

Peter C Dedon

List of Publications by Year in descending order

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207
papers

13,673
citations

20815

60
h-index

27402

106
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224
all docs

224
docs citations

224
times ranked

14778
citing authors

#	ARTICLE	IF	CITATIONS
1	m6A RNA Modification Controls Cell Fate Transition in Mammalian Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2014, 15, 707-719.	11.1	990
2	Reactive nitrogen species in the chemical biology of inflammation. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 12-22.	3.0	540
3	DNA damage induced by chronic inflammation contributes to colon carcinogenesis in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 2516-25.	8.2	415
4	A Quantitative Systems Approach Reveals Dynamic Control of tRNA Modifications during Cellular Stress. <i>PLoS Genetics</i> , 2010, 6, e1001247.	3.5	386
5	Reprogramming of tRNA modifications controls the oxidative stress response by codon-biased translation of proteins. <i>Nature Communications</i> , 2012, 3, 937.	12.8	348
6	m6A-LAIC-seq reveals the census and complexity of the m6A epitranscriptome. <i>Nature Methods</i> , 2016, 13, 692-698.	19.0	310
7	N6-Methyladenosine RNA Modification Regulates Shoot Stem Cell Fate in Arabidopsis. <i>Developmental Cell</i> , 2016, 38, 186-200.	7.0	281
8	Phosphorothioation of DNA in bacteria by <i>dnd</i> genes. <i>Nature Chemical Biology</i> , 2007, 3, 709-710.	8.0	234
9	Reactive species and DNA damage in chronic inflammation: reconciling chemical mechanisms and biological fates. <i>International Journal of Cancer</i> , 2011, 128, 1999-2009.	5.1	228
10	Free-radical mechanisms involved in the formation of sequence-dependent bistranded DNA lesions by the antitumor antibiotics bleomycin, neocarzinostatin, and calicheamicin. <i>Chemical Research in Toxicology</i> , 1992, 5, 311-332.	3.3	224
11	Quantitative analysis of ribonucleoside modifications in tRNA by HPLC-coupled mass spectrometry. <i>Nature Protocols</i> , 2014, 9, 828-841.	12.0	221
12	Characterization of the reactions of platinum antitumor agents with biologic and nonbiologic sulfur-containing nucleophiles. <i>Biochemical Pharmacology</i> , 1987, 36, 1955-1964.	4.4	215
13	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.	7.1	209
14	Gut microbes define liver cancer risk in mice exposed to chemical and viral transgenic hepatocarcinogens. <i>Gut</i> , 2010, 59, 88-97.	12.1	208
15	The Chemical Toxicology of 2-Deoxyribose Oxidation in DNA. <i>Chemical Research in Toxicology</i> , 2008, 21, 206-219.	3.3	196
16	Indirect mutagenesis by oxidative DNA damage: Formation of the pyrimidopurinone adduct of deoxyguanosine by base propenal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 11113-11116.	7.1	190
17	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, 2449-2459.	2.3	182
18	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, 60-65.	7.1	179

