

# James C Carrington

## List of Publications by Citations

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154  
papers

39,744  
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93  
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161  
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161  
ext. papers

44,389  
ext. citations

12.3  
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7.32  
L-index

#	Paper	IF	Citations
154	microRNA-directed phasing during trans-acting siRNA biogenesis in plants. <i>Cell</i> , <b>2005</b> , 121, 207-21	56.2	1783
153	Role of microRNAs in plant and animal development. <i>Science</i> , <b>2003</b> , 301, 336-8	33.3	1455
152	Genome sequencing and analysis of the model grass <i>Brachypodium distachyon</i> . <i>Nature</i> , <b>2010</b> , 463, 763-8	50.4	1399
151	Control of leaf morphogenesis by microRNAs. <i>Nature</i> , <b>2003</b> , 425, 257-63	50.4	1393
150	Cleavage of Scarecrow-like mRNA targets directed by a class of <i>Arabidopsis</i> miRNA. <i>Science</i> , <b>2002</b> , 297, 2053-6	33.3	1336
149	A uniform system for microRNA annotation. <i>Rna</i> , <b>2003</b> , 9, 277-9	5.8	1332
148	Genetic and functional diversification of small RNA pathways in plants. <i>PLoS Biology</i> , <b>2004</b> , 2, E104	9.7	1160
147	Genome sequence and analysis of the Irish potato famine pathogen <i>Phytophthora infestans</i> . <i>Nature</i> , <b>2009</b> , 461, 393-8	50.4	1041
146	Criteria for annotation of plant MicroRNAs. <i>Plant Cell</i> , <b>2008</b> , 20, 3186-90	11.6	992
145	Role of transposable elements in heterochromatin and epigenetic control. <i>Nature</i> , <b>2004</b> , 430, 471-6	50.4	958
144	High-throughput sequencing of <i>Arabidopsis</i> microRNAs: evidence for frequent birth and death of MIRNA genes. <i>PLoS ONE</i> , <b>2007</b> , 2, e219	3.7	921
143	Genome streamlining in a cosmopolitan oceanic bacterium. <i>Science</i> , <b>2005</b> , 309, 1242-5	33.3	815
142	P1/HC-Pro, a viral suppressor of RNA silencing, interferes with <i>Arabidopsis</i> development and miRNA uncton. <i>Developmental Cell</i> , <b>2003</b> , 4, 205-17	10.2	803
141	Endogenous and silencing-associated small RNAs in plants. <i>Plant Cell</i> , <b>2002</b> , 14, 1605-19	11.6	708
140	Hierarchical action and inhibition of plant Dicer-like proteins in antiviral defense. <i>Science</i> , <b>2006</b> , 313, 68-73	33.3	683
139	A counterdefensive strategy of plant viruses: suppression of posttranscriptional gene silencing. <i>Cell</i> , <b>1998</b> , 95, 461-70	56.2	667
138	The <i>Arabidopsis lyrata</i> genome sequence and the basis of rapid genome size change. <i>Nature Genetics</i> , <b>2011</b> , 43, 476-81	36.3	638

