

Miral Dizdaroglu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7316053/miral-dizdaroglu-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

194
papers

18,739
citations

67
h-index

134
g-index

199
ext. papers

19,827
ext. citations

5.5
avg, IF

6.76
L-index

#	Paper	IF	Citations
194	Oxidative DNA damage: mechanisms, mutation, and disease. <i>FASEB Journal</i> , 2003 , 17, 1195-214	0.9	2205
193	Linking uracil base excision repair and 5-fluorouracil toxicity in yeast. <i>Nucleic Acids Research</i> , 2006 , 34, 140-51	20.1	1531
192	Oxidative DNA damage and disease: induction, repair and significance. <i>Mutation Research - Reviews in Mutation Research</i> , 2004 , 567, 1-61	7	930
191	Free radical-induced damage to DNA: mechanisms and measurement. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 1102-15	7.8	710
190	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, 7024-32	3.2	685
189	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, 106-10	3.2	577
188	Chemical determination of free radical-induced damage to DNA. <i>Free Radical Biology and Medicine</i> , 1991 , 10, 225-42	7.8	423
187	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, 3523-8	11.5	409
186	Mechanisms of free radical-induced damage to DNA. <i>Free Radical Research</i> , 2012 , 46, 382-419	4	407
185	Oxidative damage to DNA in mammalian chromatin. <i>Mutation Research - DNAGing</i> , 1992 , 275, 331-42		406
184	Copper oxide nanoparticle mediated DNA damage in terrestrial plant models. <i>Environmental Science & Technology</i> , 2012 , 46, 1819-27	10.3	356
183	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, 12105-11	3.2	266
182	Modification of DNA bases in mammalian chromatin by radiation-generated free radicals. <i>Biochemistry</i> , 1990 , 29, 7876-82	3.2	253
181	Formation of an 8-hydroxyguanine moiety in deoxyribonucleic acid on gamma-irradiation in aqueous solution. <i>Biochemistry</i> , 1985 , 24, 4476-81	3.2	215
180	Damage, repair, and mutagenesis in nuclear genes after mouse forebrain ischemia-reperfusion. <i>Journal of Neuroscience</i> , 1996 , 16, 6795-806	6.6	213
179	New functions of XPC in the protection of human skin cells from oxidative damage. <i>EMBO Journal</i> , 2006 , 25, 4305-15	13	204
178	DNA base modifications in chromatin of human cancerous tissues. <i>FEBS Letters</i> , 1992 , 309, 193-8	3.8	203

177	Oxidatively induced DNA damage: mechanisms, repair and disease. <i>Cancer Letters</i> , 2012 , 327, 26-47	9.9	186
176	Regulation of reactive oxygen species, DNA damage, and c-Myc function by peroxiredoxin 1. <i>Oncogene</i> , 2005 , 24, 8038-50	9.2	181
175	The measurement of oxidative damage to DNA by HPLC and GC/MS techniques. <i>Free Radical Research Communications</i> , 1992 , 16, 75-87		179
174	Oxidative DNA base damage and antioxidant enzyme activities in human lung cancer. <i>FEBS Letters</i> , 1994 , 341, 59-64	3.8	172
173	beta-D-glucosyl-hydroxymethyluracil: a novel modified base present in the DNA of the parasitic protozoan <i>T. brucei</i> . <i>Cell</i> , 1993 , 75, 1129-36	56.2	168
172	Chemical determination of oxidative DNA damage by gas chromatography-mass spectrometry. <i>Methods in Enzymology</i> , 1994 , 234, 3-16	1.7	162
171	DNA base modifications in renal chromatin of Wistar rats treated with a renal carcinogen, ferric nitrilotriacetate. <i>International Journal of Cancer</i> , 1994 , 57, 123-8	7.5	161
170	Repair of formamidopyrimidines in DNA involves different glycosylases: role of the OGG1, NTH1, and NEIL1 enzymes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 40544-51	5.4	160
169	Characterization of free radical-induced base damage in DNA at biologically relevant levels. <i>Analytical Biochemistry</i> , 1986 , 156, 182-8	3.1	155
168	Letter: Strand breaks and sugar release by gamma-irradiation of DNA in aqueous solution. <i>Journal of the American Chemical Society</i> , 1975 , 97, 2277-8	16.4	148
167	Oxidatively induced DNA damage and its repair in cancer. <i>Mutation Research - Reviews in Mutation Research</i> , 2015 , 763, 212-45	7	146
166	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
165	Application of capillary gas chromatography-mass spectrometry to chemical characterization of radiation-induced base damage of DNA: implications for assessing DNA repair processes. <i>Analytical Biochemistry</i> , 1985 , 144, 593-603	3.1	143
164	Base-excision repair of oxidative DNA damage by DNA glycosylases. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2005 , 591, 45-59	3.3	139
163	Primary fibroblasts of Cockayne syndrome patients are defective in cellular repair of 8-hydroxyguanine and 8-hydroxyadenine resulting from oxidative stress. <i>FASEB Journal</i> , 2003 , 17, 668-74	9.9	127
162	The Cockayne Syndrome group B gene product is involved in general genome base excision repair of 8-hydroxyguanine in DNA. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45772-9	5.4	117
161	Chemical nature of in vivo DNA base damage in hydrogen peroxide-treated mammalian cells. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 285, 388-90	4.1	115
160	Monomeric base damage products from adenine, guanine, and thymine induced by exposure of DNA to ultraviolet radiation. <i>Biochemistry</i> , 1995 , 34, 737-42	3.2	112

