List of Publications by Year in descending order

81 papers	11,874 citations	36203 51 h-index	60497 81 g-index
82 all docs	82 docs citations	82 times ranked	8659 citing authors

#	Article	IF	Citations
1	Triticeae genome sequences reveal huge expansions of gene families implicated in fertility restoration. Current Opinion in Plant Biology, 2022, 66, 102166.	3.5	8
2	Cofactor-independent RNA editing by a synthetic S-type PPR protein. Synthetic Biology, 2022, 7, ysab034.	1.2	12
3	The <scp>GENOMES UNCOUPLED1</scp> protein has an ancient, highly conserved role but not in retrograde signalling. New Phytologist, 2022, 236, 99-113.	3.5	11
4	The Pentatricopeptide Repeat Protein MEF100 Is Required for the Editing of Four Mitochondrial Editing Sites in Arabidopsis. Cells, 2021, 10, 468.	1.8	4
5	A synthetic RNA editing factor edits its target site in chloroplasts and bacteria. Communications Biology, 2021, 4, 545.	2.0	28
6	Towards a plant model for enigmatic Uâ€toâ€C RNA editing: the organelle genomes, transcriptomes, editomes and candidate RNA editing factors in the hornwort <i>Anthoceros agrestis</i>. New Phytologist, 2020, 225, 1974-1992.	3.5	57
7	The coordinated action of <scp>PPR</scp>4 and <scp>EMB</scp>2654 on each intron half mediates <i>trans</i>â€splicing of <i>rps12</i> transcripts in plant chloroplasts. Plant Journal, 2019, 100, 1193-1207.	2.8	42
8	Evolutionary Model of Plastidial RNA Editing in Angiosperms Presumed from Genome-Wide Analysis of Amborella trichopoda. Plant and Cell Physiology, 2019, 60, 2141-2151.	1.5	17
9	The E domain of CRR2 participates in sequenceâ€specific recognition of RNA in plastids. New Phytologist, 2019, 222, 218-229.	3.5	36
10	High intraspecific diversity of <i>Restorerâ€ofâ€fertilityâ€like</i> genes in barley. Plant Journal, 2019, 97, 281-295.	2.8	24
11	Editing of Chloroplast rps14 by PPR Editing Factor EMB2261 Is Essential for Arabidopsis Development. Frontiers in Plant Science, 2018, 9, 841.	1.7	18
12	In Arabidopsis thaliana distinct alleles encoding mitochondrial RNA PROCESSING FACTOR 4 support the generation of additional 5â€² termini of ccmB transcripts. Plant Molecular Biology, 2017, 93, 659-668.	2.0	13
13	The mitochondrial pentatricopeptide repeat protein <scp>PPR</scp>19 is involved in the stabilization of <i>NADH dehydrogenase 1</i> transcripts and is crucial for mitochondrial function and <i>Arabidopsis thaliana</i> development. New Phytologist, 2017, 215, 202-216.	3.5	60
14	The Pentatricopeptide Repeat Protein EMB2654 Is Essential for Trans-Splicing of a Chloroplast Small Ribosomal Subunit Transcript. Plant Physiology, 2017, 173, 1164-1176.	2.3	52
15	Protein Complexes Implicated in RNA Editing in Plant Organelles. Molecular Plant, 2017, 10, 1255-1257.	3.9	14
16	Redefining the structural motifs that determine <scp>RNA</scp> binding and <scp>RNA</scp> editing by pentatricopeptide repeat proteins in land plants. Plant Journal, 2016, 85, 532-547.	2.8	267
17	Mitochondrial Defects Confer Tolerance against Cellulose Deficiency. Plant Cell, 2016, 28, 2276-2290.	3.1	57
18	Evolutionary plasticity of restorer-of-fertility-like proteins in rice. Scientific Reports, 2016, 6, 35152.	1.6	46

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19	In-silicoidentification of candidate genes for fertility restoration in cytoplasmic male sterile perennial ryegrass (Lolium perenneL.). Genome Biology and Evolution, 2016, 9, evw047.	1.1	22
