

En-Duo Wang

List of Publications by Year in descending order

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58
papers

1,327
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361413

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times ranked

1497
citing authors

#	ARTICLE	IF	CITATIONS
1	CP1 Domain in <i>Escherichia coli</i> Leucyl-tRNA Synthetase Is Crucial for Its Editing Function. <i>Biochemistry</i> , 2000, 39, 6726-6731.	2.5	119
2	Sensing and Transmitting Intracellular Amino Acid Signals through Reversible Lysine Aminoacylations. <i>Cell Metabolism</i> , 2018, 27, 151-166.e6.	16.2	97
3	Structural basis for substrate binding and catalytic mechanism of a human RNA:m5C methyltransferase NSun6. <i>Nucleic Acids Research</i> , 2017, 45, 6684-6697.	14.5	79
4	<i>Cryptosporidium</i> and <i>Toxoplasma</i> Parasites Are Inhibited by a Benzoxaborole Targeting Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5817-5827.	3.2	55
5	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. <i>Nature Cell Biology</i> , 2021, 23, 684-691.	10.3	41
6	The CP2 Domain of Leucyl-tRNA Synthetase Is Crucial for Amino Acid Activation and Post-transfer Editing. <i>Journal of Biological Chemistry</i> , 2008, 283, 36608-36616.	3.4	40
7	The tRNA recognition mechanism of the minimalist SPOUT methyltransferase, TrmL. <i>Nucleic Acids Research</i> , 2013, 41, 7828-7842.	14.5	40
8	A Human Disease-causing Point Mutation in Mitochondrial Threonyl-tRNA Synthetase Induces Both Structural and Functional Defects. <i>Journal of Biological Chemistry</i> , 2016, 291, 6507-6520.	3.4	40
9	Intellectual disability-associated gene <i>ftsj1</i> is responsible for 2-O-methylation of specific tRNAs. <i>EMBO Reports</i> , 2020, 21, e50095.	4.5	34
10	Translational fidelity maintenance preventing Ser mis-incorporation at Thr codon in protein from eukaryote. <i>Nucleic Acids Research</i> , 2013, 41, 302-314.	14.5	31
11	Archaeal NSUN6 catalyzes m5C72 modification on a wide-range of specific tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, 2041-2055.	14.5	31
12	Two Forms of Human Cytoplasmic Arginyl-tRNA Synthetase Produced from Two Translation Initiations by a Single mRNA. <i>Biochemistry</i> , 2006, 45, 1338-1344.	2.5	30
13	Identification of determinants for tRNA substrate recognition by <i>Escherichia coli</i> C/U34 2-O-methyltransferase. <i>RNA Biology</i> , 2015, 12, 900-911.	3.1	30
14	Sequence-specific and Shape-selective RNA Recognition by the Human RNA 5-Methylcytosine Methyltransferase NSun6. <i>Journal of Biological Chemistry</i> , 2016, 291, 24293-24303.	3.4	30
15	Editing activity for eliminating mischarged tRNAs is essential in mammalian mitochondria. <i>Nucleic Acids Research</i> , 2018, 46, 849-860.	14.5	30
16	A threonyl-tRNA synthetase-like protein has tRNA aminoacylation and editing activities. <i>Nucleic Acids Research</i> , 2018, 46, 3643-3656.	14.5	27
17	Mutations in <i>KARS</i> cause early-onset hearing loss and leukoencephalopathy: Potential pathogenic mechanism. <i>Human Mutation</i> , 2017, 38, 1740-1750.	2.5	25
18	The G3-U70-independent tRNA recognition by human mitochondrial alanyl-tRNA synthetase. <i>Nucleic Acids Research</i> , 2019, 47, 3072-3085.	14.5	25

