

Miral Dizdaroglu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7316053/publications.pdf>

Version: 2024-02-01

196
papers

21,851
citations

14124

69
h-index

10399

144
g-index

199
all docs

199
docs citations

199
times ranked

20262
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative DNA damage: mechanisms, mutation, and disease. <i>FASEB Journal</i> , 2003, 17, 1195-1214.	0.2	2,603
2	Linking uracil base excision repair and 5-fluorouracil toxicity in yeast. <i>Nucleic Acids Research</i> , 2006, 34, 140-151.	6.5	1,877
3	Oxidative DNA damage and disease: induction, repair and significance. <i>Mutation Research - Reviews in Mutation Research</i> , 2004, 567, 1-61.	2.4	1,102
4	Free radical-induced damage to DNA: mechanisms and measurement 1,2 1This article is part of a series of reviews on "Oxidative DNA Damage and Repair." The full list of papers may be found on the homepage of the journal. 2Guest Editor: Miral Dizdaroglu. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1102-1115.	1.3	814
5	Mechanistic studies of ionizing radiation and oxidative mutagenesis: genetic effects of a single 8-hydroxyguanine (7-hydro-8-oxoguanine) residue inserted at a unique site in a viral genome. <i>Biochemistry</i> , 1990, 29, 7024-7032.	1.2	735
6	Substrate specificity of the Escherichia coli Fpg protein formamidopyrimidine-DNA glycosylase: excision of purine lesions in DNA produced by ionizing radiation or photosensitization. <i>Biochemistry</i> , 1992, 31, 106-110.	1.2	613
7	Mechanisms of free radical-induced damage to DNA. <i>Free Radical Research</i> , 2012, 46, 382-419.	1.5	543
8	Oxidative damage to DNA in mammalian chromatin. <i>Mutation Research - DNAging</i> , 1992, 275, 331-342.	3.3	488
9	Chemical determination of free radical-induced damage to DNA. <i>Free Radical Biology and Medicine</i> , 1991, 10, 225-242.	1.3	477
10	Identification and characterization of a human DNA glycosylase for repair of modified bases in oxidatively damaged DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3523-3528.	3.3	459
11	Copper Oxide Nanoparticle Mediated DNA Damage in Terrestrial Plant Models. <i>Environmental Science & Technology</i> , 2012, 46, 1819-1827.	4.6	424
12	Substrate specificity of the Escherichia coli endonuclease III: Excision of thymine- and cytosine-derived lesions in DNA produced by radiation-generated free radicals. <i>Biochemistry</i> , 1993, 32, 12105-12111.	1.2	288
13	Modification of DNA bases in mammalian chromatin by radiation-generated free radicals. <i>Biochemistry</i> , 1990, 29, 7876-7882.	1.2	272
14	DNA base modifications in chromatin of human cancerous tissues. <i>FEBS Letters</i> , 1992, 309, 193-198.	1.3	245
15	Damage, Repair, and Mutagenesis in Nuclear Genes after Mouse Forebrain Ischemia "Reperfusion. <i>Journal of Neuroscience</i> , 1996, 16, 6795-6806.	1.7	234
16	Formation of 8-hydroxyguanine moiety in deoxyribonucleic acid on .gamma.-irradiation in aqueous solution. <i>Biochemistry</i> , 1985, 24, 4476-4481.	1.2	229
17	New functions of XPC in the protection of human skin cells from oxidative damage. <i>EMBO Journal</i> , 2006, 25, 4305-4315.	3.5	227
18	Oxidatively induced DNA damage: Mechanisms, repair and disease. <i>Cancer Letters</i> , 2012, 327, 26-47.	3.2	223

