Yi Liu

List of Publications by Year
in descending order

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80	8,341	57758 44	69250 77
papers	citations	h-index	g-index
84	84	84	5270
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	White Collar-1, a Circadian Blue Light Photoreceptor, Binding to the frequency Promoter. Science, 2002, 297, 815-819.	12.6	490
2	Codon Usage Influences the Local Rate of Translation Elongation to Regulate Co-translational Protein Folding. Molecular Cell, 2015, 59, 744-754.	9.7	476
3	White Collar-1, a DNA Binding Transcription Factor and a Light Sensor. Science, 2002, 297, 840-843.	12.6	401
4	Diverse Pathways Generate MicroRNA-like RNAs and Dicer-Independent Small Interfering RNAs in Fungi. Molecular Cell, 2010, 38, 803-814.	9.7	361
5	Non-optimal codon usage affects expression, structure and function of clock protein FRQ. Nature, 2013, 495, 111-115.	27.8	357
6	Alternative Initiation of Translation and Time-Specific Phosphorylation Yield Multiple Forms of the Essential Clock Protein FREQUENCY. Cell, 1997, 89, 469-476.	28.9	347
7	Codon usage is an important determinant of gene expression levels largely through its effects on transcription. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6117-E6125.	7.1	326
8	qiRNA is a new type of small interfering RNA induced by DNA damage. Nature, 2009, 459, 274-277.	27.8	278
9	Thermally Regulated Translational Control of FRQ Mediates Aspects of Temperature Responses in the Neurospora Circadian Clock. Cell, 1997, 89, 477-486.	28.9	235
10	RNA Interference Pathways in Fungi: Mechanisms and Functions. Annual Review of Microbiology, 2012, 66, 305-323.	7.3	228
11	CKI and CKII mediate the FREQUENCY-dependent phosphorylation of the WHITE COLLAR complex to close the Neurospora circadian negative feedback loop. Genes and Development, 2006, 20, 2552-2565.	5.9	204
12	RNA Interference in Fungi: Pathways, Functions, and Applications. Eukaryotic Cell, 2011, 10, 1148-1155.	3.4	191
13	Regulation of the Neurospora circadian clock by an RNA helicase. Genes and Development, 2005, 19, 234-241.	5.9	187
14	Molecular mechanism of light responses in Neurospora: from light-induced transcription to photoadaptation. Genes and Development, 2005, 19, 2888-2899.	5.9	186
15	Non-optimal codon usage is a mechanism to achieve circadian clock conditionality. Nature, 2013, 495, 116-120.	27.8	167
16	The COP9 signalosome regulates the Neurospora circadian clock by controlling the stability of the SCFFWD-1 complex. Genes and Development, 2005, 19, 1518-1531.	5.9	161
17	PAS Domain-Mediated WC-1/WC-2 Interaction Is Essential for Maintaining the Steady-State Level of WC-1 and the Function of Both Proteins in Circadian Clock and Light Responses of Neurospora. Molecular and Cellular Biology, 2002, 22, 517-524.	2.3	160
18	FWD1-mediated degradation of FREQUENCY in Neurospora establishes a conserved mechanism for circadian clock regulation. EMBO Journal, 2003, 22, 4421-4430.	7.8	158

