Peter M Waterhouse

List of Publications by Year
in descending order

106	11,003	44069 48	32842 100
papers	citations	h-index	g-index

108	108	108	9732
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Construct design for efficient, effective and high-throughput gene silencing in plants. Plant Journal, 2001, 27, 581-590.	5.7	1,368
2	Gene silencing as an adaptive defence against viruses. Nature, 2001, 411, 834-842.	27.8	891
3	Total silencing by intron-spliced hairpin RNAs. Nature, 2000, 407, 319-320.	27.8	867
4	RNAi for insect-proof plants. Nature Biotechnology, 2007, 25, 1231-1232.	17.5	305
5	Exploring plant genomes by RNA-induced gene silencing. Nature Reviews Genetics, 2003, 4, 29-38.	16.3	303
6	Constructs and methods for high-throughput gene silencing in plants. Methods, 2003, 30, 289-295.	3.8	285
7	RNA interferenceâ€inducing hairpin RNAs in plants act through the viral defence pathway. EMBO Reports, 2006, 7, 1168-1175.	4.5	284
8	The evolution and diversification of Dicers in plants. FEBS Letters, 2006, 580, 2442-2450.	2.8	283
9	On the role of RNA silencing in the pathogenicity and evolution of viroids and viral satellites. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3275-3280.	7.1	273
10	RNA Silencing in Plants: Yesterday, Today, and Tomorrow. Plant Physiology, 2008, 147, 456-468.	4.8	259
11	A Branched Pathway for Transgene-Induced RNA Silencing in Plants. Current Biology, 2002, 12, 684-688.	3.9	238
12	Plant and animal microRNAs: similarities and differences. Functional and Integrative Genomics, 2005, 5, 129-135.	3.5	223
13	The Rise and Rise of Nicotiana benthamiana: A Plant for All Reasons. Annual Review of Phytopathology, 2018, 56, 405-426.	7.8	201
14	The Arabidopsis thaliana double-stranded RNA binding protein DRB1 directs guide strand selection from microRNA duplexes. Rna, 2009, 15, 2219-2235.	3.5	198
15	A single copy of a virus-derived transgene encoding hairpin RNA gives immunity to barley yellow dwarf virus. Molecular Plant Pathology, 2000, 1, 347-356.	4.2	196
16	miR-451 regulates zebrafish erythroid maturation in vivo via its target gata2. Blood, 2009, 113, 1794-1804.	1.4	184
17	Regulation of Dormancy in Barley by Blue Light and After-Ripening: Effects on Abscisic Acid and Gibberellin Metabolism Â. Plant Physiology, 2008, 147, 886-896.	4.8	178
18	Combinatorial infection andin vivorecombination: a strategy for making large phage antibody repertoires. Nucleic Acids Research, 1993, 21, 2265-2266.	14.5	168

#	Article	IF	Citations
19	Combining Transcriptome Assemblies from Multiple De Novo Assemblers in the Allo-Tetraploid Plant Nicotiana benthamiana. PLoS ONE, 2014, 9, e91776.	2.5	167
20	RNA silencing platforms in plants. FEBS Letters, 2005, 579, 5982-5987.	2.8	162
21	Title is missing!. Molecular Breeding, 2001, 7, 195-202.	2.1	152
22	De Novo Transcriptome Sequence Assembly and Analysis of RNA Silencing Genes of Nicotiana benthamiana. PLoS ONE, 2013, 8, e59534.	2.5	152
23	High-throughput vectors for efficient gene silencing in plants. Functional Plant Biology, 2002, 29, 1217.	2.1	150
24	Posttranscriptional Gene Silencing Is Not Compromised in the Arabidopsis CARPEL FACTORY (DICER-LIKE1) Mutant, a Homolog of Dicer-1 from Drosophila. Current Biology, 2003, 13, 236-240.	3.9	142
25	High-efficiency silencing of a beta-glucuronidase gene in rice is correlated with repetitive transgene structure but is independent of DNA methylation. , 2000, 43, 67-82.		136
26	A high-throughput inducible RNAi vector for plants. Plant Biotechnology Journal, 2005, 3, 583-590.	8.3	130
27	Description of plant tRNA-derived RNA fragments (tRFs) associated with argonaute and identification of their putative targets. Biology Direct, 2013, 8, 6.	4.6	121
28	Gene editing the phytoene desaturase alleles of Cavendish banana using CRISPR/Cas9. Transgenic Research, 2018, 27, 451-460.	2.4	121
29	The Enamovirus P0 protein is a silencing suppressor which inhibits local and systemic RNA silencing through AGO1 degradation. Virology, 2012, 426, 178-187.	2.4	116
30	The extremophile Nicotiana benthamiana has traded viral defence for early vigour. Nature Plants, 2015, 1, 15165.	9.3	114
31	Application of gene silencing in plants. Current Opinion in Plant Biology, 2002, 5, 146-150.	7.1	104
32	The Emerging World of Small ORFs. Trends in Plant Science, 2016, 21, 317-328.	8.8	99
33	Role of short RNAs in gene silencing. Trends in Plant Science, 2001, 6, 297-301.	8.8	95
34	The roles of plant dsRNAâ€binding proteins in RNAiâ€like pathways. FEBS Letters, 2008, 582, 2753-2760.	2.8	90
35	Constructs and Methods for Hairpin RNA-Mediated Gene Silencing in Plants. Methods in Enzymology, 2005, 392, 24-35.	1.0	89
36	Replicating satellite RNA induces sequence-specific DNA methylation and truncated transcripts in plants. Rna, 2001, 7, 16-28.	3.5	87

