

Marcus S Cooke

List of Publications by Year in descending order

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118
papers

9,572
citations

61857

43
h-index

37111

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. <i>FASEB Journal</i> , 2003, 17, 1195-1214.	0.2	2,603
2	Oxidative DNA damage and disease: induction, repair and significance. <i>Mutation Research - Reviews in Mutation Research</i> , 2004, 567, 1-61.	2.4	1,102
3	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, 4220-4235.	3.9	268
4	Biomarkers. <i>Molecular Aspects of Medicine</i> , 2002, 23, 101-208.	2.7	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). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
6	Factors contributing to the outcome of oxidative damage to nucleic acids. <i>BioEssays</i> , 2004, 26, 533-542.	1.2	229
7	Does measurement of oxidative damage to DNA have clinical significance?. <i>Clinica Chimica Acta</i> , 2006, 365, 30-49.	0.5	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. <i>Carcinogenesis</i> , 2002, 23, 2129-2133.	1.3	202
9	Measurement and Meaning of Oxidatively Modified DNA Lesions in Urine. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008, 17, 3-14.	1.1	202
10	Urinary 8-oxo-2-deoxyguanosine Source, significance and supplements. <i>Free Radical Research</i> , 2000, 32, 381-397.	1.5	194
11	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.	5.5	189
12	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.	0.4	174
13	Novel repair action of vitamin C upon in vivo oxidative DNA damage. <i>FEBS Letters</i> , 1998, 439, 363-367.	1.3	142
14	Plasma Levels of the Endocannabinoid Anandamide in Women: A Potential Role in Pregnancy Maintenance and Labor?. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 5482-5487.	1.8	131
15	Human and Methodological Sources of Variability in the Measurement of Urinary 8-Oxo-7,8-dihydro-2-deoxyguanosine. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2377-2391.	2.5	130
16	The Effects of Vitamin C Supplementation on Protein Oxidation in Healthy Volunteers. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 729-735.	1.0	127
17	Toward consensus in the analysis of urinary 8-oxo-7,8-dihydro-2-deoxyguanosine as a noninvasive biomarker of oxidative stress. <i>FASEB Journal</i> , 2010, 24, 1249-1260.	0.2	126
18	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, 367-381.	1.5	114