137	Specificity of ARGONAUTE7-miR390 interaction and dual functionality in TAS3 trans-acting siRNA formation. <i>Cell</i> , <b>2008</b> , 133, 128-41	56.2	612
136	Specialization and evolution of endogenous small RNA pathways. <i>Nature Reviews Genetics</i> , <b>2007</b> , 8, 884-96	36.1	561
135	Evolution and functional diversification of MIRNA genes. <i>Plant Cell</i> , <b>2011</b> , 23, 431-42	11.6	541
134	Expression of Arabidopsis MIRNA genes. <i>Plant Physiology</i> , <b>2005</b> , 138, 2145-54	6.6	523
133	Evolution of microRNA genes by inverted duplication of target gene sequences in Arabidopsis thaliana. <i>Nature Genetics</i> , <b>2004</b> , 36, 1282-90	36.3	485
132	Negative feedback regulation of Dicer-Like1 in Arabidopsis by microRNA-guided mRNA degradation. <i>Current Biology</i> , <b>2003</b> , 13, 784-9	6.3	467
131	Regulation of AUXIN RESPONSE FACTOR3 by TAS3 ta-siRNA affects developmental timing and patterning in Arabidopsis. <i>Current Biology</i> , <b>2006</b> , 16, 939-44	6.3	461
130	DICER-LIKE 4 functions in trans-acting small interfering RNA biogenesis and vegetative phase change in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 12984-9	11.5	447
129	Viral RNA silencing suppressors inhibit the microRNA pathway at an intermediate step. <i>Genes and Development</i> , <b>2004</b> , 18, 1179-86	12.6	444
128	Plant viral synergism: the potyviral genome encodes a broad-range pathogenicity enhancer that transactivates replication of heterologous viruses. <i>Plant Cell</i> , <b>1997</b> , 9, 859-68	11.6	437
127	Repression of AUXIN RESPONSE FACTOR10 by microRNA160 is critical for seed germination and post-germination stages. <i>Plant Journal</i> , <b>2007</b> , 52, 133-46	6.9	428
126	Silencing on the spot. Induction and suppression of RNA silencing in the Agrobacterium-mediated transient expression system. <i>Plant Physiology</i> , <b>2001</b> , 126, 930-8	6.6	425
125	RNA silencing genes control de novo DNA methylation. <i>Science</i> , <b>2004</b> , 303, 1336	33.3	424
124	Genome-wide profiling and analysis of Arabidopsis siRNAs. <i>PLoS Biology</i> , <b>2007</b> , 5, e57	9.7	422
123	PRG-1 and 21U-RNAs interact to form the piRNA complex required for fertility in C. elegans. <i>Molecular Cell</i> , <b>2008</b> , 31, 67-78	17.6	410
122	Small RNA binding is a common strategy to suppress RNA silencing by several viral suppressors. <i>EMBO Journal</i> , <b>2006</b> , 25, 2768-80	13	395
121	Cell-to-Cell and Long-Distance Transport of Viruses in Plants. <i>Plant Cell</i> , <b>1996</b> , 8, 1669-1681	11.6	394
120	Arabidopsis RNA-dependent RNA polymerases and dicer-like proteins in antiviral defense and small interfering RNA biogenesis during Turnip Mosaic Virus infection. <i>Plant Cell</i> , <b>2010</b> , 22, 481-96	11.6	347

119	Distinct argonaute-mediated 22G-RNA pathways direct genome surveillance in the <i>C. elegans</i> germline. <i>Molecular Cell</i> , <b>2009</b> , 36, 231-44	17.6	344
118	Unique functionality of 22-nt miRNAs in triggering RDR6-dependent siRNA biogenesis from target transcripts in <i>Arabidopsis</i> . <i>Nature Structural and Molecular Biology</i> , <b>2010</b> , 17, 997-1003	17.6	339
117	Nuclear transport of plant potyviral proteins. <i>Plant Cell</i> , <b>1990</b> , 2, 987-98	11.6	334
116	Formation of plant RNA virus replication complexes on membranes: role of an endoplasmic reticulum-targeted viral protein. <i>EMBO Journal</i> , <b>1997</b> , 16, 4049-59	13	317
115	Genome-wide analysis of the RNA-DEPENDENT RNA POLYMERASE6/DICER-LIKE4 pathway in <i>Arabidopsis</i> reveals dependency on miRNA- and tasiRNA-directed targeting. <i>Plant Cell</i> , <b>2007</b> , 19, 926-42	11.6	311
114	Sequence and expression differences underlie functional specialization of <i>Arabidopsis</i> microRNAs miR159 and miR319. <i>Developmental Cell</i> , <b>2007</b> , 13, 115-25	10.2	306
113	Loss-of-susceptibility mutants of <i>Arabidopsis thaliana</i> reveal an essential role for eIF(iso)4E during potyvirus infection. <i>Current Biology</i> , <b>2002</b> , 12, 1046-51	6.3	304
112	Small RNA duplexes function as mobile silencing signals between plant cells. <i>Science</i> , <b>2010</b> , 328, 912-6	33.3	300
111	Pattern formation via small RNA mobility. <i>Genes and Development</i> , <b>2009</b> , 23, 549-54	12.6	289
110	Virus-encoded suppressor of posttranscriptional gene silencing targets a maintenance step in the silencing pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 13401-6	11.5	282
109	Role of <i>Arabidopsis</i> ARGONAUTE4 in RNA-directed DNA methylation triggered by inverted repeats. <i>Current Biology</i> , <b>2004</b> , 14, 1214-20	6.3	263
108	Small RNAs serve as a genetic buffer against genomic shock in <i>Arabidopsis</i> interspecific hybrids and allopolyploids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 17835-40	11.5	257
107	Long-distance movement factor: a transport function of the potyvirus helper component proteinase. <i>Plant Cell</i> , <b>1995</b> , 7, 549-59	11.6	246
106	Identification and characterization of human cytomegalovirus-encoded microRNAs. <i>Journal of Virology</i> , <b>2005</b> , 79, 12095-9	6.6	231
105	Expression and Function of Potyviral Gene Products. <i>Annual Review of Phytopathology</i> , <b>1988</b> , 26, 123-143	10.8	213
104	MicroRNA gene evolution in <i>Arabidopsis lyrata</i> and <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , <b>2010</b> , 22, 1074-89	11.6	204
103	Capsid protein determinants involved in cell-to-cell and long distance movement of tobacco etch potyvirus. <i>Virology</i> , <b>1995</b> , 206, 1007-16	3.6	204
102	Formation of complexes at plasmodesmata for potyvirus intercellular movement is mediated by the viral protein P3N-PIPO. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000962	7.6	203

