Shu-Bing Qian

List of Publications by Year
in descending order

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68 papers	9,068 citations	101496 36 h-index	114418 63 g-index
71 all docs	71 docs citations	71 times ranked	11606 citing authors

#	Article	IF	Citations
1	Structure and function of an effector domain in antiviral factors and tumor suppressors SAMD9 and SAMD9L. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
2	Dynamic eIF3a O-GlcNAcylation controls translation reinitiation during nutrient stress. Nature Chemical Biology, 2022, 18, 134-141.	3.9	14
3	A Versatile eIF3d in Translational Control of Stress Adaptation. Molecular Cell, 2021, 81, 10-12.	4.5	28
4	Targeted RNA m6A Editing Using Engineered CRISPR-Cas9 Conjugates. Methods in Molecular Biology, 2021, 2298, 399-414.	0.4	3
5	Relaxed initiation pausing of ribosomes drives oncogenic translation. Science Advances, 2021, 7, .	4.7	7
6	mTORC1 couples cyst(e)ine availability with GPX4 protein synthesis and ferroptosis regulation. Nature Communications, 2021, 12, 1589.	5.8	317
7	Reply to: Reevaluating the role of human mitochondrial uL18m in the cytosolic stress response. Nature Structural and Molecular Biology, 2021, 28, 476-477.	3.6	0
8	A heat shockâ€“responsive lncRNA Heat acts as a HSF1-directed transcriptional brake via m ⁶ A modification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
9	Poly-A Tailing and Adaptor Ligation Methods for Ribo-Seq Library Construction. Methods in Molecular Biology, 2021, 2252, 221-237.	0.4	0
10	Adaptive translational pausing is a hallmark of the cellular response to severe environmental stress. Molecular Cell, 2021, 81, 4191-4208.e8.	4.5	18
11	Bi-directional ribosome scanning controls the stringency of start codon selection. Nature Communications, 2021, 12, 6604.	5.8	15
12	Therapeutic mRNA Engineering from Head to Tail. Accounts of Chemical Research, 2021, 54, 4272-4282.	7.6	16
13	Alternative ORFs and small ORFs: shedding light on the dark proteome. Nucleic Acids Research, 2020, 48, 1029-1042.	6.5	205
14	Fluorescein-based monitoring of RNA N6-methyladenosine at single-nucleotide resolution. Journal of Molecular Cell Biology, 2020, 13, 325-328.	1.5	0
15	Hepatic FTO is dispensable for the regulation of metabolism but counteracts HCC development inÂvivo. Molecular Metabolism, 2020, 42, 101085.	3.0	37
16	Decoding mRNA translatability and stability from the 5â€² UTR. Nature Structural and Molecular Biology, 2020, 27, 814-821.	3.6	106
17	Exploring Ovarian Cancer Cell Resistance to Rhenium Anticancer Complexes. Angewandte Chemie - International Edition, 2020, 59, 13391-13400.	7.2	39
18	Exploring Ovarian Cancer Cell Resistance to Rhenium Anticancer Complexes. Angewandte Chemie, 2020, 132, 13493-13502.	1.6	4

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19	Nutrient Control of mRNA Translation. Annual Review of Nutrition, 2020, 40, 51-75.	4.3	25
20	GR-mediated FTO transactivation induces lipid accumulation in hepatocytes via demethylation of m⁶A on lipogenic mRNAs. RNA Biology, 2020, 17, 930-942.	1.5	50
21	Linking m 6 A to Wnt signaling. EMBO Reports, 2020, 21, e50097.	2.0	6
22	Ribosome-guided piRNA production. Nature Cell Biology, 2020, 22, 141-142.	4.6	4
23	Programmable RNA N6-methyladenosine editing by CRISPR-Cas9 conjugates. Nature Chemical Biology, 2019, 15, 865-871.	3.9	140
24	Assembly en route. Nature Structural and Molecular Biology, 2019, 26, 89-91.	3.6	0
25	A Rhenium Isonitrile Complex Induces Unfolded Protein Responseâ€Mediated Apoptosis in Cancer Cells. Chemistry - A European Journal, 2019, 25, 9206-9210.	1.7	50
26	m6A in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. Nature Communications, 2019, 10, 5332.	5.8	268
27	SENP3-mediated host defense response contains HBV replication and restores protein synthesis. PLoS ONE, 2019, 14, e0209179.	1.1	7
28	N6-Methyladenosine Guides mRNA Alternative Translation during Integrated Stress Response. Molecular Cell, 2018, 69, 636-647.e7.	4.5	215
29	Effects of single amino acid deficiency on mRNA translation are markedly different for methionine versus leucine. Scientific Reports, 2018, 8, 8076.	1.6	44
30	O-GlcNAc modification of eIF4GI acts as a translational switch in heat shock response. Nature Chemical Biology, 2018, 14, 909-916.	3.9	26
31	Dynamic m⁶A methylation facilitates mRNA triaging to stress granules. Life Science Alliance, 2018, 1, e201800113.	1.3	136
32	m6A Facilitates eIF4F-Independent mRNA Translation. Molecular Cell, 2017, 68, 504-514.e7.	4.5	197
33	Competition between translation initiation factor eIF5 and its mimic protein 5MP determines non-AUG initiation rate genome-wide. Nucleic Acids Research, 2017, 45, 11941-11953.	6.5	63
34	Step back for seminal translation. Nature Structural and Molecular Biology, 2016, 23, 362-363.	3.6	0
35	Codon optimality controls differential mRNA translation during amino acid starvation. Rna, 2016, 22, 1719-1727.	1.6	47
36	Characterizing inactive ribosomes in translational profiling. Translation, 2016, 4, e1138018.	2.9	28

