Marcus S Cooke

List of Publications by Year in Descending Order

112 papers	7,871 citations	41 h-index	88 g-index
128 ext. papers	8,689 ext. citations	5.8 avg, IF	5.8 L-index

#	Paper	IF	Citations
112	Perspectives on Cyclobutane Pyrimidine Dimers-Rise of the Dark Dimers. *Photochemistry and Photobiology*, **2021**,	3.6	3
111	Biomarkers of nucleic acid oxidation - A summary state-of-the-art. *Redox Biology*, **2021**, 42, 101872	11.3	15
110	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	4.6	5
109	Towards a comprehensive view of 8-oxo-7,8-dihydro-2Sdeoxyguanosine: Highlighting the intertwined roles of DNA damage and epigenetics in genomic instability. *DNA Repair*, **2021**, 97, 103027	4.3	11
108	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	7.8	4
107	Is high resolution a strict requirement for mass spectrometry-based cellular DNA adductomics?. *Chemosphere*, **2021**, 274, 129991	8.4	3
106	Genome-wide mapping of genomic DNA damage: methods and implications. *Cellular and Molecular Life Sciences*, **2021**, 78, 6745-6762	10.3	2
105	Development of a DNA Adductome Mass Spectral Database. *Chemical Research in Toxicology*, **2020**, 33, 852-854	4	5
104	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	6.1	3
103	Influence of skin melanisation and ultraviolet radiation on biomarkers of systemic oxidative stress. *Free Radical Biology and Medicine*, **2020**, 160, 40-46	7.8	5
102	Minimum Information for Reporting on the Comet Assay (MIRCA): recommendations for describing comet assay procedures and results. *Nature Protocols*, **2020**, 15, 3817-3826	18.8	79
101	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	3	9
100	Utilization of Complementary and Alternative Therapies in Youth with Developmental Disabilities. *Evidence-based Complementary and Alternative Medicine*, **2019**, 2019, 3630509	2.3	1
99	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,	6.3	5
98	DNA Crosslinkomics: A Tool for the Comprehensive Assessment of Interstrand Crosslinks Using High Resolution Mass Spectrometry. *Analytical Chemistry*, **2019**, 91, 15193-15203	7.8	4
97	Automated quantification of DNA damage via deep transfer learning based analysis of comet assay images **2019**,		2
96	Evaluation of the Major Steps in the Conventional Protocol for the Alkaline Comet Assay. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	10

95	Clinical relevance of guanine-derived urinary biomarkers of oxidative stress, determined by LC-MS/MS. *Redox Biology*, **2019**, 20, 556-565	11.3	32
94	Vitamin E inhibits the UVAI induction of "light" and "dark" cyclobutane pyrimidine dimers, and oxidatively generated DNA damage, in keratinocytes. *Scientific Reports*, **2018**, 8, 423	4.9	33
93	Light-based methods for whole blood bacterial inactivation enabled by a recirculating flow system. *Photochemistry and Photobiology*, **2018**, 94, 744-751	3.6	2
92	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	12.8	1
91	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. *Journal of Investigative Dermatology*, **2018**, 138, 2244-2252	4.3	31
90	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	12.9	32
89	Mycosporine-like amino acids: does Nature make a better sunscreen?. *British Journal of Dermatology*, **2018**, 178, 1239-1240	4	
88	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	11.2	10
87	Urinary DNA adductomics - A novel approach for exposomics. *Environment International*, **2018**, 121, 1033-1038	11.9	15
86	Novel approach to integrated DNA adductomics for the assessment of in vitro and in vivo environmental exposures. *Archives of Toxicology*, **2018**, 92, 2665-2680	5.8	20
85	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	11.3	185
84	Concurrent beneficial (vitamin D production) and hazardous (cutaneous DNA damage) impact of repeated low-level summer sunlight exposures. *British Journal of Dermatology*, **2016**, 175, 1320-1328	4	45
83	Urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine analysis by an improved ELISA: An inter-laboratory comparison study. *Free Radical Biology and Medicine*, **2016**, 95, 169-79	7.8	17
82	Nucleotide excision repair of oxidised genomic DNA is not a source of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. *Free Radical Biology and Medicine*, **2016**, 99, 385-391	7.8	23
81	Rescue of cells from apoptosis increases DNA repair in UVB exposed cells: implications for the DNA damage response. *Toxicology Research*, **2015**, 4, 725-738	2.6	10
80	8-Oxo-7,8-dihydroguanine and 8-oxo-7,8-dihydro-2Sdeoxyguanosine concentrations in various human body fluids: implications for their measurement and interpretation. *Archives of Toxicology*, **2015**, 89, 201-10	5.8	24
79	Novel method for the high-throughput processing of slides for the comet assay. *Scientific Reports*, **2014**, 4, 7200	4.9	14
78	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. *Mutagenesis*, **2014**, 29, 241-9	2.8	22