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19	Quantitation of 8-Oxoguanine and Strand Breaks Produced by Four Oxidizing Agents. <i>Chemical Research in Toxicology</i> , 1997, 10, 386-392.	3.3	173
20	Mutations in KEOPS-complex genes cause nephrotic syndrome with primary microcephaly. <i>Nature Genetics</i> , 2017, 49, 1529-1538.	21.4	164
21	Three distinct 3-methylcytidine (m ³ C) methyltransferases modify tRNA and mRNA in mice and humans. <i>Journal of Biological Chemistry</i> , 2017, 292, 14695-14703.	3.4	159
22	The m ⁶ A pathway facilitates sex determination in <i>Drosophila</i> . <i>Nature Communications</i> , 2017, 8, 15737.	12.8	154
23	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, 169-174.	7.1	153
24	DNA Damage in Deoxynucleosides and Oligonucleotides Treated with Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1999, 12, 513-520.	3.3	146
25	tRNA modifications regulate translation during cellular stress. <i>FEBS Letters</i> , 2014, 588, 4287-4296.	2.8	138
26	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, 2963-2968.	7.1	137
27	DNA Methylation Impacts Gene Expression and Ensures Hypoxic Survival of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003419.	4.7	132
28	Codon-biased translation can be regulated by wobble-base tRNA modification systems during cellular stress responses. <i>RNA Biology</i> , 2015, 12, 603-614.	3.1	129
29	tRNA-mediated codon-biased translation in mycobacterial hypoxic persistence. <i>Nature Communications</i> , 2016, 7, 13302.	12.8	129
30	2- ^o Methylation of Internal Adenosine by Flavivirus NS5 Methyltransferase. <i>PLoS Pathogens</i> , 2012, 8, e1002642.	4.7	125
31	Quantifying the RNA cap epitranscriptome reveals novel caps in cellular and viral RNA. <i>Nucleic Acids Research</i> , 2019, 47, e130-e130.	14.5	124
32	A simplified formaldehyde fixation and immunoprecipitation technique for studying protein-DNA interactions. <i>Analytical Biochemistry</i> , 1991, 197, 83-90.	2.4	121
33	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.	3.3	114
34	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-e170.	14.5	114
35	Lipid peroxidation dominates the chemistry of DNA adduct formation in a mouse model of inflammation. <i>Carcinogenesis</i> , 2007, 28, 1807-1813.	2.8	112
36	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, 1287-1298.	12.0	106

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37	Exclusive production of bistranded DNA damage by calicheamicin. <i>Biochemistry</i> , 1993, 32, 3617-3622.	2.5	99
38	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.	7.1	99
39	A human tRNA methyltransferase 9-like protein prevents tumour growth by regulating LIN9 and HIF1. <i>EMBO Molecular Medicine</i> , 2013, 5, 366-383.	6.9	98
40	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, 2319-2324.	7.1	93
41	Trm9-Catalyzed tRNA Modifications Regulate Global Protein Expression by Codon-Biased Translation. <i>PLoS Genetics</i> , 2015, 11, e1005706.	3.5	92
42	Translational infidelity-induced protein stress results from a deficiency in Trm9-catalyzed tRNA modifications. <i>RNA Biology</i> , 2012, 9, 990-1001.	3.1	91
43	Genomic mapping of phosphorothioates reveals partial modification of short consensus sequences. <i>Nature Communications</i> , 2014, 5, 3951.	12.8	90
44	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.	7.1	88
45	DNA phosphorothioate modification—a new multi-functional epigenetic system in bacteria. <i>FEMS Microbiology Reviews</i> , 2019, 43, 109-122.	8.6	87
46	SspABCD—SspE is a phosphorothioation-sensing bacterial defence system with broad anti-phage activities. <i>Nature Microbiology</i> , 2020, 5, 917-928.	13.3	86
47	Peroxynitrite-induced DNA damage in the supF gene: correlation with the mutational spectrum. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 447, 287-303.	1.0	84
48	Kinetic Analysis of Intracellular Concentrations of Reactive Nitrogen Species. <i>Chemical Research in Toxicology</i> , 2008, 21, 2134-2147.	3.3	82
49	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, 330-337.	3.3	82
50	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.	3.5	79
51	Alkbh8 Regulates Selenocysteine-Protein Expression to Protect against Reactive Oxygen Species Damage. <i>PLoS ONE</i> , 2015, 10, e0131335.	2.5	77
52	Chemical and Biological Evidence for Base Propenals as the Major Source of the Endogenous M1dG Adduct in Cellular DNA. <i>Journal of Biological Chemistry</i> , 2005, 280, 25377-25382.	3.4	76
53	Increased tRNA modification and gene-specific codon usage regulate cell cycle progression during the DNA damage response. <i>Cell Cycle</i> , 2012, 11, 3656-3665.	2.6	75
54	AlkB Homologue 2-Mediated Repair of Ethenoadenine Lesions in Mammalian DNA. <i>Cancer Research</i> , 2008, 68, 4142-4149.	0.9	71

