Peter M Waterhouse

List of Publications by Year
in descending order

106 papers	11,003 citations	44069 48 h-index	32842 100 g-index
108 all docs	108 docs citations	108 times ranked	9732 citing authors

#	Article	IF	Citations
1	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
2	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
3	Amplification of cell signaling and disease resistance by an immunity receptor Ve1Ve2 heterocomplex in plants. Communications Biology, 2022, 5, .	4.4	4
4	Control of rootâ€toâ€shoot longâ€distance flow by a key ROSâ€regulating factor in <i>Arabidopsis</i>. Plant, Cell and Environment, 2022, 45, 2476-2491.	5.7	4
5	, a new Australian species in. Australian Systematic Botany, 2021, 34, 477-484.	0.9	9
6	Plant-Based Vaccines: The Way Ahead?. Viruses, 2021, 13, 5.	3.3	36
7	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
8	The Whys and Wherefores of Transitivity in Plants. Frontiers in Plant Science, 2020, 11, 579376.	3.6	19
9	Homo sapiens: The Superspreader of Plant Viral Diseases. Viruses, 2020, 12, 1462.	3.3	6
10	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
11	The key role of terminators on the expression and postâ€transcriptional gene silencing of transgenes. Plant Journal, 2020, 104, 96-112.	5.7	43
12	Plinâ€amiR, a preâ€microRNAâ€based technology for controlling herbivorous insect pests. Plant Biotechnology Journal, 2020, 18, 1925-1932.	8.3	36
13	Are the current gRNA ranking prediction algorithms useful for genome editing in plants?. PLoS ONE, 2020, 15, e0227994.	2.5	52
14	The Rapid Methylation of T-DNAs Upon Agrobacterium Inoculation in Plant Leaves. Frontiers in Plant Science, 2019, 10, 312.	3.6	17
15	Improved insectâ€proofing: expressing doubleâ€stranded RNA in chloroplasts. Pest Management Science, 2018, 74, 1751-1758.	3.4	36
16	Compactly Supported Solutions of Reactionâ€"Diffusion Models of Biological Spread. Mathematics for Industry, 2018, , 125-138.	0.4	1
17	Gene editing the phytoene desaturase alleles of Cavendish banana using CRISPR/Cas9. Transgenic Research, 2018, 27, 451-460.	2.4	121
18	The Rise and Rise of <i>Nicotiana benthamiana</i>: A Plant for All Reasons. Annual Review of Phytopathology, 2018, 56, 405-426.	7.8	201

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19	A conditional silencing suppression system for transient expression. Scientific Reports, 2018, 8, 9426.	3.3	11
20	Live Cell Imaging Reveals the Relocation of dsRNA Binding Proteins Upon Viral Infection. Molecular Plant-Microbe Interactions, 2017, 30, 435-443.	2.6	16
21	Improved Quantitative Plant Proteomics via the Combination of Targeted and Untargeted Data Acquisition. Frontiers in Plant Science, 2017, 8, 1669.	3.6	18
22	The Luteovirus P4 Movement Protein Is a Suppressor of Systemic RNA Silencing. Viruses, 2017, 9, 294.	3.3	24
23	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
24	In-Plant Protection against Helicoverpa armigera by Production of Long hpRNA in Chloroplasts. Frontiers in Plant Science, 2016, 7, 1453.	3.6	68
25	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
26	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
27	The Emerging World of Small ORFs. Trends in Plant Science, 2016, 21, 317-328.	8.8	99
28	Gene regulation by translational inhibition is determined by Dicer partnering proteins. Nature Plants, 2015, 1, 14027.	9.3	85
29	The extremophile Nicotiana benthamiana has traded viral defence for early vigour. Nature Plants, 2015, 1, 15165.	9.3	114
30	Coding in non-coding RNAs. Nature, 2015, 520, 41-42.	27.8	36
31	Missing Pieces in the Puzzle of Plant MicroRNAs. Trends in Plant Science, 2015, 20, 721-728.	8.8	44
32	MicroRNA Regulatory Mechanisms Play Different Roles in Arabidopsis. Journal of Proteome Research, 2015, 14, 4743-4751.	3.7	22
33	Chimeric DCL1-Partnering Proteins Provide Insights into the MicroRNA Pathway. Frontiers in Plant Science, 2015, 6, 1201.	3.6	11
34	Combining Transcriptome Assemblies from Multiple De Novo Assemblers in the Allo-Tetraploid Plant Nicotiana benthamiana. PLoS ONE, 2014, 9, e91776.	2.5	167
35	The Use of Artificial MicroRNA Technology to Control Gene Expression in Arabidopsis thaliana. Methods in Molecular Biology, 2014, 1062, 211-224.	0.9	15
36	Mobile gene silencing in<i>Arabidopsis</i>is regulated by hydrogen peroxide. PeerJ, 2014, 2, e701.	2.0	20

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37	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
38	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
39	A 22â€nt artificial micro RNA mediates widespread RNA silencing in A rabidopsis. Plant Journal, 2013, 76, 519-529.	5.7	52
40	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
41	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
42	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
43	De Novo Transcriptome Sequence Assembly and Analysis of RNA Silencing Genes of Nicotiana benthamiana. PLoS ONE, 2013, 8, e59534.	2.5	152
44	DRB2, DRB3 and DRB5 function in a non-canonical microRNA pathway in<i>Arabidopsis thaliana</i>. Plant Signaling and Behavior, 2012, 7, 1224-1229.	2.4	50
45	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
46	Isolation and Analysis of Small RNAs from Virus-Infected Plants. Methods in Molecular Biology, 2012, 894, 173-189.	0.9	2
47	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
48	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
49	DRB2 Is Required for MicroRNA Biogenesis in Arabidopsis thaliana. PLoS ONE, 2012, 7, e35933.	2.5	68
50	The Arabidopsis thaliana Double-Stranded RNA Binding (DRB) Domain Protein Family. , 2011, , 385-406.		5
51	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
52	Mobile silencing in plants: what is the signal and what defines the target. Frontiers in Biology, 2011, 6, 140-146.	0.7	4
53	Efficient Silencing of Endogenous MicroRNAs Using Artificial MicroRNAs in Arabidopsis thaliana. Molecular Plant, 2011, 4, 157-170.	8.3	72
54	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