20	<scp>AEF</scp>1/<scp>MPR</scp>25 is implicated in <scp>RNA</scp> editing of plastid <i>atpF</i> and mitochondrial <i>nad5</i>, and also promotes <i>atpF</i> splicing in Arabidopsis and rice. Plant Journal, 2015, 81, 661-669.	2.8	75
21	Predictable Alteration of Sequence Recognition by RNA Editing Factors from Arabidopsis. Plant Cell, 2015, 27, 403-416.	3.1	75
22	Using the SUBcellular database for Arabidopsis proteins to localize the Deg protease family. Frontiers in Plant Science, 2014, 5, 396.	1.7	16
23	The Pentatricopeptide Repeat Proteins TANG2 and ORGANELLE TRANSCRIPT PROCESSING439 Are Involved in the Splicing of the Multipartite <i>nad5</i> Transcript Encoding a Subunit of Mitochondrial Complex I. Plant Physiology, 2014, 165, 1409-1416.	2.3	78
24	The potential for manipulating <scp>RNA</scp> with pentatricopeptide repeat proteins. Plant Journal, 2014, 78, 772-782.	2.8	64
25	n<scp>MAT</scp>4, a maturase factor required for <i>nad1</i> preâ€m<scp>RNA</scp> processing and maturation, is essential for holocomplexÂ<scp>I</scp> biogenesis in <scp>A</scp>rabidopsis mitochondria. Plant Journal, 2014, 78, 253-268.	2.8	110
26	The cytidine deaminase signature <scp>H</scp>x<scp>E</scp>(x)_n<scp>C</scp>xx<scp>C</scp> of <scp>DYW</scp>1 binds zinc and is necessary for <scp>RNA</scp> editing of <i>ndh<scp>D</scp>â€1</i>. New Phytologist, 2014, 203, 1090-1095.	3.5	100
27	<i>Small kernelÂ1</i> encodes a pentatricopeptide repeat protein required for mitochondrial <i>nad7</i> transcript editing and seed development in maize <i>(Zea mays)</i> and rice <i>(Oryza) Tj ETQq1 1 0.784314 rg BT /Overlo	2.8	127
28	Quantitative analysis of motifs contributing to the interaction between <scp>PLS</scp>â€subfamily members and their target <scp>RNA</scp> sequences in plastid <scp>RNA</scp> editing. Plant Journal, 2014, 80, 870-882.	2.8	51
29	Surrogate mutants for studying mitochondrially encoded functions. Biochimie, 2014, 100, 234-242.	1.3	61
30	Pentatricopeptide Repeat Proteins in Plants. Annual Review of Plant Biology, 2014, 65, 415-442.	8.6	842
31	Mitochondrial genomes as living â€˜fossilsâ€™. BMC Biology, 2013, 11, 30.	1.7	11
32	The <scp>E</scp> domains of pentatricopeptide repeat proteins from different organelles are not functionally equivalent for <scp>RNA</scp> editing. Plant Journal, 2013, 74, 935-945.	2.8	58
33	A reevaluation of dual-targeting of proteins to mitochondria and chloroplasts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 253-259.	1.9	141
34	A <scp>DYW</scp>â€protein knockout in <i><scp>P</scp>hyscomitrella</i> affects two closely spaced mitochondrial editing sites and causes a severe developmental phenotype. Plant Journal, 2013, 76, 420-432.	2.8	45
35	m<scp>CSF</scp>1, a nucleusâ€encoded <scp>CRM</scp> protein required for the processing of many mitochondrial introns, is involved in the biogenesis of respiratory complexes <scp>I</scp> and <scp>IV</scp> in <scp>A</scp>rabidopsis. New Phytologist, 2013, 199, 379-394.	3.5	98
36	PPR-SMRs. RNA Biology, 2013, 10, 1501-1510.	1.5	57

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37	A Combinatorial Amino Acid Code for RNA Recognition by Pentatricopeptide Repeat Proteins. PLoS Genetics, 2012, 8, e1002910.	1.5	455
38	SUBA3: a database for integrating experimentation and prediction to define the SUBcellular location of proteins in Arabidopsis. Nucleic Acids Research, 2012, 41, D1185-D1191.	6.5	272
39	Two Interacting Proteins Are Necessary for the Editing of the NdhD-1 Site in <i>Arabidopsis</i> Plastids Â. Plant Cell, 2012, 24, 3684-3694.	3.1	130
