

Qing Dai

List of Publications by Year in descending order

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78
papers

28,838
citations

66343
42
h-index

66911
78
g-index

84
all docs

84
docs citations

84
times ranked

19458
citing authors

#	ARTICLE	IF	CITATIONS
1	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014, 505, 117-120.	27.8	3,138
2	N6-Methyladenosine in nuclear RNA is a major substrate of the obesity-associated FTO. <i>Nature Chemical Biology</i> , 2011, 7, 885-887.	8.0	2,936
3	Tet Proteins Can Convert 5-Methylcytosine to 5-Formylcytosine and 5-Carboxylcytosine. <i>Science</i> , 2011, 333, 1300-1303.	12.6	2,898
4	ALKBH5 Is a Mammalian RNA Demethylase that Impacts RNA Metabolism and Mouse Fertility. <i>Molecular Cell</i> , 2013, 49, 18-29.	9.7	2,549
5	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014, 10, 93-95.	8.0	2,342
6	Tet-Mediated Formation of 5-Carboxylcytosine and Its Excision by TDG in Mammalian DNA. <i>Science</i> , 2011, 333, 1303-1307.	12.6	2,332
7	N6-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. <i>Nature</i> , 2015, 518, 560-564.	27.8	1,482
8	Selective chemical labeling reveals the genome-wide distribution of 5-hydroxymethylcytosine. <i>Nature Biotechnology</i> , 2011, 29, 68-72.	17.5	955
9	Base-Resolution Analysis of 5-Hydroxymethylcytosine in the Mammalian Genome. <i>Cell</i> , 2012, 149, 1368-1380.	28.9	912
10	R-2HG Exhibits Anti-tumor Activity by Targeting FTO/m6A/MYC/CEBPA Signaling. <i>Cell</i> , 2018, 172, 90-105.e23.	28.9	794
11	The dynamic N1-methyladenosine methylome in eukaryotic messenger RNA. <i>Nature</i> , 2016, 530, 441-446.	27.8	765
12	5-hmC-mediated epigenetic dynamics during postnatal neurodevelopment and aging. <i>Nature Neuroscience</i> , 2011, 14, 1607-1616.	14.8	746
13	Ythdc2 is an N6-methyladenosine binding protein that regulates mammalian spermatogenesis. <i>Cell Research</i> , 2017, 27, 1115-1127.	12.0	696
14	N 6-methyladenosine alters RNA structure to regulate binding of a low-complexity protein. <i>Nucleic Acids Research</i> , 2017, 45, 6051-6063.	14.5	586
15	Genome-wide Profiling of 5-Formylcytosine Reveals Its Roles in Epigenetic Priming. <i>Cell</i> , 2013, 153, 678-691.	28.9	502
16	Efficient and quantitative high-throughput tRNA sequencing. <i>Nature Methods</i> , 2015, 12, 835-837.	19.0	426
17	Probing N ⁶ -methyladenosine RNA modification status at single nucleotide resolution in mRNA and long noncoding RNA. <i>Rna</i> , 2013, 19, 1848-1856.	3.5	421
18	ALKBH1-Mediated tRNA Demethylation Regulates Translation. <i>Cell</i> , 2016, 167, 816-828.e16.	28.9	366

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19	High-resolution N ⁶ -Methyladenosine (m ⁶ A) Map Using Photo-crosslinking-assisted m ⁶ A Sequencing. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1587-1590.	13.8	319
20	Transcriptome-wide Mapping of Internal N7-Methylguanosine Methylome in Mammalian mRNA. <i>Molecular Cell</i> , 2019, 74, 1304-1316.e8.	9.7	276
21	N6-Methyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. <i>Nature Chemical Biology</i> , 2019, 15, 88-94.	8.0	258
22	DNA Hydroxymethylation Profiling Reveals that WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. <i>Cell Reports</i> , 2014, 9, 1841-1855.	6.4	237
23	Nm-seq maps 2'-O-methylation sites in human mRNA with base precision. <i>Nature Methods</i> , 2017, 14, 695-698.	19.0	218
24	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. <i>Nucleic Acids Research</i> , 2019, 47, 2533-2545.	14.5	213
25	Effects of cytosine modifications on DNA flexibility and nucleosome mechanical stability. <i>Nature Communications</i> , 2016, 7, 10813.	12.8	177
26	N6-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. <i>Journal of Molecular Biology</i> , 2016, 428, 822-833.	4.2	164
27	Decoding the epitranscriptional landscape from native RNA sequences. <i>Nucleic Acids Research</i> , 2021, 49, e7-e7.	14.5	149
28	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. <i>Nature Chemical Biology</i> , 2020, 16, 887-895.	8.0	133
29	N6-methyladenosine dynamics in neurodevelopment and aging, and its potential role in Alzheimer's disease. <i>Genome Biology</i> , 2021, 22, 17.	8.8	131
30	m6A RNA modifications are measured at single-base resolution across the mammalian transcriptome. <i>Nature Biotechnology</i> , 2022, 40, 1210-1219.	17.5	115
31	Evolution of a reverse transcriptase to map N1-methyladenosine in human messenger RNA. <i>Nature Methods</i> , 2019, 16, 1281-1288.	19.0	113
32	Cell-Penetrating Peptide-Modified Gold Nanoparticles for the Delivery of Doxorubicin to Brain Metastatic Breast Cancer. <i>Molecular Pharmaceutics</i> , 2016, 13, 1843-1854.	4.6	102
33	Queuosine modification protects cognate tRNAs against ribonuclease cleavage. <i>Rna</i> , 2018, 24, 1305-1313.	3.5	92
34	Identification of recognition residues for ligation-based detection and quantitation of pseudouridine and N6-methyladenosine. <i>Nucleic Acids Research</i> , 2007, 35, 6322-6329.	14.5	89
35	METTL3-dependent RNA m6A dysregulation contributes to neurodegeneration in Alzheimer's disease through aberrant cell cycle events. <i>Molecular Neurodegeneration</i> , 2021, 16, 70.	10.8	87
36	Ten-eleven translocation 2 interacts with forkhead box O3 and regulates adult neurogenesis. <i>Nature Communications</i> , 2017, 8, 15903.	12.8	82