101	Tagging of plant potyvirus replication and movement by insertion of beta-glucuronidase into the viral polyprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 10208-12	11.5	197
100	Genome amplification and long-distance movement functions associated with the central domain of tobacco etch potyvirus helper component-proteinase. <i>Virology</i> , <b>1997</b> , 228, 251-62	3.6	194
99	Cell-to-Cell and Long-Distance Transport of Viruses in Plants. <i>Plant Cell</i> , <b>1996</b> , 8, 1669	11.6	193
98	Functional analysis of three Arabidopsis ARGONAUTES using slicer-defective mutants. <i>Plant Cell</i> , <b>2012</b> , 24, 3613-29	11.6	183
97	Green-fluorescent protein fusions for efficient characterization of nuclear targeting. <i>Plant Journal</i> , <b>1997</b> , 11, 573-86	6.9	181
96	Cloning of the Arabidopsis RTM1 gene, which controls restriction of long-distance movement of tobacco etch virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 489-94	11.5	178
95	A viral cleavage site cassette: identification of amino acid sequences required for tobacco etch virus polyprotein processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1988</b> , 85, 3391-5	11.5	174
94	Genetic framework for flowering-time regulation by ambient temperature-responsive miRNAs in Arabidopsis. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 3081-93	20.1	170
93	Antiviral roles of plant ARGONAUTES. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 27, 111-7	9.9	164
92	ASRP: the Arabidopsis Small RNA Project Database. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, D637-40	20.1	162
91	The 35-kDa protein from the N-terminus of the potyviral polyprotein functions as a third virus-encoded proteinase. <i>Virology</i> , <b>1991</b> , 185, 527-35	3.6	162
90	AGO1-miR173 complex initiates phased siRNA formation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20055-62	11.5	161
89	Transcription factors in light and circadian clock signaling networks revealed by genomewide mapping of direct targets for neurospora white collar complex. <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 1549-56		160
88	miRNA Target Prediction in Plants. <i>Methods in Molecular Biology</i> , <b>2010</b> , 592, 51-7	1.4	160
87	Bipartite signal sequence mediates nuclear translocation of the plant potyviral NIa protein. <i>Plant Cell</i> , <b>1991</b> , 3, 953-62	11.6	158
86	Long-distance movement and replication maintenance functions correlate with silencing suppression activity of potyviral HC-Pro. <i>Virology</i> , <b>2001</b> , 285, 71-81	3.6	157
85	Arabidopsis RTM2 gene is necessary for specific restriction of tobacco etch virus and encodes an unusual small heat shock-like protein. <i>Plant Cell</i> , <b>2000</b> , 12, 569-82	11.6	154
84	Simultaneous CRISPR/Cas9-mediated editing of cassava eIF4E isoforms nCBP-1 and nCBP-2 reduces cassava brown streak disease symptom severity and incidence. <i>Plant Biotechnology Journal</i> , <b>2019</b> , 17, 421-434	11.6	153

