Marcus S Cooke

List of Publications by Year
in descending order

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119 papers	9,572 citations	61984 43 h-index	37204 96 g-index
128 all docs	128 docs citations	128 times ranked	11889 citing authors

#	Article	IF	Citations
1	Oxidative DNA damage: mechanisms, mutation, and disease. FASEB Journal, 2003, 17, 1195-1214.	0.5	2,603
2	Oxidative DNA damage and disease: induction, repair and significance. Mutation Research - Reviews in Mutation Research, 2004, 567, 1-61.	5.5	1,102
3	Mutations in the selenocysteine insertion sequenceâ€“binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans. Journal of Clinical Investigation, 2010, 120, 4220-4235.	8.2	268
4	Biomarkers. Molecular Aspects of Medicine, 2002, 23, 101-208.	6.4	250
5	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	9.0	242
6	Factors contributing to the outcome of oxidative damage to nucleic acids. BioEssays, 2004, 26, 533-542.	2.5	229
7	Does measurement of oxidative damage to DNA have clinical significance?. Clinica Chimica Acta, 2006, 365, 30-49.	1.1	204
8	Comparative analysis of baseline 8-oxo-7,8-dihydroguanine in mammalian cell DNA, by different methods in different laboratories: an approach to consensus. Carcinogenesis, 2002, 23, 2129-2133.	2.8	202
9	Measurement and Meaning of Oxidatively Modified DNA Lesions in Urine. Cancer Epidemiology Biomarkers and Prevention, 2008, 17, 3-14.	2.5	202
10	Urinary 8-oxo-2â€²-deoxyguanosine â€” Source, significance and supplements. Free Radical Research, 2000, 32, 381-397.	3.3	194
11	Minimum Information for Reporting on the Comet Assay (MIRCA): recommendations for describing comet assay procedures and results. Nature Protocols, 2020, 15, 3817-3826.	12.0	189
12	DNA repair is responsible for the presence of oxidatively damaged DNA lesions in urine. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 574, 58-66.	1.0	174
13	Novel repair action of vitamin C upon in vivo oxidative DNA damage. FEBS Letters, 1998, 439, 363-367.	2.8	142
14	Plasma Levels of the Endocannabinoid Anandamide in Womenâ€”A Potential Role in Pregnancy Maintenance and Labor?. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 5482-5487.	3.6	131
15	Human and Methodological Sources of Variability in the Measurement of Urinary 8-Oxo-7,8-dihydro-2â€²-deoxyguanosine. Antioxidants and Redox Signaling, 2013, 18, 2377-2391.	5.4	130
16	The Effects of Vitamin C Supplementation on Protein Oxidation in Healthy Volunteers. Biochemical and Biophysical Research Communications, 2000, 273, 729-735.	2.1	127
17	Toward consensus in the analysis of urinary 8â€oxoâ€7,8â€dihydroâ€2â€²â€deoxyguanosine as a noninvasive biomarker of oxidative stress. FASEB Journal, 2010, 24, 1249-1260.	0.5	126
18	Biologically relevant oxidants and terminology, classification and nomenclature of oxidatively generated damage to nucleobases and 2-deoxyribose in nucleic acids. Free Radical Research, 2012, 46, 367-381.	3.3	114