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19	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.	1.3	101
20	Immunogenicity of DNA Damaged by Reactive Oxygen Speciesâ€”Implications for Anti-DNA Antibodies in Lupus. <i>Free Radical Biology and Medicine</i> , 1997, 22, 151-159.	1.3	98
21	Urinary 8-oxo-2â€²-deoxyguanosine: redox regulation of DNA repair in vivo? 1 This 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.. <i>Free Radical Biology and Medicine</i> , 2002, 33, 875-885.	1.3	95
22	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, 267-274.	2.5	95
23	Progress in the analysis of urinary oxidative DNA damage. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1601-1614.	1.3	85
24	DNA repair and the origins of urinary oxidized 2'-deoxyribonucleosides. <i>Mutagenesis</i> , 2010, 25, 433-442.	1.0	82
25	Inter-laboratory variation in DNA damage using a standard comet assay protocol. <i>Mutagenesis</i> , 2012, 27, 665-672.	1.0	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. <i>Mutagenesis</i> , 2013, 28, 279-286.	1.0	78
27	Firstâ€”trimester increase in oxidative stress and risk of smallâ€”forâ€”gestationalâ€”age fetus. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2009, 116, 637-642.	1.1	73
28	Antioxidant vitamins and cancer risk: is oxidative damage to DNA a relevant biomarker?. <i>European Journal of Nutrition</i> , 2008, 47, 19-28.	1.8	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. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1829-1836.	1.3	71
30	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, 719-725.	1.3	69
31	Recommendations for Standardized Description of and Nomenclature Concerning Oxidatively Damaged Nucleobases in DNA. <i>Chemical Research in Toxicology</i> , 2010, 23, 705-707.	1.7	57
32	Aberrant Processing of Oxidative DNA Damage in Systemic Lupus Erythematosus. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 894-898.	1.0	56
33	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, 1011-1019.	2.5	55
34	Caffeine intake during pregnancy, late miscarriage and stillbirth. <i>European Journal of Epidemiology</i> , 2010, 25, 275-280.	2.5	55
35	Induction and Excretion of Ultraviolet-Induced 8-Oxo-2â€²-deoxyguanosine and Thymine Dimers In Vivo: Implications for PUVA. <i>Journal of Investigative Dermatology</i> , 2001, 116, 281-285.	0.3	54
36	Concurrent beneficial (vitamin D production) and hazardous (cutaneous DNA damage) impact of repeated lowâ€”level summer sunlight exposures. <i>British Journal of Dermatology</i> , 2016, 175, 1320-1328.	1.4	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. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2057-2063.	1.3	51
38	Biomarkers of nucleic acid oxidation â€” A summary state-of-the-art. <i>Redox Biology</i> , 2021, 42, 101872.	3.9	51
39	Analysis of urinary 8-oxo-7,8-dihydro-purine-2â€”-deoxyribonucleosides by LC-MS/MS and improved ELISA. <i>Free Radical Research</i> , 2008, 42, 831-840.	1.5	48
40	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.	0.4	48
41	Vitamin E inhibits the UVAI induction of â€œlightâ€ and â€œdarkâ€ cyclobutane pyrimidine dimers, and oxidatively generated DNA damage, in keratinocytes. <i>Scientific Reports</i> , 2018, 8, 423.	1.6	48
42	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. <i>Redox Biology</i> , 2019, 20, 556-565.	3.9	47
43	Sources of Extracellular, Oxidatively-Modified DNA Lesions: Implications for Their Measurement in Urine. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2009, 45, 255-270.	0.6	46
44	Combination of azathioprine and UVA irradiation is a major source of cellular 8-oxo-7,8-dihydro-2â€²-deoxyguanosine. <i>DNA Repair</i> , 2008, 7, 1982-1989.	1.3	45
45	Harmonising measurements of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine in cellular DNA and urine. <i>Free Radical Research</i> , 2012, 46, 541-553.	1.5	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. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2244-2252.	0.3	45
47	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.	4.8	44
48	Immunochemical detection of UV-induced DNA damage and repair. <i>Journal of Immunological Methods</i> , 2003, 280, 125-133.	0.6	43
49	Discrepancies in the Measurement of UVC-Induced 8-Oxo-2â€²-deoxyguanosine: Implications for the Analysis of Oxidative DNA Damage. <i>Biochemical and Biophysical Research Communications</i> , 1999, 259, 374-378.	1.0	42
50	Interpretation of urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine is adversely affected by methodological inaccuracies when using a commercial ELISA. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1460-1464.	1.3	41
51	Interlaboratory comparison of methodologies for the measurement of urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine. <i>Biomarkers</i> , 2009, 14, 103-110.	0.9	37
52	Immunochemical quantitation of UV-induced oxidative and dimeric DNA damage to human keratinocytes. <i>Free Radical Research</i> , 2000, 33, 369-381.	1.5	36
53	Role of dietary antioxidants in the prevention of in vivo oxidative DNA damage. <i>Nutrition Research Reviews</i> , 2002, 15, 19.	2.1	36
54	Urinary 8-oxo-7,8-dihydro-2â€²-deoxyguanosine values determined by a modified ELISA improves agreement with HPLCâ€”MS/MS. <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 725-730.	1.0	34

