

# Peter C Dedon

## List of Publications by Year in descending order

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207  
papers

13,673  
citations

20817

60  
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27406

106  
g-index

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 dnd 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       |

| #  | ARTICLE                                                                                                                                                                                                                                        | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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 (m3C) methyltransferases modify tRNA and mRNA in mice and humans. <i>Journal of Biological Chemistry</i> , 2017, 292, 14695-14703.                                                                             | 3.4  | 159       |
| 22 | The m6A 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       |

| #  | ARTICLE                                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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 9â€like protein prevents tumour growth by regulating LIN9 and HIF1â€±. <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 modificationâ€a new multi-functional epigenetic system in bacteria. <i>FEMS Microbiology Reviews</i> , 2019, 43, 109-122.                                                                                          | 8.6  | 87        |
| 46 | SspABCDâ€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 2â€Mediated Repair of Ethenoadenine Lesions in Mammalian DNA. <i>Cancer Research</i> , 2008, 68, 4142-4149.                                                                                                              | 0.9  | 71        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                             | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Absence of 2â€-Deoxyxanosine 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 2â€-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 3â€-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 5â€2-Aldehyde Products of 2-Deoxyribose Oxidation in DNA and Cells by Isotope-Dilution Gas Chromatography Mass Spectrometry: Differential Effects of Î³-Radiation and Fe2+â€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 Î³-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        |

| #  | ARTICLE                                                                                                                                                                                                                                                                       | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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 Nitrosoperoxy carbonate. <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-ribosyl)ation 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 $\alpha$ -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-Anthranyl 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 $^{32}$ P-phosphoglycolates from DNA treated with neocarzinostatin, calicheamicin, and $^{13}$ I-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        |

| #   | ARTICLE                                                                                                                                                                                                                                                                                           | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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 $\text{H}_2\text{O}_2$ Oxidation of 2-Deoxyribose in DNA: Application to DNA Damage Produced by $\text{I}^{131}$ 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 $\text{I}^{131}$ -radiation and peroxynitrite. <i>Analytical Biochemistry</i> , 2005, 343, 84-92.                                                                  | 2.4  | 37        |
| 102 | Effects of Peroxynitrite 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        |



| #   | ARTICLE                                                                                                                                                                                                                                            | IF   | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Esperamicin A1 Intercalates into Duplex DNA from the Minor Groove. Journal of the American Chemical Society, 1994, 116, 9387-9388.                                                                                                                 | 13.7 | 33        |
| 110 | Targeting the Bacterial Epitranscriptome for Antibiotic Development: Discovery of Novel tRNA-(N <sup>1</sup> G37) Methyltransferase (TrmD) Inhibitors. ACS Infectious Diseases, 2019, 5, 326-335.                                                  | 3.8  | 33        |
| 111 | Dosimetry of N <sup>6</sup> -Formyllysine Adducts Following [ <sup>13</sup> C <sup>2</sup> H <sup>2</sup> ]-Formaldehyde Exposures in Rats. Chemical Research in Toxicology, 2013, 26, 1421-1423.                                                  | 3.3  | 32        |
| 112 | Exploring the virulence gene interactome with CRISPR/dCas9 in the human malaria parasite. Molecular Systems Biology, 2020, 16, e9569.                                                                                                              | 7.2  | 32        |
| 113 | The Benzoxazolinone of C-1027 Confers Intercalative DNA Binding. Journal of the American Chemical Society, 1995, 117, 8877-8878.                                                                                                                   | 13.7 | 31        |
| 114 | Stability of 2'-deoxyxanthosine in DNA. Nucleic Acids Research, 2003, 31, 1045-1051.                                                                                                                                                               | 14.5 | 31        |
| 115 | Delineation of the Chemical Pathways Underlying Nitric Oxide-Induced Homologous Recombination in Mammalian Cells. Chemistry and Biology, 2005, 12, 357-369.                                                                                        | 6.0  | 31        |
| 116 | Queuine Is a Nutritional Regulator of Entamoeba histolytica Response to Oxidative Stress and a Virulence Attenuator. MBio, 2021, 12, .                                                                                                             | 4.1  | 29        |
| 117 | Thienopyrimidinone Derivatives That Inhibit Bacterial tRNA (Guanine37-N <sup>1</sup> )-Methyltransferase (TrmD) by Restructuring the Active Site with a Tyrosine-Flipping Mechanism. Journal of Medicinal Chemistry, 2019, 62, 7788-7805.          | 6.4  | 27        |
| 118 | Reciprocal regulation of TORC signaling and tRNA modifications by Elongator enforces nutrient-dependent cell fate. Science Advances, 2019, 5, eaav0184.                                                                                            | 10.3 | 27        |
| 119 | The Biological and Metabolic Fates of Endogenous DNA Damage Products. Journal of Nucleic Acids, 2010, 2010, 1-13.                                                                                                                                  | 1.2  | 26        |
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