

Peter C Dedon

List of Publications by Year in Descending Order

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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.

209
papers

10,464
citations

55
h-index

96
g-index

224
ext. papers

12,273
ext. citations

8.1
avg, IF

6.2
L-index

#	Paper	IF	Citations
209	Crystal structure and functional analysis of mycobacterial erythromycin resistance methyltransferase Erm38 reveals its RNA binding site.. <i>Journal of Biological Chemistry</i> , 2022 , 101571	5.4	0
208	Nanopore Sequencing for Detection and Characterization of Phosphorothioate Modifications in Native DNA Sequences.. <i>Frontiers in Microbiology</i> , 2022 , 13, 871937	5.7	0
207	Malaria Parasite Stress Tolerance Is Regulated by DNMT2-Mediated tRNA Cytosine Methylation. <i>MBio</i> , 2021 , e0255821	7.8	2
206	Transcription-wide mapping of dihydrouridine reveals that mRNA dihydrouridylation is required for meiotic chromosome segregation. <i>Molecular Cell</i> , 2021 ,	17.6	4
205	Depletion of METTL3 alters cellular and extracellular levels of miRNAs containing mA consensus sequences.. <i>Heliyon</i> , 2021 , 7, e08519	3.6	1
204	Functional Characterization of the mA-Dependent Translational Modulator PFYTH.2 in the Human Malaria Parasite. <i>MBio</i> , 2021 , 12,	7.8	3
203	Quantitative mapping of the cellular small RNA landscape with AQRNA-seq. <i>Nature Biotechnology</i> , 2021 , 39, 978-988	44.5	10
202	Queuine Is a Nutritional Regulator of Entamoeba histolytica Response to Oxidative Stress and a Virulence Attenuator. <i>MBio</i> , 2021 , 12,	7.8	5
201	Detecting the epitranscriptome. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021 , 12, e1663	9.3	6
200	tRNA-modifying enzyme mutations induce codon-specific mistranslation and protein aggregation in yeast. <i>RNA Biology</i> , 2021 , 18, 563-575	4.8	4
199	Phenoxy Radical Reactivity of Nucleic Acids: Practical Implications for Biotinylation. <i>ChemBioChem</i> , 2021 , 22, 1400-1404	3.8	1
198	Strategies to Avoid Artifacts in Mass Spectrometry-Based Epitranscriptome Analyses. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23885-23893	16.4	5
197	Strategien zur Vermeidung von Artefakten in der massenspektrometrischen Epitranskriptomanalytik. <i>Angewandte Chemie</i> , 2021 , 133, 24078	3.6	
196	Development of Methods Derived from Iodine-Induced Specific Cleavage for Identification and Quantitation of DNA Phosphorothioate Modifications. <i>Biomolecules</i> , 2020 , 10,	5.9	2
195	Nick-seq for single-nucleotide resolution genomic maps of DNA modifications and damage. <i>Nucleic Acids Research</i> , 2020 , 48, 6715-6725	20.1	24
194	Comparative tRNA sequencing and RNA mass spectrometry for surveying tRNA modifications. <i>Nature Chemical Biology</i> , 2020 , 16, 964-972	11.7	19
193	Epigenetic competition reveals density-dependent regulation and target site plasticity of phosphorothioate epigenetics in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14322-14330	11.5	13

