Nicholas E Geacintov

List of Publications by Year
in descending order

164	6,562	53751 45	88593 70
papers	citations	h-index	g-index

184	184	184	2514
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NMR Solution Structures of Stereoisomeric Covalent Polycyclic Aromatic Carcinogenâ^'DNA Adducts:â€‰Principles, Patterns, and Diversity. Chemical Research in Toxicology, 1997, 10, 111-146.	1.7	331
2	trans-Lesion Synthesis Past Bulky Benzo[a]pyrene Diol Epoxide N2-dG and N6-dA Lesions Catalyzed by DNA Bypass Polymerases. Journal of Biological Chemistry, 2002, 277, 30488-30494.	1.6	180
3	Influence of benzo[a]pyrenediol epoxide chirality on solution conformations of DNA covalent adducts: the (-)-trans-anti-[BP]G.cntdot.C adduct structure and comparison with the (+)-trans-anti[BP]G.cntdot.C enantiomer. Biochemistry, 1992, 31, 5245-5252.	1.2	176
4	Solution conformation of the (+)-cis-anti-[BP]dG adduct in a DNA duplex: Intercalation of the covalently attached benzo[a]pyrenyl ring into the helix and displacement of the modified deoxyguanosine. Biochemistry, 1993, 32, 4145-4155.	1.2	169
5	Translesion Synthesis by Human DNA Polymerase Î· on a DNA Template Containing a Single Stereoisomer of dG-(+)- or dG-(â^')-anti-N2-BPDE (7,8-Dihydroxy-anti-9,10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene)â€. Biochemistry, 2002, 41, 6100-6106.	1.2	155
6	Thermodynamic and structural factors in the removal of bulky DNA adducts by the nucleotide excision repair machinery. Biopolymers, 2002, 65, 202-210.	1.2	128
7	Translesional synthesis on a DNA template containing a single stereoisomer of dG-(+)- or		

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19	The Major, N2-dG Adduct of (+)-anti-B[a]PDE Shows a Dramatically Different Mutagenic Specificity (Predominantly, G â† A) in a 5â€˜-CGT-3â€˜ Sequence Contextâ€. Biochemistry, 1997, 36, 10256-10261.	1.2	82
20	Sequence Specific Mutagenesis of the Major (+)-anti-Benzo[a]pyrene Diol Epoxideâ€˜DNA Adduct at a Mutational Hot Spotin Vitroand inEscherichia coliCells. Chemical Research in Toxicology, 1997, 10, 369-377.	1.7	79
21	Oxidation of single-stranded oligonucleotides by carbonate radical anions: generating intrastrand cross-links between guanine and thymine bases separated by cytosines. Nucleic Acids Research, 2008, 36, 742-755.	6.5	76
22	Structure of a High Fidelity DNA Polymerase Bound to a Benzo[a]pyrene Adduct That Blocks Replication. Journal of Biological Chemistry, 2005, 280, 3764-3770.	1.6	74
23	The processing of a Benzo(a)pyrene adduct into a frameshift or a base substitution mutation requires a different set of genes in Escherichia coli. Molecular Microbiology, 2000, 38, 299-307.	1.2	73
24	Structural basis for the recognition of diastereomeric 5â€²,8-cyclo-2â€²-deoxypurine lesions by the human nucleotide excision repair system. Nucleic Acids Research, 2014, 42, 5020-5032.	6.5	69
25	A SINGLE PULSE PICOSECOND LASER STUDY OF EXCITON DYNAMICS IN CHLOROPLASTS. Photochemistry and Photobiology, 1977, 26, 629-638.	1.3	68
26	The Sequence Dependence of Human Nucleotide Excision Repair Efficiencies of Benzo[a]pyrene-derived DNA Lesions: Insights into the Structural Factors that Favor Dual Incisions. Journal of Molecular Biology, 2009, 386, 1193-1203.	2.0	67
27	FLUORESCENCE STUDY OF THE PHYSICOâ€CHEMICAL PROPERTIES OF A BENZO(A)PYRENE7,8â€DIHYDRODIOL9,10â€OXIDE DERIVATIVE BOUND COVALENTLY TO DNA. Photochemistry and Photobiology, 1979, 29, 223-232.	1.3	65
28	Resistance of bulky DNA lesions to nucleotide excision repair can result from extensive aromatic lesionâ€“base stacking interactions. Nucleic Acids Research, 2011, 39, 8752-8764.	6.5	62
