

# Qing Dai

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6500459/qing-dai-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

20,033  
citations

38  
h-index

84  
g-index

84  
ext. papers

24,932  
ext. citations

16.2  
avg, IF

6.41  
L-index

#	Paper	IF	Citations
80	Tet proteins can convert 5-methylcytosine to 5-formylcytosine and 5-carboxylcytosine. <i>Science</i> , <b>2011</b> , 333, 1300-3	33.3	2426
79	Tet-mediated formation of 5-carboxylcytosine and its excision by TDG in mammalian DNA. <i>Science</i> , <b>2011</b> , 333, 1303-7	33.3	1980
78	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , <b>2014</b> , 505, 117-20	50.4	1949
77	N6-methyladenosine in nuclear RNA is a major substrate of the obesity-associated FTO. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 885-7	11.7	1937
76	ALKBH5 is a mammalian RNA demethylase that impacts RNA metabolism and mouse fertility. <i>Molecular Cell</i> , <b>2013</b> , 49, 18-29	17.6	1627
75	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 93-5	11.7	1458
74	N(6)-methyladenosine-dependent RNA structural switches regulate RNA-protein interactions. <i>Nature</i> , <b>2015</b> , 518, 560-4	50.4	988
73	Selective chemical labeling reveals the genome-wide distribution of 5-hydroxymethylcytosine. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 68-72	44.5	816
72	Base-resolution analysis of 5-hydroxymethylcytosine in the mammalian genome. <i>Cell</i> , <b>2012</b> , 149, 1368-80	36.2	801
71	5-hmC-mediated epigenetic dynamics during postnatal neurodevelopment and aging. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1607-16	25.5	639
70	The dynamic N(1)-methyladenosine methylome in eukaryotic messenger RNA. <i>Nature</i> , <b>2016</b> , 530, 441-6	50.4	523
69	R-2HG Exhibits Anti-tumor Activity by Targeting FTO/mA/MYC/CEBPA Signaling. <i>Cell</i> , <b>2018</b> , 172, 90-105	58.3	479
68	Genome-wide profiling of 5-formylcytosine reveals its roles in epigenetic priming. <i>Cell</i> , <b>2013</b> , 153, 678-91	36.2	453
67	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. <i>Cell Research</i> , <b>2017</b> , 27, 1115-1127	24.7	404
66	N6-methyladenosine alters RNA structure to regulate binding of a low-complexity protein. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 6051-6063	20.1	339
65	Probing N6-methyladenosine RNA modification status at single nucleotide resolution in mRNA and long noncoding RNA. <i>Rna</i> , <b>2013</b> , 19, 1848-56	5.8	320
64	Efficient and quantitative high-throughput tRNA sequencing. <i>Nature Methods</i> , <b>2015</b> , 12, 835-837	21.6	291

63	High-resolution N(6) -methyladenosine (m(6) A) map using photo-crosslinking-assisted m(6) A sequencing. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1587-90	16.4	249
62	ALKBH1-Mediated tRNA Demethylation Regulates Translation. <i>Cell</i> , <b>2016</b> , 167, 816-828.e16	56.2	197
61	DNA hydroxymethylation profiling reveals that WT1 mutations result in loss of TET2 function in acute myeloid leukemia. <i>Cell Reports</i> , <b>2014</b> , 9, 1841-1855	10.6	183
60	NMethyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 88-94	11.7	149
59	Nm-seq maps 2SO-methylation sites in human mRNA with base precision. <i>Nature Methods</i> , <b>2017</b> , 14, 695-698	21.6	146
58	Transcriptome-wide Mapping of Internal N-Methylguanosine Methylome in Mammalian mRNA. <i>Molecular Cell</i> , <b>2019</b> , 74, 1304-1316.e8	17.6	133
57	Effects of cytosine modifications on DNA flexibility and nucleosome mechanical stability. <i>Nature Communications</i> , <b>2016</b> , 7, 10813	17.4	126
56	N(6)-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 822-833	6.5	122
55	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 2533-2545	20.1	108
54	Identification of recognition residues for ligation-based detection and quantitation of pseudouridine and N6-methyladenosine. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 6322-9	20.1	83
53	Cell-Penetrating Peptide-Modified Gold Nanoparticles for the Delivery of Doxorubicin to Brain Metastatic Breast Cancer. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 1843-54	5.6	75
52	A metabolic labeling method detects mA transcriptome-wide at single base resolution. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 887-895	11.7	70
51	Decoding the epitranscriptional landscape from native RNA sequences. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e7	20.1	68
50	Ten-eleven translocation 2 interacts with forkhead box O3 and regulates adult neurogenesis. <i>Nature Communications</i> , <b>2017</b> , 8, 15903	17.4	65
49	Queuosine modification protects cognate tRNAs against ribonuclease cleavage. <i>Rna</i> , <b>2018</b> , 24, 1305-1313.8	13.8	56
48	Evolution of a reverse transcriptase to map N-methyladenosine in human messenger RNA. <i>Nature Methods</i> , <b>2019</b> , 16, 1281-1288	21.6	55
47	N-Allyladenosine: A New Small Molecule for RNA Labeling Identified by Mutation Assay. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17213-17216	16.4	46
46	Weakened N3 Hydrogen Bonding by 5-Formylcytosine and 5-Carboxylcytosine Reduces Their Base-Pairing Stability. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 470-7	4.9	45