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19	Molecular basis for t6A modification in human mitochondria. <i>Nucleic Acids Research</i> , 2020, 48, 3181-3194.	14.5	24
20	Aminoacylation and translational quality control strategy employed by leucyl-tRNA synthetase from a human pathogen with genetic code ambiguity. <i>Nucleic Acids Research</i> , 2013, 41, 9825-9838.	14.5	21
21	A minimalist mitochondrial threonyl-tRNA synthetase exhibits tRNA-isoacceptor specificity during proofreading. <i>Nucleic Acids Research</i> , 2014, 42, 13873-13886.	14.5	21
22	The Peptide Bond between E292~A293 of <i>Escherichia coli</i> Leucyl-tRNA Synthetase Is Essential for Its Activity. <i>Biochemistry</i> , 1999, 38, 13063-13069.	2.5	20
23	tRNA recognition by a bacterial tRNA Xm32 modification enzyme from the SPOUT methyltransferase superfamily. <i>Nucleic Acids Research</i> , 2015, 43, 7489-7503.	14.5	20
24	Instability of the mitochondrial alanyl-tRNA synthetase underlies fatal infantile-onset cardiomyopathy. <i>Human Molecular Genetics</i> , 2019, 28, 258-268.	2.9	19
25	A natural non-Watson-Crick base pair in human mitochondrial tRNA ^{Thr} causes structural and functional susceptibility to local mutations. <i>Nucleic Acids Research</i> , 2018, 46, 4662-4676.	14.5	19
26	Effect of Alanine-293 Replacement on the Activity, ATP Binding, and Editing of <i>Escherichia coli</i> Leucyl-tRNA Synthetase. <i>Biochemistry</i> , 2001, 40, 1144-1149.	2.5	18
27	Hearing impairment-associated KARS mutations lead to defects in aminoacylation of both cytoplasmic and mitochondrial tRNA ^{Lys} . <i>Science China Life Sciences</i> , 2020, 63, 1227-1239.	4.9	18
28	The human tRNA taurine modification enzyme GTPBP3 is an active GTPase linked to mitochondrial diseases. <i>Nucleic Acids Research</i> , 2021, 49, 2816-2834.	14.5	18
29	Molecular basis for human mitochondrial tRNA m ³ C modification by alternatively spliced METTL8. <i>Nucleic Acids Research</i> , 2022, 50, 4012-4028.	14.5	18
30	Human mitochondrial leucyl-tRNA synthetase with high activity produced from <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2003, 30, 112-116.	1.3	17
31	In vivo identification of essential nucleotides in tRNA ^{Leu} to its functions by using a constructed yeast tRNA ^{Leu} knockout strain. <i>Nucleic Acids Research</i> , 2012, 40, 10463-10477.	14.5	17
32	Position 34 of tRNA is a discriminative element for m ⁵ C38 modification by human DNMT2. <i>Nucleic Acids Research</i> , 2021, 49, 13045-13061.	14.5	17
33	Translational Quality Control by Bacterial Threonyl-tRNA Synthetases. <i>Journal of Biological Chemistry</i> , 2016, 291, 21208-21221.	3.4	16
34	Acetylation of lysine μ -amino groups regulates aminoacyl-tRNA synthetase activity in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 10709-10722.	3.4	16
35	Newly acquired N-terminal extension targets threonyl-tRNA synthetase-like protein into the multiple tRNA synthetase complex. <i>Nucleic Acids Research</i> , 2019, 47, 8662-8674.	14.5	16
36	Modifications of the human tRNA anticodon loop and their associations with genetic diseases. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 7087-7105.	5.4	15