#	ARTICLE	IF	CITATIONS
19	Commentary the Measurement of Oxidative Damage to DNA by HPLC and GC/MS Techniques. Free Radical Research Communications, 1992, 16, 75-87.	1.8	213
20	Oxidative DNA base damage and antioxidant enzyme activities in human lung cancer. FEBS Letters, 1994, 341, 59-64.	1.3	206
21	Regulation of reactive oxygen species, DNA damage and c-Myc function by peroxiredoxin 1. Oncogene, 2005, 24, 8038-8050.	2.6	205
22	[1] Chemical determination of oxidative DNA damage by gas chromatography-mass spectrometry. Methods in Enzymology, 1994, 234, 3-16.	0.4	194
23	Î²-d-glucosyl-hydroxymethyluracil: A novel modified base present in the DNA of the parasitic protozoan T. brucei. Cell, 1993, 75, 1129-1136.	13.5	191
24	Oxidatively induced DNA damage and its repair in cancer. Mutation Research - Reviews in Mutation Research, 2015, 763, 212-245.	2.4	191
25	DNA base modifications in renal chromatin of wistar rats treated with a renal carcinogen, ferric nitrilotriacetate. International Journal of Cancer, 1994, 57, 123-128.	2.3	174
26	Repair of Formamidopyrimidines in DNA Involves Different Glycosylases. Journal of Biological Chemistry, 2005, 280, 40544-40551.	1.6	174
27	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.	3.3	169
28	Strand breaks and sugar release by .gamma.-irradiation of DNA in aqueous solution. Journal of the American Chemical Society, 1975, 97, 2277-2278.	6.6	164
29	Characterization of free radical-induced base damage in DNA at biologically relevant levels. Analytical Biochemistry, 1986, 156, 182-188.	1.1	163
30	Base-excision repair of oxidative DNA damage by DNA glycosylases. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 591, 45-59.	0.4	159
31	Application of capillary gas chromatography-mass spectrometry to chemical characterization of radiation-induced base damage of DNA: Implications for assessing DNA repair processes. Analytical Biochemistry, 1985, 144, 593-603.	1.1	156
32	Primary fibroblasts of Cockayne syndrome patients are defective in cellular repair of 8-hydroxyguanine and 8-hydroxyadenine resulting from oxidative stress. FASEB Journal, 2003, 17, 668-674.	0.2	140
33	The Cockayne Syndrome Group B Gene Product Is Involved in General Genome Base Excision Repair of 8-Hydroxyguanine in DNA. Journal of Biological Chemistry, 2001, 276, 45772-45779.	1.6	138
34	Polyamines stimulate the formation of mutagenic 1,N2-propanodeoxyguanosine adducts from acetaldehyde. Nucleic Acids Research, 2005, 33, 3513-3520.	6.5	128
35	Chemical nature of in vivo DNA base damage in hydrogen peroxide-treated mammalian cells. Archives of Biochemistry and Biophysics, 1991, 285, 388-390.	1.4	123
36	Hydrogen Peroxide-Induced Base Damage in Deoxyribonucleic Acid. Radiation Research, 1990, 121, 338.	0.7	119

#	ARTICLE	IF	CITATIONS
37	Monomeric Base Damage Products from Guanine, Adenine, and Thymine Induced by Exposure of DNA to Ultraviolet Radiation. <i>Biochemistry</i> , 1995, 34, 737-742.	1.2	119
38	Ni(II) Specifically Cleaves the C-Terminal Tail of the Major Variant of Histone H2A and Forms an Oxidative Damage-Mediating Complex with the Cleaved-Off Octapeptide. <i>Chemical Research in Toxicology</i> , 2000, 13, 616-624.	1.7	119
39	Hydroxyl radical is a significant player in oxidative DNA damage <i>in vivo</i> . <i>Chemical Society Reviews</i> , 2021, 50, 8355-8360.	18.7	114
40	<i>Saccharomyces cerevisiae</i> Ntg1p and Ntg2p: A Broad Specificity N-Glycosylases for the Repair of Oxidative DNA Damage in the Nucleus and Mitochondria. <i>Biochemistry</i> , 1999, 38, 11298-11306.	1.2	110
41	Measurement of 8-hydroxy-2'-deoxyguanosine in DNA by high-performance liquid chromatography-mass spectrometry: comparison with measurement by gas chromatography-mass spectrometry. <i>Nucleic Acids Research</i> , 2001, 29, 12e-12.	6.5	109
42	8,5- ϵ -Cyclopurine-2- ϵ -deoxynucleosides in DNA: Mechanisms of formation, measurement, repair and biological effects. <i>DNA Repair</i> , 2008, 7, 1413-1425.	1.3	104
43	Chemical nature of DNA-protein cross-links produced in mammalian chromatin by hydrogen peroxide in the presence of iron or copper ions. <i>Biochemistry</i> , 1991, 30, 4873-4879.	1.2	103
44	The use of capillary gas chromatography-mass spectrometry for identification of radiation-induced DNA base damage and DNA base- ϵ -amino acid cross-links. <i>Journal of Chromatography A</i> , 1984, 295, 103-121.	1.8	102
45	Formamidopyrimidines in DNA: Mechanisms of formation, repair, and biological effects. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1610-1621.	1.3	102
46	Targeted deletion of the genes encoding NTH1 and NEIL1 DNA N-glycosylases reveals the existence of novel carcinogenic oxidative damage to DNA. <i>DNA Repair</i> , 2009, 8, 786-794.	1.3	101
47	Structure of a hydroxyl radical-induced DNA-protein crosslink involving thymine and tyrosine in nucleohistone. <i>Biochemistry</i> , 1989, 28, 3625-3628.	1.2	100
48	Oxidative DNA base damage and antioxidant enzyme levels in childhood acute lymphoblastic leukemia. <i>FEBS Letters</i> , 1997, 416, 286-290.	1.3	97
49	Excision of Products of Oxidative DNA Base Damage by Human NTH1 Protein. <i>Biochemistry</i> , 1999, 38, 243-246.	1.2	97
50	DNA Base Damage in Chromatin of β -Irradiated Cultured Human Cells. <i>Free Radical Research Communications</i> , 1992, 16, 259-273.	1.8	96
51	Novel Substrates of <i>Escherichia coli</i> Nth Protein and Its Kinetics for Excision of Modified Bases from DNA Damaged by Free Radicals. <i>Biochemistry</i> , 2000, 39, 5586-5592.	1.2	95
52	Cockayne Syndrome Group B Protein Stimulates Repair of Formamidopyrimidines by NEIL1 DNA Glycosylase. <i>Journal of Biological Chemistry</i> , 2009, 284, 9270-9279.	1.6	92
53	Effect of DNA Conformation on the Hydroxyl Radical-induced Formation of 8,5- ϵ -cyclopurine 2- ϵ -deoxyribonucleoside Residues in DNA. <i>International Journal of Radiation Biology</i> , 1988, 54, 195-204.	1.0	91
54	Hydroxyl radical induced cross-linking of cytosine and tyrosine in nucleohistone. <i>Biochemistry</i> , 1990, 29, 977-980.	1.2	89