40	Arabidopsis CSP41 proteins form multimeric complexes that bind and stabilize distinct plastid transcripts. Journal of Experimental Botany, 2012, 63, 1251-1270.	2.4	49
41	Nucleotide and RNA Metabolism Prime Translational Initiation in the Earliest Events of Mitochondrial Biogenesis during Arabidopsis Germination Â Â. Plant Physiology, 2012, 158, 1610-1627.	2.3	124
42	Mutations in an <i>Arabidopsis</i> Mitochondrial Transcription Termination Factorâ€“Related Protein Enhance Thermotolerance in the Absence of the Major Molecular Chaperone HSP101. Plant Cell, 2012, 24, 3349-3365.	3.1	94
43	A PORR domain protein required for <i>rpl2</i> and <i>ccmF</i>_{<i>C</i>} intron splicing and for the biogenesis of <i>c</i>â€type cytochromes in Arabidopsis mitochondria. Plant Journal, 2012, 69, 996-1005.	2.8	99
44	The plastid redox insensitiveâ€ƒ2 mutant of Arabidopsis is impaired in PEP activity and high lightâ€dependent plastid redox signalling to the nucleus. Plant Journal, 2012, 70, 279-291.	2.8	81
45	The Pentatricopeptide Repeat Protein OTP87 Is Essential for RNA Editing of nad7 and atp1 Transcripts in Arabidopsis Mitochondria. Journal of Biological Chemistry, 2011, 286, 21361-21371.	1.6	76
46	An <i>Arabidopsis</i> Dual-Localized Pentatricopeptide Repeat Protein Interacts with Nuclear Proteins Involved in Gene Expression Regulation. Plant Cell, 2011, 23, 730-740.	3.1	96
47	The evolution of RNA editing and pentatricopeptide repeat genes. New Phytologist, 2011, 191, 37-47.	3.5	249
48	OTP70 is a pentatricopeptide repeat protein of the Eâ€ƒsubgroup involved in splicing of the plastid transcript <i>rpoC1</i>. Plant Journal, 2011, 65, 532-542.	2.8	106
49	Organellar RNA editing. Wiley Interdisciplinary Reviews RNA, 2011, 2, 493-506.	3.2	55
50	Rampant Gene Loss in the Underground Orchid Rhizanthella gardneri Highlights Evolutionary Constraints on Plastid Genomes. Molecular Biology and Evolution, 2011, 28, 2077-2086.	3.5	248
51	A PPR protein involved in regulating nuclear genes encoding mitochondrial proteins?. Plant Signaling and Behavior, 2011, 6, 748-750.	1.2	11
52	In Silico Methods for Identifying Organellar and Suborganellar Targeting Peptides in Arabidopsis Chloroplast Proteins and for Predicting the Topology of Membrane Proteins. Methods in Molecular Biology, 2011, 774, 243-280.	0.4	6
53	The pentatricopeptide repeat protein OTP82 is required for RNA editing of plastid ndhB and ndhG transcripts. Plant Journal, 2010, 61, 339-349.	2.8	92
54	Identification of a Pentatricopeptide Repeat Protein Implicated in Splicing of Intron 1 of Mitochondrial nad7 Transcripts. Journal of Biological Chemistry, 2010, 285, 32192-32199.	1.6	123

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55	Plant RNA editing. RNA Biology, 2010, 7, 213-219.	1.5	146
56	<i>Arabidopsis</i> tRNA Adenosine Deaminase Arginine Edits the Wobble Nucleotide of Chloroplast tRNAArg(ACG) and Is Essential for Efficient Chloroplast Translation. Plant Cell, 2009, 21, 2058-2071.	3.1	69
57	The Arabidopsis gene <i>YS1</i> encoding a DYW protein is required for editing of <i>rpoB</i> transcripts and the rapid development of chloroplasts during early growth. Plant Journal, 2009, 58, 82-96.	2.8	178
58	Pentatricopeptide Repeat Proteins with the DYW Motif Have Distinct Molecular Functions in RNA Editing and RNA Cleavage in <i>Arabidopsis</i> Chloroplasts. Plant Cell, 2009, 21, 146-156.	3.1	226
59	A Study of New <i>Arabidopsis</i> Chloroplast RNA Editing Mutants Reveals General Features of Editing Factors and Their Target Sites Â. Plant Cell, 2009, 21, 3686-3699.	3.1	179