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55	Absence of 2-Deoxyoxanosine and Presence of Abasic Sites in DNA Exposed to Nitric Oxide at Controlled Physiological Concentrations. <i>Chemical Research in Toxicology</i> , 2003, 16, 1044-1055.	3.3	70
56	A Platform for Discovery and Quantification of Modified Ribonucleosides in RNA. <i>Methods in Enzymology</i> , 2015, 560, 29-71.	1.0	69
57	Highly Predictive Reprogramming of tRNA Modifications Is Linked to Selective Expression of Codon-Biased Genes. <i>Chemical Research in Toxicology</i> , 2015, 28, 978-988.	3.3	68
58	Paradoxical hotspots for guanine oxidation by a chemical mediator of inflammation. <i>Nature Chemical Biology</i> , 2006, 2, 365-366.	8.0	67
59	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.	2.8	67
60	Cu(II)/H2O2-Induced DNA Damage Is Enhanced by Packaging of DNA as a Nucleosome. <i>Chemical Research in Toxicology</i> , 2001, 14, 416-422.	3.3	66
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.	3.3	66
62	Transcriptome-wide dynamics of extensive m6A mRNA methylation during <i>Plasmodium falciparum</i> blood-stage development. <i>Nature Microbiology</i> , 2019, 4, 2246-2259.	13.3	66
63	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.	7.1	64
64	Neocarzinostatin-mediated DNA damage in a model AGT.cntdot.ACT site: mechanistic studies of thiol-sensitive partitioning of C4' DNA damage products. <i>Biochemistry</i> , 1992, 31, 1917-1927.	2.5	63
65	7-Deazaguanine modifications protect phage DNA from host restriction systems. <i>Nature Communications</i> , 2019, 10, 5442.	12.8	63
66	Reaction of cis- and trans-2-Butene-1,4-dial with 2-Deoxycytidine to Form Stable Oxadiazabicyclooctamine Adducts. <i>Journal of the American Chemical Society</i> , 2001, 123, 2664-2665.	13.7	62
67	Lifestyle modifications: coordinating the tRNA epitranscriptome with codon bias to adapt translation during stress responses. <i>Genome Biology</i> , 2018, 19, 228.	8.8	61
68	Formation of the 1,N2-Glyoxal Adduct of Deoxyguanosine by Phosphoglycolaldehyde, a Product of 3-Deoxyribose Oxidation in DNA. <i>Chemical Research in Toxicology</i> , 2001, 14, 1247-1253.	3.3	59
69	Quantification of the 2-Deoxyribonolactone and Nucleoside 5-Aldehyde Products of 2-Deoxyribose Oxidation in DNA and Cells by Isotope-Dilution Gas Chromatography Mass Spectrometry: Differential Effects of I^{131} -Radiation and Fe^{2+} -EDTA. <i>Journal of the American Chemical Society</i> , 2010, 132, 6145-6153.	13.7	59
70	Recommendations for Standardized Description of and Nomenclature Concerning Oxidatively Damaged Nucleobases in DNA. <i>Chemical Research in Toxicology</i> , 2010, 23, 705-707.	3.3	57
71	Comparative Analysis of Four Oxidized Guanine Lesions from Reactions of DNA with Peroxynitrite, Singlet Oxygen, and I^{131} -Radiation. <i>Chemical Research in Toxicology</i> , 2013, 26, 195-202.	3.3	57
72	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, 50-57.	3.3	55