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19	Gene expression profiling reveals new protective roles for vitamin C in human skin cells. Free Radical Biology and Medicine, 2009, 46, 78-87.	2.9	101
20	Immunogenicity of DNA Damaged by Reactive Oxygen Speciesâ€"Implications for Anti-DNA Antibodies in Lupus. Free Radical Biology and Medicine, 1997, 22, 151-159.	2.9	98
21	Urinary 8-oxo-2â€²-deoxyguanosine: redox regulation of DNA repair in vivo? 1 1This article is part of a series of reviews on â€œOxidative DNA Damage and Repair.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 875-885.	2.9	95
22	Increased Nicotinamide Adenine Dinucleotide Phosphate Oxidase 4 Expression Mediates Intrinsic Airway Smooth Muscle Hypercontractility in Asthma. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 267-274.	5.6	95
23	Progress in the analysis of urinary oxidative DNA damage. Free Radical Biology and Medicine, 2002, 33, 1601-1614.	2.9	85
24	DNA repair and the origins of urinary oxidized 2'-deoxyribonucleosides. Mutagenesis, 2010, 25, 433-442.	2.6	82
25	Inter-laboratory variation in DNA damage using a standard comet assay protocol. Mutagenesis, 2012, 27, 665-672.	2.6	79
26	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. Mutagenesis, 2013, 28, 279-286.	2.6	78
27	Firstâ€trimester increase in oxidative stress and risk of smallâ€forâ€gestationalâ€age fetus. BJOG: an International Journal of Obstetrics and Gynaecology, 2009, 116, 637-642.	2.3	73
28	Antioxidant vitamins and cancer risk: is oxidative damage to DNA a relevant biomarker?. European Journal of Nutrition, 2008, 47, 19-28.	3.9	72
29	Evaluation of enzyme-linked immunosorbent assay and liquid chromatographyâ€“tandem mass spectrometry methodology for the analysis of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine in saliva and urine. Free Radical Biology and Medicine, 2006, 41, 1829-1836.	2.9	71
30	Simplified method for the collection, storage, and comet assay analysis of DNA damage in whole blood. Free Radical Biology and Medicine, 2011, 51, 719-725.	2.9	69
31	Recommendations for Standardized Description of and Nomenclature Concerning Oxidatively Damaged Nucleobases in DNA. Chemical Research in Toxicology, 2010, 23, 705-707.	3.3	57
32	Aberrant Processing of Oxidative DNA Damage in Systemic Lupus Erythematosus. Biochemical and Biophysical Research Communications, 2000, 273, 894-898.	2.1	56
33	Urinary Measurement of 8-OxodG, 8-OxoGua, and 5HMUra: A Noninvasive Assessment of Oxidative Damage to DNA. Antioxidants and Redox Signaling, 2006, 8, 1011-1019.	5.4	55
34	Caffeine intake during pregnancy, late miscarriage and stillbirth. European Journal of Epidemiology, 2010, 25, 275-280.	5.7	55
35	Induction and Excretion of Ultraviolet-Induced 8-Oxo-2â€²-deoxyguanosine and Thymine Dimers In Vivo: Implications for PUVA. Journal of Investigative Dermatology, 2001, 116, 281-285.	0.7	54
36	Concurrent beneficial (vitamin D production) and hazardous (cutaneous DNA damage) impact of repeated lowâ€level summer sunlight exposures. British Journal of Dermatology, 2016, 175, 1320-1328.	1.5	54

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37	Rapid measurement of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine in human biological matrices using ultra-high-performance liquid chromatographyâ€“tandem mass spectrometry. Free Radical Biology and Medicine, 2012, 52, 2057-2063.	2.9	51
38	Biomarkers of nucleic acid oxidation â€“ A summary state-of-the-art. Redox Biology, 2021, 42, 101872.	9.0	51
39	Analysis of urinary 8-oxo-7,8-dihydro-purine-2â€™-deoxyribonucleosides by LC-MS/MS and improved ELISA. Free Radical Research, 2008, 42, 831-840.	3.3	48
40	Cytotoxicity and gene expression profiling of two hydroxylated polybrominated diphenyl ethers in human H295R adrenocortical carcinoma cells. Toxicology Letters, 2009, 185, 23-31.	0.8	48
41	Vitamin E inhibits the UVAI induction of â€œlightâ€•and â€œdarkâ€•cyclobutane pyrimidine dimers, and oxidatively generated DNA damage, in keratinocytes. Scientific Reports, 2018, 8, 423.	3.3	48
42	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. Redox Biology, 2019, 20, 556-565.	9.0	47
43	Sources of Extracellular, Oxidatively-Modified DNA Lesions: Implications for Their Measurement in Urine. Journal of Clinical Biochemistry and Nutrition, 2009, 45, 255-270.	1.4	46
44	Combination of azathioprine and UVA irradiation is a major source of cellular 8-oxo-7,8-dihydro-2â€²-deoxyguanosine. DNA Repair, 2008, 7, 1982-1989.	2.8	45
45	Harmonising measurements of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine in cellular DNA and urine. Free Radical Research, 2012, 46, 541-553.	3.3	45
46	Fractional Sunburn Threshold UVR Doses Generate Equivalent Vitamin D and DNA Damage in Skin Types Iâ€“VI but with Epidermal DNA Damage Gradient Correlated to Skin Darkness. Journal of Investigative Dermatology, 2018, 138, 2244-2252.	0.7	45
47	Children are particularly vulnerable to environmental tobacco smoke exposure: Evidence from biomarkers of tobacco-specific nitrosamines, and oxidative stress. Environment International, 2018, 120, 238-245.	10.0	44
48	Immunochemical detection of UV-induced DNA damage and repair. Journal of Immunological Methods, 2003, 280, 125-133.	1.4	43
49	Discrepancies in the Measurement of UVC-Induced 8-Oxo-2â€²-deoxyguanosine: Implications for the Analysis of Oxidative DNA Damage. Biochemical and Biophysical Research Communications, 1999, 259, 374-378.	2.1	42
50	Interpretation of urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine is adversely affected by methodological inaccuracies when using a commercial ELISA. Free Radical Biology and Medicine, 2010, 48, 1460-1464.	2.9	41
51	Interlaboratory comparison of methodologies for the measurement of urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine. Biomarkers, 2009, 14, 103-110.	1.9	37
52	Immunochemical quantitation of UV-induced oxidative and dimeric DNA damage to human keratinocytes. Free Radical Research, 2000, 33, 369-381.	3.3	36
53	Role of dietary antioxidants in the prevention of in vivo oxidative DNA damage. Nutrition Research Reviews, 2002, 15, 19.	4.1	36
54	Urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine values determined by a modified ELISA improves agreement with HPLCâ€“MS/MS. Biochemical and Biophysical Research Communications, 2013, 440, 725-730.	2.1	34

