Marcus S Cooke

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.

 112
 7,871
 41
 88

 papers
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 128
 8,689
 5.8
 5.8

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
112	Oxidative DNA damage: mechanisms, mutation, and disease. FASEB Journal, 2003, 17, 1195-214	0.9	2205
111	Oxidative DNA damage and disease: induction, repair and significance. <i>Mutation Research - Reviews in Mutation Research</i> , 2004 , 567, 1-61	7	930
110	Biomarkers. <i>Molecular Aspects of Medicine</i> , 2002 , 23, 101-208	16.7	233
109	Mutations in the selenocysteine insertion sequence-binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans. <i>Journal of Clinical Investigation</i> , 2010 , 120, 4220-35	15.9	229
108	Factors contributing to the outcome of oxidative damage to nucleic acids. <i>BioEssays</i> , 2004 , 26, 533-42	4.1	199
107	Does measurement of oxidative damage to DNA have clinical significance?. <i>Clinica Chimica Acta</i> , 2006 , 365, 30-49	6.2	186
106	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
105	Measurement and meaning of oxidatively modified DNA lesions in urine. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008 , 17, 3-14	4	180
104	Comparative analysis of baseline 8-oxo-7,8-dihydroguanine in mammalian cell DNA, by different methods in different laboratories: an approach to consensus. <i>Carcinogenesis</i> , 2002 , 23, 2129-33	4.6	164
103	Urinary 8-oxo-2Sdeoxyguanosinesource, significance and supplements. <i>Free Radical Research</i> , 2000 , 32, 381-97	4	157
102	DNA repair is responsible for the presence of oxidatively damaged DNA lesions in urine. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2005 , 574, 58-66	3.3	142
101	Novel repair action of vitamin C upon in vivo oxidative DNA damage. FEBS Letters, 1998, 439, 363-7	3.8	122
100	The effects of vitamin C supplementation on protein oxidation in healthy volunteers. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 729-35	3.4	111
99	Toward consensus in the analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine as a noninvasive biomarker of oxidative stress. <i>FASEB Journal</i> , 2010 , 24, 1249-60	0.9	108
98	Human and methodological sources of variability in the measurement of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 2377-91	8.4	107
97	Plasma levels of the endocannabinoid anandamide in womena potential role in pregnancy maintenance and labor?. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 5482-7	5.6	103
96	Biologically relevant oxidants and terminology, classification and nomenclature of oxidatively generated damage to nucleobases and 2-deoxyribose in nucleic acids. <i>Free Radical Research</i> , 2012 , 46, 367-81	4	97

95	Immunogenicity of DNA damaged by reactive oxygen speciesimplications for anti-DNA antibodies in lupus. <i>Free Radical Biology and Medicine</i> , 1997 , 22, 151-9	7.8	90
94	Increased nicotinamide adenine dinucleotide phosphate oxidase 4 expression mediates intrinsic airway smooth muscle hypercontractility in asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 267-74	10.2	80
93	Urinary 8-oxo-2Sdeoxyguanosine: redox regulation of DNA repair in vivo?. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 875-85	7.8	80
92	Minimum Information for Reporting on the Comet Assay (MIRCA): recommendations for describing comet assay procedures and results. <i>Nature Protocols</i> , 2020 , 15, 3817-3826	18.8	79
91	Gene expression profiling reveals new protective roles for vitamin C in human skin cells. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 78-87	7.8	77
90	Progress in the analysis of urinary oxidative DNA damage. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 1601-14	7.8	72
89	DNA repair and the origins of urinary oxidized 2Sdeoxyribonucleosides. <i>Mutagenesis</i> , 2010 , 25, 433-42	2.8	69
88	Evaluation of enzyme-linked immunosorbent assay and liquid chromatography-tandem mass spectrometry methodology for the analysis of 8-oxo-7,8-dihydro-2Sdeoxyguanosine in saliva and urine. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 1829-36	7.8	68
87	Antioxidant vitamins and cancer risk: is oxidative damage to DNA a relevant biomarker?. <i>European Journal of Nutrition</i> , 2008 , 47 Suppl 2, 19-28	5.2	65
86	Inter-laboratory variation in DNA damage using a standard comet assay protocol. <i>Mutagenesis</i> , 2012 , 27, 665-72	2.8	64
85	An ECVAG inter-laboratory validation study of the comet assay: inter-laboratory and intra-laboratory variations of DNA strand breaks and FPG-sensitive sites in human mononuclear cells. <i>Mutagenesis</i> , 2013 , 28, 279-86	2.8	61
84	First-trimester increase in oxidative stress and risk of small-for-gestational-age fetus. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2009 , 116, 637-42	3.7	57
83	Simplified method for the collection, storage, and comet assay analysis of DNA damage in whole blood. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 719-25	7.8	56
82	Aberrant processing of oxidative DNA damage in systemic lupus erythematosus. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 894-8	3.4	53
81	Recommendations for standardized description of and nomenclature concerning oxidatively damaged nucleobases in DNA. <i>Chemical Research in Toxicology</i> , 2010 , 23, 705-7	4	51
80	Urinary measurement of 8-OxodG, 8-OxoGua, and 5HMUra: a noninvasive assessment of oxidative damage to DNA. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1011-9	8.4	51
79	Caffeine intake during pregnancy, late miscarriage and stillbirth. <i>European Journal of Epidemiology</i> , 2010 , 25, 275-80	12.1	46
78	Concurrent beneficial (vitamin D production) and hazardous (cutaneous DNA damage) impact of repeated low-level summer sunlight exposures. <i>British Journal of Dermatology</i> , 2016 , 175, 1320-1328	4	45