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37	Self-protective responses to norvaline-induced stress in a leucyl-tRNA synthetase editing-deficient yeast strain. <i>Nucleic Acids Research</i> , 2017, 45, 7367-7381.	14.5	14
38	Commonality and diversity in tRNA substrate recognition in t6A biogenesis by eukaryotic KEOPSs. <i>Nucleic Acids Research</i> , 2022, 50, 2223-2239.	14.5	14
39	Discrimination of tRNA ^{Leu} Isoacceptors by the Insertion Mutant of Escherichia coli Leucyl-tRNA Synthetase. <i>Biochemistry</i> , 1999, 38, 9084-9088.	2.5	13
40	Degenerate Connective Polypeptide 1 (CP1) Domain from Human Mitochondrial Leucyl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2015, 290, 24391-24402.	3.4	13
41	A bridge between the aminoacylation and editing domains of leucyl-tRNA synthetase is crucial for its synthetic activity. <i>Rna</i> , 2014, 20, 1440-1450.	3.5	12
42	Structure of Escherichia coli Arginyl-tRNA Synthetase in Complex with tRNA ^{Arg} : Pivotal Role of the D-loop. <i>Journal of Molecular Biology</i> , 2018, 430, 1590-1606.	4.2	12
43	Biosynthesis and characterization of 4-fluorotryptophan-labeled Escherichia coli arginyl-tRNA synthetase. <i>The Protein Journal</i> , 1999, 18, 187-192.	1.1	11
44	The processing of human mitochondrial leucyl-tRNA synthetase in the insect cells. <i>FEBS Letters</i> , 2003, 534, 139-142.	2.8	11
45	Nitrosative stress inhibits aminoacylation and editing activities of mitochondrial threonyl-tRNA synthetase by S-nitrosation. <i>Nucleic Acids Research</i> , 2020, 48, 6799-6810.	14.5	11
46	Molecular basis of the multifaceted functions of human leucyl-tRNA synthetase in protein synthesis and beyond. <i>Nucleic Acids Research</i> , 2020, 48, 4946-4959.	14.5	11
47	Identification of Lethal Mutations in Yeast Threonyl-tRNA Synthetase Revealing Critical Residues in Its Human Homolog. <i>Journal of Biological Chemistry</i> , 2015, 290, 1664-1678.	3.4	10
48	Calpain Cleaves Most Components in the Multiple Aminoacyl-tRNA Synthetase Complex and Affects Their Functions. <i>Journal of Biological Chemistry</i> , 2015, 290, 26314-26327.	3.4	10
49	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 1781-1787.	2.2	8
50	The Yin and Yang of tRNA: proper binding of acceptor end determines the catalytic balance of editing and aminoacylation. <i>Nucleic Acids Research</i> , 2013, 41, 5513-5523.	14.5	7
51	Modulation of Aminoacylation and Editing Properties of Leucyl-tRNA Synthetase by a Conserved Structural Module. <i>Journal of Biological Chemistry</i> , 2015, 290, 12256-12267.	3.4	7
52	Distinct pathogenic mechanisms of various RARS1 mutations in Pelizaeus-Merzbacher-like disease. <i>Science China Life Sciences</i> , 2021, 64, 1645-1660.	4.9	7
53	C-terminal Domain of Leucyl-tRNA Synthetase from Pathogenic Candida albicans Recognizes both tRNA ^{Ser} and tRNA ^{Leu} . <i>Journal of Biological Chemistry</i> , 2016, 291, 3613-3625.	3.4	6
54	A dual role of human tRNA methyltransferase hTrmt13 in regulating translation and transcription. <i>EMBO Journal</i> , 2022, 41, e108544.	7.8	6

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55	Crystallization and preliminary X-ray diffraction analysis of arginyl-tRNA synthetase from <i>Escherichia coli</i> . <i>Protein Science</i> , 1997, 6, 2636-2638.	7.6	4
56	Heme regulates protein homeostasis at transcription, protein translation, and degradation levels. <i>Frontiers in Biology</i> , 2010, 5, 516-523.	0.7	3
57	Expression of gene encoding GL-7ACA acylase in <i>Escherichia coli</i> . <i>Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao Acta Biochimica Et Biophysica Sinica</i> , 2002, 34, 526-31.	0.1	2
58	LeuRS can leucylate type I and type II tRNA ^{Leu} in <i>Streptomyces coelicolor</i> . <i>Nucleic Acids Research</i> , 2019, 47, 6369-6385.	14.5	1