45	Bisulfite-Free, Nanoscale Analysis of 5-Hydroxymethylcytosine at Single Base Resolution. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13190-13194	16.4	42
44	Syntheses of 5-formyl- and 5-carboxyl-dC containing DNA oligos as potential oxidation products of 5-hydroxymethylcytosine in DNA. <i>Organic Letters</i> , <b>2011</b> , 13, 3446-9	6.2	38
43	N6-methyladenosine dynamics in neurodevelopment and aging, and its potential role in Alzheimer's disease. <i>Genome Biology</i> , <b>2021</b> , 22, 17	18.3	38
42	Syntheses of two 5-hydroxymethyl-2Sdeoxycytidine phosphoramidites with TBDMS as the 5-hydroxymethyl protecting group and their incorporation into DNA. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 4182-8	4.2	35
41	A Novel Allosteric Inhibitor of Phosphoglycerate Mutase 1 Suppresses Growth and Metastasis of Non-Small-Cell Lung Cancer. <i>Cell Metabolism</i> , <b>2019</b> , 30, 1107-1119.e8	24.6	31
40	Selective Enzymatic Demethylation of N,N-Dimethylguanosine in RNA and Its Application in High-Throughput tRNA Sequencing. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5017-5020	16.4	30
39	Comparison of the Structures and Mechanisms of the Pistol and Hammerhead Ribozymes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7865-7875	16.4	29
38	Biogenesis of a 22-nt microRNA in Phaseoleae species by precursor-programmed uridylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 8037-8042	11.5	27
37	Efficient synthesis of [2S18O]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> , <b>2008</b> , 73, 309-11	4.2	27
36	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1607-1610	3.6	26
35	Tyrosine Phosphorylation of Mitochondrial Creatine Kinase 1 Enhances a Druggable Tumor Energy Shuttle Pathway. <i>Cell Metabolism</i> , <b>2018</b> , 28, 833-847.e8	24.6	25
34	5-Hydroxymethylcytosine-mediated alteration of transposon activity associated with the exposure to adverse in utero environments in human. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 2208-2219	5.6	21
33	Pseudouridines have context-dependent mutation and stop rates in high-throughput sequencing. <i>RNA Biology</i> , <b>2018</b> , 15, 892-900	4.8	18
32	Synthesis of 2SC-beta-fluoromethyluridine. <i>Organic Letters</i> , <b>2003</b> , 5, 807-10	6.2	17
31	6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. <i>Molecular Cell</i> , <b>2019</b> , 76, 857-871.e9	17.6	15
30	METTL3-dependent RNA mA dysregulation contributes to neurodegeneration in Alzheimer's disease through aberrant cell cycle events. <i>Molecular Neurodegeneration</i> , <b>2021</b> , 16, 70	19	15
29	Jump-seq: Genome-Wide Capture and Amplification of 5-Hydroxymethylcytosine Sites. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8694-8697	16.4	14
28	Thymine DNA glycosylase recognizes the geometry alteration of minor grooves induced by 5-formylcytosine and 5-carboxylcytosine. <i>Chemical Science</i> , <b>2019</b> , 10, 7407-7417	9.4	13