192	Loss of Elongator- and KEOPS-Dependent tRNA Modifications Leads to Severe Growth Phenotypes and Protein Aggregation in Yeast. <i>Biomolecules</i> , 2020 , 10,	5.9	9
191	Irp2 regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification. <i>Nature Communications</i> , 2020 , 11, 296	17.4	28
190	SspABCD-SspE is a phosphorothioation-sensing bacterial defence system with broad anti-phage activities. <i>Nature Microbiology</i> , 2020 , 5, 917-928	26.6	34
189	Discovery of a new predominant cytosine DNA modification that is linked to gene expression in malaria parasites. <i>Nucleic Acids Research</i> , 2020 , 48, 184-199	20.1	11
188	Illuminating Host-Mycobacterial Interactions with Genome-wide CRISPR Knockout and CRISPRi Screens. <i>Cell Systems</i> , 2020 , 11, 239-251.e7	10.6	5
187	Protein Domain Guided Screen for Sequence Specific and Phosphorothioate-Dependent Restriction Endonucleases. <i>Frontiers in Microbiology</i> , 2020 , 11, 1960	5.7	1
186	Crystal structure of the periplasmic sensor domain of histidine kinase VbrK suggests indirect sensing of β -lactam antibiotics. <i>Journal of Structural Biology</i> , 2020 , 212, 107610	3.4	3
185	Tagging Transferrin Receptor with a Disulfide FRET Probe To Gauge the Redox State in Endosomal Compartments. <i>Analytical Chemistry</i> , 2020 , 92, 12460-12466	7.8	14
184	Pyruvate kinase from Plasmodium falciparum: Structural and kinetic insights into the allosteric mechanism. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 532, 370-376	3.4	2
183	Detection of preQ0 deazaguanine modifications in bacteriophage CAjan DNA using Nanopore sequencing reveals same hypermodification at two distinct DNA motifs. <i>Nucleic Acids Research</i> , 2020 , 48, 10383-10396	20.1	6
182	Exploring the virulence gene interactome with CRISPR/dCas9 in the human malaria parasite. <i>Molecular Systems Biology</i> , 2020 , 16, e9569	12.2	16
181	DNA Phosphorothioate Modifications Are Widely Distributed in the Human Microbiome. <i>Biomolecules</i> , 2020 , 10,	5.9	8
180	The epitranscriptomic writer ALKBH8 drives tolerance and protects mouse lungs from the environmental pollutant naphthalene. <i>Epigenetics</i> , 2020 , 15, 1121-1138	5.7	6
179	Thienopyrimidinone Derivatives That Inhibit Bacterial tRNA (Guanine37-)-Methyltransferase (TrmD) by Restructuring the Active Site with a Tyrosine-Flipping Mechanism. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7788-7805	8.3	12
178	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. <i>Nucleic Acids Research</i> , 2019 , 47, e130	20.1	62
177	Discovery of novel bacterial queuine salvage enzymes and pathways in human pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19126-19135	11.5	20
176	Targeting the Bacterial Epitranscriptome for Antibiotic Development: Discovery of Novel tRNA-(NG37) Methyltransferase (TrmD) Inhibitors. <i>ACS Infectious Diseases</i> , 2019 , 5, 326-335	5.5	20
175	Reciprocal regulation of TORC signaling and tRNA modifications by Elongator enforces nutrient-dependent cell fate. <i>Science Advances</i> , 2019 , 5, eaav0184	14.3	14

