, 26, 593-607.	3.3	133
17	DNAâ^'Protein Cross-links between Guanine and Lysine Depend on the Mechanism of Oxidation for Formation of C5 Vs C8 Guanosine Adducts. Journal of the American Chemical Society, 2008, 130, 703-709.	13.7	129
18	The NEIL glycosylases remove oxidized guanine lesions from telomeric and promoter quadruplex DNA structures. Nucleic Acids Research, 2015, 43, 4039-4054.	14.5	129

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19	Removal of Hydantoin Products of 8-Oxoguanine Oxidation by the Escherichia coli DNA Repair Enzyme, FPG. Biochemistry, 2000, 39, 14984-14992.	2.5	128
20	Superior Removal of Hydantoin Lesions Relative to Other Oxidized Bases by the Human DNA Glycosylase hNEIL1. Biochemistry, 2008, 47, 7137-7146.	2.5	127
21	A Role for the Fifth G-Track in G-Quadruplex Forming Oncogene Promoter Sequences during Oxidative Stress: Do These â€œSpare Tiresâ€•Have an Evolved Function?. ACS Central Science, 2015, 1, 226-233.	11.3	125
22	Sequencing the Mouse Genome for the Oxidatively Modified Base 8-Oxo-7,8-dihydroguanine by OG-Seq. Journal of the American Chemical Society, 2017, 139, 2569-2572.	13.7	120
23	High turnover rates in pH-dependent alkene epoxidation using NaOCl and square-planar nickel(II) catalysts. Journal of the American Chemical Society, 1990, 112, 4568-4570.	13.7	118
24	Zika Virus Genomic RNA Possesses Conserved G-Quadruplexes Characteristic of the Flaviviridae Family. ACS Infectious Diseases, 2016, 2, 674-681.	3.8	117
25	Mechanistic studies of alkene epoxidation catalyzed by nickel(II) cyclam complexes. Oxygen-18 labeling and substituent effects. Journal of the American Chemical Society, 1988, 110, 6124-6129.	13.7	115
26	DNA and RNA Modification Promoted by [Co(H2O)6]Cl2 and KHSO5:â€‰ Guanine Selectivity, Temperature Dependence, and Mechanism. Journal of the American Chemical Society, 1996, 118, 2320-2325.	13.7	115
27	8-Oxo-7,8-dihydroguanine, friend and foe: Epigenetic-like regulator versus initiator of mutagenesis. DNA Repair, 2017, 56, 75-83.	2.8	110
28	Substituent effects on the aliphatic Claisen rearrangement. 1. Synthesis and rearrangement of cyano-substituted allyl vinyl ethers. Journal of the American Chemical Society, 1981, 103, 6983-6984.	13.7	107
29	Neil3 and NEIL1 DNA Glycosylases Remove Oxidative Damages from Quadruplex DNA and Exhibit Preferences for Lesions in the Telomeric Sequence Context. Journal of Biological Chemistry, 2013, 288, 27263-27272.	3.4	103
30	4<i>n</i>â€“1 Is a â€œSweet Spotâ€•in DNA i-Motif Folding of 2â€²-Deoxycytidine Homopolymers. Journal of the American Chemical Society, 2017, 139, 4682-4689.	13.7	100
31	Interplay of Guanine Oxidation and G-Quadruplex Folding in Gene Promoters. Journal of the American Chemical Society, 2020, 142, 1115-1136.	13.7	99
32	Formation and processing of DNA damage substrates for the hNEIL enzymes. Free Radical Biology and Medicine, 2017, 107, 35-52.	2.9	97
33	Ligand effects associated with the intrinsic selectivity of DNA oxidation promoted by nickel(II) macrocyclic complexes. Journal of the American Chemical Society, 1992, 114, 6407-6411.	13.7	95
34	Optically active difunctionalized dioxocyclam macrocycles: ligands for nickel-catalyzed oxidation of alkenes. Journal of Organic Chemistry, 1989, 54, 1584-1589.	3.2	93
35	Crown etherâ€“electrolyte interactions permit nanopore detection of individual DNA abasic sites in single molecules. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11504-11509.	7.1	93
36	Nanopore Detection of 8-Oxo-7,8-dihydro-2â€²-deoxyguanosine in Immobilized Single-Stranded DNA via Adduct Formation to the DNA Damage Site. Journal of the American Chemical Society, 2010, 132, 17992-17995.	13.7	91