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55	8-Oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2â€²-deoxyguanosine concentrations in various human body fluids: implications for their measurement and interpretation. Archives of Toxicology, 2015, 89, 201-210.	4.2	34
56	8-Oxo-deoxyguanosine: Reduce, reuse, recycle?. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13535-13536.	7.1	32
57	Towards a comprehensive view of 8-oxo-7,8-dihydro-2â€™-deoxyguanosine: Highlighting the intertwined roles of DNA damage and epigenetics in genomic instability. DNA Repair, 2021, 97, 103027.	2.8	32
58	Quantitative Determination of Cyclobutane Thymine Dimers in DNA by Stable IsotopeâEDilution Mass Spectrometry. Photochemistry and Photobiology, 1996, 64, 310-315.	2.5	31
59	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. Mutagenesis, 2014, 29, 241-249.	2.6	30
60	Urinary DNA adductomics â€“ A novel approach for exposomics. Environment International, 2018, 121, 1033-1038.	10.0	28
61	Novel approach to integrated DNA adductomics for the assessment of in vitro and in vivo environmental exposures. Archives of Toxicology, 2018, 92, 2665-2680.	4.2	28
62	DNA Repair: Insights from Urinary Lesion Analysis. Free Radical Research, 2002, 36, 929-932.	3.3	27
63	Monoclonal Antibody to Single-Stranded DNA: A Potential Tool for DNA Repair Studies. Biochemical and Biophysical Research Communications, 2001, 284, 232-238.	2.1	26
64	Salvage of oxidized guanine derivatives in the (2â€²-deoxy)ribonucleotide pool as source of mutations in DNA. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 703, 11-17.	1.7	26
65	Nucleotide excision repair of oxidised genomic DNA is not a source of urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine. Free Radical Biology and Medicine, 2016, 99, 385-391.	2.9	26
66	Urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine analysis by an improved ELISA: An inter-laboratory comparison study. Free Radical Biology and Medicine, 2016, 95, 169-179.	2.9	24
67	Novel Monoclonal Antibody Recognition of Oxidative DNA Damage Adduct, Deoxycytidine-Glyoxal. Laboratory Investigation, 2003, 83, 241-250.	3.7	23
68	Urinary thymine dimers and 8-oxo-2â€²-deoxyguanosine in psoriasis. FEBS Letters, 1999, 460, 549-553.	2.8	22
69	Novel method for the high-throughput processing of slides for the comet assay. Scientific Reports, 2014, 4, 7200.	3.3	22
70	Deoxycytidine glyoxal: lesion induction and evidence of repair following vitamin C supplementation in vivo. Free Radical Biology and Medicine, 2003, 34, 218-225.	2.9	21
71	Mycoplasma infection of cultured cells induces oxidative stress and attenuates cellular base excision repair activity. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 845, 403054.	1.7	21
72	Evaluation of the Major Steps in the Conventional Protocol for the Alkaline Comet Assay. International Journal of Molecular Sciences, 2019, 20, 6072.	4.1	19