77	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, 601-8	2.4	5
76	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, 279-86	2.8	61
75	Human and methodological sources of variability in the measurement of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. *Antioxidants and Redox Signaling*, **2013**, 18, 2377-91	8.4	107
74	Urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine values determined by a modified ELISA improves agreement with HPLC-MS/MS. *Biochemical and Biophysical Research Communications*, **2013**, 440, 725-30	3.4	25
73	DNA nucleotide excision repair, where do all the cyclobutane pyrimidine dimers go?. *Cell Cycle*, **2013**, 12, 1642	4.7	5
72	Blackberries decrease DNA damage after 3 h, but not after 6 d, in healthy adult volunteers. *FASEB Journal*, **2013**, 27, 864.4	0.9	1
71	Inter-laboratory variation in DNA damage using a standard comet assay protocol. *Mutagenesis*, **2012**, 27, 665-72	2.8	64
70	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, 367-81	4	97
69	Immuno-slot blot assay for detection of UVR-mediated DNA damage. *Methods in Molecular Biology*, **2012**, 920, 163-75	1.4	5
68	Harmonising measurements of 8-oxo-7,8-dihydro-2Sdeoxyguanosine in cellular DNA and urine. *Free Radical Research*, **2012**, 46, 541-53	4	36
67	Rapid measurement of 8-oxo-7,8-dihydro-2Sdeoxyguanosine in human biological matrices using ultra-high-performance liquid chromatography-tandem mass spectrometry. *Free Radical Biology and Medicine*, **2012**, 52, 2057-63	7.8	45
66	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, 267-74	10.2	80
65	Simplified method for the collection, storage, and comet assay analysis of DNA damage in whole blood. *Free Radical Biology and Medicine*, **2011**, 51, 719-25	7.8	56
64	Non-invasive assessment of oxidatively damaged DNA: liquid chromatography-tandem mass spectrometry analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. *Methods in Molecular Biology*, **2011**, 682, 279-89	1.4	9
63	Mutations in the selenocysteine insertion sequence-binding protein 2 gene lead to a multisystem selenoprotein deficiency disorder in humans. *Journal of Clinical Investigation*, **2010**, 120, 4220-35	15.9	229
62	DNA repair and the origins of urinary oxidized 2Sdeoxyribonucleosides. *Mutagenesis*, **2010**, 25, 433-42	2.8	69
61	Toward consensus in the analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine as a noninvasive biomarker of oxidative stress. *FASEB Journal*, **2010**, 24, 1249-60	0.9	108
60	Recommendations for standardized description of and nomenclature concerning oxidatively damaged nucleobases in DNA. *Chemical Research in Toxicology*, **2010**, 23, 705-7	4	51