29	Nucleotide excision repair of 2-acetylaminofluorene- and 2-aminofluorene-(C8)-guanine adducts: molecular dynamics simulations elucidate how lesion structure and base sequence context impact repair efficiencies. Nucleic Acids Research, 2012, 40, 9675-9690.	6.5	61
30	How Stereochemistry Affects Mutagenesis by N2-Deoxyguanosine Adducts of 7,8-Dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene:â€‰ Configuration of the Adduct Bond Is More Important Than Those of the Hydroxyl Groups. Biochemistry, 1997, 36, 13263-13269.	1.2	60
31	Combination of Nitrogen Dioxide Radicals with 8-Oxo-7,8-dihydroguanine and Guanine Radicals in DNA:Â Oxidation and Nitration End-Products. Journal of the American Chemical Society, 2005, 127, 2191-2200.	6.6	60
32	Direct Spectroscopic Observation of 8-Oxo-7,8-dihydro-2â€˜-deoxyguanosine Radicals in Double-Stranded DNA Generated by One-Electron Oxidation at a Distance by 2-Aminopurine Radicals. Journal of Physical Chemistry B, 2001, 105, 586-592.	1.2	58
33	Methylation of Cytosine at C5 in a CpG Sequence Context Causes a Conformational Switch of a Benzo[a]pyrene diol epoxide-N2-guanine Adduct in DNA from a Minor Groove Alignment to Intercalation with Base Displacement. Journal of Molecular Biology, 2005, 346, 951-965.	2.0	56
34	Solution Conformation of the (+)-trans-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex: Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Major Groove. Biochemistry, 1994, 33, 11507-11517.	1.2	55
35	Oxidative Generation of Guanine Radicals by Carbonate Radicals and Their Reactions with Nitrogen Dioxide to Form Site Specific 5-Guanidino-4-nitroimidazole Lesions in Oligodeoxynucleotides. Chemical Research in Toxicology, 2003, 16, 966-973.	1.7	55
36	Molecular basis for damage recognition and verification by XPC-RAD23B and TFIIH in nucleotide excision repair. DNA Repair, 2018, 71, 33-42.	1.3	55

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37	DNA Adduct Structureâ€“Function Relationships: Comparing Solution with Polymerase Structures. Chemical Research in Toxicology, 2008, 21, 45-52.	1.7	52
38	Absolute Configurations of Spiroiminodihydantoin and Allantoin Stereoisomers: Comparison of Computed and Measured Electronic Circular Dichroism Spectra. Chemical Research in Toxicology, 2009, 22, 1189-1193.	1.7	52
39	Conformational studies of the (+)-trans, (â˜)-trans, (+)-cis, and (â˜)-cis adducts of anti-benzo[a]pyrene diolepoxide to N2-dG in duplex oligonucleotides using polyacrylamide gel electrophoresis and low-temperature fluorescence spectroscopy. Biophysical Chemistry, 1995, 56, 281-296.	1.5	51
40	Solution Conformation of the (+)-cis-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex: Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Minor Groove. Biochemistry, 1994, 33, 11518-11527.	1.2	50
41	Synthesis and characterization of covalent adducts derived from the binding of benzo[a]pyrene diol epoxide to a -GGG- sequence in a deoxyoligonucleotide. Carcinogenesis, 1995, 16, 357-365.	1.3	50
42	Probing for DNA damage with Î²-hairpins: Similarities in incision efficiencies of bulky DNA adducts by prokaryotic and human nucleotide excision repair systems in vitro. DNA Repair, 2011, 10, 684-696.	1.3	49
43	Base and Nucleotide Excision Repair of Oxidatively Generated Guanine Lesions in DNA. Journal of Biological Chemistry, 2016, 291, 5309-5319.	1.6	49
44	Energy transfer and fluorescence mechanisms in photosynthetic membranes. Critical Reviews in Plant Sciences, 1987, 5, 1-44.	2.7	48