77	Rapid measurement of 8-oxo-7,8-dihydro-2Sdeoxyguanosine in human biological matrices using ultra-high-performance liquid chromatography-tandem mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 2057-63	7.8	45
76	Combination of azathioprine and UVA irradiation is a major source of cellular 8-oxo-7,8-dihydro-2Sdeoxyguanosine. <i>DNA Repair</i> , 2008 , 7, 1982-9	4.3	44
75	Sources of extracellular, oxidatively-modified DNA lesions: implications for their measurement in urine. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2009 , 45, 255-70	3.1	44
74	Induction and excretion of ultraviolet-induced 8-oxo-2Sdeoxyguanosine and thymine dimers in vivo: implications for PUVA. <i>Journal of Investigative Dermatology</i> , 2001 , 116, 281-5	4.3	44
73	Cytotoxicity and gene expression profiling of two hydroxylated polybrominated diphenyl ethers in human H295R adrenocortical carcinoma cells. <i>Toxicology Letters</i> , 2009 , 185, 23-31	4.4	43
72	Analysis of urinary 8-oxo-7,8-dihydro-purine-2Sdeoxyribonucleosides by LC-MS/MS and improved ELISA. <i>Free Radical Research</i> , 2008 , 42, 831-40	4	42
71	Immunochemical detection of UV-induced DNA damage and repair. <i>Journal of Immunological Methods</i> , 2003 , 280, 125-33	2.5	41
70	Interpretation of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine is adversely affected by methodological inaccuracies when using a commercial ELISA. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1460-4	7.8	38
69	Harmonising measurements of 8-oxo-7,8-dihydro-2Sdeoxyguanosine in cellular DNA and urine. <i>Free Radical Research</i> , 2012 , 46, 541-53	4	36
68	Discrepancies in the measurement of UVC-induced 8-oxo-2Sdeoxyguanosine: implications for the analysis of oxidative DNA damage. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 259, 374-8	3.4	34
67	Vitamin E inhibits the UVAI induction of "light" and "dark" cyclobutane pyrimidine dimers, and oxidatively generated DNA damage, in keratinocytes. <i>Scientific Reports</i> , 2018 , 8, 423	4.9	33
66	Interlaboratory comparison of methodologies for the measurement of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. <i>Biomarkers</i> , 2009 , 14, 103-10	2.6	33
65	Children are particularly vulnerable to environmental tobacco smoke exposure: Evidence from biomarkers of tobacco-specific nitrosamines, and oxidative stress. <i>Environment International</i> , 2018 , 120, 238-245	12.9	32
64	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. <i>Redox Biology</i> , 2019 , 20, 556-565	11.3	32
63	Fractional Sunburn Threshold UVR Doses Generate Equivalent Vitamin D and DNA Damage in Skin Types I-VI but with Epidermal DNA Damage Gradient Correlated to Skin Darkness. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 2244-2252	4.3	31
62	Immunochemical quantitation of UV-induced oxidative and dimeric DNA damage to human keratinocytes. <i>Free Radical Research</i> , 2000 , 33, 369-81	4	31
61	Role of dietary antioxidants in the prevention of in vivo oxidative DNA damage. <i>Nutrition Research Reviews</i> , 2002 , 15, 19-42	7	29
60	8-Oxo-deoxyguanosine: reduce, reuse, recycle?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13535-6	11.5	27