174	Backbone resonance assignment for the full length tRNA-(NG37) methyltransferase of <i>Pseudomonas aeruginosa</i> . <i>Biomolecular NMR Assignments</i> , 2019 , 13, 327-332	0.7	
173	The Versatile Roles of the tRNA Epitranscriptome during Cellular Responses to Toxic Exposures and Environmental Stress. <i>Toxics</i> , 2019 , 7,	4.7	27
172	Crystal structure and catalytic mechanism of the essential mG37 tRNA methyltransferase TrmD from. <i>Rna</i> , 2019 , 25, 1481-1496	5.8	8
171	Pyruvate Kinase Regulates the Pentose-Phosphate Pathway in Response to Hypoxia in <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2019 , 431, 3690-3705	6.5	4
170	Transcriptome-wide dynamics of extensive mA mRNA methylation during <i>Plasmodium falciparum</i> blood-stage development. <i>Nature Microbiology</i> , 2019 , 4, 2246-2259	26.6	30
169	The road less traveled: A new phosphorothioate antiviral defense mechanism discovered in Archaea. <i>Synthetic and Systems Biotechnology</i> , 2019 , 4, 132-133	4.2	
168	7-Deazaguanine modifications protect phage DNA from host restriction systems. <i>Nature Communications</i> , 2019 , 10, 5442	17.4	34
167	DNA phosphorothioate modification-a new multi-functional epigenetic system in bacteria. <i>FEMS Microbiology Reviews</i> , 2019 , 43, 109-122	15.1	53
166	Backbone resonance assignment for the N-terminal region of bacterial tRNA-(NG37) methyltransferase. <i>Biomolecular NMR Assignments</i> , 2019 , 13, 49-53	0.7	2
165	Transfer RNA Induces IL-12p70 via Synergistic Activation of Pattern Recognition Receptors within a Cell Network. <i>Journal of Immunology</i> , 2018 , 200, 3244-3258	5.3	12
164	The tA modification acts as a positive determinant for the anticodon nuclease PrrC, and is distinctively nonessential in <i>Streptococcus mutans</i> . <i>RNA Biology</i> , 2018 , 15, 508-517	4.8	9
163	Phosphorylation of human TRM9L integrates multiple stress-signaling pathways for tumor growth suppression. <i>Science Advances</i> , 2018 , 4, eaas9184	14.3	10
162	Beyond the Central Dogma: The tRNA epitranscriptome and an alternative genetic code tune translation during stress in eukaryotes, prokaryotes and viral infections. <i>FASEB Journal</i> , 2018 , 32, 381.4	0.9	
161	A Proteomics Approach to Profiling the Temporal Translational Response to Stress and Growth. <i>iScience</i> , 2018 , 9, 367-381	6.1	22
160	Lifestyle modifications: coordinating the tRNA epitranscriptome with codon bias to adapt translation during stress responses. <i>Genome Biology</i> , 2018 , 19, 228	18.3	29
159	Thiazolidin-5-imine Formation as a Catalyst-Free Bioorthogonal Reaction for Protein and Live Cell Labeling. <i>Organic Letters</i> , 2018 , 20, 7790-7793	6.2	4
158	Aristolochic Acids as Persistent Soil Pollutants: Determination of Risk for Human Exposure and Nephropathy from Plant Uptake. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 11468-11476	5.7	26
157	tRNA epitranscriptomics and biased codon are linked to proteome expression in. <i>Molecular Systems Biology</i> , 2018 , 14, e8009	12.2	17

156	Identification of the minimal bacterial 2Rdeoxy-7-amido-7-deazaguanine synthesis machinery. <i>Molecular Microbiology</i> , 2018 , 110, 469-483	4.1	7
155	tRNA N6-adenosine threonylcarbamoyltransferase defect due to KAE1/TCS3 (OSGEP) mutation manifest by neurodegeneration and renal tubulopathy. <i>European Journal of Human Genetics</i> , 2017 , 25, 545-551	5.3	51
154	Convergence of DNA methylation and phosphorothioation epigenetics in bacterial genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4501-4506	11.5	46
153	Oxidation of phosphorothioate DNA modifications leads to lethal genomic instability. <i>Nature Chemical Biology</i> , 2017 , 13, 888-894	11.7	37
152	N-Formyllysine as a Biomarker of Formaldehyde Exposure: Formation and Loss of N-Formyllysine in Nasal Epithelium in Long-Term, Low-Dose Inhalation Studies in Rats. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1572-1576	4	9
151	Mutations in KEOPS-complex genes cause nephrotic syndrome with primary microcephaly. <i>Nature Genetics</i> , 2017 , 49, 1529-1538	36.3	105
150	Allosteric pyruvate kinase-based "logic gate" synergistically senses energy and sugar levels in Mycobacterium tuberculosis. <i>Nature Communications</i> , 2017 , 8, 1986	17.4	25
149	The mA pathway facilitates sex determination in Drosophila. <i>Nature Communications</i> , 2017 , 8, 15737	17.4	103
148	Three distinct 3-methylcytidine (mC) methyltransferases modify tRNA and mRNA in mice and humans. <i>Journal of Biological Chemistry</i> , 2017 , 292, 14695-14703	5.4	112
147	Production of Superoxide in Bacteria Is Stress- and Cell State-Dependent: A Gating-Optimized Flow Cytometry Method that Minimizes ROS Measurement Artifacts with Fluorescent Dyes. <i>Frontiers in Microbiology</i> , 2017 , 8, 459	5.7	42
146	tRNA-mediated codon-biased translation in mycobacterial hypoxic persistence. <i>Nature Communications</i> , 2016 , 7, 13302	17.4	79
145	Methylation at position 32 of tRNA catalyzed by TrmJ alters oxidative stress response in Pseudomonas aeruginosa. <i>Nucleic Acids Research</i> , 2016 , 44, 10834-10848	20.1	31
144	Transcriptional Profiling of Mycobacterium tuberculosis Exposed to In Vitro Lysosomal Stress. <i>Infection and Immunity</i> , 2016 , 84, 2505-23	3.7	32
143	Gene- and genome-based analysis of significant codon patterns in yeast, rat and mice genomes with the CUT Codon UTILization tool. <i>Methods</i> , 2016 , 107, 98-109	4.6	12
142	Novel genomic island modifies DNA with 7-deazaguanine derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1452-9	11.5	66
141	The role of sequence context, nucleotide pool balance and stress in 2Rdeoxynucleotide misincorporation in viral, bacterial and mammalian RNA. <i>Nucleic Acids Research</i> , 2016 , 44, 8962-8975	20.1	5
140	m(6)A-LAIC-seq reveals the census and complexity of the m(6)A epitranscriptome. <i>Nature Methods</i> , 2016 , 13, 692-8	21.6	211
139	Immunostimulating and Gram-negative-specific antibacterial cyclotides from the butterfly pea (Clitoria ternatea). <i>FEBS Journal</i> , 2016 , 283, 2067-90	5.7	32