#	ARTICLE	IF	CITATIONS
55	Nickel(II)-mediated oxidative DNA base damage in renal and hepatic chromatin of pregnant rats and their fetuses. Possible relevance to carcinogenesis. <i>Chemical Research in Toxicology</i> , 1992, 5, 809-815.	1.7	89
56	Mouse NEIL1 Protein Is Specific for Excision of 2,6-Diamino-4-hydroxy-5-formamidopyrimidine and 4,6-Diamino-5-formamidopyrimidine from Oxidatively Damaged DNA. <i>Biochemistry</i> , 2004, 43, 15909-15914.	1.2	89
57	The Cockayne Syndrome Group B Gene Product Is Involved in Cellular Repair of 8-Hydroxyadenine in DNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 30832-30837.	1.6	88
58	Mass Spectrometric Assays for the Tandem Lesion 8,5- ϵ -Cyclo-2 ϵ -deoxyguanosine in Mammalian DNA. <i>Biochemistry</i> , 2002, 41, 3703-3711.	1.2	88
59	Characterization of a Novel 8-Oxoguanine-DNA Glycosylase Activity in <i>Escherichia coli</i> and Identification of the Enzyme as Endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2000, 275, 27762-27767.	1.6	87
60	Treatment of wistar rats with a renal carcinogen, ferric nitrilotriacetate, causes dna-protein cross-linking between thymine and tyrosine in their renal chromatin. <i>International Journal of Cancer</i> , 1995, 62, 309-313.	2.3	85
61	DNA Base Damage by the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). <i>Journal of the American Chemical Society</i> , 2003, 125, 11607-11615.	6.6	85
62	Facts about the artifacts in the measurement of oxidative DNA base damage by gas chromatography-mass spectrometry. <i>Free Radical Research</i> , 1998, 29, 551-563.	1.5	83
63	Cellular repair of oxidatively induced DNA base lesions is defective in prostate cancer cell lines, PC-3 and DU-145. <i>Carcinogenesis</i> , 2004, 25, 1359-1370.	1.3	82
64	Formation of DNA-protein cross-links in cultured mammalian cells upon treatment with iron ions. <i>Free Radical Biology and Medicine</i> , 1995, 19, 897-902.	1.3	81
65	Identification and quantification of 8,5- ϵ -cyclo-2 ϵ -deoxy-adenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001, 30, 774-784.	1.3	79
66	Characterization and Mechanism of Action of <i>Drosophila</i> Ribosomal Protein S3 DNA Glycosylase Activity for the Removal of Oxidatively Damaged DNA Bases. <i>Journal of Biological Chemistry</i> , 1997, 272, 32857-32860.	1.6	77
67	Oxidized guanine lesions and hOgg1 activity in lung cancer. <i>Oncogene</i> , 2005, 24, 4496-4508.	2.6	76
68	Substrate specificities and excision kinetics of DNA glycosylases involved in base-excision repair of oxidative DNA damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 531, 109-126.	0.4	72
69	Small Molecule Inhibitors of 8-Oxoguanine DNA Glycosylase-1 (OGG1). <i>ACS Chemical Biology</i> , 2015, 10, 2334-2343.	1.6	72
70	Repair of oxidatively induced DNA damage by DNA glycosylases: Mechanisms of action, substrate specificities and excision kinetics. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 771, 99-127.	2.4	72
71	Enhancement by L-histidine of nickel(II)-induced DNA-protein cross-linking and oxidative DNA base damage in the rat kidney. <i>Chemical Research in Toxicology</i> , 1993, 6, 33-37.	1.7	71
72	Human Polymorphic Variants of the NEIL1 DNA Glycosylase. <i>Journal of Biological Chemistry</i> , 2007, 282, 15790-15798.	1.6	70