59	Quantitative determination of cyclobutane thymine dimers in DNA by stable isotope-dilution mass spectrometry. <i>Photochemistry and Photobiology</i> , 1996 , 64, 310-5	3.6	27
58	Monoclonal antibody to single-stranded DNA: a potential tool for DNA repair studies. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 284, 232-8	3.4	26
57	Urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine values determined by a modified ELISA improves agreement with HPLC-MS/MS. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 440, 725-30	3.4	25
56	8-Oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2Sdeoxyguanosine concentrations in various human body fluids: implications for their measurement and interpretation. <i>Archives of Toxicology</i> , 2015 , 89, 201-10	5.8	24
55	DNA repair: insights from urinary lesion analysis. Free Radical Research, 2002, 36, 929-32	4	24
54	Nucleotide excision repair of oxidised genomic DNA is not a source of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. <i>Free Radical Biology and Medicine</i> , 2016 , 99, 385-391	7.8	23
53	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. <i>Mutagenesis</i> , 2014 , 29, 241-9	2.8	22
52	Salvage of oxidized guanine derivatives in the (2Sdeoxy)ribonucleotide pool as source of mutations in DNA. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 703, 11-7	3	20
51	Novel monoclonal antibody recognition of oxidative DNA damage adduct, deoxycytidine-glyoxal. <i>Laboratory Investigation</i> , 2003 , 83, 241-50	5.9	20
50	Novel approach to integrated DNA adductomics for the assessment of in vitro and in vivo environmental exposures. <i>Archives of Toxicology</i> , 2018 , 92, 2665-2680	5.8	20
49	Urinary thymine dimers and 8-oxo-2Sdeoxyguanosine in psoriasis. FEBS Letters, 1999, 460, 549-53	3.8	19
48	Urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine analysis by an improved ELISA: An inter-laboratory comparison study. <i>Free Radical Biology and Medicine</i> , 2016 , 95, 169-79	7.8	17
47	Deoxycytidine glyoxal: lesion induction and evidence of repair following vitamin C supplementation in vivo. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 218-25	7.8	16
46	A commentary on "Urea, the most abundant component in urine, cross-reacts with a commercial 8-OH-dG ELISA kit and contributes to overestimation of urinary 8-OH-dG". What is ELISA detecting?. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 30-1	7.8	15
45	Evidence that oxidative stress is a risk factor for the development of squamous cell carcinoma in renal transplant patients. <i>Free Radical Biology and Medicine</i> , 2007 , 43, 1328-34	7.8	15
44	Evidence for attenuated cellular 8-oxo-7,8-dihydro-2Sdeoxyguanosine removal in cancer patients. <i>Biological Chemistry</i> , 2006 , 387, 393-400	4.5	15
43	Biomarkers of nucleic acid oxidation - A summary state-of-the-art. <i>Redox Biology</i> , 2021 , 42, 101872	11.3	15
42	Urinary DNA adductomics - A novel approach for exposomics. <i>Environment International</i> , 2018 , 121, 103	3r 1 0/38	3 15

41	Novel method for the high-throughput processing of slides for the comet assay. <i>Scientific Reports</i> , 2014 , 4, 7200	4.9	14
40	Neutrophils in induced sputum from healthy children: role of interleukin-8 and oxidative stress. <i>Respiratory Medicine</i> , 2007 , 101, 2108-12	4.6	14
39	17 beta-Oestradiol attenuates nucleotide excision repair. FEBS Letters, 2003, 535, 153-8	3.8	14
38	Towards a comprehensive view of 8-oxo-7,8-dihydro-2Sdeoxyguanosine: Highlighting the intertwined roles of DNA damage and epigenetics in genomic instability. <i>DNA Repair</i> , 2021 , 97, 103027	4.3	11
37	Rescue of cells from apoptosis increases DNA repair in UVB exposed cells: implications for the DNA damage response. <i>Toxicology Research</i> , 2015 , 4, 725-738	2.6	10
36	Quantification of UVR-induced DNA damage: global- versus gene-specific levels of thymine dimers. Journal of Immunological Methods, 2003 , 277, 27-37	2.5	10
35	Evaluation of the Major Steps in the Conventional Protocol for the Alkaline Comet Assay. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
34	Endogenously generated DNA nucleobase modifications source, and significance as possible biomarkers of malignant transformation risk, and role in anticancer therapy. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018 , 1869, 29-41	11.2	10
33	Mycoplasma infection of cultured cells induces oxidative stress and attenuates cellular base excision repair activity. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019 , 845, 403054	3	9
32	Further evidence for a possible role of conformation in the immunogenicity and antigenicity of the oxidative DNA lesion, 8-oxo-2sdeoxyguanosine. <i>Free Radical Research</i> , 1998 , 28, 459-69	4	9
31	Non-invasive assessment of oxidatively damaged DNA: liquid chromatography-tandem mass spectrometry analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. <i>Methods in Molecular Biology</i> , 2011 , 682, 279-89	1.4	9
30	Analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine by liquid chromatography-tandem mass spectrometry. <i>Methods in Molecular Biology</i> , 2010 , 610, 341-51	1.4	7
29	Development of a DNA Adductome Mass Spectral Database. <i>Chemical Research in Toxicology</i> , 2020 , 33, 852-854	4	5
28	Genome-Wide Adductomics Analysis Reveals Heterogeneity in the Induction and Loss of Cyclobutane Thymine Dimers across Both the Nuclear and Mitochondrial Genomes. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
27	Does nausea and vomiting of pregnancy play a role in the association found between maternal caffeine intake and fetal growth restriction?. <i>Maternal and Child Health Journal</i> , 2013 , 17, 601-8	2.4	5
26	Immuno-slot blot assay for detection of UVR-mediated DNA damage. <i>Methods in Molecular Biology</i> , 2012 , 920, 163-75	1.4	5
25	DNA nucleotide excision repair, where do all the cyclobutane pyrimidine dimers go?. <i>Cell Cycle</i> , 2013 , 12, 1642	4.7	5
24	Influence of skin melanisation and ultraviolet radiation on biomarkers of systemic oxidative stress. <i>Free Radical Biology and Medicine</i> , 2020 , 160, 40-46	7.8	5