27	Deoxyribozyme-based method for absolute quantification of $\gamma$ -methyladenosine fractions at specific sites of RNA. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6992-7000	5.4	12
26	Excision of 5-Carboxylcytosine by Thymine DNA Glycosylase. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18851-18861	16.4	12
25	Efficient chemical synthesis of AppDNA by adenylation of immobilized DNA-5Smonophosphate. <i>Organic Letters</i> , <b>2009</b> , 11, 1067-70	6.2	12
24	Improved synthesis of 2Smino-2Sdeoxyguanosine and its phosphoramidite. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 705-13	3.4	12
23	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. <i>Nature Cell Biology</i> , <b>2021</b> , 23, 684-691	23.4	10
22	Single base resolution mapping of 2SO-methylation sites in human mRNA and in 3Sterminal ends of small RNAs. <i>Methods</i> , <b>2019</b> , 156, 85-90	4.6	10
21	Synthesis of DNA oligos containing 2Sdeoxy-2Sfluoro-D-arabinofuranosyl-5-carboxylcytosine as hTDG inhibitor. <i>Tetrahedron</i> , <b>2012</b> , 68, 5145-5151	2.4	9
20	mA RNA modifications are measured at single-base resolution across the mammalian transcriptome.. <i>Nature Biotechnology</i> , <b>2022</b> ,	44.5	9
19	DNA 5-Methylcytosine-Specific Amplification and Sequencing. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 4539-4543	16.4	8
18	Oxidized Derivatives of 5-Methylcytosine Alter the Stability and Dehybridization Dynamics of Duplex DNA. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 1160-1174	3.4	8
17	Syntheses of (2 $\beta$ 3S15N-amino-(2 $\beta$ 3Sdeoxyguanosine and determination of their pKa values by 15N NMR spectroscopy. <i>Organic Letters</i> , <b>2007</b> , 9, 3057-60	6.2	8
16	The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9069-9072	3.6	6
15	A high-throughput screening method for evolving a demethylase enzyme with improved and new functionalities. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e30	20.1	6
14	Tethering-facilitated DNA $\beta$ openingSand complementary roles of $\beta$ hairpin motifs in the Rad4/XPC DNA damage sensor protein. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 12348-12364	20.1	6
13	Interferon inducible pseudouridine modification in human mRNA by quantitative nanopore profiling. <i>Genome Biology</i> , <b>2021</b> , 22, 330	18.3	6
12	An active site rearrangement within the Tetrahymena group I ribozyme releases nonproductive interactions and allows formation of catalytic interactions. <i>Rna</i> , <b>2016</b> , 22, 32-48	5.8	5
11	5-Carboxylcytosine and Cytosine Protonation Distinctly Alter the Stability and Dehybridization Dynamics of the DNA Duplex. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 627-640	3.4	5
10	Efficient synthesis of 2 $\beta$ 3Sdideoxy-2Smino-3Sthiouridine. <i>Organic Letters</i> , <b>2004</b> , 6, 2169-72	6.2	4

9	Selective Enzymatic Demethylation of N <sub>2</sub> ,N <sub>2</sub> -Dimethylguanosine in RNA and Its Application in High-Throughput tRNA Sequencing. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5099-5102	3.6	3
8	The Mechanism of RNA Strand Scission: An Experimental Measure of the Br̄sted Coefficient, <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <b>2007</b> , 104, 3788-3791	3.6	3
7	Preparation of DNA containing 5-hydroxymethyl-2-deoxycytidine modification through phosphoramidites with TBDMS as 5-hydroxymethyl protecting group. <i>Current Protocols in Nucleic Acid Chemistry</i> , <b>2011</b> , Chapter 4, Unit 4.47.1-18	0.5	2
6	Cover Picture: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. Int. Ed. 47/2010). <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8765-8765	16.4	2
5	The METTL5-TRMT112 N-methyladenosine methyltransferase complex regulates mRNA translation via 18S rRNA methylation.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 297, 101590	5.4	2
4	Impact of DNA sequences on DNA opening by the Rad4/XPC nucleotide excision repair complex. <i>DNA Repair</i> , <b>2021</b> , 107, 103194	4.3	2
3	Synthesis of 2-N-methylamino-2-deoxyguanosine and 2-N,N-dimethylamino-2-deoxyguanosine and their incorporation into RNA by phosphoramidite chemistry. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8718-25	4.2	1
2	Titelbild: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. 47/2010). <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8947-8947	3.6	
1	Experimental and computational evidence that ribonuclease A alters the transition state for RNA 2'-O-transphosphorylation. <i>FASEB Journal</i> , <b>2013</b> , 27, 998.6	0.9	