Xuemei Chen

List of Publications by Year
in descending order

170 papers	23,686 citations	10373 72 h-index	7944 149 g-index
183 all docs	183 docs citations	183 times ranked	16410 citing authors

#	Article	IF	Citations
1	A MicroRNA as a Translational Repressor of APETALA2 in Arabidopsis Flower Development. Science, 2004, 303, 2022-2025.	6.0	1,623
2	A uniform system for microRNA annotation. Rna, 2003, 9, 277-279.	1.6	1,620
3	Criteria for Annotation of Plant MicroRNAs. Plant Cell, 2008, 20, 3186-3190.	3.1	1,158
4	CARPEL FACTORY, a Dicer Homolog, and HEN1, a Novel Protein, Act in microRNA Metabolism in Arabidopsis thaliana. Current Biology, 2002, 12, 1484-1495.	1.8	1,125
5	Methylation as a Crucial Step in Plant microRNA Biogenesis. Science, 2005, 307, 932-935.	6.0	967
6	Biogenesis, Turnover, and Mode of Action of Plant MicroRNAs. Plant Cell, 2013, 25, 2383-2399.	3.1	874
7	Small RNAs and Their Roles in Plant Development. Annual Review of Cell and Developmental Biology, 2009, 25, 21-44.	4.0	867
8	Methylation Protects miRNAs and siRNAs from a 3â€²-End Uridylation Activity in Arabidopsis. Current Biology, 2005, 15, 1501-1507.	1.8	696
9	microRNA biogenesis and function in plants. FEBS Letters, 2005, 579, 5923-5931.	1.3	458
10	MicroRNAs Inhibit the Translation of Target mRNAs on the Endoplasmic Reticulum in Arabidopsis. Cell, 2013, 153, 562-574.	13.5	451
11	Orchestration of the Floral Transition and Floral Development in<i>Arabidopsis</i>by the Bifunctional Transcription Factor APETALA2 Â. Plant Cell, 2010, 22, 2156-2170.	3.1	427
12	The â€˜howâ€™ and â€˜whereâ€™ of plant micro<scp>RNA</scp>s. New Phytologist, 2017, 216, 1002-1017.	3.5	409
13	HEN1 recognizes 21-24 nt small RNA duplexes and deposits a methyl group onto the 2' OH of the 3' terminal nucleotide. Nucleic Acids Research, 2006, 34, 667-675.	6.5	398
14	RNAi-mediated viral immunity requires amplification of virus-derived siRNAs in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 484-489.	3.3	385
15	Degradation of microRNAs by a Family of Exoribonucleases in <i>Arabidopsis</i>. Science, 2008, 321, 1490-1492.	6.0	376
16	Effective Small RNA Destruction by the Expression of a Short Tandem Target Mimic in <i>Arabidopsis</i>. Plant Cell, 2012, 24, 415-427.	3.1	353
17	Small RNAs serve as a genetic buffer against genomic shock in <i>Arabidopsis</i> interspecific hybrids and allopolyploids. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17835-17840.	3.3	320
18	The FHA domain proteins DAWDLE in <i>Arabidopsis</i> and SNIP1 in humans act in small RNA biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10073-10078.	3.3	284

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19	Arabidopsis HEN1. Current Biology, 2003, 13, 843-848.	1.8	276
20	<i>AGAMOUS</i>Terminates Floral Stem Cell Maintenance in<i>Arabidopsis</i>by Directly Repressing<i>WUSCHEL</i>through Recruitment of Polycomb Group Proteins. Plant Cell, 2011, 23, 3654-3670.	3.1	270
21	The role of Mediator in small and long noncoding RNA production in<i>Arabidopsis thaliana</i>. EMBO Journal, 2011, 30, 814-822.	3.5	255
22	Oomycete pathogens encode RNA silencing suppressors. Nature Genetics, 2013, 45, 330-333.	9.4	238
23	Plant Noncoding RNAs: Hidden Players in Development and Stress Responses. Annual Review of Cell and Developmental Biology, 2019, 35, 407-431.	4.0	228
24	Intergenic transcription by RNA Polymerase II coordinates Pol IV and Pol V in siRNA-directed transcriptional gene silencing in <i>Arabidopsis</i>. Genes and Development, 2009, 23, 2850-2860.	2.7	224
25	A Histone Acetyltransferase Regulates Active DNA Demethylation in <i>Arabidopsis</i>. Science, 2012, 336, 1445-1448.	6.0	224
