Marcus S Cooke

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Perspectives on Cyclobutane Pyrimidine Dimersâ€"Rise of the Dark Dimers^{â€}. Photochemistry and Photobiology, 2022, 98, 609-616.	2.5	11
2	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
3	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
4	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
5	Biomarkers of nucleic acid oxidation â€“ A summary state-of-the-art. Redox Biology, 2021, 42, 101872.	9.0	51
6	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. Chemosphere, 2021, 274, 129991.	8.2	9
7	Genome-wide mapping of genomic DNA damage: methods and implications. Cellular and Molecular Life Sciences, 2021, 78, 6745-6762.	5.4	15
8	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
9	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
10	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
11	Development of a DNA Adductome Mass Spectral Database. Chemical Research in Toxicology, 2020, 33, 852-854.	3.3	16
12	Utilization of Complementary and Alternative Therapies in Youth with Developmental Disabilities. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-11.	1.2	3
13	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
14	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
15	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
16	Editorial: Mass Spectrometry for Adductomic Analysis. Frontiers in Chemistry, 2019, 7, 794.	3.6	1
17	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
18	Genome-wide Distribution of Oxidatively Damaged DNA, and Susceptibility to Cellular Senescence. Free Radical Biology and Medicine, 2019, 145, S46.	2.9	0

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19	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. Redox Biology, 2019, 20, 556-565.	9.0	47
20	Automated quantification of DNA damage via deep transfer learning based analysis of comet assay images. , 2019, , .		4
21	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
22	Lightâ€based methods for whole blood bacterial inactivation enabled by a recirculating flow system. Photochemistry and Photobiology, 2018, 94, 744-751.	2.5	4
23	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
24	Urinary DNA adductomics â€“ A novel approach for exposomics. Environment International, 2018, 121, 1033-1038.	10.0	28
25	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
26	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
27	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
28	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
29	Mycosporine-like amino acids: does Nature make a better sunscreen?. British Journal of Dermatology, 2018, 178, 1239-1240.	1.5	0
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. Mutagenesis, 2014, 29, 241-249.	2.6	30
38	Novel method for the high-throughput processing of slides for the comet assay. Scientific Reports, 2014, 4, 7200.	3.3	22
39	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
40	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
41	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
42	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
43	DNA nucleotide excision repair, where do all the cyclobutane pyrimidine dimers go?. Cell Cycle, 2013, 12, 1642-1642.	2.6	11
44	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
45	Abstract A43: Evaluation of the cytotoxic effects of 3-O-acetyl-11-keto-Î²-boswellic acid in ovarian cancer cells. , 2013, , .		0
46	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
47	Special issue on DNA oxidation: Mechanisms, measurement and consequences. Free Radical Research, 2012, 46, 365-366.	3.3	6
48	Inter-laboratory variation in DNA damage using a standard comet assay protocol. Mutagenesis, 2012, 27, 665-672.	2.6	79
49	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
50	Immuno-Slot Blot Assay for Detection of UVR-Mediated DNA Damage. Methods in Molecular Biology, 2012, 920, 163-175.	0.9	6
51	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
52	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
53	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
54	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

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55	Caffeine Intake During Pregnancy, Late Miscarriage, and Stillbirth. Obstetrical and Gynecological Survey, 2010, 65, 492-494.	0.4	1
56	Caffeine intake during pregnancy, late miscarriage and stillbirth. European Journal of Epidemiology, 2010, 25, 275-280.	5.7	55
57	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
58	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
59	DNA repair and the origins of urinary oxidized 2'-deoxyribonucleosides. Mutagenesis, 2010, 25, 433-442.	2.6	82
60	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
61	Recommendations for Standardized Description of and Nomenclature Concerning Oxidatively Damaged Nucleobases in DNA. Chemical Research in Toxicology, 2010, 23, 705-707.	3.3	57
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	Antioxidant vitamins and cancer risk: is oxidative damage to DNA a relevant biomarker?. European Journal of Nutrition, 2008, 47, 19-28.	3.9	72
72	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

