

Ru-Juan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

772
citations

516710

16
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24
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24
all docs

24
docs citations

24
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallographic Studies of Human MitoNEET. <i>Journal of Biological Chemistry</i> , 2007, 282, 33242-33246.	3.4	87
2	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
3	Discovery of a potent benzoxaborole-based anti-pneumococcal agent targeting leucyl-tRNA synthetase. <i>Scientific Reports</i> , 2013, 3, 2475.	3.3	66
4	Enzymatically inactive adenylate kinase 4 interacts with mitochondrial ADP/ATP translocase. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1371-1380.	2.8	61
5	Cryptosporidium and Toxoplasma Parasites Are Inhibited by a Benzoxaborole Targeting Leucyl-tRNA Synthetase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5817-5827.	3.2	55
6	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. <i>Nature Cell Biology</i> , 2021, 23, 684-691.	10.3	41
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	Archaeal NSUN6 catalyzes m5C72 modification on a wide-range of specific tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, 2041-2055.	14.5	31
11	Identification of determinants for tRNA substrate recognition by <i>Escherichia coli</i> C/U34 2- ^o -O-methyltransferase. <i>RNA Biology</i> , 2015, 12, 900-911.	3.1	30
12	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
13	A minimalist mitochondrial threonyl-tRNA synthetase exhibits tRNA-isoacceptor specificity during proofreading. <i>Nucleic Acids Research</i> , 2014, 42, 13873-13886.	14.5	21
14	THUMP3/TRMT112 is a m2G methyltransferase working on a broad range of tRNA substrates. <i>Nucleic Acids Research</i> , 2021, 49, 11900-11919.	14.5	21
15	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
16	The occurrence order and cross-talk of different tRNA modifications. <i>Science China Life Sciences</i> , 2021, 64, 1423-1436.	4.9	17
17	Position 34 of tRNA is a discriminative element for m5C38 modification by human DNMT2. <i>Nucleic Acids Research</i> , 2021, 49, 13045-13061.	14.5	17
18	Coexistence of bacterial leucyl-tRNA synthetases with archaeal tRNA binding domains that distinguish tRNA ^{Leu} in the archaeal mode. <i>Nucleic Acids Research</i> , 2014, 42, 5109-5124.	14.5	16

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19	Translational Quality Control by Bacterial Threonyl-tRNA Synthetases. <i>Journal of Biological Chemistry</i> , 2016, 291, 21208-21221.	3.4	16
20	Peripheral insertion modulates the editing activity of the isolated CP1 domain of leucyl-tRNA synthetase. <i>Biochemical Journal</i> , 2011, 440, 217-227.	3.7	15
21	A naturally occurring nonapeptide functionally compensates for the CP1 domain of leucyl-tRNA synthetase to modulate aminoacylation activity. <i>Biochemical Journal</i> , 2012, 443, 477-484.	3.7	13
22	Interdomain communication modulates the tRNA-dependent pre-transfer editing of leucyl-tRNA synthetase. <i>Biochemical Journal</i> , 2013, 449, 123-131.	3.7	9
23	Discovery of benzhydrol-oxaborole derivatives as <i>Streptococcus pneumoniae</i> leucyl-tRNA synthetase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115871.	3.0	7
24	A dual role of human tRNA methyltransferase hTrmt13 in regulating translation and transcription. <i>EMBO Journal</i> , 2022, 41, e108544.	7.8	6