26	Regulation of small RNA stability: methylation and beyond. Cell Research, 2012, 22, 624-636.	5.7	212
27	siRNAs targeting an intronic transposon in the regulation of natural flowering behavior in Arabidopsis. Genes and Development, 2004, 18, 2873-2878.	2.7	200
28	Small RNAs in development â€“ insights from plants. Current Opinion in Genetics and Development, 2012, 22, 361-367.	1.5	193
29	Concerted genomic targeting of H3K27 demethylase REF6 and chromatin-remodeling ATPase BRM in Arabidopsis. Nature Genetics, 2016, 48, 687-693.	9.4	193
30	The Arabidopsis Nucleotidyl Transferase HESO1ÂUridylates Unmethylated Small RNAs to Trigger Their Degradation. Current Biology, 2012, 22, 689-694.	1.8	187
31	ARGONAUTE10 and ARGONAUTE1 Regulate the Termination of Floral Stem Cells through Two MicroRNAs in Arabidopsis. PLoS Genetics, 2011, 7, e1001358.	1.5	186
32	miR172 regulates stem cell fate and defines the inner boundary of APETALA3 and PISTILLATA expression domain in Arabidopsis floral meristems. Plant Journal, 2007, 51, 840-849.	2.8	180
33	A Phytophthora Effector Suppresses Trans-Kingdom RNAi to Promote Disease Susceptibility. Cell Host and Microbe, 2019, 25, 153-165.e5.	5.1	173
34	Two RNA Binding Proteins, HEN4 and HUA1, Act in the Processing of AGAMOUS Pre-mRNA in Arabidopsis thaliana. Developmental Cell, 2003, 4, 53-66.	3.1	161
35	Small RNA metabolism in Arabidopsis. Trends in Plant Science, 2008, 13, 368-374.	4.3	161
36	Uridylation of miRNAs by HEN1 SUPPRESSOR1 in Arabidopsis. Current Biology, 2012, 22, 695-700.	1.8	155

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37	DICER-LIKE2 Plays a Primary Role in Transitive Silencing of Transgenes in Arabidopsis. PLoS ONE, 2008, 3, e1755.	1.1	154
38	<i>HUA1</i>, a Regulator of Stamen and Carpel Identities in Arabidopsis, Codes for a Nuclear RNA Binding Protein. Plant Cell, 2001, 13, 2269-2281.	3.1	152
39	NOT2 Proteins Promote Polymerase IIâ€"Dependent Transcription and Interact with Multiple MicroRNA Biogenesis Factors in <i>Arabidopsis</i> Â Â. Plant Cell, 2013, 25, 715-727.	3.1	147
40	<i>HEN1</i>functions pleiotropically in<i>Arabidopsis</i>development and acts in C function in the flower. Development (Cambridge), 2002, 129, 1085-1094.	1.2	145
41	Detection of Pol IV/RDR2-dependent transcripts at the genomic scale in <i>Arabidopsis</i> reveals features and regulation of siRNA biogenesis. Genome Research, 2015, 25, 235-245.	2.4	143
42	The evolution of microRNAs in plants. Current Opinion in Plant Biology, 2017, 35, 61-67.	3.5	135
43	Structural insights into mechanisms of the small RNA methyltransferase HEN1. Nature, 2009, 461, 823-827.	13.7	129
44	Genome-wide analysis reveals rapid and dynamic changes in miRNA and siRNA sequence and expression during ovule and fiber development in allotetraploid cotton (Gossypium hirsutum L.). Genome Biology, 2009, 10, R122.	13.9	128
45	Distinct and Cooperative Activities of HESO1 and URT1 Nucleotidyl Transferases in MicroRNA Turnover in Arabidopsis. PLoS Genetics, 2015, 11, e1005119.	1.5	125
46	Roles of small <scp>RNA</scp>s in soybean defense against <i><scp>P</scp>hytophthora sojae</i> infection. Plant Journal, 2014, 79, 928-940.	2.8	122
47	<i><scp>AUXIN RESPONSE FACTOR</scp> 3</i> integrates the functions of <i><scp>AGAMOUS</scp></i> and <i><scp>APETALA</scp>2</i> in floral meristem determinacy. Plant Journal, 2014, 80, 629-641.	2.8	115
48	PANDORA-seq expands the repertoire of regulatory small RNAs by overcoming RNA modifications. Nature Cell Biology, 2021, 23, 424-436.	4.6	115
49	Plant MicroRNAs Display Differential 3' Truncation and Tailing Modifications That Are ARGONAUTE1 Dependent and Conserved Across Species. Plant Cell, 2013, 25, 2417-2428.	3.1	113