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37	m6A: A novel hallmark of translation. Cell Cycle, 2016, 15, 309-310.	1.3	6
38	Genome-Wide Profiling of Alternative Translation Initiation Sites. Methods in Molecular Biology, 2016, 1358, 303-316.	0.4	6
39	Clinical and Neuropathological Features of Spastic Ataxia in a Spanish Family with Novel Compound Heterozygous Mutations in STUB1. Cerebellum, 2015, 14, 378-381.	1.4	33
40	Translational control of the cytosolic stress response by mitochondrial ribosomal protein L18. Nature Structural and Molecular Biology, 2015, 22, 404-410.	3.6	70
41	5â€² UTR m6A Promotes Cap-Independent Translation. Cell, 2015, 163, 999-1010.	13.5	1,414
42	Dynamic m6A mRNA methylation directs translational control of heat shock response. Nature, 2015, 526, 591-594.	13.7	990
43	Quantitative profiling of initiating ribosomes in vivo. Nature Methods, 2015, 12, 147-153.	9.0	222
44	TISdb: a database for alternative translation initiation in mammalian cells. Nucleic Acids Research, 2014, 42, D845-D850.	6.5	84
45	Translational reprogramming in cellular stress response. Wiley Interdisciplinary Reviews RNA, 2014, 5, 301-305.	3.2	193
46	Ribosome profiling reveals sequence-independent post-initiation pausing as a signature of translation. Cell Research, 2014, 24, 842-851.	5.7	48
47	Less is more: improving proteostasis by translation slow down. Trends in Biochemical Sciences, 2013, 38, 585-591.	3.7	78
48	Cotranslational Response to Proteotoxic Stress by Elongation Pausing of Ribosomes. Molecular Cell, 2013, 49, 453-463.	4.5	230
49	Nutrient Signaling in Protein Homeostasis: An Increase in Quantity at the Expense of Quality. Science Signaling, 2013, 6, ra24.	1.6	61
50	A novel FADS1 isoform potentiates FADS2-mediated production of eicosanoid precursor fatty acids. Journal of Lipid Research, 2012, 53, 1502-1512.	2.0	44
51	Global mapping of translation initiation sites in mammalian cells at single-nucleotide resolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2424-32.	3.3	534
52	Decoding Human Cytomegalovirus. Science, 2012, 338, 1088-1093.	6.0	546
53	Viewing folding of nascent polypeptide chains from ribosomes. Expert Review of Proteomics, 2012, 9, 579-581.	1.3	2
54	Monitoring cotranslational protein folding in mammalian cells at codon resolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12467-12472.	3.3	59

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55	mTOR signaling in protein homeostasis. Cell Cycle, 2011, 10, 1940-1947.	1.3	56
56	PI3K-mTORC1 Attenuates Stress Response by Inhibiting Cap-independent Hsp70 Translation. Journal of Biological Chemistry, 2011, 286, 6791-6800.	1.6	44
57	Translational Regulation in Nutrigenomics. Advances in Nutrition, 2011, 2, 511-519.	2.9	40
58	mTORC1 Links Protein Quality and Quantity Control by Sensing Chaperone Availability. Journal of Biological Chemistry, 2010, 285, 27385-27395.	1.6	41
59	Engineering a Ubiquitin Ligase Reveals Conformational Flexibility Required for Ubiquitin Transfer. Journal of Biological Chemistry, 2009, 284, 26797-26802.	1.6	46
60	Stress-dependent Daxx-CHIP Interaction Suppresses the p53 Apoptotic Program. Journal of Biological Chemistry, 2009, 284, 20649-20659.	1.6	30
61	CHIP-mediated stress recovery by sequential ubiquitination of substrates and Hsp70. Nature, 2006, 440, 551-555.	13.7	328
62	Tight Linkage between Translation and MHC Class I Peptide Ligand Generation Implies Specialized Antigen Processing for Defective Ribosomal Products. Journal of Immunology, 2006, 177, 227-233.	0.4	69
63	Characterization of Rapidly Degraded Polypeptides in Mammalian Cells Reveals a Novel Layer of Nascent Protein Quality Control. Journal of Biological Chemistry, 2006, 281, 392-400.	1.6	112
64	Regulation of the Cytoplasmic Quality Control Protein Degradation Pathway by BAG2. Journal of Biological Chemistry, 2005, 280, 38673-38681.	1.6	123
65	XBP1, Downstream of Blimp-1, Expands the Secretory Apparatus and Other Organelles, and Increases Protein Synthesis in Plasma Cell Differentiation. Immunity, 2004, 21, 81-93.	6.6	901
66	Quantitating Protein Synthesis, Degradation, and Endogenous Antigen Processing. Immunity, 2003, 18, 343-354.	6.6	461
67	Fusion Proteins with COOH-terminal Ubiquitin Are Stable and Maintain Dual Functionality in Vivo. Journal of Biological Chemistry, 2002, 277, 38818-38826.	1.6	46
68	Transduction of primary rat hepatocytes with bicistronic retroviral vector. World Journal of Gastroenterology, 2000, 6, 725.	1.4	1