83	Genetic evidence for an essential role for potyvirus CI protein in cell-to-cell movement. <i>Plant Journal</i> , <b>1998</b> , 14, 393-400	6.9	151
82	Evidence for common ancestry of a chestnut blight hypovirulence-associated double-stranded RNA and a group of positive-strand RNA plant viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 10647-51	11.5	150
81	5Vproximal potyviral sequences mediate potato virus X/potyviral synergistic disease in transgenic tobacco. <i>Virology</i> , <b>1995</b> , 206, 583-90	3.6	149
80	A defective interfering RNA that contains a mosaic of a plant virus genome. <i>Cell</i> , <b>1987</b> , 51, 427-33	56.2	148
79	Arabidopsis RTM1 and RTM2 Genes Function in Phloem to Restrict Long-Distance Movement of Tobacco Etch Virus. <i>Plant Physiology</i> , <b>2001</b> , 127, 1667-1675	6.6	147
78	A Versatile Phenotyping System and Analytics Platform Reveals Diverse Temporal Responses to Water Availability in Setaria. <i>Molecular Plant</i> , <b>2015</b> , 8, 1520-35	14.4	140
77	Small nuclear inclusion protein encoded by a plant potyvirus genome is a protease. <i>Journal of Virology</i> , <b>1987</b> , 61, 2540-8	6.6	138
76	Strain-specific interaction of the tobacco etch virus NIa protein with the translation initiation factor eIF4E in the yeast two-hybrid system. <i>Virology</i> , <b>2000</b> , 273, 300-6	3.6	128
75	The genome structure of turnip crinkle virus. <i>Virology</i> , <b>1989</b> , 170, 219-26	3.6	125
74	Nucleotide sequence and genome organization of carnation mottle virus RNA. <i>Nucleic Acids Research</i> , <b>1985</b> , 13, 6663-77	20.1	121
73	Diverse suppressors of RNA silencing enhance agroinfection by a viral replicon. <i>Virology</i> , <b>2006</b> , 346, 7-14	3.6	119
72	Identification of essential residues in potyvirus proteinase HC-Pro by site-directed mutagenesis. <i>Virology</i> , <b>1989</b> , 173, 692-9	3.6	118
71	Identification of MIR390a precursor processing-defective mutants in Arabidopsis by direct genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 466-71	11.5	116
70	Climate change and the integrity of science. <i>Science</i> , <b>2010</b> , 328, 689-90	33.3	116
69	Multimegabase silencing in nucleolar dominance involves siRNA-directed DNA methylation and specific methylcytosine-binding proteins. <i>Molecular Cell</i> , <b>2008</b> , 32, 673-84	17.6	116
68	Suppressor of RNA silencing encoded by Beet yellows virus. <i>Virology</i> , <b>2003</b> , 306, 203-9	3.6	113
67	Roles and programming of Arabidopsis ARGONAUTE proteins during Turnip mosaic virus infection. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004755	7.6	111
66	Computational and analytical framework for small RNA profiling by high-throughput sequencing. <i>Rna</i> , <b>2009</b> , 15, 992-1002	5.8	109

65	Mutations in the region encoding the central domain of helper component-proteinase (HC-Pro) eliminate potato virus X/potyviral synergism. <i>Virology</i> , <b>1997</b> , 231, 35-42	3.6	106
64	The tobacco etch potyvirus 6-kilodalton protein is membrane associated and involved in viral replication. <i>Journal of Virology</i> , <b>1994</b> , 68, 2388-97	6.6	104
63	Identification and characterization of a locus (RTM1) that restricts long-distance movement of tobacco etch virus in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>1998</b> , 14, 177-86	6.9	99
62	mut-16 and other mutator class genes modulate 22G and 26G siRNA pathways in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12018-22	11.5	96
61	Transgenically expressed viral RNA silencing suppressors interfere with microRNA methylation in <i>Arabidopsis</i> . <i>FEBS Letters</i> , <b>2006</b> , 580, 3117-20	3.8	92
60	CG gene body DNA methylation changes and evolution of duplicated genes in cassava. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13729-34	11.5	91
59	Regulation and functional specialization of small RNA-target nodes during plant development. <i>Current Opinion in Plant Biology</i> , <b>2009</b> , 12, 622-7	9.9	90
58	Activation and suppression of RNA silencing by plant viruses. <i>Virology</i> , <b>2001</b> , 281, 1-5	3.6	90
57	Internal cleavage and trans-proteolytic activities of the VPg-proteinase (N1a) of tobacco etch potyvirus in vivo. <i>Journal of Virology</i> , <b>1993</b> , 67, 6995-7000	6.6	90
56	New generation of artificial MicroRNA and synthetic trans-acting small interfering RNA vectors for efficient gene silencing in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2014</b> , 165, 15-29	6.6	88
55	Host-specific involvement of the HC protein in the long-distance movement of potyviruses. <i>Journal of Virology</i> , <b>2002</b> , 76, 1922-31	6.6	88
54	Genome-wide profiling of populus small RNAs. <i>BMC Genomics</i> , <b>2009</b> , 10, 620	4.5	86
53	Turnip crinkle virus infection from RNA synthesized in vitro. <i>Virology</i> , <b>1989</b> , 170, 214-8	3.6	85
52	Selectable viruses and altered susceptibility mutants in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 772-7	11.5	83
51	Processing of the tobacco etch virus 49K protease requires autoproteolysis. <i>Virology</i> , <b>1987</b> , 160, 355-62	3.6	83
50	Specific argonautes selectively bind small RNAs derived from potato spindle tuber viroid and attenuate viroid accumulation in vivo. <i>Journal of Virology</i> , <b>2014</b> , 88, 11933-45	6.6	82
49	RTM3, which controls long-distance movement of potyviruses, is a member of a new plant gene family encoding a meprin and TRAF homology domain-containing protein. <i>Plant Physiology</i> , <b>2010</b> , 154, 222-32	6.6	80
48	Distinct expression patterns of natural antisense transcripts in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2007</b> , 144, 1247-55	6.6	78