159	Polyamines stimulate the formation of mutagenic 1,N ² -propanodeoxyguanosine adducts from acetaldehyde. <i>Nucleic Acids Research</i> , 2005 , 33, 3513-20	20.1	107
158	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, 616-24	4	106
157	8,5TCyclopurine-2Tdeoxynucleosides in DNA: mechanisms of formation, measurement, repair and biological effects. <i>DNA Repair</i> , 2008 , 7, 1413-25	4.3	101
156	<i>Saccharomyces cerevisiae</i> Ntg1p and Ntg2p: broad specificity N-glycosylases for the repair of oxidative DNA damage in the nucleus and mitochondria. <i>Biochemistry</i> , 1999 , 38, 11298-306	3.2	98
155	Measurement of 8-hydroxy-2Tdeoxyguanosine in DNA by high-performance liquid chromatography-mass spectrometry: comparison with measurement by gas chromatography-mass spectrometry. <i>Nucleic Acids Research</i> , 2001 , 29, E12	20.1	97
154	The use of capillary gas chromatography-mass spectrometry for identification of radiation-induced DNA base damage and DNA base-amino acid cross-links. <i>Journal of Chromatography A</i> , 1984 , 295, 103-214.5	4.5	96
153	Hydrogen Peroxide-Induced Base Damage in Deoxyribonucleic Acid. <i>Radiation Research</i> , 1990 , 121, 338	3.1	92
152	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, 4873-9	3.2	92
151	Excision of products of oxidative DNA base damage by human NTH1 protein. <i>Biochemistry</i> , 1999 , 38, 243-6	3.2	90
150	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, 786-94	4.3	89
149	Formamidopyrimidines in DNA: mechanisms of formation, repair, and biological effects. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1610-21	7.8	89
148	Structure of a hydroxyl radical induced DNA-protein cross-link involving thymine and tyrosine in nucleohistone. <i>Biochemistry</i> , 1989 , 28, 3625-8	3.2	89
147	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, 5586-92	3.2	87
146	Cockayne syndrome group B protein stimulates repair of formamidopyrimidines by NEIL1 DNA glycosylase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9270-9	5.4	83
145	Mass spectrometric assays for the tandem lesion 8,5Tcyclo-2Tdeoxyguanosine in mammalian DNA. <i>Biochemistry</i> , 2002 , 41, 3703-11	3.2	83
144	Hydroxyl radical induced cross-linking of cytosine and tyrosine in nucleohistone. <i>Biochemistry</i> , 1990 , 29, 977-80	3.2	83
143	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, 809-15	4	82
142	Effect of DNA conformation on the hydroxyl radical-induced formation of 8,5Tcyclopurine 2Tdeoxyribonucleoside residues in DNA. <i>International Journal of Radiation Biology</i> , 1988 , 54, 195-204	2.9	82