59	Salvage of oxidized guanine derivatives in the (2Sdeoxy)ribonucleotide pool as source of mutations in DNA. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2010**, 703, 11-7	3	20
58	Analysis of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine by liquid chromatography-tandem mass spectrometry. *Methods in Molecular Biology*, **2010**, 610, 341-51	1.4	7
57	Caffeine intake during pregnancy, late miscarriage and stillbirth. *European Journal of Epidemiology*, **2010**, 25, 275-80	12.1	46
56	Interpretation of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine is adversely affected by methodological inaccuracies when using a commercial ELISA. *Free Radical Biology and Medicine*, **2010**, 48, 1460-4	7.8	38
55	Gene expression profiling reveals new protective roles for vitamin C in human skin cells. *Free Radical Biology and Medicine*, **2009**, 46, 78-87	7.8	77
54	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?. *Free Radical Biology and Medicine*, **2009**, 47, 30-1	7.8	15
53	First-trimester increase in oxidative stress and risk of small-for-gestational-age fetus. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2009**, 116, 637-42	3.7	57
52	Interlaboratory comparison of methodologies for the measurement of urinary 8-oxo-7,8-dihydro-2Sdeoxyguanosine. *Biomarkers*, **2009**, 14, 103-10	2.6	33
51	Cytotoxicity and gene expression profiling of two hydroxylated polybrominated diphenyl ethers in human H295R adrenocortical carcinoma cells. *Toxicology Letters*, **2009**, 185, 23-31	4.4	43
50	Sources of extracellular, oxidatively-modified DNA lesions: implications for their measurement in urine. *Journal of Clinical Biochemistry and Nutrition*, **2009**, 45, 255-70	3.1	44
49	Combination of azathioprine and UVA irradiation is a major source of cellular 8-oxo-7,8-dihydro-2Sdeoxyguanosine. *DNA Repair*, **2008**, 7, 1982-9	4.3	44
48	Measurement and meaning of oxidatively modified DNA lesions in urine. *Cancer Epidemiology Biomarkers and Prevention*, **2008**, 17, 3-14	4	180
47	Analysis of urinary 8-oxo-7,8-dihydro-purine-2Sdeoxyribonucleosides by LC-MS/MS and improved ELISA. *Free Radical Research*, **2008**, 42, 831-40	4	42
46	Antiserum detection of reactive carbonyl species-modified DNA in human colonocytes. *Free Radical Research*, **2008**, 42, 344-53	4	4
45	Antioxidant vitamins and cancer risk: is oxidative damage to DNA a relevant biomarker?. *European Journal of Nutrition*, **2008**, 47 Suppl 2, 19-28	5.2	65
44	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, 1328-34	7.8	15
43	8-Oxo-deoxyguanosine: reduce, reuse, recycle?. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 13535-6	11.5	27
42	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	5.9	3

41	Case 3-2007: a boy with respiratory insufficiency. *New England Journal of Medicine*, **2007**, 356, 2329; author reply 2330	59.2	3
40	Neutrophils in induced sputum from healthy children: role of interleukin-8 and oxidative stress. *Respiratory Medicine*, **2007**, 101, 2108-12	4.6	14
39	The Role of Oxidative Damage to Nucleic Acids in the Pathogenesis of Neurological Disease **2007**, 123-140		1
38	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. *Free Radical Biology and Medicine*, **2006**, 41, 1829-36	7.8	68
37	Immunochemical detection of UV-induced DNA damage and repair. *Methods in Molecular Biology*, **2006**, 314, 215-28	1.4	3
36	Evidence for attenuated cellular 8-oxo-7,8-dihydro-2Sdeoxyguanosine removal in cancer patients. *Biological Chemistry*, **2006**, 387, 393-400	4.5	15
35	Urinary measurement of 8-OxodG, 8-OxoGua, and 5HMUra: a noninvasive assessment of oxidative damage to DNA. *Antioxidants and Redox Signaling*, **2006**, 8, 1011-9	8.4	51
34	Does measurement of oxidative damage to DNA have clinical significance?. *Clinica Chimica Acta*, **2006**, 365, 30-49	6.2	186
33	Lipid- and Protein-Mediated Oxidative Damage to DNA **2006**, 201-220		4
32	Mechanisms of DNA Damage and Repair in Alzheimer Disease **2006**, 98-113		
31	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	3.3	142
30	Neurodegenerative disease and the repair of oxidatively damaged DNA **2005**, 131-140		
29	Plasma levels of the endocannabinoid anandamide in women--a potential role in pregnancy maintenance and labor?. *Journal of Clinical Endocrinology and Metabolism*, **2004**, 89, 5482-7	5.6	103
28	Factors contributing to the outcome of oxidative damage to nucleic acids. *BioEssays*, **2004**, 26, 533-42	4.1	199
27	Oxidative DNA damage and disease: induction, repair and significance. *Mutation Research - Reviews in Mutation Research*, **2004**, 567, 1-61	7	930
26	Redox-regulation of DNA repair. *BioFactors*, **2003**, 17, 315-24	6.1	3
25	Deoxycytidine glyoxal: lesion induction and evidence of repair following vitamin C supplementation in vivo. *Free Radical Biology and Medicine*, **2003**, 34, 218-25	7.8	16
24	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