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55	8-Oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2- α -deoxyguanosine concentrations in various human body fluids: implications for their measurement and interpretation. <i>Archives of Toxicology</i> , 2015, 89, 201-210.	1.9	34
56	8-Oxo-deoxyguanosine: Reduce, reuse, recycle?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13535-13536.	3.3	32
57	Towards a comprehensive view of 8-oxo-7,8-dihydro-2- α -deoxyguanosine: Highlighting the intertwined roles of DNA damage and epigenetics in genomic instability. <i>DNA Repair</i> , 2021, 97, 103027.	1.3	32
58	Quantitative Determination of Cyclobutane Thymine Dimers in DNA by Stable Isotope Dilution Mass Spectrometry. <i>Photochemistry and Photobiology</i> , 1996, 64, 310-315.	1.3	31
59	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. <i>Mutagenesis</i> , 2014, 29, 241-249.	1.0	30
60	Urinary DNA adductomics – A novel approach for exposomics. <i>Environment International</i> , 2018, 121, 1033-1038.	4.8	28
61	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.	1.9	28
62	DNA Repair: Insights from Urinary Lesion Analysis. <i>Free Radical Research</i> , 2002, 36, 929-932.	1.5	27
63	Monoclonal Antibody to Single-Stranded DNA: A Potential Tool for DNA Repair Studies. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 232-238.	1.0	26
64	Salvage of oxidized guanine derivatives in the (2- α -deoxy)ribonucleotide pool as source of mutations in DNA. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 703, 11-17.	0.9	26
65	Nucleotide excision repair of oxidised genomic DNA is not a source of urinary 8-oxo-7,8-dihydro-2- α -deoxyguanosine. <i>Free Radical Biology and Medicine</i> , 2016, 99, 385-391.	1.3	26
66	Urinary 8-oxo-7,8-dihydro-2- α -deoxyguanosine analysis by an improved ELISA: An inter-laboratory comparison study. <i>Free Radical Biology and Medicine</i> , 2016, 95, 169-179.	1.3	24
67	Novel Monoclonal Antibody Recognition of Oxidative DNA Damage Adduct, Deoxycytidine-Glyoxal. <i>Laboratory Investigation</i> , 2003, 83, 241-250.	1.7	23
68	Urinary thymine dimers and 8-oxo-2- α -deoxyguanosine in psoriasis. <i>FEBS Letters</i> , 1999, 460, 549-553.	1.3	22
69	Novel method for the high-throughput processing of slides for the comet assay. <i>Scientific Reports</i> , 2014, 4, 7200.	1.6	22
70	Deoxycytidine glyoxal: lesion induction and evidence of repair following vitamin C supplementation in vivo. <i>Free Radical Biology and Medicine</i> , 2003, 34, 218-225.	1.3	21
71	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.	0.9	21
72	Evaluation of the Major Steps in the Conventional Protocol for the Alkaline Comet Assay. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6072.	1.8	19