#	ARTICLE	IF	CITATIONS
73	Accumulation of (5 ³ S)-8,5 ³ -cyclo-2 ³ -deoxyadenosine in organs of Cockayne syndrome complementation group B gene knockout mice. <i>DNA Repair</i> , 2009, 8, 274-278.	1.3	66
74	Measurement of oxidatively induced DNA damage and its repair, by mass spectrometric techniques. <i>Free Radical Research</i> , 2015, 49, 525-548.	1.5	66
75	tert.-Butyl hydroperoxide-mediated DNA base damage in cultured mammalian cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1994, 306, 35-44.	0.4	65
76	Complete release of (5 ³ S)-8,5 ³ -cyclo-2 ³ -deoxyadenosine from dinucleotides, oligodeoxynucleotides and DNA, and direct comparison of its levels in cellular DNA with other oxidatively induced DNA lesions. <i>Nucleic Acids Research</i> , 2004, 32, e87-e87.	6.5	65
77	DNA base modifications and antioxidant enzyme activities in human benign prostatic hyperplasia. <i>Free Radical Biology and Medicine</i> , 1995, 18, 807-813.	1.3	64
78	DNA base modifications and membrane damage in cultured mammalian cells treated with iron ions. <i>Free Radical Biology and Medicine</i> , 1995, 18, 1013-1022.	1.3	64
79	Structure of a hydroxyl radical induced cross-link of thymine and tyrosine. <i>Biochemistry</i> , 1988, 27, 6353-6359.	1.2	59
80	A Major Role for Nonenzymatic Antioxidant Processes in the Radioresistance of <i>Halobacterium salinarum</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1653-1662.	1.0	59
81	[55] Selected-ion mass spectrometry: Assays of oxidative DNA damage. <i>Methods in Enzymology</i> , 1990, 186, 530-544.	0.4	57
82	Structure of Hydroxyl Radical-induced DNA-protein Crosslinks in Calf Thymus Nucleohistone <i>in Vitro</i> . <i>International Journal of Radiation Biology</i> , 1988, 54, 445-459.	1.0	56
83	DNA-protein cross-linking between thymine and tyrosine in chromatin of ¹³ Irradiated or H ₂ O ₂ -treated cultured human cells. <i>Archives of Biochemistry and Biophysics</i> , 1992, 297, 139-143.	1.4	53
84	The effect of experimental conditions on the levels of oxidatively modified bases in DNA as measured by gas chromatography-mass spectrometry. <i>Free Radical Biology and Medicine</i> , 1999, 27, 370-380.	1.3	53
85	Measurement of oxidatively induced base lesions in liver from Wistar rats of different ages. <i>Free Radical Biology and Medicine</i> , 1999, 27, 456-462.	1.3	52
86	Lymphoblasts of Women with BRCA1 Mutations Are Deficient in Cellular Repair of 8,5 ³ -Cyclopurine-2 ³ -deoxynucleosides and 8-Hydroxy-2 ³ -deoxyguanosine. <i>Biochemistry</i> , 2007, 46, 2488-2496.	1.2	52
87	Accumulation of Oxidatively Induced DNA Damage in Human Breast Cancer Cell Lines Following Treatment with Hydrogen Peroxide. <i>Cell Cycle</i> , 2007, 6, 1471-1477.	1.3	50
88	Measurement of formamidopyrimidines in DNA. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1601-1609.	1.3	50
89	Evidence for the Involvement of DNA Repair Enzyme NEIL1 in Nucleotide Excision Repair of (5 ³ R)- and (5 ³ S)-8,5 ³ -Cyclo-2 ³ -deoxyadenosines. <i>Biochemistry</i> , 2010, 49, 1053-1055.	1.2	50
90	Radiation Chemistry of Carbohydrates, VI: ¹³ Radiolysis of Glucose in Deoxygenated N ₂ O Saturated Aqueous Solution. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1975, 30, 416-425.	0.3	49

#	ARTICLE	IF	CITATIONS
91	Oxidative DNA Base Damage in Renal, Hepatic, and Pulmonary Chromatin of Rats after Intraperitoneal Injection of Cobalt(II) Acetate. <i>Chemical Research in Toxicology</i> , 1994, 7, 329-335.	1.7	49
92	Bisphenol A Promotes Cell Survival Following Oxidative DNA Damage in Mouse Fibroblasts. <i>PLoS ONE</i> , 2015, 10, e0118819.	1.1	49
93	Characterization of free radical-induced damage to DNA by the combined use of enzymatic hydrolysis and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 1986, 367, 357-366.	1.8	46
94	DNA base modifications induced in isolated human chromatin by NADH dehydrogenase-catalyzed reduction of doxorubicin. <i>Biochemistry</i> , 1992, 31, 3500-3506.	1.2	46
95	Substrate Specificity of <i>Schizosaccharomyces pombe</i> Nth Protein for Products of Oxidative DNA Damage. <i>Biochemistry</i> , 1998, 37, 590-595.	1.2	46
96	Repair of oxidative DNA base lesions induced by fluorescent light is defective in xeroderma pigmentosum group A cells. <i>Nucleic Acids Research</i> , 1999, 27, 3153-3158.	6.5	46
97	Substrate Specificity and Excision Kinetics of <i>Escherichia coli</i> Endonuclease VIII (Ner) for Modified Bases in DNA Damaged by Free Radicals. <i>Biochemistry</i> , 2001, 40, 12150-12156.	1.2	46
98	Structural and biochemical studies of a plant formamidopyrimidine-DNA glycosylase reveal why eukaryotic Fpg glycosylases do not excise 8-oxoguanine. <i>DNA Repair</i> , 2012, 11, 714-725.	1.3	46
99	$\hat{3}$ -Radiolyses of DNA in Oxygenated Aqueous Solution. Structure of an Alkali-Labile Site. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1977, 32, 1021-1022.	0.6	45
100	Oxidative DNA damage in polymorphonuclear leukocytes of patients with familial Mediterranean fever. <i>Free Radical Biology and Medicine</i> , 2008, 44, 386-393.	1.3	45
101	Radiation Chemistry of DNA, II. Strand Breaks and Sugar Release by $\hat{3}$ -Irradiation of DNA in Aqueous Solution. The Effect of Oxygen. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1975, 30, 826-828.	0.6	44
102	Isolation of 2-deoxy-erythro-pentonic Acid from an Alkali-labile Site in $\hat{3}$ -irradiated DNA. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1977, 32, 481-483.	1.0	44
103	Determination of Active Site Residues in <i>Escherichia coli</i> Endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2002, 277, 2938-2944.	1.6	43
104	The oxidative DNA glycosylases of <i>Mycobacterium tuberculosis</i> exhibit different substrate preferences from their <i>Escherichia coli</i> counterparts. <i>DNA Repair</i> , 2010, 9, 177-190.	1.3	43
105	Radiation-induced DNA Strand Breaks in Deoxygenated Aqueous Solutions. The Formation of Altered Sugars as End Groups. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1979, 36, 565-576.	1.0	41
106	A novel activity of <i>E. coli</i> uracil DNA-glycosylase excision of isodialuric acid (5,6-dihydroxyuracil), a major product of oxidative DNA damage, from DNA. <i>FEBS Letters</i> , 1995, 364, 255-258.	1.3	41
107	Substrate specificity and excision kinetics of natural polymorphic variants and phosphomimetic mutants of human 8-oxoguanine DNA glycosylase. <i>FEBS Journal</i> , 2009, 276, 5149-5162.	2.2	41
108	Molecular Analysis of Base Damage Clustering Associated with a Site-Specific Radiation-Induced DNA Double-Strand Break. <i>Radiation Research</i> , 2006, 166, 767-781.	0.7	40