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37	Nickel(III)-Promoted DNA Cleavage with Ambient Dioxygen. Angewandte Chemie International Edition in English, 1993, 32, 277-278.	4.4	88
38	Chemical Modification of siRNA Bases To Probe and Enhance RNA Interference. Journal of Organic Chemistry, 2011, 76, 7295-7300.	3.2	87
39	Repair of hydantoins, one electron oxidation product of 8-oxoguanine, by DNA glycosylases of Escherichia coli. Nucleic Acids Research, 2001, 29, 1967-1974.	14.5	85
40	An Exploration of Mechanisms for the Transformation of 8-Oxoguanine to Guanidinohydantoin and Spiroiminodihydantoin by Density Functional Theory. Journal of the American Chemical Society, 2008, 130, 5245-5256.	13.7	85
41	Mutation versus Repair: NEIL1 Removal of Hydantoin Lesions in Single-Stranded, Bulge, Bubble, and Duplex DNA Contexts. Biochemistry, 2010, 49, 1658-1666.	2.5	85
42	DNA modification: intrinsic selectivity of nickel(II) complexes. Journal of the American Chemical Society, 1991, 113, 5884-5886.	13.7	83
43	Endonuclease VIII-like 3 (Neil3) DNA glycosylase promotes neurogenesis induced by hypoxia-ischemia. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18802-18807.	7.1	83
44	Preparation and structural characterization of dicopper(II) and dinickel(II) imidazolate-bridged macrocyclic Schiff base complexes. Inorganic Chemistry, 1991, 30, 3454-3461.	4.0	82
45	8-Oxo-7,8-dihydroguanine in the Context of a Gene Promoter G-Quadruplex Is an Onâ€"Off Switch for Transcription. ACS Chemical Biology, 2017, 12, 2417-2426.	3.4	82
46	Conformation-specific detection of guanine in DNA: ends, mismatches, bulges and loops. Journal of the American Chemical Society, 1992, 114, 322-325.	13.7	80
47	Human NEIL3 is mainly a monofunctional DNA glycosylase removing spiroimindiohydantoin and guanidinohydantoin. DNA Repair, 2013, 12, 1159-1164.	2.8	80
48	Recognition and Removal of Oxidized Guanines in Duplex DNA by the Base Excision Repair Enzymes hOGG1, yOGG1, and yOGG2â€. Biochemistry, 2003, 42, 11373-11381.	2.5	76
49	Characterization of 2â€²-deoxyguanosine oxidation products observed in the Fenton-like system Cu(ii)/H2O2/reductant in nucleoside and oligodeoxynucleotide contexts. Organic and Biomolecular Chemistry, 2011, 9, 3338.	2.8	74
50	Unzipping Kinetics of Duplex DNA Containing Oxidized Lesions in an Î±-Hemolysin Nanopore. Journal of the American Chemical Society, 2012, 134, 11006-11011.	13.7	74
51	Identification of DNA lesions using a third base pair for amplification and nanopore sequencing. Nature Communications, 2015, 6, 8807.	12.8	71
52	Nanopore Detection of 8-Oxoguanine in the Human Telomere Repeat Sequence. ACS Nano, 2015, 9, 4296-4307.	14.6	71
53	Structure and potential mutagenicity of new hydantoin products from guanosine and 8-oxo-7,8-dihydroguanine oxidation by transition metals.. Environmental Health Perspectives, 2002, 110, 713-717.	6.0	70
54	Structural Context Effects in the Oxidation of 8-Oxo-7,8-dihydro-2â€²-deoxyguanosine to Hydantoin Products: Electrostatics, Base Stacking, and Base Pairing. Journal of the American Chemical Society, 2012, 134, 15091-15102.	13.7	70

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55	On the irrelevancy of hydroxyl radical to DNA damage from oxidative stress and implications for epigenetics. Chemical Society Reviews, 2020, 49, 6524-6528.	38.1	68
56	Alkene Epoxidation Using Ni(II) Complexes of Chiral Cyclams. Tetrahedron Letters, 1988, 29, 877-880.	1.4	66
57	Gel electrophoretic detection of 7,8-dihydro-8-oxoguanine and 7, 8- dihydro-8-oxoadenine via oxidation by Ir (IV). Nucleic Acids Research, 1998, 26, 2247-2249.	14.5	65