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73	Evidence for attenuated cellular 8-oxo-7,8-dihydro-2- β -deoxyguanosine removal in cancer patients. <i>Biological Chemistry</i> , 2006, 387, 393-400.	1.2	17
74	17 β -Oestradiol attenuates nucleotide excision repair. <i>FEBS Letters</i> , 2003, 535, 153-158.	1.3	16
75	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, 1328-1334.	1.3	16
76	Development of a DNA Adductome Mass Spectral Database. <i>Chemical Research in Toxicology</i> , 2020, 33, 852-854.	1.7	16
77	Neutrophils in induced sputum from healthy children: Role of interleukin-8 and oxidative stress. <i>Respiratory Medicine</i> , 2007, 101, 2108-2112.	1.3	15
78	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, 30-31.	1.3	15
79	Genome-wide mapping of genomic DNA damage: methods and implications. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6745-6762.	2.4	15
80	DNA Crosslinkomics: A Tool for the Comprehensive Assessment of Interstrand Crosslinks Using High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 15193-15203.	3.2	14
81	Quantification of UVR-induced DNA damage: global- versus gene-specific levels of thymine dimers. <i>Journal of Immunological Methods</i> , 2003, 277, 27-37.	0.6	13
82	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.	0.9	13
83	Further Evidence for a Possible Role of Conformation in the Immunogenicity and Antigenicity of the Oxidative DNA Lesion, 8-Oxo-2- β -Deoxyguanosine. <i>Free Radical Research</i> , 1998, 28, 459-469.	1.5	12
84	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.	3.3	12
85	Influence of skin melanisation and ultraviolet radiation on biomarkers of systemic oxidative stress. <i>Free Radical Biology and Medicine</i> , 2020, 160, 40-46.	1.3	12
86	DNA nucleotide excision repair, where do all the cyclobutane pyrimidine dimers go?. <i>Cell Cycle</i> , 2013, 12, 1642-1642.	1.3	11
87	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, 432-446.	1.9	11
88	Perspectives on Cyclobutane Pyrimidine Dimers "Rise of the Dark Dimers". <i>Photochemistry and Photobiology</i> , 2022, 98, 609-616.	1.3	11
89	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.	1.3	10
90	Analysis of Urinary 8-oxo-7,8-dihydro-2- β -deoxyguanosine by Liquid Chromatography-Tandem Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2010, 610, 341-351.	0.4	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. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5112.	1.8	9
92	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. <i>Chemosphere</i> , 2021, 274, 129991.	4.2	9
93	Non-invasive Assessment of Oxidatively Damaged DNA: Liquid Chromatography-Tandem Mass Spectrometry Analysis of Urinary 8-Oxo-7,8-Dihydro-2-Deoxyguanosine. <i>Methods in Molecular Biology</i> , 2011, 682, 279-289.	0.4	9
94	Special issue on DNA oxidation: Mechanisms, measurement and consequences. <i>Free Radical Research</i> , 2012, 46, 365-366.	1.5	6
95	Immuno-Slot Blot Assay for Detection of UVR-Mediated DNA Damage. <i>Methods in Molecular Biology</i> , 2012, 920, 163-175.	0.4	6
96	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, 601-608.	0.7	6
97	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.	1.7	6
98	Lipid- and Protein-Mediated Oxidative Damage to DNA. , 2006, , 201-220.		5
99	Immunochemical Detection of UV-Induced DNA Damage and Repair. <i>Methods in Molecular Biology</i> , 2006, 314, 215-228.	0.4	5
100	Case 3-2007: A Boy with Respiratory Insufficiency. <i>New England Journal of Medicine</i> , 2007, 356, 2329-2330.	13.9	5
101	Cell cycle and dose-dependence of DNA damage and p53 expression following UVA irradiation. <i>Biochemical Society Transactions</i> , 1995, 23, 481S-481S.	1.6	4
102	Antiserum detection of reactive carbonyl species-modified DNA in human colonocytes. <i>Free Radical Research</i> , 2008, 42, 344-353.	1.5	4
103	Light-based methods for whole blood bacterial inactivation enabled by a recirculating flow system. <i>Photochemistry and Photobiology</i> , 2018, 94, 744-751.	1.3	4
104	Automated quantification of DNA damage via deep transfer learning based analysis of comet assay images. , 2019, , .		4
105	Redox-regulation of DNA repair. <i>BioFactors</i> , 2003, 17, 315-324.	2.6	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. <i>Redox Report</i> , 2007, 12, 86-90.	1.4	3
107	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.	6.5	3
108	Utilization of Complementary and Alternative Therapies in Youth with Developmental Disabilities. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-11.	0.5	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.	0.0	1
112	Caffeine Intake During Pregnancy, Late Miscarriage, and Stillbirth. Obstetrical and Gynecological Survey, 2010, 65, 492-494.	0.2	1
113	Editorial: Mass Spectrometry for Adductomic Analysis. Frontiers in Chemistry, 2019, 7, 794.	1.8	1
114	Blackberries decrease DNA damage after 3 h, but not after 6 d, in healthy adult volunteers. FASEB Journal, 2013, 27, 864.4.	0.2	1
115	Mycosporine-like amino acids: does Nature make a better sunscreen?. British Journal of Dermatology, 2018, 178, 1239-1240.	1.4	0
116	Immunochemical Detection of Oxidative DNA Damage. , 2002, , 275-293.		0
117	Abstract A43: Evaluation of the cytotoxic effects of 3-O-acetyl-11-keto- β -boswellic acid in ovarian cancer cells. , 2013, , .		0
118	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