138	N(6)-Methyladenosine RNA Modification Regulates Shoot Stem Cell Fate in Arabidopsis. <i>Developmental Cell</i> , 2016 , 38, 186-200	10.2	164
137	Mycobacterial RNA isolation optimized for non-coding RNA: high fidelity isolation of 5S rRNA from Mycobacterium bovis BCG reveals novel post-transcriptional processing and a complete spectrum of modified ribonucleosides. <i>Nucleic Acids Research</i> , 2015 , 43, e32	20.1	9
136	A Platform for Discovery and Quantification of Modified Ribonucleosides in RNA: Application to Stress-Induced Reprogramming of tRNA Modifications. <i>Methods in Enzymology</i> , 2015 , 560, 29-71	1.7	50
135	Highly Predictive Reprogramming of tRNA Modifications Is Linked to Selective Expression of Codon-Biased Genes. <i>Chemical Research in Toxicology</i> , 2015 , 28, 978-88	4	53
134	Codon-biased translation can be regulated by wobble-base tRNA modification systems during cellular stress responses. <i>RNA Biology</i> , 2015 , 12, 603-14	4.8	98
133	Metabolic fate of endogenous molecular damage: Urinary glutathione conjugates of DNA-derived base propenals as markers of inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4845-53	11.5	8
132	In vitro analysis of phosphorothioate modification of DNA reveals substrate recognition by a multiprotein complex. <i>Scientific Reports</i> , 2015 , 5, 12513	4.9	10
131	Trm9-Catalyzed tRNA Modifications Regulate Global Protein Expression by Codon-Biased Translation. <i>PLoS Genetics</i> , 2015 , 11, e1005706	6	68
130	Alkbh8 Regulates Selenocysteine-Protein Expression to Protect against Reactive Oxygen Species Damage. <i>PLoS ONE</i> , 2015 , 10, e0131335	3.7	45
129	An extensive allelic series of Drosophila kae1 mutants reveals diverse and tissue-specific requirements for t6A biogenesis. <i>Rna</i> , 2015 , 21, 2103-18	5.8	10
128	Quantitative analysis of ribonucleoside modifications in tRNA by HPLC-coupled mass spectrometry. <i>Nature Protocols</i> , 2014 , 9, 828-41	18.8	136
127	Identification and codon reading properties of 5-cyanomethyl uridine, a new modified nucleoside found in the anticodon wobble position of mutant haloarchaeal isoleucine tRNAs. <i>Rna</i> , 2014 , 20, 177-88	5.8	18
126	A system of RNA modifications and biased codon use controls cellular stress response at the level of translation. <i>Chemical Research in Toxicology</i> , 2014 , 27, 330-7	4	64
125	Pathological phenotypes and in vivo DNA cleavage by unrestrained activity of a phosphorothioate-based restriction system in Salmonella. <i>Molecular Microbiology</i> , 2014 , 93, 776-85	4.1	32
124	m(6)A RNA modification controls cell fate transition in mammalian embryonic stem cells. <i>Cell Stem Cell</i> , 2014 , 15, 707-19	18	675
123	Diverse cell stresses induce unique patterns of tRNA up- and down-regulation: tRNA-seq for quantifying changes in tRNA copy number. <i>Nucleic Acids Research</i> , 2014 , 42, e170	20.1	79
122	tRNA modifications regulate translation during cellular stress. <i>FEBS Letters</i> , 2014 , 588, 4287-96	3.8	98
121	Genomic mapping of phosphorothioates reveals partial modification of short consensus sequences. <i>Nature Communications</i> , 2014 , 5, 3951	17.4	70