50	Methylation protects microRNAs from an AGO1-associated activity that uridylates 5â€² RNA fragments generated by AGO1 cleavage. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6365-6370.	3.3	113
51	Small RNA-Directed Epigenetic Natural Variation in Arabidopsis thaliana. PLoS Genetics, 2008, 4, e1000056.	1.5	112
52	The Arabidopsis SWI2/SNF2 Chromatin Remodeler BRAHMA Regulates Polycomb Function during Vegetative Development and Directly Activates the Flowering Repressor Gene SVP. PLoS Genetics, 2015, 11, e1004944.	1.5	111
53	POWERDRESS and HDA9 interact and promote histone H3 deacetylation at specific genomic sites in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14858-14863.	3.3	111
54	Intercellular and systemic trafficking of RNAs in plants. Nature Plants, 2018, 4, 869-878.	4.7	110

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55	HUA ENHANCER3 reveals a role for a cyclin-dependent protein kinase in the specification of floral organ identity in Arabidopsis. Development (Cambridge), 2004, 131, 3147-3156.	1.2	107
56	Transgenically expressed viral RNA silencing suppressors interfere with microRNA methylation inArabidopsis. FEBS Letters, 2006, 580, 3117-3120.	1.3	107
57	Biochemical Activities of Arabidopsis RNA-dependent RNA Polymerase 6. Journal of Biological Chemistry, 2008, 283, 3059-3066.	1.6	104
58	Biogenesis of phased siRNAs on membrane-bound polysomes in Arabidopsis. ELife, 2016, 5, .	2.8	104
59	HEN1 functions pleiotropically in Arabidopsis development and acts in C function in the flower. Development (Cambridge), 2002, 129, 1085-94.	1.2	102
60	Plant developmentâ€"a snapshot in 2012. Current Opinion in Plant Biology, 2012, 15, 1-3.	3.5	101
61	Floral patterning defects induced by Arabidopsis APETALA2 and microRNA172 expression in Nicotiana benthamiana. Plant Molecular Biology, 2006, 61, 781-793.	2.0	99
62	Small RNAs â€" secrets and surprises of the genome. Plant Journal, 2010, 61, 941-958.	2.8	99
63	Dynamics of histone H3 lysine 27 trimethylation in plant development. Current Opinion in Plant Biology, 2011, 14, 123-129.	3.5	96
64	HUA1 and HUA2 Are Two Members of the Floral Homeotic AGAMOUS Pathway. Molecular Cell, 1999, 3, 349-360.	4.5	95
65	Conservation and divergence of small RNA pathways and microRNAs in land plants. Genome Biology, 2017, 18, 158.	3.8	91
66	Function of the Chlamydomonas reinhardtii petD 5' untranslated region in regulating the accumulation of subunit IV of the cytochrome b6/f complex. Plant Journal, 1994, 6, 503-512.	2.8	89
67	The floral homeotic protein APETALA2 recognizes and acts through an AT-rich sequence element. Development (Cambridge), 2012, 139, 1978-1986.	1.2	87
68	MicroRNA Metabolism in Plants. Current Topics in Microbiology and Immunology, 2008, 320, 117-136.	0.7	86
69	POWERDRESS and Diversified Expression of the MIR172 Gene Family Bolster the Floral Stem Cell Network. PLoS Genetics, 2013, 9, e1003218.	1.5	85
70	The Anaphase-Promoting Complex Is a Dual Integrator That Regulates Both MicroRNA-Mediated Transcriptional Regulation of<i>Cyclin B1</i>and Degradation of Cyclin B1 during<i>Arabidopsis</i>Male Gametophyte Development Â. Plant Cell, 2011, 23, 1033-1046.	3.1	81
71	Synergistic and Independent Actions of Multiple Terminal Nucleotidyl Transferases in the 3â€™ Tailing of Small RNAs in Arabidopsis. PLoS Genetics, 2015, 11, e1005091.	1.5	81
72	The Arabidopsis MOS4-Associated Complex Promotes MicroRNA Biogenesis and Precursor Messenger RNA Splicing. Plant Cell, 2017, 29, 2626-2643.	3.1	81

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73	ARGONAUTE10 promotes the degradation of miR165/6 through the SDN1 and SDN2 exonucleases in Arabidopsis. PLoS Biology, 2017, 15, e2001272.	2.6	81