47	Mutational analysis of the tobacco etch potyviral 35-kDa proteinase: identification of essential residues and requirements for autoproteolysis. <i>Virology</i> , <b>1992</b> , 190, 298-306	3.6	76
46	Characterization of the potyviral HC-pro autoproteolytic cleavage site. <i>Virology</i> , <b>1992</b> , 187, 308-15	3.6	71
45	Hiding in plain sight: New virus genomes discovered via a systematic analysis of fungal public transcriptomes. <i>PLoS ONE</i> , <b>2019</b> , 14, e0219207	3.7	67
44	Update of ASRP: the Arabidopsis Small RNA Project database. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, D982-5	20.1	67
43	Requirement for HC-Pro processing during genome amplification of tobacco etch potyvirus. <i>Virology</i> , <b>1995</b> , 209, 268-73	3.6	65
42	Viral invasion and host defense: strategies and counter-strategies. <i>Current Opinion in Plant Biology</i> , <b>1998</b> , 1, 336-41	9.9	59
41	Complementation of tobacco etch potyvirus mutants by active RNA polymerase expressed in transgenic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 457-61	11.5	58
40	Virus-derived gene expression and RNA interference vector for grapevine. <i>Journal of Virology</i> , <b>2012</b> , 86, 6002-9	6.6	57
39	Parallel analysis of RNA ends enhances global investigation of microRNAs and target RNAs of <i>Brachypodium distachyon</i> . <i>Genome Biology</i> , <b>2013</b> , 14, R145	18.3	56
38	Identification of genes required for de novo DNA methylation in Arabidopsis. <i>Epigenetics</i> , <b>2011</b> , 6, 344-54	5.7	54
37	The ERI-6/7 helicase acts at the first stage of an siRNA amplification pathway that targets recent gene duplications. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002369	6	54
36	Small RNA-Based Antiviral Defense in the Phytopathogenic Fungus <i>Colletotrichum higginsianum</i> . <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005640	7.6	54
35	Phytophthora have distinct endogenous small RNA populations that include short interfering and microRNAs. <i>PLoS ONE</i> , <b>2013</b> , 8, e77181	3.7	52
34	GENE-counter: a computational pipeline for the analysis of RNA-Seq data for gene expression differences. <i>PLoS ONE</i> , <b>2011</b> , 6, e25279	3.7	50
33	Secondary structures in the capsid protein coding sequence and 3' nontranslated region involved in amplification of the tobacco etch virus genome. <i>Journal of Virology</i> , <b>1998</b> , 72, 4072-9	6.6	50
32	ARGONAUTE PIWI domain and microRNA duplex structure regulate small RNA sorting in Arabidopsis. <i>Nature Communications</i> , <b>2014</b> , 5, 5468	17.4	49
31	Functional analysis of the interaction between VPg-proteinase (NIa) and RNA polymerase (NIb) of tobacco etch potyvirus, using conditional and suppressor mutants. <i>Journal of Virology</i> , <b>1999</b> , 73, 8732-40	6.6	49
30	RNA binding activity of NIa proteinase of tobacco etch potyvirus. <i>Virology</i> , <b>1997</b> , 237, 327-36	3.6	47