#	ARTICLE	IF	CITATIONS
109	The mass spectra of TMS-ethers of deuterated polyalcohols. A contribution to the structural investigation of sugars. <i>Organic Mass Spectrometry</i> , 1974, 8, 335-345.	1.3	39
110	[46] Gas chromatography-mass spectrometry of free radical-induced products of pyrimidines and purines in DNA. <i>Methods in Enzymology</i> , 1990, 193, 842-857.	0.4	39
111	<i>Arabidopsis thaliana</i> Ogg1 Protein Excises 8-Hydroxyguanine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from Oxidatively Damaged DNA Containing Multiple Lesions. <i>Biochemistry</i> , 2003, 42, 3089-3095.	1.2	38
112	Measurement of (5 ^R)- and (5 ^S)-8-cyclo-2-deoxyadenosines in DNA in vivo by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 656-660.	1.0	38
113	Radiation Chemistry of Carbohydrates, VIII. ¹³ -Radiolysis of Cellobiose in N ₂ O-saturated Aqueous Solution. Part II. Quantitative Measurements. Mechanisms of the Radical-induced Scission of the Glycosidic Linkage. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976, 31, 857-864.	0.3	37
114	Formation of radiation-induced crosslinks between thymine and tyrosine: possible model for crosslinking of DNA and proteins by ionizing radiation. <i>Biochemistry</i> , 1985, 24, 233-236.	1.2	37
115	Measurement of 8-hydroxy-2-deoxyadenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001, 31, 336-344.	1.3	37
116	DNA Damage Products (5 ^R)- and (5 ^S)-8-Cyclo-2-deoxyadenosines as Potential Biomarkers in Human Urine for Atherosclerosis. <i>Biochemistry</i> , 2012, 51, 1822-1824.	1.2	37
117	Base modifications in plasmid DNA caused by potassium permanganate. <i>Archives of Biochemistry and Biophysics</i> , 1990, 282, 202-205.	1.4	36
118	A novel DNA N-glycosylase activity of <i>E. coli</i> T4 endonuclease V that excises 4,6-diamino-5-formamidopyrimidine from DNA, a UV-radiation- and hydroxyl radical-induced product of adenine. <i>Mutation Research DNA Repair</i> , 1996, 362, 1-8.	3.8	36
119	The reactions of OH radicals with D-ribose in deoxygenated and oxygenated aqueous solution. <i>Carbohydrate Research</i> , 1977, 58, 21-30.	1.1	35
120	Separation of small DNA and RNA oligonucleotides by high-performance anion-exchange liquid chromatography. <i>Journal of Chromatography A</i> , 1979, 171, 321-330.	1.8	35
121	Intramolecular H Atom Abstraction from the Sugar Moiety by Thymine Radicals in Oligo- and Polydeoxynucleotides. <i>Radiation Research</i> , 1988, 116, 210.	0.7	35
122	Inhibition of DNA Glycosylases via Small Molecule Purine Analogs. <i>PLoS ONE</i> , 2013, 8, e81667.	1.1	35
123	Radiation Chemistry of DNA Model Compounds, IX. Carbohydrate Products in the ¹³ -Radiolysis of Thymidine in Aqueous Solution. The Radical-Induced Scission of the N-Glycosidic Bond. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976, 31, 227-233.	0.3	34
124	Radiation-Induced Crosslinking of Cytosine. <i>Radiation Research</i> , 1984, 100, 41.	0.7	34
125	Plant and fungal Fpg homologs are formamidopyrimidine DNA glycosylases but not 8-oxoguanine DNA glycosylases. <i>DNA Repair</i> , 2009, 8, 643-653.	1.3	33
126	Elevated urinary levels of 8-oxo-2-deoxyguanosine, (5 ^R)- and (5 ^S)-8-cyclo-2-deoxyadenosines, and 8-iso-prostaglandin F _{2α} as potential biomarkers of oxidative stress in patients with prediabetes. <i>DNA Repair</i> , 2016, 48, 1-7.	1.3	33