74	LEUNIG and SEUSS co-repressors regulate <i>miR172</i> expression in <i>Arabidopsis</i> flowers. Development (Cambridge), 2011, 138, 2451-2456.	1.2	79
75	Ancient Origin and Recent Innovations of RNA Polymerase IV and V. Molecular Biology and Evolution, 2015, 32, 1788-1799.	3.5	77
76	NAD ⁺ -capped RNAs are widespread in the <i>Arabidopsis</i> transcriptome and can probably be translated. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12094-12102.	3.3	77
77	Mechanisms of microRNA turnover. Current Opinion in Plant Biology, 2015, 27, 199-206.	3.5	73
78	RNA Quality Control as a Key to Suppressing RNA Silencing of Endogenous Genes in Plants. Molecular Plant, 2016, 9, 826-836.	3.9	73
79	Plant and animal small RNA communications between cells and organisms. Nature Reviews Molecular Cell Biology, 2022, 23, 185-203.	16.1	72
80	Linking key steps of microRNA biogenesis by TREX-2 and the nuclear pore complex in Arabidopsis. Nature Plants, 2020, 6, 957-969.	4.7	71
81	RNA polymerase V-dependent small RNAs in Arabidopsis originate from small, intergenic loci including most SINE repeats. Epigenetics, 2012, 7, 781-795.	1.3	69
82	Traffic into silence: endomembranes and post-transcriptional RNA silencing. EMBO Journal, 2014, 33, 968-980.	3.5	69
83	The THO Complex Non-Cell-Autonomously Represses Female Germline Specification through the TAS3-ARF3 Module. Current Biology, 2017, 27, 1597-1609.e2.	1.8	69
84	MicroRNAâ€"Mediated Repression of the Seed Maturation Program during Vegetative Development in Arabidopsis. PLoS Genetics, 2012, 8, e1003091.	1.5	68
85	<i>KLU</i> suppresses megasporocyte cell fate through SWR1-mediated activation of <i>WRKY28</i> expression in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E526-E535.	3.3	66
86	NAD tagSeq reveals that NAD ⁺ -capped RNAs are mostly produced from a large number of protein-coding genes in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12072-12077.	3.3	61
87	The disease resistance protein SNC1 represses the biogenesis of microRNAs and phased siRNAs. Nature Communications, 2018, 9, 5080.	5.8	60
88	siRNAs compete with miRNAs for methylation by HEN1 in Arabidopsis. Nucleic Acids Research, 2010, 38, 5844-5850.	6.5	59
89	PAUSED, a Putative Exportin-t, Acts Pleiotropically in Arabidopsis Development But Is Dispensable for Viability Â. Plant Physiology, 2003, 132, 1913-1924.	2.3	54
90	<i><scp>APETALA</scp>2</i> antagonizes the transcriptional activity of <i><scp>AGAMOUS</scp></i> in regulating floral stem cells in <i>Arabidopsis thaliana</i>. New Phytologist, 2017, 215, 1197-1209.	3.5	53

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91	A Resource for Inactivation of MicroRNAs Using Short Tandem Target Mimic Technology in Model and Crop Plants. Molecular Plant, 2018, 11, 1400-1417.	3.9	52
92	The Exosome and Trans-Acting Small Interfering RNAs Regulate Cuticular Wax Biosynthesis during Arabidopsis Inflorescence Stem Development. Plant Physiology, 2015, 167, 323-336.	2.3	51
93	The PROTEIN PHOSPHATASE4 Complex Promotes Transcription and Processing of Primary microRNAs in Arabidopsis. Plant Cell, 2019, 31, 486-501.	3.1	51
94	YTHDF2 Binds to 5-Methylcytosine in RNA and Modulates the Maturation of Ribosomal RNA. Analytical Chemistry, 2020, 92, 1346-1354.	3.2	50
95	HUA ENHANCER2, a putative DExH-box RNA helicase, maintains homeotic B and C gene expression inArabidopsis. Development (Cambridge), 2002, 129, 1569-1581.	1.2	50
96	Genome-Wide Transcript and Small RNA Profiling Reveals Transcriptomic Responses to Heat Stress. Plant Physiology, 2019, 181, 609-629.	2.3	49