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37	IMPROVED VECTORS FOR AGROBACTERIUM TUMEFACIENS-MEDIATED TRANSFORMATION OF MONOCOT PLANTS. Acta Horticulturae, 1998, , 401-408.	0.2	86
38	Advanced Engineering of Lipid Metabolism in Nicotiana benthamiana Using a Draft Genome and the V2 Viral Silencing-Suppressor Protein. PLoS ONE, 2012, 7, e52717.	2.5	85
39	Gene regulation by translational inhibition is determined by Dicer partnering proteins. Nature Plants, 2015, 1, 14027.	9.3	85
40	Gene Silencing in Arabidopsis Spreads from the Root to the Shoot, through a Gating Barrier, by Template-Dependent, Nonvascular, Cell-to-Cell Movement Â Â. Plant Physiology, 2012, 159, 984-1000.	4.8	76
41	Efficient Silencing of Endogenous MicroRNAs Using Artificial MicroRNAs in Arabidopsis thaliana. Molecular Plant, 2011, 4, 157-170.	8.3	72
42	In-Plant Protection against Helicoverpa armigera by Production of Long hpRNA in Chloroplasts. Frontiers in Plant Science, 2016, 7, 1453.	3.6	68
43	DRB2 Is Required for MicroRNA Biogenesis in Arabidopsis thaliana. PLoS ONE, 2012, 7, e35933.	2.5	68
44	A satellite RNA of barley yellow dwarf virus contains a novel hammerhead structure in the self-cleavage domain. Virology, 1991, 183, 711-720.	2.4	62
45	A suite of novel promoters and terminators for plant biotechnology. Functional Plant Biology, 2003, 30, 443.	2.1	61
46	Biopharming the SimpliREDâ„¢ HIV diagnostic reagent in barley, potato and tobacco. Molecular Breeding, 2002, 9, 113-121.	2.1	58
47	Characterisation of the Subgenomic RNAs of an Australian Isolate of Barley Yellow Dwarf Luteovirus. Virology, 1994, 202, 565-573.	2.4	57
48	Viruses Face a Double Defense by Plant Small RNAs. Science, 2006, 313, 54-55.	12.6	53
49	Cloning and characterization of microRNAs from Brassica napus. FEBS Letters, 2007, 581, 3848-3856.	2.8	52
50	A 22â€nt artificial micro RNA mediates widespread RNA silencing in A rabidopsis. Plant Journal, 2013, 76, 519-529.	5.7	52
51	Are the current gRNA ranking prediction algorithms useful for genome editing in plants?. PLoS ONE, 2020, 15, e0227994.	2.5	52
52	DRB2, DRB3 and DRB5 function in a non-canonical microRNA pathway inArabidopsis thaliana. Plant Signaling and Behavior, 2012, 7, 1224-1229.	2.4	50
53	Hairpin RNAs derived from RNA polymerase II and polymerase III promoter-directed transgenes are processed differently in plants. Rna, 2008, 14, 903-913.	3.5	47
54	Missing Pieces in the Puzzle of Plant MicroRNAs. Trends in Plant Science, 2015, 20, 721-728.	8.8	44