141	Oxidative DNA base damage and antioxidant enzyme levels in childhood acute lymphoblastic leukemia. <i>FEBS Letters</i> , 1997 , 416, 286-90	3.8	80
140	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, 15909-14	3.2	80
139	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, 11607-15	16.4	80
138	DNA base damage in chromatin of gamma-irradiated cultured human cells. <i>Free Radical Research Communications</i> , 1992 , 16, 259-73		80
137	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, 309-13	7.5	76
136	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, 1359-70	4.6	75
135	Identification and quantification of 8,5Tcylo-2Tdeoxy-adenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 774-84	7.8	73
134	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, 30832-7	5.4	73
133	Characterization of a novel 8-oxoguanine-DNA glycosylase activity in Escherichia coli and identification of the enzyme as endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2000 , 275, 27762-7	5.4	73
132	Facts about the artifacts in the measurement of oxidative DNA base damage by gas chromatography-mass spectrometry. <i>Free Radical Research</i> , 1998 , 29, 551-63	4	71
131	Characterization and mechanism of action of Drosophila ribosomal protein S3 DNA glycosylase activity for the removal of oxidatively damaged DNA bases. <i>Journal of Biological Chemistry</i> , 1997 , 272, 32857-60	5.4	69
130	Oxidized guanine lesions and hOgg1 activity in lung cancer. <i>Oncogene</i> , 2005 , 24, 4496-508	9.2	67
129	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	7.8	67
128	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, 33-7	4	67
127	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, 109-26	3.3	64
126	Accumulation of (5T)-8,5Tcylo-2Tdeoxyadenosine in organs of Cockayne syndrome complementation group B gene knockout mice. <i>DNA Repair</i> , 2009 , 8, 274-8	4.3	61
125	Human polymorphic variants of the NEIL1 DNA glycosylase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15790-8	5.4	58
124	Complete release of (5T)-8,5Tcylo-2Tdeoxyadenosine 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	20.1	58

123	DNA base modifications and membrane damage in cultured mammalian cells treated with iron ions. <i>Free Radical Biology and Medicine</i> , 1995 , 18, 1013-22	7.8	55
122	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	3.3	54
121	Structure of a hydroxyl radical induced cross-link of thymine and tyrosine. <i>Biochemistry</i> , 1988 , 27, 6353-9	3.2	54
120	A major role for nonenzymatic antioxidant processes in the radioresistance of <i>Halobacterium salinarum</i> . <i>Journal of Bacteriology</i> , 2011 , 193, 1653-62	3.5	51
119	DNA base modifications and antioxidant enzyme activities in human benign prostatic hyperplasia. <i>Free Radical Biology and Medicine</i> , 1995 , 18, 807-13	7.8	51
118	DNA-protein cross-linking between thymine and tyrosine in chromatin of gamma-irradiated or H ₂ O ₂ -treated cultured human cells. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 297, 139-43	4.1	51
117	Structure of hydroxyl radical-induced DNA-protein crosslinks in calf thymus nucleohistone in vitro. <i>International Journal of Radiation Biology</i> , 1988 , 54, 445-59	2.9	51
116	Lymphoblasts of women with BRCA1 mutations are deficient in cellular repair of 8,5TCyclopurine-2Tdeoxynucleosides and 8-hydroxy-2Tdeoxyguanosine. <i>Biochemistry</i> , 2007 , 46, 2488-96	3.2	50
115	The effect of experimental conditions on the levels of oxidatively modified bases in DNA as measured by gas chromatography-mass spectrometry: how many modified bases are involved? Prepurification or not?. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 370-80	7.8	50
114	Evidence for the involvement of DNA repair enzyme NEIL1 in nucleotide excision repair of (5R)- and (5S)-8,5Tcyclo-2Tdeoxyadenosines. <i>Biochemistry</i> , 2010 , 49, 1053-5	3.2	48
113	Measurement of oxidatively induced DNA damage and its repair, by mass spectrometric techniques. <i>Free Radical Research</i> , 2015 , 49, 525-48	4	47
112	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	7	46
111	Small Molecule Inhibitors of 8-Oxoguanine DNA Glycosylase-1 (OGG1). <i>ACS Chemical Biology</i> , 2015 , 10, 2334-43	4.9	45
110	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	4.7	45
109	Measurement of oxidatively induced base lesions in liver from Wistar rats of different ages. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 456-62	7.8	45
108	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, 329-35	4	45
107	Measurement of formamidopyrimidines in DNA. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1601-9	7.8	44
106	Substrate specificity of <i>Schizosaccharomyces pombe</i> Nth protein for products of oxidative DNA damage. <i>Biochemistry</i> , 1998 , 37, 590-5	3.2	44

