

Pawel Jaruga

List of Publications by Citations

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

104
papers

8,426
citations

44
h-index

91
g-index

108
ext. papers

8,953
ext. citations

6.3
avg, IF

5.81
L-index

#	Paper	IF	Citations
104	Linking uracil base excision repair and 5-fluorouracil toxicity in yeast. <i>Nucleic Acids Research</i> , 2006 , 34, 140-51	20.1	1531
103	Free radical-induced damage to DNA: mechanisms and measurement. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 1102-15	7.8	710
102	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
101	Mechanisms of free radical-induced damage to DNA. <i>Free Radical Research</i> , 2012 , 46, 382-419	4	407
100	Copper oxide nanoparticle mediated DNA damage in terrestrial plant models. <i>Environmental Science & Technology</i> , 2012 , 46, 1819-27	10.3	356
99	DNA damage and DNA sequence retrieval from ancient tissues. <i>Nucleic Acids Research</i> , 1996 , 24, 1304-7	20.1	300
98	Oxidative DNA damage: assessment of the role in carcinogenesis, atherosclerosis, and acquired immunodeficiency syndrome. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 192-200	7.8	215
97	New functions of XPC in the protection of human skin cells from oxidative damage. <i>EMBO Journal</i> , 2006 , 25, 4305-15	13	204
96	Repair of products of oxidative DNA base damage in human cells. <i>Nucleic Acids Research</i> , 1996 , 24, 1389-94	24.1	198
95	Regulation of reactive oxygen species, DNA damage, and c-Myc function by peroxiredoxin 1. <i>Oncogene</i> , 2005 , 24, 8038-50	9.2	181
94	Oxidative DNA base damage and antioxidant enzyme activities in human lung cancer. <i>FEBS Letters</i> , 1994 , 341, 59-64	3.8	172
93	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
92	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
91	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	8.9	127
90	The role of CSA in the response to oxidative DNA damage in human cells. <i>Oncogene</i> , 2007 , 26, 4336-43	9.2	126
89	Kinetics of excision of purine lesions from DNA by Escherichia coli Fpg protein. <i>Nucleic Acids Research</i> , 1997 , 25, 474-9	20.1	125
88	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

87	Polyamines stimulate the formation of mutagenic 1,N2-propanodeoxyguanosine adducts from acetaldehyde. <i>Nucleic Acids Research</i> , 2005 , 33, 3513-20	20.1	107
86	8,5 Ψ Cyclopurine-2 Ψ deoxynucleosides in DNA: mechanisms of formation, measurement, repair and biological effects. <i>DNA Repair</i> , 2008 , 7, 1413-25	4.3	101
85	Measurement of 8-hydroxy-2 Ψ 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, E12	20.1	97
84	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
83	Formamidopyrimidines in DNA: mechanisms of formation, repair, and biological effects. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1610-21	7.8	89
82	Genomic DNA of <i>Nostoc commune</i> (Cyanobacteria) becomes covalently modified during long-term (decades) desiccation but is protected from oxidative damage and degradation. <i>Nucleic Acids Research</i> , 2003 , 31, 2995-3005	20.1	88
81	Mass spectrometric assays for the tandem lesion 8,5 Ψ cyclo-2 Ψ deoxyguanosine in mammalian DNA. <i>Biochemistry</i> , 2002 , 41, 3703-11	3.2	83
80	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
79	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
78	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
77	Identification and quantification of 8,5 Ψ cyclo-2 Ψ deoxy-adenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 774-84	7.8	73
76	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
75	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, 32857-60	5.4	69
74	Supplementation with antioxidant vitamins prevents oxidative modification of DNA in lymphocytes of HIV-infected patients. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 414-20	7.8	69
73	Accumulation of (5 Ψ)-8,5 Ψ cyclo-2 Ψ deoxyadenosine in organs of Cockayne syndrome complementation group B gene knockout mice. <i>DNA Repair</i> , 2009 , 8, 274-8	4.3	61
72	Human polymorphic variants of the NEIL1 DNA glycosylase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15790-8	5.4	58
71	Complete release of (5 Ψ)-8,5 Ψ cyclo-2 Ψ 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	20.1	58
70	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