97	Transcriptional silencing induced by Arabidopsis T-DNA mutants is associated with 35S promoter siRNAs and requires genes involved in siRNA-mediated chromatin silencing. Plant Journal, 2010, 64, 699-704.	2.8	47
98	Biogenesis of a 22-nt microRNA in Phaseoleae species by precursor-programmed uridylation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8037-8042.	3.3	46
99	PARylation of the forkheadâ€associated domain protein DAWDLE regulates plant immunity. EMBO Reports, 2016, 17, 1799-1813.	2.0	42
100	Genome-wide analysis of microRNAs in rubber tree (Hevea brasiliensis L.) using high-throughput sequencing. Planta, 2012, 236, 437-445.	1.6	41
101	SUVH1, a Su(var)3â€“9 family member, promotes the expression of genes targeted by DNA methylation. Nucleic Acids Research, 2016, 44, 608-620.	6.5	41
102	Computational prediction of novel non-coding RNAs in Arabidopsis thaliana. BMC Bioinformatics, 2009, 10, S36.	1.2	40
103	Regulation of Female Germline Specification via Small RNA Mobility in Arabidopsis. Plant Cell, 2020, 32, 2842-2854.	3.1	40
104	DNA Topoisomerase I Affects Polycomb Group Protein-Mediated Epigenetic Regulation and Plant Development by Altering Nucleosome Distribution in <i>Arabidopsis</i>. Plant Cell, 2014, 26, 2803-2817.	3.1	38
105	<i>FAR-RED ELONGATED HYPOCOTYL3</i> activates <i>SEPALLATA2</i> but inhibits <i>CLAVATA3</i> to regulate meristem determinacy and maintenance in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9375-9380.	3.3	36
106	Global Co-transcriptional Splicing in Arabidopsis and the Correlation with Splicing Regulation in Mature RNAs. Molecular Plant, 2020, 13, 266-277.	3.9	36
107	Approaches for Studying MicroRNA and Small Interfering RNA Methylation In Vitro and In Vivo. Methods in Enzymology, 2007, 427, 139-154.	0.4	32
108	Transcriptional landscapes of Axolotl (Ambystoma mexicanum). Developmental Biology, 2018, 433, 227-239.	0.9	31

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109	Posttranscriptional control of plant development. Current Opinion in Plant Biology, 2004, 7, 20-25.	3.5	29
110	TarHunter, a tool for predicting conserved microRNA targets and target mimics in plants. Bioinformatics, 2018, 34, 1574-1576.	1.8	29
111	<i>Arabidopsis</i> DXO1 possesses deNADding and exonuclease activities and its mutation affects defenseâ€related and photosynthetic gene expression. Journal of Integrative Plant Biology, 2020, 62, 967-983.	4.1	29
112	FIERY1 promotes microRNA accumulation by suppressing rRNA-derived small interfering RNAs in Arabidopsis. Nature Communications, 2019, 10, 4424.	5.8	28
113	A Genetic Screen for Modifiers of UFO Meristem Activity Identifies Three Novel FUSED FLORAL ORGANS Genes Required for Early Flower Development in Arabidopsis. Genetics, 1998, 149, 579-595.	1.2	27
114	DNA Topoisomerase 1Î± Promotes Transcriptional Silencing of Transposable Elements through DNA Methylation and Histone Lysine 9 Dimethylation in Arabidopsis. PLoS Genetics, 2014, 10, e1004446.	1.5	26
115	SPAAC-NAD-seq, a sensitive and accurate method to profile NAD ⁺ -capped transcripts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
116	HUA ENHANCER2, a putative DExH-box RNA helicase, maintains homeotic B and C gene expression in Arabidopsis. Development (Cambridge), 2002, 129, 1569-81.	1.2	26
117	Uridylation and adenylation of RNAs. Science China Life Sciences, 2015, 58, 1057-1066.	2.3	25
118	HSP90 inhibitors stimulate DNAJB4 protein expression through a mechanism involving N6-methyladenosine. Nature Communications, 2019, 10, 3613.	5.8	24
119	Origin, evolution and diversification of plant ARGONAUTE proteins. Plant Journal, 2022, 109, 1086-1097.	2.8	24
120	Non-coding RNAs and DNA methylation in plants. National Science Review, 2014, 1, 219-229.	4.6	23