105	Selected-ion mass spectrometry: assays of oxidative DNA damage. <i>Methods in Enzymology</i> , 1990 , 186, 530-44	1.7	44
104	Substrate specificity and excision kinetics of Escherichia coli endonuclease VIII (Nci) for modified bases in DNA damaged by free radicals. <i>Biochemistry</i> , 2001 , 40, 12150-6	3.2	43
103	Radiation Chemistry of Carbohydrates, VI: 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	1.7	43
102	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, 3153-8	20.1	42
101	DNA base modifications induced in isolated human chromatin by NADH dehydrogenase-catalyzed reduction of doxorubicin. <i>Biochemistry</i> , 1992 , 31, 3500-6	3.2	42
100	gamma-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, 1021-2	1.7	41
99	Oxidative DNA damage in polymorphonuclear leukocytes of patients with familial Mediterranean fever. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 386-93	7.8	40
98	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	4.5	40
97	Radiation chemistry of DNA, II. Strand breaks and sugar release by gamma-irradiation of DNA in aqueous solution. The effect of oxygen. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1975 , 30, 826-8	1.7	38
96	Substrate specificity and excision kinetics of natural polymorphic variants and phosphomimetic mutants of human 8-oxoguanine-DNA glycosylase. <i>FEBS Journal</i> , 2009 , 276, 5149-62	5.7	37
95	A novel activity of E. coli uracil DNA N-glycosylase excision of isodialuric acid (5,6-dihydroxyuracil), a major product of oxidative DNA damage, from DNA. <i>FEBS Letters</i> , 1995 , 364, 255-8	3.8	36
94	Gas chromatography-mass spectrometry of free radical-induced products of pyrimidines and purines in DNA. <i>Methods in Enzymology</i> , 1990 , 193, 842-57	1.7	36
93	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		36
92	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, 714-25	4.3	35
91	Measurement of (5R)- and (5S)-8,5Tcylo-2Tdeoxyadenosines in DNA in vivo by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 386, 656-60	3.4	35
90	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
89	Arabidopsis thaliana 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, 3089-95	3.2	35
88	Determination of active site residues in Escherichia coli endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2002 , 277, 2938-44	5.4	34

87	Molecular analysis of base damage clustering associated with a site-specific radiation-induced DNA double-strand break. <i>Radiation Research</i> , 2006 , 166, 767-81	3.1	33
86	Base modifications in plasmid DNA caused by potassium permanganate. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 282, 202-5	4.1	33
85	Radiation-Induced Crosslinking of Cytosine. <i>Radiation Research</i> , 1984 , 100, 41	3.1	33
84	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, 565-76		33
83	DNA damage products (5R)- and (5T)-8,5Tcyclo-2Tdeoxyadenosines as potential biomarkers in human urine for atherosclerosis. <i>Biochemistry</i> , 2012 , 51, 1822-4	3.2	32
82	Biomarkers signal contaminant effects on the organs of English sole (<i>Parophrys vetulus</i>) from Puget Sound. <i>Environmental Health Perspectives</i> , 2006 , 114, 823-9	8.4	32
81	Formation of radiation-induced cross-links between thymine and tyrosine: possible model for cross-linking of DNA and proteins by ionizing radiation. <i>Biochemistry</i> , 1985 , 24, 233-6	3.2	32
80	Isolation of 2-deoxy-D-erythro-pentonic acid from an alkali-labile site in gamma-irradiated DNA. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1977 , 32, 481-3		32
79	Bisphenol a promotes cell survival following oxidative DNA damage in mouse fibroblasts. <i>PLoS ONE</i> , 2015 , 10, e0118819	3.7	31
78	Measurement of 8-hydroxy-2Tdeoxyadenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 336-44	7.8	31
77	A novel DNA N-glycosylase activity of E. coli 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		31
76	Radiation Chemistry of Carbohydrates, VIII. 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	1	31
75	Protective roles of single-wall carbon nanotubes in ultrasonication-induced DNA base damage. <i>Small</i> , 2013 , 9, 205-8	11	30
74	Inhibition of DNA glycosylases via small molecule purine analogs. <i>PLoS ONE</i> , 2013 , 8, e81667	3.7	29
73	Oxidative changes in the DNA of stroma and epithelium from the female breast: potential implications for breast cancer. <i>Cell Cycle</i> , 2006 , 5, 1629-32	4.7	29
72	Structural alterations in breast stromal and epithelial DNA: the influence of 8,5Tcyclo-2Tdeoxyadenosine. <i>Cell Cycle</i> , 2006 , 5, 1240-4	4.7	29
71	Radiation Chemistry of DNA Model Compounds, IX. Carbohydrate Products in the 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	1	29
70	Strahlenchemie von Kohlenhydraten, IV. Radiolyse von Cellobiose in N ₂ O-gesättigter wässriger Lösung / Radiolysis of Cellobiose in N ₂ O Saturated Aqueous Solution. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1973 , 28, 635-646	1	29