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37	Bisulfite-Free, Nanoscale Analysis of 5-Hydroxymethylcytosine at Single Base Resolution. <i>Journal of the American Chemical Society</i> , 2018, 140, 13190-13194.	13.7	71
38	<i>N</i> ⁶ -Allyladenine: A New Small Molecule for RNA Labeling Identified by Mutation Assay. <i>Journal of the American Chemical Society</i> , 2017, 139, 17213-17216.	13.7	59
39	Weakened N3 Hydrogen Bonding by 5-Formylcytosine and 5-Carboxylcytosine Reduces Their Base-Pairing Stability. <i>ACS Chemical Biology</i> , 2016, 11, 470-477.	3.4	56
40	A Novel Allosteric Inhibitor of Phosphoglycerate Mutase 1 Suppresses Growth and Metastasis of Non-Small-Cell Lung Cancer. <i>Cell Metabolism</i> , 2019, 30, 1107-1119.e8.	16.2	52
41	Syntheses of 5-Formyl- and 5-Carboxyl-dC Containing DNA Oligos as Potential Oxidation Products of 5-Hydroxymethylcytosine in DNA. <i>Organic Letters</i> , 2011, 13, 3446-3449.	4.6	47
42	Tyrosine Phosphorylation of Mitochondrial Creatine Kinase 1 Enhances a Druggable Tumor Energy Shuttle Pathway. <i>Cell Metabolism</i> , 2018, 28, 833-847.e8.	16.2	46
43	Biogenesis of a 22-nt microRNA in <i>Phaseolae</i> species by precursor-programmed uridylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8037-8042.	7.1	46
44	Selective Enzymatic Demethylation of <i>N</i> ² , <i>N</i> ² -Dimethylguanosine in RNA and Its Application in High-Throughput tRNA Sequencing. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5017-5020.	13.8	44
45	Interferon inducible pseudouridine modification in human mRNA by quantitative nanopore profiling. <i>Genome Biology</i> , 2021, 22, 330.	8.8	44
46	Comparison of the Structures and Mechanisms of the Pistol and Hammerhead Ribozymes. <i>Journal of the American Chemical Society</i> , 2019, 141, 7865-7875.	13.7	41
47	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. <i>Nature Cell Biology</i> , 2021, 23, 684-691.	10.3	41
48	Syntheses of Two 5-Hydroxymethyl-2'-deoxycytidine Phosphoramidites with TBDMS as the 5-Hydroxymethyl Protecting Group and Their Incorporation into DNA. <i>Journal of Organic Chemistry</i> , 2011, 76, 4182-4188.	3.2	39
49	Î ³ -6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. <i>Molecular Cell</i> , 2019, 76, 857-871.e9.	9.7	39
50	Efficient Synthesis of [2â ¹⁸ O]Uridine and Its Incorporation into Oligonucleotides: A New Tool for Mechanistic Study of Nucleotidyl Transfer Reactions by Isotope Effect Analysis. <i>Journal of Organic Chemistry</i> , 2008, 73, 309-311.	3.2	29
51	Jump-seq: Genome-Wide Capture and Amplification of 5-Hydroxymethylcytosine Sites. <i>Journal of the American Chemical Society</i> , 2019, 141, 8694-8697.	13.7	26
52	The METTL5-TRMT112 N6-methyladenosine methyltransferase complex regulates mRNA translation via 18S rRNA methylation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101590.	3.4	26
53	5-Hydroxymethylcytosine-mediated alteration of transposon activity associated with the exposure to adverse in utero environments in human. <i>Human Molecular Genetics</i> , 2016, 25, 2208-2219.	2.9	25
54	Pseudouridines have context-dependent mutation and stop rates in high-throughput sequencing. <i>RNA Biology</i> , 2018, 15, 892-900.	3.1	25