121	Structural and biochemical insights into small RNA 3â€² end trimming by Arabidopsis SDN1. Nature Communications, 2018, 9, 3585.	5.8	23
122	Small RNAs meet their targets: When methylation defends miRNAs from uridylation. RNA Biology, 2014, 11, 1099-1104.	1.5	22
123	Microtubules promote the non-cell autonomous action of microRNAs by inhibiting their cytoplasmic loading onto ARGONAUTE1 in Arabidopsis. Developmental Cell, 2022, 57, 995-1008.e5.	3.1	22
124	Minimal regions in the Arabidopsis PISTILLATA promoter responsive to the APETALA3 / PISTILLATA feedback control do not contain a CArG box. Sexual Plant Reproduction, 2000, 13, 85-94.	2.2	21
125	A Silencing Safeguard: Links between RNA Silencing and mRNA Processing in Arabidopsis. Developmental Cell, 2008, 14, 811-812.	3.1	20
126	RST1 Is a FREE1 Suppressor That Negatively Regulates Vacuolar Trafficking in Arabidopsis. Plant Cell, 2019, 31, 2152-2168.	3.1	20

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127	Verification of <scp>DNA</scp> motifs <i>in Arabidopsis</i> using <scp>CRISPR</scp>/Cas9â€mediated mutagenesis. Plant Biotechnology Journal, 2018, 16, 1446-1451.	4.1	19
128	Prevalent cytidylation and uridylation of precursor miRNAs in Arabidopsis. Nature Plants, 2019, 5, 1260-1272.	4.7	19
129	Regulation of ARGONAUTE10 Expression Enables Temporal and Spatial Precision in Axillary Meristem Initiation in Arabidopsis. Developmental Cell, 2020, 55, 603-616.e5.	3.1	19
130	Widespread occurrence of microRNA-mediated target cleavage on membrane-bound polysomes. Genome Biology, 2021, 22, 15.	3.8	19
131	Analysis of miRNA Modifications. Methods in Molecular Biology, 2010, 592, 137-148.	0.4	19
132	Arabidopsis RBV is a conserved WD40 repeat protein that promotes microRNA biogenesis and ARGONAUTE1 loading. Nature Communications, 2022, 13, 1217.	5.8	19
133	Fast-Suppressor Screening for New Components in Protein Trafficking, Organelle Biogenesis and Silencing Pathway in Arabidopsis thaliana Using DEX-Inducible FREE1-RNAi Plants. Journal of Genetics and Genomics, 2015, 42, 319-330.	1.7	18
134	Direct photoresponsive inhibition of a p53-like transcription activation domain in PIF3 by Arabidopsis phytochrome B. Nature Communications, 2021, 12, 5614.	5.8	18
135	The MBD7 complex promotes expression of methylated transgenes without significantly altering their methylation status. ELife, 2017, 6, .	2.8	18
136	Linkage mapping and expression analysis of miRNAs and their target genes during fiber development in cotton. BMC Genomics, 2013, 14, 706.	1.2	17
137	A partial loss-of-function mutation in an Arabidopsis RNA polymerase III subunit leads to pleiotropic defects. Journal of Experimental Botany, 2016, 67, 2219-2230.	2.4	17
138	Use of NAD tagSeq II to identify growth phase-dependent alterations in <i>E. coli</i> RNA NAD ⁺ capping. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
139	Trip to ER. RNA Biology, 2013, 10, 1586-1592.	1.5	16
140	Spatiotemporal control of miR398 biogenesis, via chromatin remodeling and kinase signaling, ensures proper ovule development. Plant Cell, 2021, 33, 1530-1553.	3.1	16
141	Secrets of the MIR172 family in plant development and flowering unveiled. PLoS Biology, 2021, 19, e3001099.	2.6	16
142	A Dominant Mutation in the <i>Chlamydomonas reinhardtii</i> Nuclear Gene <i>SIM30</i> Suppresses Translational Defects Caused by Initiation Codon Mutations in Chloroplast Genes. Genetics, 1997, 145, 935-943.	1.2	16
143	The plant Mediator and its role in noncoding RNA production. Frontiers in Biology, 2011, 6, 125-132.	0.7	15
144	Generation of a luciferase-based reporter for CHH and CG DNA methylation in Arabidopsis thaliana. Silence: A Journal of RNA Regulation, 2013, 4, 1.	8.0	15