58	Spermine Participates in Oxidative Damage of Guanosine and 8-Oxoguanosine Leading to Deoxyribosylurea Formation. Journal of the American Chemical Society, 2004, 126, 9540-9541.	13.7	65
59	Reconciliation of Chemical, Enzymatic, Spectroscopic and Computational Data To Assign the Absolute Configuration of the DNA Base Lesion Spiroiminodihydantoin. Journal of the American Chemical Society, 2013, 135, 18191-18204.	13.7	64
60	Efficient UV-induced charge separation and recombination in an 8-oxoguanine-containing dinucleotide. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11612-11617.	7.1	64
61	Oxidatively Induced DNAâˆ'Protein Cross-Linking between Single-Stranded Binding Protein and Oligodeoxynucleotides Containing 8-Oxo-7,8-dihydro-2â€˜-deoxyguanosineâ€. Biochemistry, 2005, 44, 5660-5671.	2.5	62
62	A Prebiotic Role for 8-Oxoguanosine as a Flavin Mimic in Pyrimidine Dimer Photorepair. Journal of the American Chemical Society, 2011, 133, 14586-14589.	13.7	62
63	Single-molecule investigation of G-quadruplex folds of the human telomere sequence in a protein nanocavity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14325-14331.	7.1	62
64	Targeting the DNA Cleavage Activity of Copper Phenanthroline and Clip-Phen to AÂ·T Tracts via Linkage to a Poly-N-methylpyrrole. Bioconjugate Chemistry, 2000, 11, 892-900.	3.6	61
65	DNA modification promoted by water-soluble nickel(II) salen complexes: A switch to DNA alkylation. Journal of Inorganic Biochemistry, 1994, 54, 199-206.	3.5	56
66	Structural Effects in Novel Steroidal Polyamine-DNA Binding. Journal of the American Chemical Society, 1994, 116, 12077-12078.	13.7	56
67	Base-Excision Repair Activity of Uracil-DNA Glycosylase Monitored Using the Latch Zone of Î±-Hemolysin. Journal of the American Chemical Society, 2013, 135, 19347-19353.	13.7	56
68	Human DNA Repair Genes Possess Potential G-Quadruplex Sequences in Their Promoters and 5â€²-Untranslated Regions. Biochemistry, 2018, 57, 991-1002.	2.5	55
69	A nickel complex cleaves uridine in folded RNA structures: application to E. coli tmRNA and related engineered molecules. Journal of Molecular Biology, 1998, 279, 577-587.	4.2	54
70	Repair of Hydantoin Lesions and Their Amine Adducts in DNA by Base and Nucleotide Excision Repair. Journal of the American Chemical Society, 2013, 135, 13851-13861.	13.7	53
71	Substituent effects on the aliphatic Claisen rearrangements. 2. Theoretical analysis. Journal of the American Chemical Society, 1981, 103, 6984-6986.	13.7	52
72	Synthesis of a chiral dioxo-cyclam derived from L-phenylalanine and its application to olefin oxidation chemistry. Tetrahedron Letters, 1988, 29, 5091-5094.	1.4	50

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73	Cytosine-specific chemical probing of DNA using bromide and monoperoxysulfate. Nucleic Acids Research, 1996, 24, 5062-5063.	14.5	50
74	Nickel Complexes as Antioxidants. Inhibition of Aldehyde Autoxidation by Nickel(II) Tetraazamacrocycles. Inorganic Chemistry, 1996, 35, 6632-6633.	4.0	49
75	Interactions of the Human Telomere Sequence with the Nanocavity of the Î±-Hemolysin Ion Channel Reveal Structure-Dependent Electrical Signatures for Hybrid Folds. Journal of the American Chemical Society, 2013, 135, 8562-8570.	13.7	49
76	Human <i>NEIL3</i> Gene Expression Regulated by Epigenetic-Like Oxidative DNA Modification. Journal of the American Chemical Society, 2019, 141, 11036-11049.	13.7	49
77	Mechanism-Based DNAâ˘'Protein Cross-Linking of MutY via Oxidation of 8-Oxoguanosine. Journal of the American Chemical Society, 1999, 121, 9901-9902.	13.7	48
78	Hydroxylation, Epoxidation, and DNA Cleavage Reactions Mediated by the Biomimetic Mn-TMPyP/O2/Sulfite Oxidation Systemâ€. Inorganic Chemistry, 1999, 38, 4123-4127.	4.0	47