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73	Evidence for attenuated cellular 8-oxo-7,8-dihydro-2â€²-deoxyguanosine removal in cancer patients. Biological Chemistry, 2006, 387, 393-400.	2.5	17
74	17Î²-Oestradiol attenuates nucleotide excision repair. FEBS Letters, 2003, 535, 153-158.	2.8	16
75	Evidence that oxidative stress is a risk factor for the development of squamous cell carcinoma in renal transplant patients. Free Radical Biology and Medicine, 2007, 43, 1328-1334.	2.9	16
76	Development of a DNA Adductome Mass Spectral Database. Chemical Research in Toxicology, 2020, 33, 852-854.	3.3	16
77	Neutrophils in induced sputum from healthy children: Role of interleukin-8 and oxidative stress. Respiratory Medicine, 2007, 101, 2108-2112.	2.9	15
78	A commentary on â€œUrea, the most abundant component in urine, cross-reacts with a commercial 8-OH-dG ELISA kit and contributes to overestimation of urinary 8-OH-dGâ€: What is ELISA detecting?. Free Radical Biology and Medicine, 2009, 47, 30-31.	2.9	15
79	Genome-wide mapping of genomic DNA damage: methods and implications. Cellular and Molecular Life Sciences, 2021, 78, 6745-6762.	5.4	15
80	DNA Crosslinkomics: A Tool for the Comprehensive Assessment of Interstrand Crosslinks Using High Resolution Mass Spectrometry. Analytical Chemistry, 2019, 91, 15193-15203.	6.5	14
81	Quantification of UVR-induced DNA damage: global- versus gene-specific levels of thymine dimers. Journal of Immunological Methods, 2003, 277, 27-37.	1.4	13
82	Rescue of cells from apoptosis increases DNA repair in UVB exposed cells: implications for the DNA damage response. Toxicology Research, 2015, 4, 725-738.	2.1	13
83	Further Evidence for a Possible Role of Conformation in the Immunogenicity and Antigenicity of the Oxidative DNA Lesion, 8-Oxo-2â€²Deoxyguanosine. Free Radical Research, 1998, 28, 459-469.	3.3	12
84	Endogenously generated DNA nucleobase modifications source, and significance as possible biomarkers of malignant transformation risk, and role in anticancer therapy. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1869, 29-41.	7.4	12
85	Influence of skin melanisation and ultraviolet radiation on biomarkers of systemic oxidative stress. Free Radical Biology and Medicine, 2020, 160, 40-46.	2.9	12
86	DNA nucleotide excision repair, where do all the cyclobutane pyrimidine dimers go?. Cell Cycle, 2013, 12, 1642-1642.	2.6	11
87	The Existence of MTH1-independent 8-oxodGTPase Activity in Cancer Cells as a Compensatory Mechanism against On-target Effects of MTH1 Inhibitors. Molecular Cancer Therapeutics, 2020, 19, 432-446.	4.1	11
88	Perspectives on Cyclobutane Pyrimidine Dimersâ€"Rise of the Dark Dimers^{â€}. Photochemistry and Photobiology, 2022, 98, 609-616.	2.5	11
89	Alkylating and oxidative stresses in smoking and non-smoking patients with COPD: Implications for lung carcinogenesis. Free Radical Biology and Medicine, 2021, 164, 99-106.	2.9	10
90	Analysis of Urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine by Liquid Chromatographyâ€"Tandem Mass Spectrometry. Methods in Molecular Biology, 2010, 610, 341-351.	0.9	9