45	MECHANISMS OF QUENCHING OF THE FLUORESCENCE OF A BENZO[a]PYRENE TETRAOL METABOLITE MODEL COMPOUND BY 2â€²â€ŒDEOXYNUCLEOSIDES. Photochemistry and Photobiology, 1993, 58, 185-194.	1.3	48
46	Differential Nucleotide Excision Repair Susceptibility of Bulky DNA Adducts in Different Sequence Contexts: Hierarchies of Recognition Signals. Journal of Molecular Biology, 2009, 385, 30-44.	2.0	48
47	Repair-Resistant DNA Lesions. Chemical Research in Toxicology, 2017, 30, 1517-1548.	1.7	48
48	Structural and Thermodynamic Features of Spiroiminodihydantoin Damaged DNA Duplexesâ€. Biochemistry, 2005, 44, 13342-13353.	1.2	47
49	Dynamics of a Benzo[a]pyrene-derived Guanine DNA Lesion in TGT and CGC Sequence Contexts: Enhanced Mobility in TGT Explains Conformational Heterogeneity, Flexible Bending, and Greater Susceptibility to Nucleotide Excision Repair. Journal of Molecular Biology, 2007, 374, 292-305.	2.0	46
50	Nucleotide Excision Repair Efficiencies of Bulky Carcinogenâ€“DNA Adducts Are Governed by a Balance between Stabilizing and Destabilizing Interactions. Biochemistry, 2012, 51, 1486-1499.	1.2	46
51	Ultrafast transient-absorption and steady-state fluorescence measurements on 2-aminopurine substituted dinucleotides and 2-aminopurine substituted DNA duplexes. Physical Chemistry Chemical Physics, 2004, 6, 154.	1.3	45
52	Identification of novel DNA-damage tolerance genes reveals regulation of translesion DNA synthesis by nucleophosmin. Nature Communications, 2014, 5, 5437.	5.8	43
53	5â€²,8-Cyclopurine Lesions in DNA Damage: Chemical, Analytical, Biological, and Diagnostic Significance. Cells, 2019, 8, 513.	1.8	43
54	Stereochemical Origin of Opposite Orientations in DNA Adducts Derived from Enantiomeric anti-Benzo[a]pyrene Diol Epoxides with Different Tumorigenic Potentials. Biochemistry, 1999, 38, 2956-2968.	1.2	42

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55	Synthesis and Characterization of Site-Specific and Stereoisomeric Fjord Dibenzo[a,l]pyrene Diol Epoxideâ^'N6-Adenine Adducts:â€‰ Unusual Thermal Stabilization of Modified DNA Duplexes. Chemical Research in Toxicology, 2002, 15, 249-261.	1.7	42
56	Removal of oxidatively generated DNA damage by overlapping repair pathways. Free Radical Biology and Medicine, 2017, 107, 53-61.	1.3	42
57	Opposite stereoselective resistance to digestion by phosphodiesterases I and II of benzo[a]pyrenediol epoxide-modified oligonucleotide adducts. Biochemistry, 1993, 32, 11785-11793.	1.2	41
58	Relating repair susceptibility of carcinogen-damaged DNA with structural distortion and thermodynamic stability. Nucleic Acids Research, 2002, 30, 3422-3432.	6.5	40
59	Generation of Guanineâ€“Thymidine Cross-Links in DNA by Peroxynitrite/Carbon Dioxide. Chemical Research in Toxicology, 2011, 24, 1144-1152.	1.7	40
60	Adenineâ€“DNA Adducts Derived from the Highly Tumorigenic Dibenzo[a,l]pyrene Are Resistant to Nucleotide Excision Repair while Guanine Adducts Are Not. Chemical Research in Toxicology, 2013, 26, 783-793.	1.7	40
61	Differential Hydration Thermodynamics of Stereoisomeric DNAâ^'Benzo[a]pyrene Adducts Derived from Diol Epoxide Enantiomers with Different Tumorigenic Potentials. Journal of the American Chemical Society, 1996, 118, 3804-3810.	6.6	39
62	Solution Structure of the (+)-cis-anti-Benzo[a]pyrene-dA ([BP]dA) Adduct Opposite dT in a DNA Duplexâ€. Biochemistry, 1999, 38, 10831-10842.	1.2	39
63	Generation of Guanineâ€“Thymine Cross-Links in Human Cells by One-Electron Oxidation Mechanisms. Chemical Research in Toxicology, 2013, 26, 1031-1033.	1.7	39