29	The <i>Caenorhabditis elegans</i> RDE-10/RDE-11 complex regulates RNAi by promoting secondary siRNA amplification. <i>Current Biology</i> , <b>2012</b> , 22, 881-90	6.3	35
28	Loss of CMD2-mediated resistance to cassava mosaic disease in plants regenerated through somatic embryogenesis. <i>Molecular Plant Pathology</i> , <b>2016</b> , 17, 1095-110	5.7	35
27	Highly specific gene silencing in a monocot species by artificial microRNAs derived from chimeric miRNA precursors. <i>Plant Journal</i> , <b>2015</b> , 82, 1061-1075	6.9	34
26	Raspberry Pi-powered imaging for plant phenotyping. <i>Applications in Plant Sciences</i> , <b>2018</b> , 6, e1031	2.3	33
25	Long-Distance Movement Factor: A Transport Function of the Potyvirus Helper Component Proteinase. <i>Plant Cell</i> , <b>1995</b> , 7, 549	11.6	33
24	P-SAMS: a web site for plant artificial microRNA and synthetic trans-acting small interfering RNA design. <i>Bioinformatics</i> , <b>2016</b> , 32, 157-8	7.2	29
23	Nla and Nlb of peanut stripe potyvirus are present in the nucleus of infected cells, but do not form inclusions. <i>Virology</i> , <b>1996</b> , 224, 368-79	3.6	23
22	An international bioinformatics infrastructure to underpin the Arabidopsis community. <i>Plant Cell</i> , <b>2010</b> , 22, 2530-6	11.6	22
21	Rapid detection of plant RNA viruses by dot blot hybridization. <i>Plant Molecular Biology Reporter</i> , <b>1983</b> , 1, 21-25	1.7	21
20	Carnation Mottle Virus and Viruses with Similar Properties <b>1988</b> , 73-112		20
19	Biologically active cymbidium ringspot virus satellite RNA in transgenic plants suppresses accumulation of DI RNA. <i>Virology</i> , <b>1992</b> , 188, 429-37	3.6	18
18	Nuclear transport of tobacco etch potyviral RNA-dependent RNA polymerase is highly sensitive to sequence alterations. <i>Virology</i> , <b>1993</b> , 193, 951-8	3.6	18
17	Differential response of cassava genotypes to infection by cassava mosaic geminiviruses. <i>Virus Research</i> , <b>2017</b> , 227, 69-81	6.4	16
16	Reinventing plant virus movement. <i>Trends in Microbiology</i> , <b>1999</b> , 7, 312-3	12.4	14
15	Small RNAs and Arabidopsis. A fast forward look. <i>Plant Physiology</i> , <b>2005</b> , 138, 565-6	6.6	12
14	Splicing and dicing with a SERRATEd edge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8489-90	11.5	11
13	Vectors for cell-free expression and mutagenesis of protein-coding sequences. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 10066	20.1	9
12	Discovery of new mycoviral genomes within publicly available fungal transcriptomic datasets		9

11	Antiviral ARGONAUTES Against Revealed by Image-Based Trait Analysis. <i>Plant Physiology</i> , <b>2019</b> , 180, 1418-1435	6.6	8
10	Fast-forward generation of effective artificial small RNAs for enhanced antiviral defense in plants. <i>RNA &amp; Disease (Houston, Tex)</i> , <b>2016</b> , 3,	1	7
9	Preparation of Multiplexed Small RNA Libraries From Plants. <i>Bio-protocol</i> , <b>2014</b> , 4,	0.9	6
8	Fast-forward generation of effective artificial small RNAs for enhanced antiviral defense in plants. <i>RNA &amp; Disease (Houston, Tex)</i> ,	1	5
7	Sequence and Expression Differences Underlie Functional Specialization of Arabidopsis MicroRNAs miR159 and miR319. <i>Developmental Cell</i> , <b>2019</b> , 51, 129	10.2	3
6	The Personal Sequence Database: a suite of tools to create and maintain web-accessible sequence databases. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 479	3.6	3
5	Targeting of proteins to the nucleus. <i>Methods in Cell Biology</i> , <b>1995</b> , 50, 283-94	1.8	2
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3	Functional dissection of the promoter. <i>Plant Direct</i> , <b>2019</b> , 3, e00102	3.3	1
2	Arabidopsis RTM2 Gene Is Necessary for Specific Restriction of Tobacco Etch Virus and Encodes an Unusual Small Heat Shock-Like Protein. <i>Plant Cell</i> , <b>2000</b> , 12, 569	11.6	1
1	Raspberry Pi Powered Imaging for Plant Phenotyping		1