79	Effect of the Oxidized Guanosine Lesions Spiroiminodihydantoin and Guanidinohydantoin on Proofreading byEscherichia coliDNA Polymerase I (Klenow Fragment) in Different Sequence Contextsâ€. Biochemistry, 2003, 42, 13008-13018.	2.5	47
80	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. Journal of Organic Chemistry, 2015, 80, 6996-7007.	3.2	47
81	Metal-mediated oxidation of guanines in DNA and RNA: a comparison of cobalt(II), nickel(II) and copper(II) complexes. Inorganica Chimica Acta, 1996, 251, 193-199.	2.4	46
82	Exploration of Mechanisms for the Transformation of 8-Hydroxy Guanine Radical to FAPyG by Density Functional Theory. Chemical Research in Toxicology, 2007, 20, 432-444.	3.3	46
83	Nanopore Dwell Time Analysis Permits Sequencing and Conformational Assignment of Pseudouridine in SARS-CoV-2. ACS Central Science, 2021, 7, 1707-1717.	11.3	46
84	(Template)2 synthesis of a dinucleating macrocyclic ligand and crystal structure of its dicopper(II) imidazolate complex. Journal of the American Chemical Society, 1989, 111, 9278-9279.	13.7	45
85	Mechanism of Two-Electron Oxidation of Deoxyguanosine 5â€˜-Monophosphate by a Platinum(IV) Complex. Journal of the American Chemical Society, 2004, 126, 591-598.	13.7	45
86	Oxidative Modification of the Potential G-Quadruplex Sequence in the <i>PCNA</i> Gene Promoter Can Turn on Transcription. Chemical Research in Toxicology, 2019, 32, 437-446.	3.3	45
87	Location dependence of the transcriptional response of a potential G-quadruplex in gene promoters under oxidative stress. Nucleic Acids Research, 2019, 47, 5049-5060.	14.5	44
88	Nickel-Based Probes of Nucleic Acid Structure Bind to Guanine N7 but Do Not Perturb a Dynamic Equilibrium of Extrahelical Guanine Residues. Journal of the American Chemical Society, 1998, 120, 3284-3288.	13.7	43
89	The oxidative DNA glycosylases of Mycobacterium tuberculosis exhibit different substrate preferences from their Escherichia coli counterparts. DNA Repair, 2010, 9, 177-190.	2.8	43
90	Nickel-Dependent Oxidative Cross-Linking of a Protein. Chemical Research in Toxicology, 1997, 10, 302-309.	3.3	42

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91	Mechanistic Information on the Redox Cycling of Nickel(II/III) Complexes in the Presence of Sulfur Oxides and Oxygen. Correlation with DNA Damage Experiments. Inorganic Chemistry, 1999, 38, 3500-3505.	4.0	42
92	Base Flipping within the Î±-Hemolysin Latch Allows Single-Molecule Identification of Mismatches in DNA. Journal of the American Chemical Society, 2016, 138, 594-603.	13.7	42
93	A primer extension assay for modification of guanine by Ni(II) complexes. Nucleic Acids Research, 1993, 21, 5524-5525.	14.5	39
94	Colocalization of m⁶A and G-Quadruplex-Forming Sequences in Viral RNA (HIV, Zika,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 ACS Central Science, 2019, 5, 218-228.	11.3	39
95	Case studies on potential G-quadruplex-forming sequences from the bacterial orders Deinococcales and Thermales derived from a survey of published genomes. Scientific Reports, 2018, 8, 15679.	3.3	38
96	Synthesis of all optically active spermine macrocycle, (S)-6-(hydroxymethyl)-1,5,10,14-tetraazacyclooctadecane, and its complexation to ATP. Tetrahedron Letters, 1986, 27, 5943-5946.	1.4	37
97	Complexation of ATP to a Synthetic [15]-N3 Macrocyclic Polyammonium Receptor. Tetrahedron Letters, 1988, 29, 6231-6234.	1.4	37
98	Crystal Structure of a Replicative DNA Polymerase Bound to the Oxidized Guanine Lesion Guanidinohydantoin [,]. Biochemistry, 2010, 49, 2502-2509.	2.5	37
99	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. Journal of the American Chemical Society, 2011, 133, 14778-14784.	13.7	37