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55	The key role of terminators on the expression and postâ€transcriptional gene silencing of transgenes. Plant Journal, 2020, 104, 96-112.	5.7	43
56	A suite of novel promoters and terminators for plant biotechnology. II. The pPLEX series for use in monocots. Functional Plant Biology, 2003, 30, 453.	2.1	41
57	Proteomic Identification of Putative MicroRNA394 Target Genes in Arabidopsis thaliana Identifies Major Latex Protein Family Members Critical for Normal Development. Molecular and Cellular Proteomics, 2016, 15, 2033-2047.	3.8	39
58	Expression patterns of vascular-specific promoters RolC and Sh in transgenic potatoes and their use in engineering PLRV-resistant plants. Plant Molecular Biology, 1997, 33, 729-735.	3.9	36
59	Coding in non-coding RNAs. Nature, 2015, 520, 41-42.	27.8	36
60	Improved insectâ€proofing: expressing doubleâ€stranded RNA in chloroplasts. Pest Management Science, 2018, 74, 1751-1758.	3.4	36
61	Plinâ€amiR, a preâ€microRNAâ€based technology for controlling herbivorous insect pests. Plant Biotechnology Journal, 2020, 18, 1925-1932.	8.3	36
62	Plant-Based Vaccines: The Way Ahead?. Viruses, 2021, 13, 5.	3.3	36
63	A Plant Orthologue of RNase L Inhibitor (RLI) Is Induced in Plants Showing RNA Interference. Journal of Molecular Evolution, 2004, 59, 20-30.	1.8	32
64	The widely used Nicotiana benthamiana 16c line has an unusual T-DNA integration pattern including a transposon sequence. PLoS ONE, 2017, 12, e0171311.	2.5	32
65	Complete genomic sequence of a Rubus yellow net virus isolate and detection of genome-wide pararetrovirus-derived small RNAs. Virus Research, 2013, 178, 306-313.	2.2	29
66	Facile mutant identification via a single parental backcross method and application of whole genome sequencing based mapping pipelines. Frontiers in Plant Science, 2013, 4, 362.	3.6	29
67	Small RNA Viruses of Insects: Expression in Plants and RNA Silencing. Advances in Virus Research, 2006, 68, 459-502.	2.1	28
68	Vectors and Methods for Hairpin RNA and Artificial microRNA-Mediated Gene Silencing in Plants. Methods in Molecular Biology, 2011, 701, 179-197.	0.9	27
69	Title is missing!. Molecular Breeding, 2003, 11, 295-301.	2.1	26
70	The complete nucleotide sequence of the barley yellow dwarf GPV isolate from China shows that it is a new member of the genus Polerovirus. Archives of Virology, 2009, 154, 1125-1128.	2.1	25
71	The Luteovirus P4 Movement Protein Is a Suppressor of Systemic RNA Silencing. Viruses, 2017, 9, 294.	3.3	24
72	Putative full-length clones of the genomic DNA segments of subterranean clover stunt virus and identification of the segment coding for the viral coat protein. Virus Research, 1993, 27, 161-171.	2.2	23