64	Direct Synthesis and Characterization of Site-Specific Adenosyl Adducts Derived from the Binding of a 3,4-Dihydroxy-1,2-epoxybenzo[c]phenanthrene Stereoisomer to an 11-mer Oligodeoxyribonucleotide. Chemical Research in Toxicology, 1995, 8, 444-454.	1.7	38
65	Sequence Context- and Temperature-Dependent Nucleotide Excision Repair of a Benzo[a]pyrene Diol Epoxide-Guanine DNA Adduct Catalyzed by Thermophilic UvrABC Proteinsâ€. Biochemistry, 2007, 46, 7006-7015.	1.2	37
66	Spiroiminodihydantoin Lesions Derived from Guanine Oxidation:â€‰ Structures, Energetics, and Functional Implications. Biochemistry, 2005, 44, 6043-6051.	1.2	35
67	Stereoselective Covalent Binding of Anti-benzo(a)pyrene Diol Epoxide to DNA Conformation of Enantiomer Adducts. Journal of Biomolecular Structure and Dynamics, 1984, 1, 1473-1484.	2.0	34
68	Solution Conformation of the (â^')-trans-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex:Â Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Minor Grooveâ€. Biochemistry, 1997, 36, 13780-13790.	1.2	34
69	Bending and Circularization of Site-Specific and Stereoisomeric Carcinogenâ^'DNA Adductsâ€. Biochemistry, 1998, 37, 769-778.	1.2	34
70	Distant Neighbor Base Sequence Context Effects in Human Nucleotide Excision Repair of a Benzo[a]pyrene-derived DNA Lesion. Journal of Molecular Biology, 2010, 399, 397-409.	2.0	34
71	Assignment of Absolute Configurations of the Enantiomeric Spiroiminodihydantoin Nucleobases by Experimental and Computational Optical Rotatory Dispersion Methods. Chemical Research in Toxicology, 2006, 19, 908-913.	1.7	33
72	Base Sequence Context Effects on Nucleotide Excision Repair. Journal of Nucleic Acids, 2010, 2010, 1-9.	0.8	33

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73	The relationships between XPC binding to conformationally diverse DNA adducts and their excision by the human NER system: Is there a correlation?. DNA Repair, 2014, 19, 55-63.	1.3	33
74	Base Sequence Dependence of in Vitro Translesional DNA Replication past a Bulky Lesion Catalyzed by the Exo-Klenow Fragment of Pol Iâ€. Biochemistry, 2001, 40, 6660-6669.	1.2	32
75	Exocyclic amino groups of flanking guanines govern sequence-dependent adduct conformations and local structural distortions for minor groove-aligned benzo[a]pyrenyl-guanine lesions in a GG mutation hotspot context. Nucleic Acids Research, 2007, 35, 1555-1568.	6.5	32
76	Nucleotide Excision Repair Lesion-Recognition Protein Rad4 Captures a Pre-Flipped Partner Base in a Benzo[a]pyrene-Derived DNA Lesion: How Structure Impacts the Binding Pathway. Chemical Research in Toxicology, 2017, 30, 1344-1354.	1.7	32
77	Sequence Dependence and Characteristics of Bends Induced by Site-Specific Polynuclear Aromatic Carcinogenâ^Deoxyguanosine Lesions in Oligonucleotides. Biochemistry, 1998, 37, 4993-5000.	1.2	31
78	Origins of Conformational Differences between Cis and Trans DNA Adducts Derived from Enantiomeric anti-Benzo[a]Pyrene Diol Epoxides. Chemical Research in Toxicology, 1999, 12, 597-609.	1.7	31
79	Human RNA polymerase II is partially blocked by DNA adducts derived from tumorigenic benzo[c]phenanthrene diol epoxides: relating biological consequences to conformational preferences. Nucleic Acids Research, 2003, 31, 6004-6015.	6.5	31
80	Proton-coupled electron transfer in the oxidation of guanines by an aromatic pyrenyl radical cation in aqueous solutions. Physical Chemistry Chemical Physics, 2000, 2, 1531-1535.	1.3	30
81	Simulating Structural and Thermodynamic Properties of Carcinogen-Damaged DNA. Biophysical Journal, 2003, 84, 2137-2148.	0.2	30
82	Base Selectivity and Effects of Sequence and DNA Secondary Structure on the Formation of Covalent Adducts Derived from the Equine Estrogen Metabolite 4-Hydroxyequilenin. Chemical Research in Toxicology, 2005, 18, 1737-1747.	1.7	29