100	Catalysis of aryl-halogen exchange by nickel(II) complexes using sodium hypochlorite. Journal of Organic Chemistry, 1991, 56, 1344-1346.	3.2	36
101	Human endonuclease VIII-like (NEIL) proteins in the giant DNA Mimivirus. DNA Repair, 2007, 6, 1629-1641.	2.8	36
102	Guanine versus deoxyribose damage in DNA oxidation mediated by vanadium(IV) and vanadium(V) complexes. Journal of Biological Inorganic Chemistry, 2001, 6, 100-106.	2.6	35
103	Rates of Chemical Cleavage of DNA and RNA Oligomers Containing Guanine Oxidation Products. Chemical Research in Toxicology, 2015, 28, 1292-1300.	3.3	35
104	Dynamics of a DNA Mismatch Site Held in Confinement Discriminate Epigenetic Modifications of Cytosine. Journal of the American Chemical Society, 2017, 139, 2750-2756.	13.7	34
105	Computational Study of Oxidation of Guanine by Singlet Oxygen (¹Î”_g) and Formation of Guanine:Lysine Crossâ€Links. Chemistry - A European Journal, 2017, 23, 5804-5813.	3.3	34
106	The Sal-XH Motif for Metal-Mediated Oxidative DNAâˆ’Peptide Cross-Linking. Journal of the American Chemical Society, 1999, 121, 6956-6957.	13.7	33
107	Plant and fungal Fpg homologs are formamidopyrimidine DNA glycosylases but not 8-oxoguanine DNA glycosylases. DNA Repair, 2009, 8, 643-653.	2.8	33
108	Unfolding Kinetics of the Human Telomere i-Motif Under a 10 pN Force Imposed by the Î±-Hemolysin Nanopore Identify Transient Folded-State Lifetimes at Physiological pH. Journal of the American Chemical Society, 2015, 137, 9053-9060.	13.7	32

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109	Sequencing of DNA Lesions Facilitated by Site-Specific Excision via Base Excision Repair DNA Glycosylases Yielding Ligatable Gaps. Journal of the American Chemical Society, 2016, 138, 491-494.	13.7	32
110	Human Telomere G-Quadruplexes with Five Repeats Accommodate 8-Oxo-7,8-dihydroguanine by Looping out the DNA Damage. ACS Chemical Biology, 2016, 11, 500-507.	3.4	32
111	Effect of Oxidative Damage on Charge and Spin Transport in DNA. Journal of the American Chemical Society, 2019, 141, 123-126.	13.7	32
112	Photoinduced Electron Transfer in DNA: Charge Shift Dynamics Between 8-Oxo-Guanine Anion and Adenine. Journal of Physical Chemistry B, 2015, 119, 7491-7502.	2.6	31
113	Oxidative stress-mediated epigenetic regulation by G-quadruplexes. NAR Cancer, 2021, 3, zcab038.	3.1	31
114	The <i>RAD17</i> Promoter Sequence Contains a Potential Tail-Dependent G-Quadruplex That Downregulates Gene Expression upon Oxidative Modification. ACS Chemical Biology, 2018, 13, 2577-2584.	3.4	30
115	Unusual Structural Features of Hydantoin Lesions Translate into Efficient Recognition by Escherichia coli Fpg. Biochemistry, 2007, 46, 9355-9365.	2.5	29
116	Internal vs Fishhook Hairpin DNA: Unzipping Locations and Mechanisms in the Î±-Hemolysin Nanopore. Journal of Physical Chemistry B, 2014, 118, 12873-12882.	2.6	29
117	Unraveling the 4n âˆ’ 1 rule for DNA i-motif stability: base pairs vs. loop lengths. Organic and Biomolecular Chemistry, 2018, 16, 4537-4546.	2.8	29
118	Synthesis and DNA binding properties of C3-, C12-, and C24- substituted amino-steroids derived from bile acids. Bioorganic and Medicinal Chemistry, 1995, 3, 823-838.	3.0	28
119	Structural Destabilization of DNA Duplexes Containing Single-Base Lesions Investigated by Nanopore Measurements. Biochemistry, 2013, 52, 7870-7877.	2.5	28
120	UV-Induced Proton-Coupled Electron Transfer in Cyclic DNA Miniduplexes. Journal of the American Chemical Society, 2016, 138, 7395-7401.	13.7	28
121	Bromination of pyrimidines using bromide and monoperoxysulfate: A competition study between cytidine, uridine and thymidine. Tetrahedron Letters, 1997, 38, 2805-2808.	1.4	27