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145	Increasing the efficiency of CRISPR/Cas9-based gene editing by suppressing RNAi in plants. Science China Life Sciences, 2019, 62, 982-984.	2.3	15
146	Quality control and evaluation of plant epigenomics data. Plant Cell, 2022, 34, 503-513.	3.1	13
147	Protein arginine methyltransferase 3 fine-tunes the assembly/disassembly of pre-ribosomes to repress nucleolar stress by interacting with RPS2B in arabidopsis. Molecular Plant, 2021, 14, 223-236.	3.9	11
148	Plant cytoplasmic ribosomal proteins: an update on classification, nomenclature, evolution and resources. Plant Journal, 2022, 110, 292-318.	2.8	11
149	BrpNAC895 and BrpABI449 coregulate the transcription of the afflux-type cadmium transporter <i>BrpHMA2</i> in <i>Brassica parachinensis</i>. Horticulture Research, 2022, 9, .	2.9	11
150	A marked end. Nature Structural and Molecular Biology, 2007, 14, 259-260.	3.6	10
151	Plant microRNAs at a glance. Seminars in Cell and Developmental Biology, 2010, 21, 781.	2.3	10
152	Genetic Screens for Floral Mutants in Arabidopsis thaliana: Enhancers and Suppressors. Methods in Molecular Biology, 2014, 1110, 127-156.	0.4	9
153	HUA1, a Regulator of Stamen and Carpel Identities in Arabidopsis, Codes for a Nuclear RNA Binding Protein. Plant Cell, 2001, 13, 2269.	3.1	8
154	Development of a luciferase-based reporter of transcriptional gene silencing that enables bidirectional mutant screening in Arabidopsis thaliana. Silence: A Journal of RNA Regulation, 2012, 3, 6.	8.0	8
155	Distinct Evolutionary Profiles and Functions of microRNA156 and microRNA529 in Land Plants. International Journal of Molecular Sciences, 2021, 22, 11100.	1.8	8
156	Hybrid Decay: A Transgenerational Epigenetic Decline in Vigor and Viability Triggered in Backcross Populations of Teosinte with Maize. Genetics, 2019, 213, 143-160.	1.2	7
157	Genome-wide mRNA and small RNA transcriptome profiles uncover cultivar- and tissue-specific changes induced by cadmium in Brassica parachinensis. Environmental and Experimental Botany, 2020, 180, 104207.	2.0	7
158	<i>TRANS-ACTING SIRNA3-</i>derived short interfering RNAs confer cleavage of mRNAs in rice. Plant Physiology, 2022, 188, 347-362.	2.3	6
159	Small RNAs in Plants. , 2014, , 95-127.		5
160	High resolution RNAâ€seq profiling of genes encoding ribosomal proteins across different organs and developmental stages in Arabidopsis thaliana. Plant Direct, 2021, 5, e00320.	0.8	5
161	Mechanism for the genomic and functional evolution of the MIR2118 family in the grass lineage. New Phytologist, 2022, 233, 1915-1930.	3.5	5
162	Arabidopsis paralogous genes RPL23aA and RPL23aB encode functionally equivalent proteins. BMC Plant Biology, 2020, 20, 463.	1.6	4

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163	NAD+-capped RNAs are widespread in rice (Oryza sativa) and spatiotemporally modulated during development. Science China Life Sciences, 2022, 65, 2121-2124.	2.3	4
164	Chemical Genetic Screens Using Arabidopsis thaliana Seedlings Grown on Solid Medium. Methods in Molecular Biology, 2015, 1263, 111-125.	0.4	2
165	Special Issue on Plant Epigenetics. Molecular Plant, 2014, 7, 453.	3.9	1
166	Endogenous Small RNA Pathways in Arabidopsis. , 2009, , 197-214.		0
167	Small RNA metabolism and function in Arabidopsis. FASEB Journal, 2009, 23, 194.1.	0.2	0
168	Structural insights into mechanisms of the small RNA methyltransferase HEN1. FASEB Journal, 2010, 24, 499.6.	0.2	0
169	Nucleus and Genome: Small RNAs. , 2013, , 1-30.		0
170	RNA-seq analysis on Arabidopsis ago1-27 mutant. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering, 2017, 34, 27.	0.1	0