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73	Oxidation of phosphorothioate DNA modifications leads to lethal genomic instability. <i>Nature Chemical Biology</i> , 2017, 13, 888-894.	8.0	54
74	Comparative tRNA sequencing and RNA mass spectrometry for surveying tRNA modifications. <i>Nature Chemical Biology</i> , 2020, 16, 964-972.	8.0	54
75	Mechanisms of Oxidation of Guanine in DNA by Carbonate Radical Anion, a Decomposition Product of Nitroperoxycarbonate. <i>Chemistry - A European Journal</i> , 2007, 13, 4571-4581.	3.3	53
76	The Versatile Roles of the tRNA Epitranscriptome during Cellular Responses to Toxic Exposures and Environmental Stress. <i>Toxics</i> , 2019, 7, 17.	3.7	53
77	Influence of thiol structure on neocarzinostatin activation and expression of DNA damage. <i>Biochemistry</i> , 1992, 31, 1909-1917.	2.5	52
78	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, 1567-1575.	3.4	50
79	Transcriptional Profiling of <i>Mycobacterium tuberculosis</i> Exposed to <i>In Vitro</i> Lysosomal Stress. <i>Infection and Immunity</i> , 2016, 84, 2505-2523.	2.2	50
80	Oxidation of Guanine in G, GG, and GGG Sequence Contexts by Aromatic Pyrenyl Radical Cations and Carbonate Radical Anions: A Relationship between Kinetics and Distribution of Alkali-Labile Lesions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1834-1844.	2.6	49
81	Quantitative Analysis of Histone Modifications: Formaldehyde Is a Source of Pathological N6-Formyllysine That Is Refractory to Histone Deacetylases. <i>PLoS Genetics</i> , 2013, 9, e1003328.	3.5	49
82	Immunostimulating and Gram-negative-specific antibacterial cyclotides from the butterfly pea (<i>Clitoria ternatea</i>). <i>FEBS Journal</i> , 2016, 283, 2067-2090.	4.7	49
83	Allosteric pyruvate kinase-based α -logic gate synergistically senses energy and sugar levels in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2017, 8, 1986.	12.8	49
84	Irp2 regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification. <i>Nature Communications</i> , 2020, 11, 296.	12.8	48
85	The Deoxyfucose-Anthranilate of Esperamicin A1 Confers Intercalative DNA Binding and Causes a Switch in the Chemistry of Bistranded DNA Lesions. <i>Journal of the American Chemical Society</i> , 1994, 116, 9733-9738.	13.7	46
86	Removal by human apurinic/apyrimidinic endonuclease 1 (Ape 1) and <i>Escherichia coli</i> exonuclease III of 3 α -phosphoglycolates from DNA treated with neocarzinostatin, calicheamicin, and 13 -radiation. <i>Biochemical Pharmacology</i> , 1999, 57, 531-538.	4.4	46
87	XRCC1 and base excision repair balance in response to nitric oxide. <i>DNA Repair</i> , 2011, 10, 1282-1293.	2.8	46
88	Nick-seq for single-nucleotide resolution genomic maps of DNA modifications and damage. <i>Nucleic Acids Research</i> , 2020, 48, 6715-6725.	14.5	46
89	Effects of DNA Structure on Oxopropenylation by the Endogenous Mutagens Malondialdehyde and Base Propenal. <i>Biochemistry</i> , 2002, 41, 5033-5042.	2.5	43
90	Quantitative mapping of the cellular small RNA landscape with AQRNA-seq. <i>Nature Biotechnology</i> , 2021, 39, 978-988.	17.5	43