122	Mechanistic Aspects of the Formation of Guanidinohydantoin from Spiroiminodihydantoin under Acidic Conditions. Chemical Research in Toxicology, 2009, 22, 526-535.	3.3	27
123	Whence Flavins? Redox-Active Ribonucleotides Link Metabolism and Genome Repair to the RNA World. Accounts of Chemical Research, 2012, 45, 2151-2159.	15.6	27
124	pH-Dependent Equilibrium between 5-Guanidinohydantoin and Iminoallantoin Affects Nucleotide Insertion Opposite the DNA Lesion. Journal of Organic Chemistry, 2016, 81, 351-359.	3.2	27
125	Unzipping of A-Form DNA-RNA, A-Form DNA-PNA, and B-Form DNA-DNA in the Î±-Hemolysin Nanopore. Biophysical Journal, 2016, 110, 306-314.	0.5	26
126	Î³-Hemolysin Nanopore Is Sensitive to Guanine-to-Inosine Substitutions in Double-Stranded DNA at the Single-Molecule Level. Journal of the American Chemical Society, 2018, 140, 14224-14234.	13.7	26

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127	RNA polymerase II stalls on oxidative DNA damage via a torsion-latch mechanism involving lone pairâ€“Ï€ and CHâ€“Ï€ interactions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9338-9348.	7.1	26
128	Nickel Complexes of Cysteine- and Cystine-Containing Peptides:Â Spontaneous Formation of Disulfide-Bridged Dimers at Neutral pH. Inorganic Chemistry, 1998, 37, 5358-5363.	4.0	25
129	Iron Fenton oxidation of 2â€²-deoxyguanosine in physiological bicarbonate buffer yields products consistent with the reactive oxygen species carbonate radical anion not the hydroxyl radical. Chemical Communications, 2020, 56, 9779-9782.	4.1	25
130	Electronic Structure of DNA - Unique Properties of 8-Oxoguanosine. Journal of the American Chemical Society, 2009, 131, 89-95.	13.7	24
131	Single-Molecule Titration in a Protein Nanoreactor Reveals the Protonation/Deprotonation Mechanism of a C:C Mismatch in DNA. Journal of the American Chemical Society, 2018, 140, 5153-5160.	13.7	24
132	Rapid Screen of Potential i-Motif Forming Sequences in DNA Repair Gene Promoters. ACS Omega, 2018, 3, 9630-9635.	3.5	24
133	In Vitro Ligation of Oligodeoxynucleotides Containing C8-Oxidized Purine Lesions Using Bacteriophage T4 DNA Ligaseâ€. Biochemistry, 2007, 46, 3734-3744.	2.5	23
134	Comparison of transition metal-mediated oxidation reactions of guanine in nucleoside and single-stranded oligodeoxynucleotide contexts. Inorganica Chimica Acta, 2011, 369, 240-246.	2.4	23
135	Unusual Isothermal Hysteresis in DNA i-Motif pHÂTransitions: A Study of the RAD17 Promoter Sequence. Biophysical Journal, 2018, 114, 1804-1815.	0.5	23
136	Structural Elucidation of Bisulfite Adducts to Pseudouridine That Result in Deletion Signatures during Reverse Transcription of RNA. Journal of the American Chemical Society, 2019, 141, 16450-16460.	13.7	23
137	Synthesis of novel macrobicyclic polyfunctional cryptands. Tetrahedron Letters, 1985, 26, 215-218.	1.4	22
138	Preparation of primary vicinal diamines from amino acid esters and crystal structure of a chiral nickel salen complex. Tetrahedron Letters, 1993, 34, 1905-1908.	1.4	22
139	Temperature and Electrolyte Optimization of the Î±-Hemolysin Latch Sensing Zone for Detection of Base Modification in Double-Stranded DNA. Biophysical Journal, 2014, 107, 924-931.	0.5	22
140	Oxidative DNA damage from sulfite autoxidation catalyzed by manganese(III). Comptes Rendus Chimie, 2002, 5, 461-466.	0.5	21
141	The Cys-Xaa-His metal-binding motif: {N} versus {S} coordination and nickel-mediated formation of cysteinyl sulfinic acid. Journal of Biological Inorganic Chemistry, 2003, 8, 601-610.	2.6	21
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