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91	Genome-Wide Adductomics Analysis Reveals Heterogeneity in the Induction and Loss of Cyclobutane Thymine Dimers across Both the Nuclear and Mitochondrial Genomes. International Journal of Molecular Sciences, 2019, 20, 5112.	4.1	9
92	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. Chemosphere, 2021, 274, 129991.	8.2	9
93	Non-invasive Assessment of Oxidatively Damaged DNA: Liquid Chromatography-Tandem Mass Spectrometry Analysis of Urinary 8-Oxo-7,8-Dihydro-2â€²-Deoxyguanosine. Methods in Molecular Biology, 2011, 682, 279-289.	0.9	9
94	Special issue on DNA oxidation: Mechanisms, measurement and consequences. Free Radical Research, 2012, 46, 365-366.	3.3	6
95	Immuno-Slot Blot Assay for Detection of UVR-Mediated DNA Damage. Methods in Molecular Biology, 2012, 920, 163-175.	0.9	6
96	Does Nausea and Vomiting of Pregnancy Play a Role in the Association Found Between Maternal Caffeine Intake and Fetal Growth Restriction?. Maternal and Child Health Journal, 2013, 17, 601-608.	1.5	6
97	How Robust is the Evidence for a Role of Oxidative Stress in Autism Spectrum Disorders and Intellectual Disabilities?. Journal of Autism and Developmental Disorders, 2021, 51, 1428-1445.	2.7	6
98	Lipid- and Protein-Mediated Oxidative Damage to DNA. , 2006, , 201-220.		5
99	Immunochemical Detection of UV-Induced DNA Damage and Repair. Methods in Molecular Biology, 2006, 314, 215-228.	0.9	5
100	Case 3-2007: A Boy with Respiratory Insufficiency. New England Journal of Medicine, 2007, 356, 2329-2330.	27.0	5
101	Cell cycle and dose-dependence of DNA damage and p53 expression following UVA irradiation. Biochemical Society Transactions, 1995, 23, 481S-481S.	3.4	4
102	Antiserum detection of reactive carbonyl species-modified DNA in human colonocytes. Free Radical Research, 2008, 42, 344-353.	3.3	4
103	Lightâ€based methods for whole blood bacterial inactivation enabled by a recirculating flow system. Photochemistry and Photobiology, 2018, 94, 744-751.	2.5	4
104	Automated quantification of DNA damage via deep transfer learning based analysis of comet assay images. , 2019, , .		4
105	Redoxâ€regulation of DNA repair. BioFactors, 2003, 17, 315-324.	5.4	3
106	A comparison of the gene expression profiles of CRL-1807 colonocytes exposed to endogenous AAPH-generated peroxides and exogenous peroxides from heated oil. Redox Report, 2007, 12, 86-90.	4.5	3
107	Direct-acting DNA ethylating agents associated with tobacco use primarily originate from the tobacco itself, not combustion. Journal of Hazardous Materials, 2018, 358, 397-404.	12.4	3
108	Utilization of Complementary and Alternative Therapies in Youth with Developmental Disabilities. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-11.	1.2	3

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109	The Role of Oxidative Damage to Nucleic Acids in the Pathogenesis of Neurological Disease. , 2007, , 123-140.		2
110	Neurodegenerative disease and the repair of oxidatively damaged DNA. , 2005, , 131-140.		1
111	Maternal Caffeine Intake during Pregnancy and Risk of Fetal Growth Restriction: A Large Prospective Observational Study. Obstetric Anesthesia Digest, 2009, 29, 136-137.	0.1	1
112	Caffeine Intake During Pregnancy, Late Miscarriage, and Stillbirth. Obstetrical and Gynecological Survey, 2010, 65, 492-494.	0.4	1
113	Editorial: Mass Spectrometry for Adductomic Analysis. Frontiers in Chemistry, 2019, 7, 794.	3.6	1
114	Blackberries decrease DNA damage after 3 h, but not after 6 d, in healthy adult volunteers. FASEB Journal, 2013, 27, 864.4.	0.5	1
115	Mycosporine-like amino acids: does Nature make a better sunscreen?. British Journal of Dermatology, 2018, 178, 1239-1240.	1.5	0
116	Genome-wide Distribution of Oxidatively Damaged DNA, and Susceptibility to Cellular Senescence. Free Radical Biology and Medicine, 2019, 145, S46.	2.9	0
117	Immunochemical Detection of Oxidative DNA Damage. , 2002, , 275-293.		0
118	Abstract A43: Evaluation of the cytotoxic effects of 3-O-acetyl-11-keto-Î²-boswellic acid in ovarian cancer cells. , 2013, , .		0
119	Abstract LB-163: Genome-wide analysis of DNA damage and repair reveals differential sites and rates of repair, together with differential sensitivities to damage. , 2016, , .		0