#	ARTICLE	IF	CITATIONS
127	Mutation of potassium permanganate- and hydrogen peroxide-treated plasmid pZ189 replicating in CV-1 monkey kidney cells. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1991, 261, 123-130.	1.2	32
128	Oxidative Changes in the DNA of Stroma and Epithelium from the Female Breast: Potential Implications for Breast Cancer. Cell Cycle, 2006, 5, 1629-1632.	1.3	32
129	Biomarkers Signal Contaminant Effects on the Organs of English Sole (<i>Parophrys vetulus</i>) from Puget Sound. Environmental Health Perspectives, 2006, 114, 823-829.	2.8	32
130	Protective Roles of Single-Wall Carbon Nanotubes in Ultrasonication-Induced DNA Base Damage. Small, 2013, 9, 205-208.	5.2	32
131	Strahlenchemie von Kohlenhydraten, IV. \hat{I}^3 -Radiolyse von Cellobiose in N ₂ O-gesättigter wässriger Lösung / \hat{I}^3 -Radiolysis of Cellobiose in N ₂ O Saturated Aqueous Solution. Zeitschrift Für Naturforschung - Section B Journal of Chemical Sciences, 1973, 28, 635-646.	0.3	31
132	Radiolytic Studies of the Cumyloxy Radical in Aqueous Solutions. Israel Journal of Chemistry, 1984, 24, 25-28.	1.0	31
133	DNA base damage in lymphocytes of cancer patients undergoing radiation therapy. Cancer Letters, 1996, 106, 207-215.	3.2	31
134	Weak anion-exchange high-performance liquid chromatography of peptides. Journal of Chromatography A, 1985, 334, 49-69.	1.8	30
135	Aflatoxin-Guanine DNA Adducts and Oxidatively Induced DNA Damage in Aflatoxin-Treated Mice <i>in Vivo</i> as Measured by Liquid Chromatography-Tandem Mass Spectrometry with Isotope Dilution. Chemical Research in Toxicology, 2019, 32, 80-89.	1.7	30
136	Structural Alterations in Breast Stromal and Epithelial DNA: The Influence of 8,5-cyclo-2-Deoxyadenosine. Cell Cycle, 2006, 5, 1240-1244.	1.3	29
137	Addiction to MTH1 protein results in intense expression in human breast cancer tissue as measured by liquid chromatography-isotope-dilution tandem mass spectrometry. DNA Repair, 2015, 33, 101-110.	1.3	29
138	Separation of underivatized dipeptides by high-performance liquid chromatography on a weak anion-exchange bonded phase. Journal of Chromatography A, 1980, 195, 119-126.	1.8	28
139	Substrate Specificity of <i>Deinococcus radiodurans</i> Fpg Protein. Biochemistry, 1999, 38, 9435-9439.	1.2	28
140	Reduced repair of 8-hydroxyguanine in the human breast cancer cell line, HCC1937. BMC Cancer, 2006, 6, 297.	1.1	28
141	Identification and quantification of (5 \hat{R})- and (5 \hat{S})-8,5-cyclo-2-deoxyadenosines in human urine as putative biomarkers of oxidatively induced damage to DNA. Biochemical and Biophysical Research Communications, 2010, 397, 48-52.	1.0	28
142	Extreme Expression of DNA Repair Protein Apurinic/Apyrimidinic Endonuclease 1 (APE1) in Human Breast Cancer As Measured by Liquid Chromatography and Isotope Dilution Tandem Mass Spectrometry. Biochemistry, 2015, 54, 5787-5790.	1.2	27
143	Copper ion-mediated modification of bases in DNA <i>in vitro</i> by benzoyl peroxide. Carcinogenesis, 1993, 14, 1971-1974.	1.3	26
144	The oxidatively induced DNA lesions 8,5-cyclo-2-deoxyadenosine and 8-hydroxy-2-deoxyadenosine are strongly resistant to acid-induced hydrolysis of the glycosidic bond. Mechanisms of Ageing and Development, 2007, 128, 494-502.	2.2	26