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55	Excision of 5-Carboxylcytosine by Thymine DNA Glycosylase. <i>Journal of the American Chemical Society</i> , 2019, 141, 18851-18861.	13.7	21
56	Thymine DNA glycosylase recognizes the geometry alteration of minor grooves induced by 5-formylcytosine and 5-carboxylcytosine. <i>Chemical Science</i> , 2019, 10, 7407-7417.	7.4	20
57	Single base resolution mapping of 2â€²-O-methylation sites in human mRNA and in 3â€² terminal ends of small RNAs. <i>Methods</i> , 2019, 156, 85-90.	3.8	20
58	Synthesis of 2â€²-C-Î²-Fluoromethyluridine. <i>Organic Letters</i> , 2003, 5, 807-810.	4.6	18
59	Efficient Chemical Synthesis of AppDNA by Adenylation of Immobilized DNA-5â€²-monophosphate. <i>Organic Letters</i> , 2009, 11, 1067-1070.	4.6	17
60	Oxidized Derivatives of 5-Methylcytosine Alter the Stability and Dehybridization Dynamics of Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1160-1174.	2.6	16
61	Improved synthesis of 2â€²-amino-2â€²-deoxyguanosine and its phosphoramidite. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 705-713.	3.0	13
62	DNA 5-Methylcytosine-Specific Amplification and Sequencing. <i>Journal of the American Chemical Society</i> , 2020, 142, 4539-4543.	13.7	13
63	Deoxyribozyme-based method for absolute quantification of N6-methyladenosine fractions at specific sites of RNA. <i>Journal of Biological Chemistry</i> , 2020, 295, 6992-7000.	3.4	13
64	5-Carboxylcytosine and Cytosine Protonation Distinctly Alter the Stability and Dehybridization Dynamics of the DNA Duplex. <i>Journal of Physical Chemistry B</i> , 2020, 124, 627-640.	2.6	11
65	A high-throughput screening method for evolving a demethylase enzyme with improved and new functionalities. <i>Nucleic Acids Research</i> , 2021, 49, e30-e30.	14.5	11
66	Synthesis of DNA oligos containing 2â€²-deoxy-2â€²-fluoro-d-arabinofuranosyl-5-carboxylcytosine as hTDG inhibitor. <i>Tetrahedron</i> , 2012, 68, 5145-5151.	1.9	10
67	Tethering-facilitated DNA â€œopeningâ€™ and complementary roles of Î²-hairpin motifs in the Rad4/XPC DNA damage sensor protein. <i>Nucleic Acids Research</i> , 2020, 48, 12348-12364.	14.5	9
68	Syntheses of (2â€²)-3â€²-15N-Amino-(2â€²)-3â€²-deoxyguanosine and Determination of Their pKa Values by 15N NMR Spectroscopy. <i>Organic Letters</i> , 2007, 9, 3057-3060.	4.6	8
69	An active site rearrangement within the <i>Tetrahymena</i> group I ribozyme releases nonproductive interactions and allows formation of catalytic interactions. <i>Rna</i> , 2016, 22, 32-48.	3.5	7
70	Efficient Synthesis of 2â€²,3â€²-Dideoxy-2â€²-amino-3â€²-thiouridine. <i>Organic Letters</i> , 2004, 6, 2169-2172.	4.6	5
71	Impact of DNA sequences on DNA â€œopeningâ€™ by the Rad4/XPC nucleotide excision repair complex. <i>DNA Repair</i> , 2021, 107, 103194.	2.8	5
72	Preparation of DNA Containing 5â€²-Hydroxymethyl-2â€²-deoxycytidine Modification Through Phosphoramidites with TBDMS as 5â€²-Hydroxymethyl Protecting Group. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2011, 47, Unit 4.47.1-18.	0.5	3

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73	Selective Enzymatic Demethylation of N^2,N^2 -Dimethylguanosine in RNA and Its Application in High-Throughput tRNA Sequencing. <i>Angewandte Chemie</i> , 2017, 129, 5099-5102.	2.0	3
74	Dysregulation of the Epitranscriptomic Mark m1A in Ischemic Stroke. <i>Translational Stroke Research</i> , 0, , .	4.2	3
75	Cover Picture: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (<i>Angew. Chem. Int. Ed.</i> 47/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8765-8765.	13.8	2
76	Synthesis of 2^{\prime} -N-Methylamino- 2^{\prime} -deoxyguanosine and 2^{\prime} -N,N-Dimethylamino- 2^{\prime} -deoxyguanosine and Their Incorporation into RNA by Phosphoramidite Chemistry. <i>Journal of Organic Chemistry</i> , 2011, 76, 8718-8725.	3.2	1
77	Titelbild: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (<i>Angew. Chem.</i> 47/2010). <i>Angewandte Chemie</i> , 2010, 122, 8947-8947.	2.0	0
78	Experimental and computational evidence that ribonuclease A alters the transition state for RNA 2^{\prime} - 5^{\prime} -transphosphorylation. <i>FASEB Journal</i> , 2013, 27, 998.6.	0.5	0