83	Structural, energetic and dynamic properties of guanine(C8)â€“thymine(N3) cross-links in DNA provide insights on susceptibility to nucleotide excision repair. Nucleic Acids Research, 2012, 40, 2506-2517.	6.5	29
84	PRINCIPLES AND APPLICATIONS OF FLUORESCENCE TECHNIQUES IN BIOPHYSICAL CHEMISTRY*. Photochemistry and Photobiology, 1987, 45, 547-553.	1.3	28
85	Stereochemistry-dependent bending in oligonucleotide duplexes induced by site-specific covalent benzo[a]pyrene diol epoxide-guanine lesions. Nucleic Acids Research, 1995, 23, 2314-2319.	6.5	28
86	Intercalative Conformations of the 14R (+)- and 14S (â^)-trans-anti-DB[a,l]P-N⁶-dA Adducts: Molecular Modeling and MD Simulations. Chemical Research in Toxicology, 2011, 24, 522-531.	1.7	28
87	Thermodynamic Profiles and Nuclear Magnetic Resonance Studies of Oligonucleotide Duplexes Containing Single Diastereomeric Spiroiminodihydantoin Lesions. Biochemistry, 2013, 52, 1354-1363.	1.2	28
88	Role of Hydrophobic Effects in the Reaction of a Polynuclear Aromatic Diol Epoxide with Oligodeoxynucleotides in Aqueous Solutions. Chemical Research in Toxicology, 1998, 11, 381-388.	1.7	27
89	Oxidation of Guanine by Carbonate Radicals Derived from Photolysis of Carbonatotetramminecobalt(III) Complexes and the pH Dependence of Intrastrand DNA Crossâ€Links Mediated by Guanine Radical Reactions. ChemBioChem, 2008, 9, 1985-1991.	1.3	26
90	Recognition of Damaged DNA for Nucleotide Excision Repair: A Correlated Motion Mechanism with a Mismatched cis-syn Thymine Dimer Lesion. Biochemistry, 2015, 54, 5263-5267.	1.2	26

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91	Base Sequence-Dependent Bends in Site-Specific Benzo[a]pyrene Diol Epoxide-Modified Oligonucleotide Duplexes. Chemical Research in Toxicology, 1996, 9, 255-261.	1.7	25
92	Differential Incision of Bulky Carcinogenâ˜'DNA Adducts by the UvrABC Nuclease:â€‰ Comparison of Incision Rates and the Interactions of Uvr Subunits with Lesions of Different Structures. Biochemistry, 2000, 39, 12252-12261.	1.2	25
93	ACRYLAMIDE AND MOLECULAR OXYGEN FLUORESCENCE QUENCHING AS A PROBE OF SOLVENTâ€ACCESSIBILITY OF AROMATIC FLUOROPHORES COMPLEXED WITH DNA IN RELATION TO THEIR CONFORMATIONS: CORONENEâ€DNA AND OTHER COMPLEXES. Photochemistry and Photobiology, 1988, 47, 181-188.	1.3	24
94	Differences in unwinding of supercoiled DNA induced by the two enantiomers ofanti-benzo[a]pyrene diol epoxide. Nucleic Acids Research, 1992, 20, 6167-6176.	6.5	24
95	Trapping of DNA nucleotide excision repair factors by nonrepairable carcinogen adducts. Cancer Research, 2002, 62, 4229-35.	0.4	23
96	Fluorescence Characteristics of Site-Specific and Stereochemically Distinct Benzo[a]pyrene Diol Epoxideâ˜'DNA Adducts as Probes of Adduct Conformation. Chemical Research in Toxicology, 2002, 15, 118-126.	1.7	21
97	Absolute configurations of DNA lesions determined by comparisons of experimental ECD and ORD spectra with DFT calculations. Chirality, 2009, 21, E231-41.	1.3	21
98	Nucleotide Excision Repair and Transcription-coupled DNA Repair Abrogate the Impact of DNA Damage on Transcription. Journal of Biological Chemistry, 2016, 291, 848-861.	1.6	21
99	Interference of benzo[a]pyrene diol epoxide-deoxyguanosine adducts in a GC box with binding of the transcription factor Sp1. Molecular Carcinogenesis, 1996, 16, 44-52.	1.3	20
100	Role of Base Sequence Context in Conformational Equilibria and Nucleotide Excision Repair of Benzo[a]pyrene Diol Epoxideâ˜'Adenine Adducts. Biochemistry, 2003, 42, 2339-2354.	1.2	20