23	How Robust is the Evidence for a Role of Oxidative Stress in Autism Spectrum Disorders and Intellectual Disabilities?. <i>Journal of Autism and Developmental Disorders</i> , 2021 , 51, 1428-1445	4.6	5
22	DNA Crosslinkomics: A Tool for the Comprehensive Assessment of Interstrand Crosslinks Using High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 15193-15203	7.8	4
21	Antiserum detection of reactive carbonyl species-modified DNA in human colonocytes. <i>Free Radical Research</i> , 2008 , 42, 344-53	4	4
20	Lipid- and Protein-Mediated Oxidative Damage to DNA 2006 , 201-220		4
19	Alkylating and oxidative stresses in smoking and non-smoking patients with COPD: Implications for lung carcinogenesis. <i>Free Radical Biology and Medicine</i> , 2021 , 164, 99-106	7.8	4
18	Immunochemical detection of UV-induced DNA damage and repair. <i>Methods in Molecular Biology</i> , 2006 , 314, 215-28	1.4	3
17	A comparison of the gene expression profiles of CRL-1807 colonocytes exposed to endogenous AAPH-generated peroxides and exogenous peroxides from heated oil. <i>Redox Report</i> , 2007 , 12, 86-90	5.9	3
16	Case 3-2007: a boy with respiratory insufficiency. <i>New England Journal of Medicine</i> , 2007 , 356, 2329; author reply 2330	59.2	3
15	Redox-regulation of DNA repair. <i>BioFactors</i> , 2003 , 17, 315-24	6.1	3
14	Cell cycle and dose-dependence of DNA damage and p53 expression following UVA irradiation. <i>Biochemical Society Transactions</i> , 1995 , 23, 481S	5.1	3
13	Perspectives on Cyclobutane Pyrimidine Dimers-Rise of the Dark Dimers. <i>Photochemistry and Photobiology</i> , 2021 ,	3.6	3
12	The Existence of MTH1-independent 8-oxodGTPase Activity in Cancer Cells as a Compensatory Mechanism against On-target Effects of MTH1 Inhibitors. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 432-	4 46	3
11	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. <i>Chemosphere</i> , 2021 , 274, 129991	8.4	3
10	Light-based methods for whole blood bacterial inactivation enabled by a recirculating flow system. <i>Photochemistry and Photobiology</i> , 2018 , 94, 744-751	3.6	2
9	Automated quantification of DNA damage via deep transfer learning based analysis of comet assay images 2019 ,		2
8	Genome-wide mapping of genomic DNA damage: methods and implications. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 6745-6762	10.3	2
7	Direct-acting DNA ethylating agents associated with tobacco use primarily originate from the tobacco itself, not combustion. <i>Journal of Hazardous Materials</i> , 2018 , 358, 397-404	12.8	1
6	Utilization of Complementary and Alternative Therapies in Youth with Developmental Disabilities. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019 , 2019, 3630509	2.3	1

 $_5$ The Role of Oxidative Damage to Nucleic Acids in the Pathogenesis of Neurological Disease **2007**, 123-140 $_1$

4	Blackberries decrease DNA damage after 3 h, but not after 6 d, in healthy adult volunteers. <i>FASEB Journal</i> , 2013 , 27, 864.4	0.9	1
3	Mycosporine-like amino acids: does Nature make a better sunscreen?. <i>British Journal of Dermatology</i> , 2018 , 178, 1239-1240	4	
2	Neurodegenerative disease and the repair of oxidatively damaged DNA 2005 , 131-140		

Mechanisms of DNA Damage and Repair in Alzheimer Disease **2006**, 98-113