#	ARTICLE	IF	CITATIONS
145	Conversion of d-fructose into 6-deoxy-d-threo-2,5-hexudiulose by \hat{I}^3 -irradiation: a chain reaction in the crystalline state. Carbohydrate Research, 1976, 47, 15-23.	1.1	25
146	Separation of peptides by high-performance liquid chromatography on a weak anion-exchange bonded phase. Journal of Chromatography A, 1982, 237, 417-428.	1.8	25
147	Glutathione Depletion by Buthionine Sulfoximine Induces Oxidative Damage to DNA in Organs of Rabbits in Vivo. Biochemistry, 2009, 48, 4980-4987.	1.2	25
148	Oxidatively-induced DNA damage and base excision repair in euthymic patients with bipolar disorder. DNA Repair, 2018, 65, 64-72.	1.3	24
149	Implications of DNA damage and DNA repair on human diseases. Mutagenesis, 2020, 35, 1-3.	1.0	24
150	Evidence for upregulated repair of oxidatively induced DNA damage in human colorectal cancer. DNA Repair, 2011, 10, 1114-1120.	1.3	23
151	Accumulation of oxidatively induced DNA damage in human breast cancer cell lines following treatment with hydrogen peroxide. Cell Cycle, 2007, 6, 1472-8.	1.3	23
152	Separation of the sequence isomers of pyrimidine deoxytetranucleoside triphosphates by high-performance ion-exchange liquid chromatography. Journal of Chromatography A, 1979, 169, 429-435.	1.8	22
153	Separation and sequencing of the sequence isomers of pyrimidine deoxypentanucleoside tetraphosphates by high-performance liquid chromatography. Journal of Chromatography A, 1980, 188, 273-279.	1.8	22
154	Identification and Quantification of Human DNA Repair Protein NEIL1 by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry. Journal of Proteome Research, 2013, 12, 1049-1061.	1.8	22
155	Identification and Quantification of DNA Repair Protein Apurinic/Apyrimidinic Endonuclease 1 (APE1) in Human Cells by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry. PLoS ONE, 2013, 8, e69894.	1.1	22
156	Biomarkers of oxidatively induced DNA damage in dreissenid mussels: A genotoxicity assessment tool for the Laurentian Great Lakes. Environmental Toxicology, 2017, 32, 2144-2153.	2.1	22
157	Chlorella Virus Pyrimidine Dimer Glycosylase Excises Ultraviolet Radiation- and Hydroxyl Radical-induced Products 4,6-Diamino-5-formamidopyrimidine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from DNA. Photochemistry and Photobiology, 2002, 75, 85.	1.3	22
158	Overexpression and rapid purification of Escherichia coli formamidopyrimidine-DNA glycosylase. Protein Expression and Purification, 2004, 34, 126-133.	0.6	21
159	Combined Effects of High-Dose Bisphenol A and Oxidizing Agent (KBrO ₃) on Cellular Microenvironment, Gene Expression, and Chromatin Structure of Ku70-deficient Mouse Embryonic Fibroblasts. Environmental Health Perspectives, 2016, 124, 1241-1252.	2.8	20
160	Recognition of DNA adducts by edited and unedited forms of DNA glycosylase NEIL1. DNA Repair, 2020, 85, 102741.	1.3	20
161	\hat{I}^3 -Irradiation-induced ring-opening of polycrystalline cycloamylose hydrates. Carbohydrate Research, 1976, 49, 315-323.	1.1	19
162	Identification and Quantification of DNA Repair Proteins by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry Using Their Fully ¹⁵ N-Labeled Analogues as Internal Standards. Journal of Proteome Research, 2011, 10, 3802-3813.	1.8	19

#	ARTICLE	IF	CITATIONS
163	Stable isotope-labeling of DNA repair proteins, and their purification and characterization. <i>Protein Expression and Purification</i> , 2011, 78, 94-101.	0.6	19
164	RNA oxidation catalyzed by cytochrome c leads to its depurination and cross-linking, which may facilitate cytochrome c release from mitochondria. <i>Free Radical Biology and Medicine</i> , 2012, 53, 854-862.	1.3	18
165	Mass spectra of trimethylsilyl Di-O-methyloximes of aldoses and dialdoses. <i>Organic Mass Spectrometry</i> , 1977, 12, 772-776.	1.3	17
166	Kovacs' indices of trimethylsilylated amino acids on fused-silica capillary columns. <i>Journal of Chromatography A</i> , 1982, 249, 41-55.	1.8	16
167	INDUCTION OF OXIDATIVE DNA DAMAGE IN U937 CELLS BY TNF OR ANTI-FAS STIMULATION. <i>Cytokine</i> , 2000, 12, 881-887.	1.4	16
168	Assignment of enzyme substrate specificity by principal component analysis of aligned protein sequences: An experimental test using DNA glycosylase homologs. , 2000, 40, 98-105.		15
169	Heavy ion space radiation triggers ongoing DNA base damage by downregulating DNA repair pathways. <i>Life Sciences in Space Research</i> , 2020, 27, 27-32.	1.2	13
170	Separation of diastereomers and analogues of neurotensin by anion-exchange high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1982, 245, 158-162.	1.8	11
171	Effect of single mutations on the specificity of Escherichia coli FPG protein for excision of purine lesions from DNA damaged by free radicals. <i>Free Radical Biology and Medicine</i> , 2001, 31, 816-823.	1.3	11
172	Introduction to serial reviews on oxidative DNA damage and repair1 This article is part of a series of reviews on "Oxidative DNA Damage and Repair." The full list of papers may be found on the homepage of the journal.. <i>Free Radical Biology and Medicine</i> , 2002, 32, 677.	1.3	11
173	Stoichiometric preference in copper-promoted oxidative DNA damage by ochratoxin A. <i>Journal of Inorganic Biochemistry</i> , 2003, 95, 87-96.	1.5	11
174	Enhanced sensitivity of Neil1 ^{-/-} mice to chronic UVB exposure. <i>DNA Repair</i> , 2016, 48, 43-50.	1.3	11
175	Separation of dipeptides by high-resolution gas chromatography on a fused silica capillary column after trimethylsilylation. <i>Analytical Biochemistry</i> , 1980, 108, 269-273.	1.1	10
176	Comparison of reversed-phase and weak anion-exchange high-performance liquid chromatographic methods for peptide separations. <i>Journal of Chromatography A</i> , 1983, 264, 223-229.	1.8	10
177	Significant disparity in base and sugar damage in DNA resulting from neutron and electron irradiation. <i>Journal of Radiation Research</i> , 2014, 55, 1081-1088.	0.8	10
178	Separation of angiotensins by high-performance liquid chromatography on a weak anion-exchange bonded phase. <i>Analytical Biochemistry</i> , 1982, 123, 190-193.	1.1	9
179	Separation of dipeptide diastereomers by high-resolution gas chromatography. <i>Journal of Chromatography A</i> , 1982, 244, 293-298.	1.8	9
180	Characterization of rare NEIL1 variants found in East Asian populations. <i>DNA Repair</i> , 2019, 79, 32-39.	1.3	9