60	Albinism in Plants: A Major Bottleneck in Wide Hybridization, Androgenesis and Doubled Haploid Culture. Critical Reviews in Plant Sciences, 2009, 28, 393-409.	2.7	76
61	CLB19, a pentatricopeptide repeat protein required for editing of <i>rpoA</i> and <i>clpP</i> chloroplast transcripts. Plant Journal, 2008, 56, 590-602.	2.8	236
62	The pentatricopeptide repeat gene <i>OTP51</i> with two LAGLIDADG motifs is required for the <i>cis</i>â€splicing of plastid <i>ycf3</i> intronâ€ƒ2 in <i>Arabidopsis thaliana</i>. Plant Journal, 2008, 56, 157-168.	2.8	148
63	Pentatricopeptide repeat proteins: a socket set for organelle gene expression. Trends in Plant Science, 2008, 13, 663-670.	4.3	754
64	On the Expansion of the Pentatricopeptide Repeat Gene Family in Plants. Molecular Biology and Evolution, 2008, 25, 1120-1128.	3.5	329
65	SUBA: the Arabidopsis Subcellular Database. Nucleic Acids Research, 2007, 35, D213-D218.	6.5	394
66	A rapid high-throughput method for the detection and quantification of RNA editing based on high-resolution melting of amplicons. Nucleic Acids Research, 2007, 35, e114.	6.5	167
67	Genome-Wide Analysis of mRNA Decay Rates and Their Determinants in<i>Arabidopsis thaliana</i>. Plant Cell, 2007, 19, 3418-3436.	3.1	296
68	Pentatricopeptide Repeat Proteins in <i>Trypanosoma brucei</i> Function in Mitochondrial Ribosomes. Molecular and Cellular Biology, 2007, 27, 6876-6888.	1.1	92
69	A hypothesis on the identification of the editing enzyme in plant organelles. FEBS Letters, 2007, 581, 4132-4138.	1.3	211
70	RNAi for revealing and engineering plant gene functions. Current Opinion in Biotechnology, 2007, 18, 148-153.	3.3	128
71	Plastid tRNA Genes trnC-GCA and trnN-GUU are essential for plant cell development. Plant Journal, 2007, 51, 751-762.	2.8	30
72	Recent surprises in protein targeting to mitochondria and plastids. Current Opinion in Plant Biology, 2006, 9, 610-615.	3.5	145

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73	Genome-Wide Analysis of Arabidopsis Pentatricopeptide Repeat Proteins Reveals Their Essential Role in Organelle Biogenesis[W]. Plant Cell, 2004, 16, 2089-2103.	3.1	1,132
74	GeneFarm, structural and functional annotation of Arabidopsis gene and protein families by a network of experts. Nucleic Acids Research, 2004, 33, D641-D646.	6.5	16
75	Versatile Gene-Specific Sequence Tags for Arabidopsis Functional Genomics: Transcript Profiling and Reverse Genetics Applications. Genome Research, 2004, 14, 2176-2189.	2.4	282
76	Predotar: A tool for rapidly screening proteomes forN-terminal targeting sequences. Proteomics, 2004, 4, 1581-1590.	1.3	817
77	European consortia building integrated resources for Arabidopsis functional genomics. Current Opinion in Plant Biology, 2003, 6, 426-429.	3.5	44
78	Identification of the fertility restoration locus, Rfo , in radish, as a member of the pentatricopeptideâ€repeat protein family. EMBO Reports, 2003, 4, 588-594.	2.0	291
79	Duplication and Quadruplication of Arabidopsis thaliana Cysteinyl- and Asparaginyl-tRNA Synthetase Genes of Organellar Origin. Journal of Molecular Evolution, 2000, 50, 413-423.	0.8	76
80	Potential dual targeting of anArabidopsisarchaebacterial-like histidyl-tRNA synthetase to mitochondria and chloroplasts1. FEBS Letters, 1998, 431, 39-44.	1.3	73
81	Sequence and transcript analysis of the Nco2.5 Ogura-specific fragment correlated with cytoplasmic male sterility in Brassica cybrids. Molecular Genetics and Genomics, 1992, 235, 340-348.	2.4	176