120	28S rRNA is inducibly pseudouridylated by the mTOR pathway translational control in CHO cell cultures. <i>Journal of Biotechnology</i> , 2014 , 174, 16-21	3.7	21
119	A multidimensional platform for the purification of non-coding RNA species. <i>Nucleic Acids Research</i> , 2013 , 41, e168	20.1	34
118	An automated Fpg-based FADU method for the detection of oxidative DNA lesions and screening of antioxidants. <i>Toxicology</i> , 2013 , 310, 15-21	4.4	11
117	Chemistry meets biology in colitis-associated carcinogenesis. <i>Free Radical Research</i> , 2013 , 47, 958-86	4	30
116	Induction of functional human macrophages from bone marrow promonocytes by M-CSF in humanized mice. <i>Journal of Immunology</i> , 2013 , 191, 3192-9	5.3	37
115	Quantification of cellular poly(ADP-ribosylation) by stable isotope dilution mass spectrometry reveals tissue- and drug-dependent stress response dynamics. <i>ACS Chemical Biology</i> , 2013 , 8, 1567-75	4.9	40
114	Increased levels of inosine in a mouse model of inflammation. <i>Chemical Research in Toxicology</i> , 2013 , 26, 538-46	4	13
113	Dosimetry of N ^ε -formyllysine adducts following [14C]-formaldehyde exposures in rats. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1421-3	4	30
112	Comparative analysis of four oxidized guanine lesions from reactions of DNA with peroxynitrite, singlet oxygen, and γ -radiation. <i>Chemical Research in Toxicology</i> , 2013 , 26, 195-202	4	47
111	DNA methylation impacts gene expression and ensures hypoxic survival of Mycobacterium tuberculosis. <i>PLoS Pathogens</i> , 2013 , 9, e1003419	7.6	96
110	Quantitative analysis of histone modifications: formaldehyde is a source of pathological n(6)-formyllysine that is refractory to histone deacetylases. <i>PLoS Genetics</i> , 2013 , 9, e1003328	6	43
109	Chemical and cytokine features of innate immunity characterize serum and tissue profiles in inflammatory bowel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2332-41	11.5	71
108	A human tRNA methyltransferase 9-like protein prevents tumour growth by regulating LIN9 and HIF1- α . <i>EMBO Molecular Medicine</i> , 2013 , 5, 366-83	12	69
107	Sequence-dependent variation in the reactivity of 8-Oxo-7,8-dihydro-2Rdeoxyguanosine toward oxidation. <i>Chemical Research in Toxicology</i> , 2012 , 25, 366-73	4	13
106	In situ analysis of 8-oxo-7,8-dihydro-2Rdeoxyguanosine oxidation reveals sequence- and agent-specific damage spectra. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18053-64	16.4	18
105	A system for exposing molecules and cells to biologically relevant and accurately controlled steady-state concentrations of nitric oxide and oxygen. <i>Nitric Oxide - Biology and Chemistry</i> , 2012 , 27, 161-8	5	4
104	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
103	Reprogramming of tRNA modifications controls the oxidative stress response by codon-biased translation of proteins. <i>Nature Communications</i> , 2012 , 3, 937	17.4	278