#	ARTICLE	IF	CITATIONS
181	Measurement of DNA Biomarkers for the Safety of Tissue-Engineered Medical Products, Using Artificial Skin as a Model. <i>Tissue Engineering</i> , 2004, 10, 1332-1345.	4.9	8
182	Clemens von Sonntag and the early history of radiation-induced sugar damage in DNA. <i>International Journal of Radiation Biology</i> , 2014, 90, 446-458.	1.0	8
183	Production, Purification, and Characterization of 15N-Labeled DNA Repair Proteins as Internal Standards for Mass Spectrometric Measurements. <i>Methods in Enzymology</i> , 2016, 566, 305-332.	0.4	8
184	Expression of a germline variant in the N-terminal domain of the human DNA glycosylase NTHL1 induces cellular transformation without impairing enzymatic function or substrate specificity. <i>Oncotarget</i> , 2020, 11, 2262-2272.	0.8	6
185	Measurement of Oxidatively Induced DNA Damage in <i>Caenorhabditis elegans</i> with High-Salt DNA Extraction and Isotope-Dilution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 12149-12155.	3.2	5
186	Ne-22 Ion-Beam Radiation Damage to DNA: From Initial Free Radical Formation to Resulting DNA-Base Damage. <i>ACS Omega</i> , 2021, 6, 16600-16611.	1.6	5
187	Separation and purification of diastereomers of angiotensin I by weak anion-exchange high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1985, 322, 117-128.	1.8	4
188	Identification and quantification of DNA repair protein poly(ADP ribose) polymerase 1 (PARP1) in human tissues and cultured cells by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2019, 75, 48-59.	1.3	4
189	Excision release of 5-hydroxycytosine oxidatively induced DNA base lesions from the lung genome by cat dander extract challenge stimulates allergic airway inflammation. <i>Clinical and Experimental Allergy</i> , 2018, 48, 1676-1687.	1.4	3
190	Inhibition by Tetrahydroquinoline Sulfonamide Derivatives of the Activity of Human 8-Oxoguanine DNA Glycosylase (OGG1) for Several Products of Oxidatively induced DNA Base Lesions. <i>ACS Chemical Biology</i> , 2021, 16, 45-51.	1.6	3
191	DNA glycosylase deficiency leads to decreased severity of lupus in the Polb-Y265C mouse model. <i>DNA Repair</i> , 2021, 105, 103152.	1.3	3
192	Polymorphic variant Asp239Tyr of human DNA glycosylase NTHL1 is inactive for removal of a variety of oxidatively-induced DNA base lesions from genomic DNA. <i>DNA Repair</i> , 2022, 117, 103372.	1.3	3
193	Separation of sequence isomeric dipeptides by high-resolution gas chromatography. <i>Journal of Chromatography A</i> , 1985, 318, 384-386.	1.8	1
194	Measurement of Oxidative DNA Damage by Gas Chromatography-Mass Spectrometry and Liquid Chromatography-Mass Spectrometry. , 0, , 39-51.		0
195	Chlorella Virus Pyrimidine Dimer Glycosylase Excises Ultraviolet Radiation- and Hydroxyl Radical-induced Products 4,6-Diamino-5-formamidopyrimidine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from DNA. <i>Photochemistry and Photobiology</i> , 2002, 75, 85-91.	1.3	0
196	Measurement of DNA Biomarkers for the Safety of Tissue-Engineered Medical Products, Using Artificial Skin as a Model. <i>Tissue Engineering</i> , 2004, 10, 1332-1345.	4.9	0