23	Immunochemical detection of UV-induced DNA damage and repair. *Journal of Immunological Methods*, **2003**, 280, 125-33	2.5	41
22	Novel monoclonal antibody recognition of oxidative DNA damage adduct, deoxycytidine-glyoxal. *Laboratory Investigation*, **2003**, 83, 241-50	5.9	20
21	Oxidative DNA damage: mechanisms, mutation, and disease. *FASEB Journal*, **2003**, 17, 1195-214	0.9	2205
20	17 beta-Oestradiol attenuates nucleotide excision repair. *FEBS Letters*, **2003**, 535, 153-8	3.8	14
19	Urinary 8-oxo-2Sdeoxyguanosine: redox regulation of DNA repair in vivo?. *Free Radical Biology and Medicine*, **2002**, 33, 875-85	7.8	80
18	Progress in the analysis of urinary oxidative DNA damage. *Free Radical Biology and Medicine*, **2002**, 33, 1601-14	7.8	72
17	Role of dietary antioxidants in the prevention of in vivo oxidative DNA damage. *Nutrition Research Reviews*, **2002**, 15, 19-42	7	29
16	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, 2129-33	4.6	164
15	DNA repair: insights from urinary lesion analysis. *Free Radical Research*, **2002**, 36, 929-32	4	24
14	Biomarkers. *Molecular Aspects of Medicine*, **2002**, 23, 101-208	16.7	233
13	Induction and excretion of ultraviolet-induced 8-oxo-2Sdeoxyguanosine and thymine dimers in vivo: implications for PUVA. *Journal of Investigative Dermatology*, **2001**, 116, 281-5	4.3	44
12	Monoclonal antibody to single-stranded DNA: a potential tool for DNA repair studies. *Biochemical and Biophysical Research Communications*, **2001**, 284, 232-8	3.4	26
11	Immunochemical quantitation of UV-induced oxidative and dimeric DNA damage to human keratinocytes. *Free Radical Research*, **2000**, 33, 369-81	4	31
10	The effects of vitamin C supplementation on protein oxidation in healthy volunteers. *Biochemical and Biophysical Research Communications*, **2000**, 273, 729-35	3.4	111
9	Aberrant processing of oxidative DNA damage in systemic lupus erythematosus. *Biochemical and Biophysical Research Communications*, **2000**, 273, 894-8	3.4	53
8	Urinary 8-oxo-2Sdeoxyguanosine--source, significance and supplements. *Free Radical Research*, **2000**, 32, 381-97	4	157
7	Urinary thymine dimers and 8-oxo-2Sdeoxyguanosine in psoriasis. *FEBS Letters*, **1999**, 460, 549-53	3.8	19
6	Discrepancies in the measurement of UVC-induced 8-oxo-2Sdeoxyguanosine: implications for the analysis of oxidative DNA damage. *Biochemical and Biophysical Research Communications*, **1999**, 259, 374-8	3.4	34

5	Further evidence for a possible role of conformation in the immunogenicity and antigenicity of the oxidative DNA lesion, 8-oxo-2'-deoxyguanosine. *Free Radical Research*, **1998**, 28, 459-69	4	9
4	Novel repair action of vitamin C upon in vivo oxidative DNA damage. *FEBS Letters*, **1998**, 439, 363-7	3.8	122
3	Immunogenicity of DNA damaged by reactive oxygen species--implications for anti-DNA antibodies in lupus. *Free Radical Biology and Medicine*, **1997**, 22, 151-9	7.8	90
2	Quantitative determination of cyclobutane thymine dimers in DNA by stable isotope-dilution mass spectrometry. *Photochemistry and Photobiology*, **1996**, 64, 310-5	3.6	27
1	Cell cycle and dose-dependence of DNA damage and p53 expression following UVA irradiation. *Biochemical Society Transactions*, **1995**, 23, 481S	5.1	3