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73	Measurement and Meaning of Oxidatively Modified DNA Lesions in Urine. Cancer Epidemiology Biomarkers and Prevention, 2008, 17, 3-14.	2.5	202
74	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
75	Antiserum detection of reactive carbonyl species-modified DNA in human colonocytes. Free Radical Research, 2008, 42, 344-353.	3.3	4
76	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
77	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
78	Case 3-2007: A Boy with Respiratory Insufficiency. New England Journal of Medicine, 2007, 356, 2329-2330.	27.0	5
79	Neutrophils in induced sputum from healthy children: Role of interleukin-8 and oxidative stress. Respiratory Medicine, 2007, 101, 2108-2112.	2.9	15
80	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
81	The Role of Oxidative Damage to Nucleic Acids in the Pathogenesis of Neurological Disease. , 2007, , 123-140.		2
82	Does measurement of oxidative damage to DNA have clinical significance?. Clinica Chimica Acta, 2006, 365, 30-49.	1.1	204
83	Lipid- and Protein-Mediated Oxidative Damage to DNA. , 2006, , 201-220.		5
84	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
85	Immunochemical Detection of UV-Induced DNA Damage and Repair. Methods in Molecular Biology, 2006, 314, 215-228.	0.9	5
86	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
87	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
88	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
89	Neurodegenerative disease and the repair of oxidatively damaged DNA. , 2005, , 131-140.		1
90	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

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91	Factors contributing to the outcome of oxidative damage to nucleic acids. BioEssays, 2004, 26, 533-542.	2.5	229
92	Oxidative DNA damage and disease: induction, repair and significance. Mutation Research - Reviews in Mutation Research, 2004, 567, 1-61.	5.5	1,102
93	Redoxâ€regulation of DNA repair. BioFactors, 2003, 17, 315-324.	5.4	3
94	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
95	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
96	Immunochemical detection of UV-induced DNA damage and repair. Journal of Immunological Methods, 2003, 280, 125-133.	1.4	43
97	Novel Monoclonal Antibody Recognition of Oxidative DNA Damage Adduct, Deoxycytidine-Glyoxal. Laboratory Investigation, 2003, 83, 241-250.	3.7	23
98	Oxidative DNA damage: mechanisms, mutation, and disease. FASEB Journal, 2003, 17, 1195-1214.	0.5	2,603
99	17Î²-Oestradiol attenuates nucleotide excision repair. FEBS Letters, 2003, 535, 153-158.	2.8	16
100	Role of dietary antioxidants in the prevention of in vivo oxidative DNA damage. Nutrition Research Reviews, 2002, 15, 19.	4.1	36
101	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
102	DNA Repair: Insights from Urinary Lesion Analysis. Free Radical Research, 2002, 36, 929-932.	3.3	27
103	Biomarkers. Molecular Aspects of Medicine, 2002, 23, 101-208.	6.4	250
104	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
105	Progress in the analysis of urinary oxidative DNA damage. Free Radical Biology and Medicine, 2002, 33, 1601-1614.	2.9	85
106	Immunochemical Detection of Oxidative DNA Damage. , 2002, , 275-293.		0
107	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
108	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

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109	Immunochemical quantitation of UV-induced oxidative and dimeric DNA damage to human keratinocytes. Free Radical Research, 2000, 33, 369-381.	3.3	36
110	The Effects of Vitamin C Supplementation on Protein Oxidation in Healthy Volunteers. Biochemical and Biophysical Research Communications, 2000, 273, 729-735.	2.1	127
111	Aberrant Processing of Oxidative DNA Damage in Systemic Lupus Erythematosus. Biochemical and Biophysical Research Communications, 2000, 273, 894-898.	2.1	56
112	Urinary 8-oxo-2â€²-deoxyguanosine â€" Source, significance and supplements. Free Radical Research, 2000, 32, 381-397.	3.3	194
113	Urinary thymine dimers and 8-oxo-2â€²-deoxyguanosine in psoriasis. FEBS Letters, 1999, 460, 549-553.	2.8	22
114	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
115	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
116	Novel repair action of vitamin C upon in vivo oxidative DNA damage. FEBS Letters, 1998, 439, 363-367.	2.8	142
117	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
118	Quantitative Determination of Cyclobutane Thymine Dimers in DNA by Stable Isotopeâ€Ðilution Mass Spectrometry. Photochemistry and Photobiology, 1996, 64, 310-315.	2.5	31
119	Cell cycle and dose-dependence of DNA damage and p53 expression following UVA irradiation. Biochemical Society Transactions, 1995, 23, 481S-481S.	3.4	4