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91	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, 1130-1136.	6.0	42
92	Induction of Functional Human Macrophages from Bone Marrow Promonocytes by M-CSF in Humanized Mice. <i>Journal of Immunology</i> , 2013, 191, 3192-3199.	0.8	42
93	Methylation at position 32 of tRNA catalyzed by TrmJ alters oxidative stress response in <i>Pseudomonas aeruginosa</i> . <i>Nucleic Acids Research</i> , 2016, 44, 10834-10848.	14.5	42
94	GC/MS Methods To Quantify the 2-Deoxyxypentose-4-ulose and 3-Phosphoglycolate Pathways of 4-Oxidation of 2-Deoxyribose in DNA: Application to DNA Damage Produced by ¹³⁷ I Radiation and Bleomycin. <i>Chemical Research in Toxicology</i> , 2007, 20, 1701-1708.	3.3	40
95	A multidimensional platform for the purification of non-coding RNA species. <i>Nucleic Acids Research</i> , 2013, 41, e168-e168.	14.5	40
96	Pathological phenotypes and <i>in vivo</i> DNA cleavage by unrestrained activity of a phosphorothioate-based restriction system in <i>Salmonella</i> . <i>Molecular Microbiology</i> , 2014, 93, 776-785.	2.5	40
97	5-(2-Phosphoryl-1,4-dioxobutane) as a Product of 5-Oxidation of Deoxyribose in DNA: Elimination as trans-1,4-Dioxo-2-butene and Approaches to Analysis. <i>Chemical Research in Toxicology</i> , 2004, 17, 1406-1413.	3.3	39
98	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, 35569-35578.	3.4	39
99	Chemistry meets biology in colitis-associated carcinogenesis. <i>Free Radical Research</i> , 2013, 47, 958-986.	3.3	39
100	A Proteomics Approach to Profiling the Temporal Translational Response to Stress and Growth. <i>IScience</i> , 2018, 9, 367-381.	4.1	39
101	Quantification of DNA strand breaks and abasic sites by oxime derivatization and accelerator mass spectrometry: Application to ¹³⁷ I-radiation and peroxyxynitrite. <i>Analytical Biochemistry</i> , 2005, 343, 84-92.	2.4	37
102	Effects of Peroxyxynitrite Dose and Dose Rate on DNA Damage and Mutation in the supF Shuttle Vector. <i>Chemical Research in Toxicology</i> , 2005, 18, 76-86.	3.3	36
103	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.	5.2	36
104	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.	7.1	36
105	Photosensitized Oxidative DNA Damage: From Hole Injection to Chemical Product Formation and Strand Cleavage. <i>Journal of the American Chemical Society</i> , 2007, 129, 9321-9332.	13.7	35
106	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, 177-188.	3.5	35
107	tRNA epitranscriptomics and biased codon are linked to proteome expression in <i>Plasmodium falciparum</i> . <i>Molecular Systems Biology</i> , 2018, 14, e8009.	7.2	34
108	Transcription-wide mapping of dihydrouridine reveals that mRNA dihydrouridylation is required for meiotic chromosome segregation. <i>Molecular Cell</i> , 2022, 82, 404-419.e9.	9.7	34