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73	MicroRNA Regulatory Mechanisms Play Different Roles in Arabidopsis. Journal of Proteome Research, 2015, 14, 4743-4751.	3.7	22
74	Gene silencing: Fleshing out the bones. Current Biology, 2001, 11, R99-R102.	3.9	21
75	Small RNA sequencing of Potato leafroll virus-infected plants reveals an additional subgenomic RNA encoding a sequence-specific RNA-binding protein. Virology, 2013, 438, 61-69.	2.4	21
76	Mobile gene silencing inArabidopsisis regulated by hydrogen peroxide. PeerJ, 2014, 2, e701.	2.0	20
77	The Whys and Wherefores of Transitivity in Plants. Frontiers in Plant Science, 2020, 11, 579376.	3.6	19
78	A novel T-DNA vector design for selection of transgenic lines with simple transgene integration and stable transgene expression. Functional Plant Biology, 2005, 32, 671.	2.1	18
79	Improved Quantitative Plant Proteomics via the Combination of Targeted and Untargeted Data Acquisition. Frontiers in Plant Science, 2017, 8, 1669.	3.6	18
80	Comparative Evaluation of Genome Assemblers from Long-Read Sequencing for Plants and Crops. Journal of Agricultural and Food Chemistry, 2020, 68, 7670-7677.	5.2	18
81	The Rapid Methylation of T-DNAs Upon Agrobacterium Inoculation in Plant Leaves. Frontiers in Plant Science, 2019, 10, 312.	3.6	17
82	Posttranscriptional Gene Silencing in Plants. , 2004, 265, 117-129.		16
83	Live Cell Imaging Reveals the Relocation of dsRNA Binding Proteins Upon Viral Infection. Molecular Plant-Microbe Interactions, 2017, 30, 435-443.	2.6	16
84	The Use of Artificial MicroRNA Technology to Control Gene Expression in Arabidopsis thaliana. Methods in Molecular Biology, 2014, 1062, 211-224.	0.9	15
85	Beyond the gene: epigenetic and cis-regulatory targets offer new breeding potential for the future. Current Opinion in Biotechnology, 2022, 73, 88-94.	6.6	13
86	Chimeric DCL1-Partnering Proteins Provide Insights into the MicroRNA Pathway. Frontiers in Plant Science, 2015, 6, 1201.	3.6	11
87	Stable expression of silencingâ€suppressor protein enhances the performance and longevity of an engineered metabolic pathway. Plant Biotechnology Journal, 2016, 14, 1418-1426.	8.3	11
88	A conditional silencing suppression system for transient expression. Scientific Reports, 2018, 8, 9426.	3.3	11
89	Identification of a Transferrable Terminator Element That Inhibits Small RNA Production and Improves Transgene Expression Levels. Frontiers in Plant Science, 2022, 13, .	3.6	11
90	C. elegans RNA-dependent RNA polymerases rrf-1 and ego-1 silence Drosophila transgenes by differing mechanisms. Cellular and Molecular Life Sciences, 2013, 70, 1469-1481.	5.4	9

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91	, a new Australian species in. Australian Systematic Botany, 2021, 34, 477-484.	0.9	9
92	Defense and counterdefense in the plant world. Nature Genetics, 2006, 38, 138-139.	21.4	7
93	Expression of Caenorhabditis elegans RNA-directed RNA polymerase in transgenic Drosophila melanogaster does not affect morphological development. Transgenic Research, 2010, 19, 1121-1128.	2.4	6
94	Homo sapiens: The Superspreader of Plant Viral Diseases. Viruses, 2020, 12, 1462.	3.3	6
95	The Arabidopsis thaliana Double-Stranded RNA Binding (DRB) Domain Protein Family. , 2011, , 385-406.		5
96	Rapid match-searching for gene silencing assessment. Bioinformatics, 2010, 26, 1932-1937.	4.1	4
97	Mobile silencing in plants: what is the signal and what defines the target. Frontiers in Biology, 2011, 6, 140-146.	0.7	4
98	An optimised chromatin immunoprecipitation (ChIP) method for starchy leaves of Nicotiana benthamiana to study histone modifications of an allotetraploid plant. Molecular Biology Reports, 2020, 47, 9499-9509.	2.3	4
99	Amplification of cell signaling and disease resistance by an immunity receptor Ve1Ve2 heterocomplex in plants. Communications Biology, 2022, 5, .	4.4	4
100	Control of rootâ€toâ€shoot longâ€distance flow by a key ROSâ€regulating factor in Arabidopsis. Plant, Cell and Environment, 2022, 45, 2476-2491.	5.7	4
101	Synthesis of complementary RNA by RNA-dependent RNA polymerases in plant extracts is independent of an RNA primer. Functional Plant Biology, 2008, 35, 1091.	2.1	3
102	Gene Silencing - Principles And Application. , 2002, 24, 239-256.		2
103	Isolation and Analysis of Small RNAs from Virus-Infected Plants. Methods in Molecular Biology, 2012, 894, 173-189.	0.9	2
104	RNA Silencing and Its Application in Functional Genomics. , 2007, , 291-332.		1
105	Compactly Supported Solutions of Reactionâ€“Diffusion Models of Biological Spread. Mathematics for Industry, 2018, , 125-138.	0.4	1
106	The RNA World in Plants: Post-Transcriptional Control III. Plant Cell, 2001, 13, 1710.	6.6	0