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19	Functional conservation of light, oxygen, or voltage domains in light sensing. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5938-5943.	7.1	142
20	Regulation of the Neurospora circadian clock by casein kinase II. Genes and Development, 2002, 16, 994-1006.	5.9	137
21	The Neurospora crassa Circadian Clock. Advances in Genetics, 2007, 58, 25-66.	1.8	129
22	Circadian Rhythms in Neurospora crassa and Other Filamentous Fungi. Eukaryotic Cell, 2006, 5, 1184-1193.	3.4	124
23	WHITE COLLAR-1, a Multifunctional NeurosporaProtein Involved in the Circadian Feedback Loops, Light Sensing, and Transcription Repression of wc-2. Journal of Biological Chemistry, 2003, 278, 3801-3808.	3.4	123
24	Protein kinase A and casein kinases mediate sequential phosphorylation events in the circadian negative feedback loop. Genes and Development, 2007, 21, 3283-3295.	5.9	117
25	A code within the genetic code: codon usage regulates co-translational protein folding. Cell Communication and Signaling, 2020, 18, 145.	6.5	113
26	Identification of a Calcium/Calmodulin-dependent Protein Kinase That Phosphorylates the Neurospora Circadian Clock Protein FREQUENCY. Journal of Biological Chemistry, 2001, 276, 41064-41072.	3.4	111
27	Distinct roles for PP1 and PP2A in the Neurospora circadian clock. Genes and Development, 2004, 18, 255-260.	5.9	111
28	QIP, a putative exonuclease, interacts with the Neurospora Argonaute protein and facilitates conversion of duplex siRNA into single strands. Genes and Development, 2007, 21, 590-600.	5.9	107
29	Setting the pace of the <i>Neurospora</i> circadian clock by multiple independent FRQ phosphorylation events. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10722-10727.	7.1	105
30	Nonoptimal codon usage influences protein structure in intrinsically disordered regions. Molecular Microbiology, 2015, 97, 974-987.	2.5	99
31	Codon usage regulates protein structure and function by affecting translation elongation speed in Drosophila cells. Nucleic Acids Research, 2017, 45, 8484-8492.	14.5	95
32	Light-independent Phosphorylation of WHITE COLLAR-1 Regulates Its Function in the Neurospora Circadian Negative Feedback Loop. Journal of Biological Chemistry, 2005, 280, 17526-17532.	3.4	94
33	The Exosome Regulates Circadian Gene Expression in a Posttranscriptional Negative Feedback Loop. Cell, 2009, 138, 1236-1246.	28.9	93
34	Transcriptional interference by antisense RNA is required for circadian clock function. Nature, 2014, 514, 650-653.	27.8	92
35	Phosphorylation of FREQUENCY Protein by Casein Kinase II Is Necessary for the Function of the Neurospora Circadian Clock. Molecular and Cellular Biology, 2003, 23, 6221-6228.	2.3	86
36	RNA interference pathways in filamentous fungi. Cellular and Molecular Life Sciences, 2010, 67, 3849-3863.	5.4	86

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37	Codon usage affects the structure and function of the <i>Drosophila</i> circadian clock protein PERIOD. Genes and Development, 2016, 30, 1761-1775.	5.9	73
38	Synonymous but Not Silent: The Codon Usage Code for Gene Expression and Protein Folding. Annual Review of Biochemistry, 2021, 90, 375-401.	11.1	73
39	A Double-Stranded-RNA Response Program Important for RNA Interference Efficiency. Molecular and Cellular Biology, 2007, 27, 3995-4005.	2.3	72
40	Functional Significance of FRH in Regulating the Phosphorylation and Stability of Neurospora Circadian Clock Protein FRQ. Journal of Biological Chemistry, 2010, 285, 11508-11515.	3.4	71
41	The DNA/RNA-Dependent RNA Polymerase QDE-1 Generates Aberrant RNA and dsRNA for RNAi in a Process Requiring Replication Protein A and a DNA Helicase. PLoS Biology, 2010, 8, e1000496.	5.6	71
42	Control of WHITE COLLAR localization by phosphorylation is a critical step in the circadian negative feedback process. EMBO Journal, 2008, 27, 3246-3255.	7.8	64
43	Molecular Mechanisms of Entrainment in the Neurospora Circadian Clock. Journal of Biological Rhythms, 2003, 18, 195-205.	2.6	62
44	Diverse Small Non-coding RNAs in RNA Interference Pathways. Methods in Molecular Biology, 2011, 764, 169-182.	0.9	56
45	Codon usage biases co-evolve with transcription termination machinery to suppress premature cleavage and polyadenylation. ELife, 2018, 7, .	6.0	50
46	Dual roles of FBXL3 in the mammalian circadian feedback loops are important for period determination and robustness of the clock. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4750-4755.	7.1	44
47	Regulation of the Activity and Cellular Localization of the Circadian Clock Protein FRQ. Journal of Biological Chemistry, 2011, 286, 11469-11478.	3.4	43
48	Codon usage regulates human KRAS expression at both transcriptional and translational levels. Journal of Biological Chemistry, 2018, 293, 17929-17940.	3.4	43
49	FRQ-CK1 interaction determines the period of circadian rhythms in Neurospora. Nature Communications, 2019, 10, 4352.	12.8	42
50	Reconstitution of an Argonaute-Dependent Small RNA Biogenesis Pathway Reveals a Handover Mechanism Involving the RNA Exosome and the Exonuclease QIP. Molecular Cell, 2012, 46, 299-310.	9.7	41
51	Suppression of WC-independent <i>frequency</i> transcription by RCO-1 is essential for <i>Neurospora</i> circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4867-74.	7.1	41
52	eRF1 mediates codon usage effects on mRNA translation efficiency through premature termination at rare codons. Nucleic Acids Research, 2019, 47, 9243-9258.	14.5	41
53	Transcription of the Major Neurospora crassa microRNAâ€“Like Small RNAs Relies on RNA Polymerase III. PLoS Genetics, 2013, 9, e1003227.	3.5	38
54	Homologous recombination as a mechanism to recognize repetitive DNA sequences in an RNAi pathway. Genes and Development, 2013, 27, 145-150.	5.9	38