102	Integrated molecular analysis indicates undetectable change in DNA damage in mice after continuous irradiation at ~ 400-fold natural background radiation. <i>Environmental Health Perspectives</i> , 2012 , 120, 1130-6	8.4	40
101	2RO methylation of internal adenosine by flavivirus NS5 methyltransferase. <i>PLoS Pathogens</i> , 2012 , 8, e1002642	7.6	104
100	Increased tRNA modification and gene-specific codon usage regulate cell cycle progression during the DNA damage response. <i>Cell Cycle</i> , 2012 , 11, 3656-65	4.7	59
99	Defects in purine nucleotide metabolism lead to substantial incorporation of xanthine and hypoxanthine into DNA and RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2319-24	11.5	67
98	Translational infidelity-induced protein stress results from a deficiency in Trm9-catalyzed tRNA modifications. <i>RNA Biology</i> , 2012 , 9, 990-1001	4.8	70
97	Infection-induced colitis in mice causes dynamic and tissue-specific changes in stress response and DNA damage leading to colon cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1820-9	11.5	177
96	Identification of N6,N6-dimethyladenosine in transfer RNA from Mycobacterium bovis Bacille Calmette-Guérin. <i>Molecules</i> , 2011 , 16, 5168-81	4.8	18
95	XRCC1 and base excision repair balance in response to nitric oxide. <i>DNA Repair</i> , 2011 , 10, 1282-93	4.3	40
94	Reactive species and DNA damage in chronic inflammation: reconciling chemical mechanisms and biological fates. <i>International Journal of Cancer</i> , 2011 , 128, 1999-2009	7.5	201
93	Solvent exposure associated with single abasic sites alters the base sequence dependence of oxidation of guanine in DNA in GG sequence contexts. <i>ChemBioChem</i> , 2011 , 12, 1731-9	3.8	8
92	DNA phosphorothioation is widespread and quantized in bacterial genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2963-8	11.5	113
91	Oxidation and Deamination of DNA by Endogenous Sources 2011 , 209-225		3
90	One-electron oxidation of a pyrenyl photosensitizer covalently attached to DNA and competition between its further oxidation and DNA hole injection. <i>Photochemistry and Photobiology</i> , 2010 , 86, 563-70	3.6	2
89	The biological and metabolic fates of endogenous DNA damage products. <i>Journal of Nucleic Acids</i> , 2010 , 2010, 929047	2.3	25
88	Gut microbes define liver cancer risk in mice exposed to chemical and viral transgenic hepatocarcinogens. <i>Gut</i> , 2010 , 59, 88-97	19.2	177
87	Human AlkB homolog ABH8 is a tRNA methyltransferase required for wobble uridine modification and DNA damage survival. <i>Molecular and Cellular Biology</i> , 2010 , 30, 2449-59	4.8	149
86	A quantitative systems approach reveals dynamic control of tRNA modifications during cellular stress. <i>PLoS Genetics</i> , 2010 , 6, e1001247	6	296
85	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