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55	Rapid match-searching for gene silencing assessment. Bioinformatics, 2010, 26, 1932-1937.	4.1	4
56	The <i>Arabidopsis thaliana</i> double-stranded RNA binding protein DRB1 directs guide strand selection from microRNA duplexes. Rna, 2009, 15, 2219-2235.	3.5	198
57	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
58	miR-451 regulates zebrafish erythroid maturation in vivo via its target gata2. Blood, 2009, 113, 1794-1804.	1.4	184
59	The roles of plant dsRNAâ€binding proteins in RNAiâ€like pathways. FEBS Letters, 2008, 582, 2753-2760.	2.8	90
60	RNA Silencing in Plants: Yesterday, Today, and Tomorrow. Plant Physiology, 2008, 147, 456-468.	4.8	259
61	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
62	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
63	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
64	Cloning and characterization of microRNAs from <i>Brassica napus</i>. FEBS Letters, 2007, 581, 3848-3856.	2.8	52
65	RNA Silencing and Its Application in Functional Genomics. , 2007, , 291-332.		1
66	RNAi for insect-proof plants. Nature Biotechnology, 2007, 25, 1231-1232.	17.5	305
67	Viruses Face a Double Defense by Plant Small RNAs. Science, 2006, 313, 54-55.	12.6	53
68	The evolution and diversification of Dicers in plants. FEBS Letters, 2006, 580, 2442-2450.	2.8	283
69	Defense and counterdefense in the plant world. Nature Genetics, 2006, 38, 138-139.	21.4	7
70	RNA interferenceâ€inducing hairpin RNAs in plants act through the viral defence pathway. EMBO Reports, 2006, 7, 1168-1175.	4.5	284
71	Small RNA Viruses of Insects: Expression in Plants and RNA Silencing. Advances in Virus Research, 2006, 68, 459-502.	2.1	28
72	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

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73	A high-throughput inducible RNAi vector for plants. Plant Biotechnology Journal, 2005, 3, 583-590.	8.3	130
74	Plant and animal microRNAs: similarities and differences. Functional and Integrative Genomics, 2005, 5, 129-135.	3.5	223
75	Constructs and Methods for Hairpin RNA-Mediated Gene Silencing in Plants. Methods in Enzymology, 2005, 392, 24-35.	1.0	89
76	RNA silencing platforms in plants. FEBS Letters, 2005, 579, 5982-5987.	2.8	162
77	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
78	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
79	Posttranscriptional Gene Silencing in Plants. , 2004, 265, 117-129.		16
80	A suite of novel promoters and terminators for plant biotechnology. Functional Plant Biology, 2003, 30, 443.	2.1	61
81	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
82	Title is missing!. Molecular Breeding, 2003, 11, 295-301.	2.1	26
83	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
84	Exploring plant genomes by RNA-induced gene silencing. Nature Reviews Genetics, 2003, 4, 29-38.	16.3	303
85	Constructs and methods for high-throughput gene silencing in plants. Methods, 2003, 30, 289-295.	3.8	285
86	Gene Silencing - Principles And Application. , 2002, 24, 239-256.		2
87	Application of gene silencing in plants. Current Opinion in Plant Biology, 2002, 5, 146-150.	7.1	104
88	A Branched Pathway for Transgene-Induced RNA Silencing in Plants. Current Biology, 2002, 12, 684-688.	3.9	238
89	Biopharming the SimpliREDâ„¢ HIV diagnostic reagent in barley, potato and tobacco. Molecular Breeding, 2002, 9, 113-121.	2.1	58
90	High-throughput vectors for efficient gene silencing in plants. Functional Plant Biology, 2002, 29, 1217.	2.1	150

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91	Role of short RNAs in gene silencing. Trends in Plant Science, 2001, 6, 297-301.	8.8	95
92	Replicating satellite RNA induces sequence-specific DNA methylation and truncated transcripts in plants. Rna, 2001, 7, 16-28.	3.5	87
93	Construct design for efficient, effective and high-throughput gene silencing in plants. Plant Journal, 2001, 27, 581-590.	5.7	1,368
94	Title is missing!. Molecular Breeding, 2001, 7, 195-202.	2.1	152
95	Gene silencing as an adaptive defence against viruses. Nature, 2001, 411, 834-842.	27.8	891
96	Gene silencing: Fleshing out the bones. Current Biology, 2001, 11, R99-R102.	3.9	21
97	The RNA World in Plants: Post-Transcriptional Control III. Plant Cell, 2001, 13, 1710.	6.6	0
98	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
99	Total silencing by intron-spliced hairpin RNAs. Nature, 2000, 407, 319-320.	27.8	867
100	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
101	IMPROVED VECTORS FOR AGROBACTERIUM TUMEFACIENS-MEDIATED TRANSFORMATION OF MONOCOT PLANTS. Acta Horticulturae, 1998, , 401-408.	0.2	86
102	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
103	Characterisation of the Subgenomic RNAs of an Australian Isolate of Barley Yellow Dwarf Luteovirus. Virology, 1994, 202, 565-573.	2.4	57
104	Combinatorial infection andin vivorecombination: a strategy for making large phage antibody repertoires. Nucleic Acids Research, 1993, 21, 2265-2266.	14.5	168
105	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
106	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