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55	Molecular mechanism of suppression of circadian rhythms by a critical stimulus. EMBO Journal, 2006, 25, 5349-5357.	7.8	37
56	Convergent Transcription Induces Dynamic DNA Methylation at disiRNA Loci. PLoS Genetics, 2013, 9, e1003761.	3.5	35
57	CATP is a critical component of the <i>Neurospora</i> circadian clock by regulating the nucleosome occupancy rhythm at the <i>frequency</i> locus. EMBO Reports, 2013, 14, 923-930.	4.5	34
58	Mechanism of siRNA production from repetitive DNA. Genes and Development, 2015, 29, 526-537.	5.9	34
59	The translinâ€“TRAX complex (C3PO) is a ribonuclease in tRNA processing. Nature Structural and Molecular Biology, 2012, 19, 824-830.	8.2	30
60	Distinct Roles of HDAC3 in the Core Circadian Negative Feedback Loop Are Critical for Clock Function. Cell Reports, 2016, 14, 823-834.	6.4	30
61	Adaptation of codon usage to tRNA I34 modification controls translation kinetics and proteome landscape. PLoS Genetics, 2020, 16, e1008836.	3.5	30
62	Genome-wide role of codon usage on transcription and identification of potential regulators. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
63	Role for Protein Kinase A in the <i>Neurospora</i> Circadian Clock by Regulating White Collar-Independent <i>frequency</i> Transcription through Phosphorylation of RCM-1. Molecular and Cellular Biology, 2015, 35, 2088-2102.	2.3	27
64	DNA Replication Is Required for Circadian Clock Function by Regulating Rhythmic Nucleosome Composition. Molecular Cell, 2017, 67, 203-213.e4.	9.7	24
65	Codon usage and protein length-dependent feedback from translation elongation regulates translation initiation and elongation speed. Nucleic Acids Research, 2021, 49, 9404-9423.	14.5	22
66	Analysis of Posttranslational Regulations in the Neurospora Circadian Clock. Methods in Enzymology, 2005, 393, 379-393.	1.0	21
67	Nonoptimal Codon Usage Is Critical for Protein Structure and Function of the Master General Amino Acid Control Regulator CPC-1. MBio, 2020, 11, .	4.1	20
68	IMITATION SWITCH is required for normal chromatin structure and gene repression in PRC2 target domains. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
69	Molecular mechanism of the Neurospora circadian oscillator. Protein and Cell, 2010, 1, 331-341.	11.0	16
70	Histone H3K56 Acetylation Is Required for Quelling-induced Small RNA Production through Its Role in Homologous Recombination. Journal of Biological Chemistry, 2014, 289, 9365-9371.	3.4	16
71	Effects of codon usage on gene expression are promoter context dependent. Nucleic Acids Research, 2021, 49, 818-831.	14.5	14
72	Decoupling PER phosphorylation, stability and rhythmic expression from circadian clock function by abolishing PER-CK1 interaction. Nature Communications, 2022, 13, .	12.8	14

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73	Transcription factor CBF-1 is critical for circadian gene expression by modulating WHITE COLLAR complex recruitment to the frq locus. PLoS Genetics, 2018, 14, e1007570.	3.5	13
74	Impaired function of the suprachiasmatic nucleus rescues the loss of body temperature homeostasis caused by time-restricted feeding. Science Bulletin, 2020, 65, 1268-1280.	9.0	13
75	FRQ-CK1 Interaction Underlies Temperature Compensation of the <i>Neurospora</i> Circadian Clock. MBio, 2021, 12, e0142521.	4.1	10
76	Methods to Study Molecular Mechanisms of the Neurospora Circadian Clock. Methods in Enzymology, 2015, 551, 137-151.	1.0	5
77	Small RNA-Mediated Gene Silencing in Neurospora. , 2014, , 269-289.		5
78	Circadian Rhythms. , 2014, , 442-466.		1
79	A role for the mitotic proteins Bub3 and BuGZ in transcriptional regulation of catalase-3 expression. PLoS Genetics, 2022, 18, e1010254.	3.5	1
80	Reply to Qian and Zhang: Demonstration of the effect of codon usage on transcription by multiple approaches from fungi to animal cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2104896118.	7.1	0