69	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
68	Mutation of potassium permanganate- and hydrogen peroxide-treated plasmid pZ189 replicating in CV-1 monkey kidney cells. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1991 , 261, 123-30		28
67	Intramolecular H Atom Abstraction from the Sugar Moiety by Thymine Radicals in Oligo- and Polydeoxynucleotides. <i>Radiation Research</i> , 1988 , 116, 210	3.1	28
66	DNA base damage in lymphocytes of cancer patients undergoing radiation therapy. <i>Cancer Letters</i> , 1996 , 106, 207-15	9.9	27
65	Radiolytic Studies of the Cumyloxyl Radical in Aqueous Solutions. <i>Israel Journal of Chemistry</i> , 1984 , 24, 25-28	3.4	27
64	The reactions of OH radicals with D-ribose in deoxygenated and oxygenated aqueous solution. <i>Carbohydrate Research</i> , 1977 , 58, 21-30	2.9	27
63	Weak anion-exchange high-performance liquid chromatography of peptides. <i>Journal of Chromatography A</i> , 1985 , 334, 49-69	4.5	26
62	Addiction to MTH1 protein results in intense expression in human breast cancer tissue as measured by liquid chromatography-isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2015 , 33, 101-10	4.3	25
61	Separation of small DNA and RNA oligonucleotides by high-performance anion-exchange liquid chromatography. <i>Journal of Chromatography A</i> , 1979 , 171, 321-30	4.5	25
60	Identification and quantification of (5R)- and (5S)-8,5Tcyclo-2Tdeoxyadenosines in human urine as putative biomarkers of oxidatively induced damage to DNA. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 397, 48-52	3.4	24
59	The oxidatively induced DNA lesions 8,5Tcyclo-2Tdeoxyadenosine and 8-hydroxy-2Tdeoxyadenosine are strongly resistant to acid-induced hydrolysis of the glycosidic bond. <i>Mechanisms of Ageing and Development</i> , 2007 , 128, 494-502	5.6	24
58	Reduced repair of 8-hydroxyguanine in the human breast cancer cell line, HCC1937. <i>BMC Cancer</i> , 2006 , 6, 297	4.8	24
57	Copper ion-mediated modification of bases in DNA in vitro by benzoyl peroxide. <i>Carcinogenesis</i> , 1993 , 14, 1971-4	4.6	24
56	Elevated urinary levels of 8-oxo-2Tdeoxyguanosine, (5R)- and (5S)-8,5Tcyclo-2Tdeoxyadenosines, and 8-iso-prostaglandin F as potential biomarkers of oxidative stress in patients with prediabetes. <i>DNA Repair</i> , 2016 , 48, 1-7	4.3	24
55	Glutathione depletion by buthionine sulfoximine induces oxidative damage to DNA in organs of rabbits in vivo. <i>Biochemistry</i> , 2009 , 48, 4980-7	3.2	23
54	Substrate specificity of Deinococcus radiodurans Fpg protein. <i>Biochemistry</i> , 1999 , 38, 9435-9	3.2	23
53	Identification and quantification of human DNA repair protein NEIL1 by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>Journal of Proteome Research</i> , 2013 , 12, 1049-61	5.6	22
52	Hydroxyl radical is a significant player in oxidative DNA damage in vivo. <i>Chemical Society Reviews</i> , 2021 , 50, 8355-8360	58.5	22