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109	Esperamicin A1 Intercalates into Duplex DNA from the Minor Groove. <i>Journal of the American Chemical Society</i> , 1994, 116, 9387-9388.	13.7	33
110	Targeting the Bacterial Epitranscriptome for Antibiotic Development: Discovery of Novel tRNA-(N ¹ G37) Methyltransferase (TrmD) Inhibitors. <i>ACS Infectious Diseases</i> , 2019, 5, 326-335.	3.8	33
111	Dosimetry of N ⁶ -Formyllysine Adducts Following [¹³ C ² H ²]-Formaldehyde Exposures in Rats. <i>Chemical Research in Toxicology</i> , 2013, 26, 1421-1423.	3.3	32
112	Exploring the virulence gene interactome with CRISPR-dCas9 in the human malaria parasite. <i>Molecular Systems Biology</i> , 2020, 16, e9569.	7.2	32
113	The Benzoxazolinone of C-1027 Confers Intercalative DNA Binding. <i>Journal of the American Chemical Society</i> , 1995, 117, 8877-8878.	13.7	31
114	Stability of 2'-deoxyxanthosine in DNA. <i>Nucleic Acids Research</i> , 2003, 31, 1045-1051.	14.5	31
115	Delineation of the Chemical Pathways Underlying Nitric Oxide-Induced Homologous Recombination in Mammalian Cells. <i>Chemistry and Biology</i> , 2005, 12, 357-369.	6.0	31
116	Queuine Is a Nutritional Regulator of <i>Entamoeba histolytica</i> Response to Oxidative Stress and a Virulence Attenuator. <i>MBio</i> , 2021, 12, .	4.1	29
117	Thienopyrimidinone Derivatives That Inhibit Bacterial tRNA (Guanine37-N ¹)-Methyltransferase (TrmD) by Restructuring the Active Site with a Tyrosine-Flipping Mechanism. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7788-7805.	6.4	27
118	Reciprocal regulation of TORC signaling and tRNA modifications by Elongator enforces nutrient-dependent cell fate. <i>Science Advances</i> , 2019, 5, eaav0184.	10.3	27
119	The Biological and Metabolic Fates of Endogenous DNA Damage Products. <i>Journal of Nucleic Acids</i> , 2010, 2010, 1-13.	1.2	26
120	Identification of N ⁶ ,N ⁶ -Dimethyladenosine in Transfer RNA from <i>Mycobacterium bovis</i> Bacille Calmette-Guérin. <i>Molecules</i> , 2011, 16, 5168-5181.	3.8	26
121	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, 120-134.	1.0	25
122	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.	7.1	25
123	AlkB Influences the Chloroacetaldehyde-Induced Mutation Spectra and Toxicity in the pSP189 <i>ori</i> Shuttle Vector. <i>Chemical Research in Toxicology</i> , 2007, 20, 1075-1083.	3.3	24
124	28S rRNA is inducibly pseudouridylated by the mTOR pathway translational control in CHO cell cultures. <i>Journal of Biotechnology</i> , 2014, 174, 16-21.	3.8	24
125	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.	14.5	24
126	Supercoiling affects the accessibility of glutathione to DNA-bound molecules: Positive supercoiling inhibits calicheamicin-induced DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 102-107.	7.1	23

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127	DNA Bending Is a Determinant of Calicheamicin Target Recognition. <i>Biochemistry</i> , 2000, 39, 7605-7612.	2.5	23
128	Formation of 1,4-Dioxo-2-butene-Derived Adducts of 2'-Deoxyadenosine and 2'-Deoxycytidine in Oxidized DNA. <i>Chemical Research in Toxicology</i> , 2006, 19, 982-985.	3.3	23
129	Surveying the damage: the challenges of developing nucleic acid biomarkers of inflammation. <i>Molecular BioSystems</i> , 2008, 4, 902.	2.9	23
130	Illuminating Host-Mycobacterial Interactions with Genome-wide CRISPR Knockout and CRISPRi Screens. <i>Cell Systems</i> , 2020, 11, 239-251.e7.	6.2	23
131	Detecting the epitranscriptome. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021, 12, e1663.	6.4	23
132	Reaction of 2'-deoxyribonucleosides with cis- and trans-1,4-dioxo-2-butene. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 838-844.	2.1	22
133	Phosphorylation of human TRM9L integrates multiple stress-signaling pathways for tumor growth suppression. <i>Science Advances</i> , 2018, 4, eaas9184.	10.3	22
134	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.	14.5	22
135	New insights into calicheamicin-DNA interactions derived from a model nucleosome system. <i>Bioorganic and Medicinal Chemistry</i> , 1995, 3, 729-741.	3.0	21
136	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.	3.8	21
137	Analysis of 3'-Phosphoglycolaldehyde Residues in Oxidized DNA by Gas Chromatography/Negative Chemical Ionization/Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2003, 16, 1560-1566.	3.3	20
138	Biological role of glutathione in nitric oxide-induced toxicity in cell culture and animal models. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1489-1498.	2.9	20
139	Differential Oxidation of Deoxyribose in DNA by β and γ -Particle Radiation. <i>Radiation Research</i> , 2005, 163, 654-662.	1.5	20
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