69	Salt shield: intracellular salts provide cellular protection against ionizing radiation in the halophilic archaeon, <i>Halobacterium salinarum</i> NRC-1. <i>Environmental Microbiology</i> , 2009 , 11, 1066-78	5.2	50
68	Lymphoblasts of women with BRCA1 mutations are deficient in cellular repair of 8,5 C yclo-2 U deoxynucleosides and 8-hydroxy-2 U deoxyguanosine. <i>Biochemistry</i> , 2007 , 46, 2488-96 ^{3,2}		50
67	Evidence for the involvement of DNA repair enzyme NEIL1 in nucleotide excision repair of (5 U)- and (5 S)-8,5 C yclo-2 U deoxyadenosines. <i>Biochemistry</i> , 2010 , 49, 1053-5	3.2	48
66	Measurement of oxidatively induced DNA damage and its repair, by mass spectrometric techniques. <i>Free Radical Research</i> , 2015 , 49, 525-48	4	47
65	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
64	Oxidative DNA base damage and its repair in kidneys and livers of nickel(II)-treated male F344 rats. <i>Carcinogenesis</i> , 1997 , 18, 271-7	4.6	46
63	Small Molecule Inhibitors of 8-Oxoguanine DNA Glycosylase-1 (OGG1). <i>ACS Chemical Biology</i> , 2015 , 10, 2334-43	4.9	45
62	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
61	Measurement of formamidopyrimidines in DNA. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1601-9	7.8	44
60	Substrate specificity and excision kinetics of <i>Escherichia coli</i> endonuclease VIII (Nei) for modified bases in DNA damaged by free radicals. <i>Biochemistry</i> , 2001 , 40, 12150-6	3.2	43
59	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
58	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
57	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
56	Measurement of (5 U)- and (5 S)-8,5 C yclo-2 U deoxyadenosines 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
55	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, 177-90	4.3	35
54	<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, 3089-95	3.2	35
53	Determination of active site residues in <i>Escherichia coli</i> endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2002 , 277, 2938-44	5.4	34
52	Active transcriptomic and proteomic reprogramming in the <i>C. elegans</i> nucleotide excision repair mutant xpa-1. <i>Nucleic Acids Research</i> , 2013 , 41, 5368-81	20.1	33

51	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
50	DNA damage products (5R)- and (5S)-8,5Ucyclo-2Udeoxyadenosines as potential biomarkers in human urine for atherosclerosis. <i>Biochemistry</i> , 2012 , 51, 1822-4	3.2	32
49	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
48	Bisphenol a promotes cell survival following oxidative DNA damage in mouse fibroblasts. <i>PLoS ONE</i> , 2015 , 10, e0118819	3.7	31
47	Measurement of 8-hydroxy-2Udeoxyadenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 336-44	7.8	31
46	Epirubicin-induced oxidative DNA damage and evidence for its repair in lymphocytes of cancer patients who are undergoing chemotherapy. <i>Molecular Pharmacology</i> , 1997 , 52, 882-5	4.3	30
45	Inhibition of DNA glycosylases via small molecule purine analogs. <i>PLoS ONE</i> , 2013 , 8, e81667	3.7	29
44	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
43	Structural alterations in breast stromal and epithelial DNA: the influence of 8,5Ucyclo-2Udeoxyadenosine. <i>Cell Cycle</i> , 2006 , 5, 1240-4	4.7	29
42	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
41	Oxidative DNA base modifications and polycyclic aromatic hydrocarbon DNA adducts in squamous cell carcinoma of larynx. <i>Free Radical Research</i> , 2003 , 37, 231-40	4	28
40	DNA base damage in lymphocytes of cancer patients undergoing radiation therapy. <i>Cancer Letters</i> , 1996 , 106, 207-15	9.9	27
39	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
38	Identification and quantification of (5R)- and (5S)-8,5Ucyclo-2Udeoxyadenosines 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
37	The oxidatively induced DNA lesions 8,5Ucyclo-2Udeoxyadenosine and 8-hydroxy-2Udeoxyadenosine 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
36	Reduced repair of 8-hydroxyguanine in the human breast cancer cell line, HCC1937. <i>BMC Cancer</i> , 2006 , 6, 297	4.8	24
35	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
34	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

33	Evidence for upregulated repair of oxidatively induced DNA damage in human colorectal cancer. <i>DNA Repair</i> , 2011 , 10, 1114-20	4.3	20
32	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
31	Overexpression and rapid purification of Escherichia coli formamidopyrimidine-DNA glycosylase. <i>Protein Expression and Purification</i> , 2004 , 34, 126-33	2	19
30	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
29	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
28	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
27	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
26	Exposure to Engineered Nanomaterials: Impact on DNA Repair Pathways. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	17
25	Stable isotope-labeling of DNA repair proteins, and their purification and characterization. <i>Protein Expression and Purification</i> , 2011 , 78, 94-101	2	15
24	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
23	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
22	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
21	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
20	Oxidative DNA base damage in lymphocytes of HIV-infected drug users. <i>Free Radical Research</i> , 1999 , 31, 197-200	4	8
19	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
18	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
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	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
12	Characterization of rare NEIL1 variants found in East Asian populations. <i>DNA Repair</i> , 2019 , 79, 32-39	4.3	4
11	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
10	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
9	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
8	Oxidative DNA damage biomarkers used in tissue engineered skin. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 534, 129-35	3.6	3
7	Oxidative DNA base damage in cancerous tissues of patients undergoing brachytherapy. <i>Cancer Letters</i> , 1998 , 132, 169-73	9.9	2
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	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
4	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
3	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> , 2007 , 75, 85-91	3.6	
2	Biomarkers used to detect genetic damage in tissue engineered skin. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 534, 137-45	3.6	
1	Estimation Of Free Radical Induced DNA Base Damages in Cancerous- and HIV Infected Patients and in Healthy Subjects 1999 , 353-369		