51	Separation of underivatized dipeptides by high-performance liquid chromatography on a weak anion-exchange bonded phase. <i>Journal of Chromatography A</i> , 1980 , 195, 119-126	4.5	21
50	Separation of peptides by high-performance liquid chromatography on a weak anion-exchange bonded phase. <i>Journal of Chromatography A</i> , 1982 , 237, 417-428	4.5	21
49	Conversion of d-fructose into 6-deoxy-d-threo-2,5-hexudiulose by irradiation: a chain reaction in the crystalline state. <i>Carbohydrate Research</i> , 1976 , 47, 15-23	2.9	21
48	Evidence for upregulated repair of oxidatively induced DNA damage in human colorectal cancer. <i>DNA Repair</i> , 2011 , 10, 1114-20	4.3	20
47	Accumulation of oxidatively induced DNA damage in human breast cancer cell lines following treatment with hydrogen peroxide. <i>Cell Cycle</i> , 2007 , 6, 1472-8	4.7	20
46	Overexpression and rapid purification of Escherichia coli formamidopyrimidine-DNA glycosylase. <i>Protein Expression and Purification</i> , 2004 , 34, 126-33	2	19
45	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	3.6	19
44	Biomarkers of oxidatively induced DNA damage in dreissenid mussels: A genotoxicity assessment tool for the Laurentian Great Lakes. <i>Environmental Toxicology</i> , 2017 , 32, 2144-2153	4.2	18
43	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. <i>Journal of Proteome Research</i> , 2011 , 10, 3802-13	5.6	18
42	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. <i>Environmental Health Perspectives</i> , 2016 , 124, 1241-52	8.4	18
41	Oxidatively-induced DNA damage and base excision repair in euthymic patients with bipolar disorder. <i>DNA Repair</i> , 2018 , 65, 64-72	4.3	17
40	Irradiation-induced ring-opening of polycrystalline cycloamylose hydrates. <i>Carbohydrate Research</i> , 1976 , 49, 315-323	2.9	17
39	Induction of oxidative DNA damage in u937 cells by TNF or anti-Fas stimulation. <i>Cytokine</i> , 2000 , 12, 881-7	4	16
38	Stable isotope-labeling of DNA repair proteins, and their purification and characterization. <i>Protein Expression and Purification</i> , 2011 , 78, 94-101	2	15
37	Separation of the sequence isomers of pyrimidine deoxytetranucleoside triphosphates by high-performance ion-exchange liquid chromatography. <i>Journal of Chromatography A</i> , 1979 , 169, 429-35	4.5	15
36	Separation and sequencing of the sequence isomers of pyrimidine deoxypentanucleoside tetraphosphates by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1980 , 188, 273-9	4.5	15
35	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. <i>Biochemistry</i> , 2015 , 54, 5787-90	3.2	14
34	Kov ₂ T indices of trimethylsilylated amino acids on fused-silica capillary columns. <i>Journal of Chromatography A</i> , 1982 , 249, 41-55	4.5	14