84	A general method for quantifying sequence effects on nucleobase oxidation in DNA. <i>Methods in Molecular Biology</i> , 2010 , 610, 325-40	1.4	5
83	Quantification of the 2-deoxyribonolactone and nucleoside 5Raldehyde products of 2-deoxyribose oxidation in DNA and cells by isotope-dilution gas chromatography mass spectrometry: differential effects of gamma-radiation and Fe ²⁺ -EDTA. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6145-53	16.4	51
82	An improved method for large-scale preparation of negatively and positively supercoiled plasmid DNA. <i>BioTechniques</i> , 2009 , 47, 633-5	2.5	7
81	Continuous elimination of oxidized nucleotides is necessary to prevent rapid onset of cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 169-74	11.5	135
80	Quantification of DNA damage products resulting from deamination, oxidation and reaction with products of lipid peroxidation by liquid chromatography isotope dilution tandem mass spectrometry. <i>Nature Protocols</i> , 2008 , 3, 1287-98	18.8	93
79	Oxidation of guanine in G, GG, and GGG sequence contexts by aromatic pyrenyl radical cations and carbonate radical anions: relationship between kinetics and distribution of alkali-labile lesions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1834-44	3.4	45
78	DNA damage induced by chronic inflammation contributes to colon carcinogenesis in mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2516-25	15.9	347
77	Surveying the damage: the challenges of developing nucleic acid biomarkers of inflammation. <i>Molecular BioSystems</i> , 2008 , 4, 902-8		18
76	Kinetic analysis of intracellular concentrations of reactive nitrogen species. <i>Chemical Research in Toxicology</i> , 2008 , 21, 2134-47	4	72
75	The chemical toxicology of 2-deoxyribose oxidation in DNA. <i>Chemical Research in Toxicology</i> , 2008 , 21, 206-19	4	173
74	DNA sequence context as a determinant of the quantity and chemistry of guanine oxidation produced by hydroxyl radicals and one-electron oxidants. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35569-78	5.4	35
73	AlkB homologue 2-mediated repair of ethenoadenine lesions in mammalian DNA. <i>Cancer Research</i> , 2008 , 68, 4142-9	10.1	67
72	Photosensitized oxidative DNA damage: from hole injection to chemical product formation and strand cleavage. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9321-32	16.4	33
71	GC/MS methods to quantify the 2-deoxypentos-4-ulose and 3Rphosphoglycolate pathways of 4R oxidation of 2-deoxyribose in DNA: application to DNA damage produced by gamma radiation and bleomycin. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1701-8	4	37
70	AlkB influences the chloroacetaldehyde-induced mutation spectra and toxicity in the pSP189 supF shuttle vector. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1075-83	4	16
69	Mechanisms of oxidation of guanine in DNA by carbonate radical anion, a decomposition product of nitrosoperoxy carbonate. <i>Chemistry - A European Journal</i> , 2007 , 13, 4571-81	4.8	49
68	Phosphorothioation of DNA in bacteria by dnd genes. <i>Nature Chemical Biology</i> , 2007 , 3, 709-10	11.7	191
67	N-formylation of lysine in histone proteins as a secondary modification arising from oxidative DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 60-5	11.5	150

66	Challenges in developing DNA and RNA biomarkers of inflammation. <i>Biomarkers in Medicine</i> , 2007 , 1, 293-312	2.3	20
65	Lipid peroxidation dominates the chemistry of DNA adduct formation in a mouse model of inflammation. <i>Carcinogenesis</i> , 2007 , 28, 1807-13	4.6	100
64	Oxidatively Damaged DNA and Inflammation 2007 , 188-206		
63	Development of enzymatic probes of oxidative and nitrosative DNA damage caused by reactive nitrogen species. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006 , 594, 120-34	3.3	21
62	The DNA-damage signature in <i>Saccharomyces cerevisiae</i> is associated with single-strand breaks in DNA. <i>BMC Genomics</i> , 2006 , 7, 313	4.5	14
61	Threshold effects of nitric oxide-induced toxicity and cellular responses in wild-type and p53-null human lymphoblastoid cells. <i>Chemical Research in Toxicology</i> , 2006 , 19, 399-406	4	60
60	Resistance to nitric oxide-induced necrosis in heme oxygenase-1 overexpressing pulmonary epithelial cells associated with decreased lipid peroxidation. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36603-12	5.4	15
59	Chapter 2 Diverse Mechanisms of Endogenous Nucleobase Deamination in DNA and RNA. <i>Advances in Molecular Toxicology</i> , 2006 , 1, 25-63	0.4	2
58	Relatively small increases in the steady-state levels of nucleobase deamination products in DNA from human TK6 cells exposed to toxic levels of nitric oxide. <i>Chemical Research in Toxicology</i> , 2006 , 19, 50-7	4	46
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