101	Characterization of the interactions of PARP-1 with UV-damaged DNA in vivo and in vitro. Scientific Reports, 2016, 6, 19020.	1.6	20
102	Mechanism of error-free replication across benzo[a]pyrene stereoisomers by Rev1 DNA polymerase. Nature Communications, 2017, 8, 965.	5.8	20
103	Lesion Sensing during Initial Binding by Yeast XPC/Rad4: Toward Predicting Resistance to Nucleotide Excision Repair. Chemical Research in Toxicology, 2018, 31, 1260-1268.	1.7	20
104	Conformational Determinants of Structures in Stereoisomeric Cis-Opened anti-Benzo[a]pyrene Diol Epoxide Adducts to Adenine in DNA. Chemical Research in Toxicology, 2000, 13, 811-822.	1.7	19
105	Ribonucleotides as nucleotide excision repair substrates. DNA Repair, 2014, 13, 55-60.	1.3	19
106	Excision of Oxidatively Generated Guanine Lesions by Competing Base and Nucleotide Excision Repair Mechanisms in Human Cells. Chemical Research in Toxicology, 2019, 32, 753-761.	1.7	19
107	Mechanisms of Interaction of Polycyclic Aromatic Diol Epoxides with DNA and Structures of the Adducts. ACS Symposium Series, 1985, , 107-124.	0.5	18
108	Conformations of Stereoisomeric Base Adducts to 4-Hydroxyequilenin. Chemical Research in Toxicology, 2003, 16, 695-707.	1.7	18

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109	Human DNA polymerase Î» catalyzes lesion bypass across benzo[a]pyrene-derived DNA adduct during base excision repair. DNA Repair, 2012, 11, 367-373.	1.3	18
110	Free Energy Profiles of Base Flipping in Intercalative Polycyclic Aromatic Hydrocarbon-Damaged DNA Duplexes: Energetic and Structural Relationships to Nucleotide Excision Repair Susceptibility. Chemical Research in Toxicology, 2013, 26, 1115-1125.	1.7	18
111	Nucleotide Excision Repair and Impact of Site-Specific 5â€²,8-Cyclopurine and Bulky DNA Lesions on the Physical Properties of Nucleosomes. Biochemistry, 2019, 58, 561-574.	1.2	18
112	A LINEAR DICHROISM STUDY OF THE ORIENTATION OF AROMATIC PROTEIN RESIDUES IN MAGNETICALLY ORIENTED BOVINE ROD OUTER SEGMENTS. Photochemistry and Photobiology, 1978, 27, 51-54.	1.3	17
113	Linear dichroism characteristics of ethidium-and proflavine-supercoiled DNA complexes. Biopolymers, 1990, 29, 1735-1744.	1.2	17
114	A Bulky DNA Lesion Derived from a Highly Potent Polycyclic Aromatic Tumorigen Stabilizes Nucleosome Core Particle Structure. Biochemistry, 2010, 49, 9943-9945.	1.2	17
115	Resistance to Nucleotide Excision Repair of Bulky Guanine Adducts Opposite Abasic Sites in DNA Duplexes and Relationships between Structure and Function. PLoS ONE, 2015, 10, e0137124.	1.1	17
116	Photoaddition to DNA by Nonintercalated Chlorpromazine Molecules. Photochemistry and Photobiology, 1998, 68, 692-697.	1.3	16
117	Following an environmental carcinogen N2-dG adduct through replication: elucidating blockage and bypass in a high-fidelity DNA polymerase. Nucleic Acids Research, 2007, 35, 4275-4288.	6.5	16
118	Oxidatively Generated Guanine(C8)-Thymine(N3) Intrastrand Cross-links in Double-stranded DNA Are Repaired by Base Excision Repair Pathways. Journal of Biological Chemistry, 2015, 290, 14610-14617.	1.6	16
119	5-Formylcytosine-induced DNAâ€“peptide cross-links reduce transcription efficiency, but do not cause transcription errors in human cells. Journal of Biological Chemistry, 2019, 294, 18387-18397.	1.6	16
120	FLUORESCENCE SPECTROSCOPY OF BENZO[a]PYRENE DIOL EPOXIDE-DNA ADDUCTS. CONFORMATION-SPECIFIC EMISSION SPECTRA. Photochemistry and Photobiology, 1989, 50, 327-337.	1.3	15
121	Photoinduced electron transfer and strand cleavage in pyrenyl-DNA complexes and adducts. Journal of Physical Organic Chemistry, 1998, 11, 561-565.	0.9	15