33	Mass spectra of trimethylsilyl Di-O-methyloximes of aldoses and dialdoses. <i>Organic Mass Spectrometry</i> , 1977 , 12, 772-776		14
32	Aflatoxin-Guanine DNA Adducts and Oxidatively Induced DNA Damage in Aflatoxin-Treated Mice in Vivo as Measured by Liquid Chromatography-Tandem Mass Spectrometry with Isotope Dilution. <i>Chemical Research in Toxicology</i> , 2019 , 32, 80-89	4	14
31	Implications of DNA damage and DNA repair on human diseases. <i>Mutagenesis</i> , 2020 , 35, 1-3	2.8	12
30	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, 854-62	7.8	12
29	Identification and quantification of DNA repair protein apurinic/apyrimidinic endonuclease 1 (APE1) in human cells by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>PLoS ONE</i> , 2013 , 8, e69894	3.7	12
28	Assignment of enzyme substrate specificity by principal component analysis of aligned protein sequences: an experimental test using DNA glycosylase homologs. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 40, 98-105	4.2	11
27	Separation of dipeptides by high-resolution gas chromatography on a fused silica capillary column after trimethylsilylation. <i>Analytical Biochemistry</i> , 1980 , 108, 269-73	3.1	10
26	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, 816-23	7.8	9
25	Separation of diastereomers and analogues of neurotensin by anion-exchange high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1982 , 245, 158-162	4.5	9
24	Introduction to serial reviews on oxidative DNA damage and repair. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 677	7.8	8
23	Stoichiometric preference in copper-promoted oxidative DNA damage by ochratoxin A. <i>Journal of Inorganic Biochemistry</i> , 2003 , 95, 87-96	4.2	8
22	Comparison of reversed-phase and weak anion-exchange high-performance liquid chromatographic methods for peptide separations. <i>Journal of Chromatography A</i> , 1983 , 264, 223-9	4.5	8
21	Production, Purification, and Characterization of ¹⁵ N-Labeled DNA Repair Proteins as Internal Standards for Mass Spectrometric Measurements. <i>Methods in Enzymology</i> , 2016 , 566, 305-32	1.7	7
20	Clemens von Sonntag and the early history of radiation-induced sugar damage in DNA. <i>International Journal of Radiation Biology</i> , 2014 , 90, 446-58	2.9	7
19	Measurement of DNA biomarkers for the safety of tissue-engineered medical products, using artificial skin as a model. <i>Tissue Engineering</i> , 2004 , 10, 1332-45		7
18	Separation of dipeptide diastereomers by high-resolution gas chromatography. <i>Journal of Chromatography A</i> , 1982 , 244, 293-298	4.5	7
17	Recognition of DNA adducts by edited and unedited forms of DNA glycosylase NEIL1. <i>DNA Repair</i> , 2020 , 85, 102741	4.3	7
16	Enhanced sensitivity of Neil1 mice to chronic UVB exposure. <i>DNA Repair</i> , 2016 , 48, 43-50	4.3	6

15	Significant disparity in base and sugar damage in DNA resulting from neutron and electron irradiation. <i>Journal of Radiation Research</i> , 2014 , 55, 1081-8	2.4	6
14	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	2.4	6
13	Separation of angiotensins by high-performance liquid chromatography on a weak anion-exchange bonded phase. <i>Analytical Biochemistry</i> , 1982 , 123, 190-3	3.1	5
12	Measurement of Oxidatively Induced DNA Damage in with High-Salt DNA Extraction and Isotope-Dilution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 12149-12155	7.8	4
11	Characterization of rare NEIL1 variants found in East Asian populations. <i>DNA Repair</i> , 2019 , 79, 32-39	4.3	4
10	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	3.3	4
9	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	4.5	3
8	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	4.3	3
7	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	4.1	3
6	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	3.9	2
5	Separation of sequence isomeric dipeptides by high-resolution gas chromatography. <i>Journal of Chromatography A</i> , 1985 , 318, 384-386	4.5	1
4	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	4.9	0
3	DNA glycosylase deficiency leads to decreased severity of lupus in the Polb-Y265C mouse model. <i>DNA Repair</i> , 2021 , 105, 103152	4.3	0
2	Chlorella Virus Pyrimidine Dimer Glycosylase Excises Ultraviolet Radiation-Induced Hydroxyl Radical-Induced Products 4,6-Diamino-5-Formamidopyrimidine and 2,6-Diamino-4-hydroxy-5-Formamidopyrimidine from DNA. <i>Photochemistry and Photobiology</i> , 2007 , 75, 85-91	3.6	
1	Measurement of Oxidative DNA Damage by Gas Chromatography-Mass Spectrometry and Liquid Chromatography-Mass Spectrometry. <i>Journal of Chromatography A</i> , 1985 , 318, 384-386		