122	Transcription of DNA containing the 5-guanidino-4-nitroimidazole lesion by human RNA polymerase II and bacteriophage T7 RNA polymerase. DNA Repair, 2008, 7, 1276-1288.	1.3	15
123	PSORALENâ€MEDIATED VIRUS PHOTOINACTIVATION IN PLATELET CONCENTRATES: ENHANCED SPECIFICITY OF VIRUS KILL IN THE ABSENCE OF SHORTER UVA WAVELENGTHS. Photochemistry and Photobiology, 1995, 62, 917-922.	1.3	15
124	Role of Structural and Energetic Factors in Regulating Repair of a Bulky DNA Lesion with Different Opposite Partner Bases. Biochemistry, 2013, 52, 5517-5521.	1.2	15
125	Total Synthesis, Mass Spectrometric Sequencing, and Stabilities of Oligonucleotide Duplexes with Singletrans-anti-BPDE-N6-dA Lesions in theN-rascodon 61 and Other Sequence Contexts. Polycyclic Aromatic Compounds, 1999, 17, 1-10.	1.4	14
126	The Nonbulky DNA Lesions Spiroiminodihydantoin and 5-Guanidinohydantoin Significantly Block Human RNA Polymerase II Elongation in Vitro. Biochemistry, 2017, 56, 3008-3018.	1.2	14

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127	Triplets of aromatic dyes bound to DNA as probes of the mobility of DNA-bound metal ions. FEBS Letters, 1976, 71, 236-240.	1.3	13
128	A FLOW LINEAR DICHROISM STUDY OF THE ORIENTATION OF 4',5'-PSORALEN-DNA PHOTOADDUCTS. Photochemistry and Photobiology, 1987, 45, 601-607.	1.3	13
129	Acidâ€“base equilibria in aqueous solutions of 2-aminopurine radical cations generated by two-photon photoionization. Perkin Transactions II RSC, 2000, , 271-275.	1.1	13
130	Flexible 5-Guanidino-4-nitroimidazole DNA Lesions:â€‰ Structures and Thermodynamics. Biochemistry, 2006, 45, 6644-6655.	1.2	13
131	Conformational Properties of Equileninâ^'DNA Adducts: Stereoisomer and Base Effects. Chemical Research in Toxicology, 2008, 21, 1064-1073.	1.7	13
132	Nuclear Magnetic Resonance Solution Structure of an N2-Guanine DNA Adduct Derived from the Potent Tumorigen Dibenzo[a,l]pyrene: Intercalation from the Minor Groove with Ruptured Watsonâ€“Crick Base Pairing. Biochemistry, 2012, 51, 9751-9762.	1.2	12
133	Entrapment of a Histone Tail by a DNA Lesion in a Nucleosome Suggests the Lesion Impacts Epigenetic Marking: A Molecular Dynamics Study. Biochemistry, 2016, 55, 239-242.	1.2	10
134	Synergistic effects of H3 and H4 nucleosome tails on structure and dynamics of a lesion-containing DNA: Binding of a displaced lesion partner base to the H3 tail for GG-NER recognition. DNA Repair, 2018, 65, 73-78.	1.3	10
135	Determination of Absolute Configurations of 4-Hydroxyequilenin-Cytosine and -Adenine Adducts by Optical Rotatory Dispersion, Electronic Circular Dichroism, Density Functional Theory Calculations, and Mass Spectrometry. Chemical Research in Toxicology, 2008, 21, 1739-1748.	1.7	9
136	NMR and Computational Studies of Stereoisomeric Equine Estrogen-Derived DNA Cytidine Adducts in Oligonucleotide Duplexes: Opposite Orientations of Diastereomeric Forms. Biochemistry, 2009, 48, 7098-7109.	1.2	9
137	Remarkable Enhancement of Nucleotide Excision Repair of a Bulky Guanine Lesion in a Covalently Closed Circular DNA Plasmid Relative to the Same Linearized Plasmid. Biochemistry, 2020, 59, 2842-2848.	1.2	9
138	TENT4A Non-Canonical Poly(A) Polymerase Regulates DNA-Damage Tolerance via Multiple Pathways That Are Mutated in Endometrial Cancer. International Journal of Molecular Sciences, 2021, 22, 6957.	1.8	9
139	Quenching of excited triplets of aromatic hydrocarbons by molecular oxygen. Journal of Chemical Physics, 1973, 59, 4428-4434.	1.2	8
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