# List of Publications by Year in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | Pentatricopeptide Repeat Proteins in Plants. Annual Review of Plant Biology, 2014, 65, 415-442. | 8.6 | 842 |
| 3 | Predotar: A tool for rapidly screening proteomes forN-terminal targeting sequences. Proteomics, 2004, 4, 1581-1590. | 1.3 | 817 |
| 4 | Pentatricopeptide repeat proteins: a socket set for organelle gene expression. Trends in Plant Science, 2008, 13, 663-670. | 4.3 | 754 |
| 5 | A Combinatorial Amino Acid Code for RNA Recognition by Pentatricopeptide Repeat Proteins. PLoS Genetics, 2012, 8, e1002910. | 1.5 | 455 |
| 6 | SUBA: the Arabidopsis Subcellular Database. Nucleic Acids Research, 2007, 35, D213-D218. | 6.5 | 394 |
| 7 | On the Expansion of the Pentatricopeptide Repeat Gene Family in Plants. Molecular Biology and Evolution, 2008, 25, 1120-1128. | 3.5 | 329 |
| 8 | Genome-Wide Analysis of mRNA Decay Rates and Their Determinants inArabidopsis thaliana. Plant Cell, 2007, 19, 3418-3436. | 3.1 | 296 |
| 9 | 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 |
| 10 | Versatile Gene-Specific Sequence Tags for Arabidopsis Functional Genomics: Transcript Profiling and Reverse Genetics Applications. Genome Research, 2004, 14, 2176-2189. | 2.4 | 282 |
| 11 | 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 |
| 12 | 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 |
| 13 | The evolution of RNA editing and pentatricopeptide repeat genes. New Phytologist, 2011, 191, 37-47. | 3.5 | 249 |
| 14 | 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 |
| 15 | CLB19, a pentatricopeptide repeat protein required for editing of rpoA and clpP chloroplast transcripts. Plant Journal, 2008, 56, 590-602. | 2.8 | 236 |
| 16 | Pentatricopeptide Repeat Proteins with the DYW Motif Have Distinct Molecular Functions in RNA Editing and RNA Cleavage in Arabidopsis Chloroplasts. Plant Cell, 2009, 21, 146-156. | 3.1 | 226 |
| 17 | A hypothesis on the identification of the editing enzyme in plant organelles. FEBS Letters, 2007, 581, 4132-4138. | 1.3 | 211 |
| 18 | A Study of New Arabidopsis Chloroplast RNA Editing Mutants Reveals General Features of Editing Factors and Their Target Sites Â. Plant Cell, 2009, 21, 3686-3699. | 3.1 | 179 |

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|---|---|---|---|
| 19 | The Arabidopsis gene YS1 encoding a DYW protein is required for editing of rpoB transcripts and the rapid development of chloroplasts during early growth. Plant Journal, 2009, 58, 82-96. | 2.8 | 178 |
| 20 | 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 |
| 21 | 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 |
| 22 | The pentatricopeptide repeat gene OTP51 with two LAGLIDADG motifs is required for the cisâ€splicing of plastid ycf3 intronâ€ƒ2 in Arabidopsis thaliana. Plant Journal, 2008, 56, 157-168. | 2.8 | 148 |
| 23 | Plant RNA editing. RNA Biology, 2010, 7, 213-219. | 1.5 | 146 |
| 24 | Recent surprises in protein targeting to mitochondria and plastids. Current Opinion in Plant Biology, 2006, 9, 610-615. | 3.5 | 145 |
| 25 | 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 |
| 26 | Two Interacting Proteins Are Necessary for the Editing of the NdhD-1 Site in Arabidopsis Plastids Â. Plant Cell, 2012, 24, 3684-3694. | 3.1 | 130 |
| 27 | RNAi for revealing and engineering plant gene functions. Current Opinion in Biotechnology, 2007, 18, 148-153. | 3.3 | 128 |
| 28 | Small kernelÂ1 encodes a pentatricopeptide repeat protein required for mitochondrial nad7 transcript editing and seed development in maize (Zea mays) and rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.8 | 127 |
| 29 | 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 |
| 30 | 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 |
| 31 | n<scp>MAT</scp>4, a maturase factor required for nad1 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 |
| 32 | OTP70 is a pentatricopeptide repeat protein of the Eâ€ƒsubgroup involved in splicing of the plastid transcript rpoC1. Plant Journal, 2011, 65, 532-542. | 2.8 | 106 |
| 33 | The cytidine deaminase signature <scp>H</scp>x<scp>E</scp>(x)<sub>n</sub><scp>C</scp>xx<scp>C</scp> of <scp>DYW</scp>1 binds zinc and is necessary for <scp>RNA</scp> editing of ndh<scp>D</scp>â€1. New Phytologist, 2014, 203, 1090-1095. | 3.5 | 100 |
| 34 | A PORR domain protein required for rpl2 and ccmF<sub>C</sub> intron splicing and for the biogenesis of câ€type cytochromes in Arabidopsis mitochondria. Plant Journal, 2012, 69, 996-1005. | 2.8 | 99 |
| 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 | An Arabidopsis Dual-Localized Pentatricopeptide Repeat Protein Interacts with Nuclear Proteins Involved in Gene Expression Regulation. Plant Cell, 2011, 23, 730-740. | 3.1 | 96 |

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|---|---|---|---|
| 37 | Mutations in an Arabidopsis 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 |
| 38 | Pentatricopeptide Repeat Proteins in Trypanosoma brucei Function in Mitochondrial Ribosomes. Molecular and Cellular Biology, 2007, 27, 6876-6888. | 1.1 | 92 |
| 39 | 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 |
| 40 | 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 |
| 41 | The Pentatricopeptide Repeat Proteins TANG2 and ORGANELLE TRANSCRIPT PROCESSING439 Are Involved in the Splicing of the Multipartite nad5 Transcript Encoding a Subunit of Mitochondrial Complex I. Plant Physiology, 2014, 165, 1409-1416. | 2.3 | 78 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | <scp>AEF</scp>1/<scp>MPR</scp>25 is implicated in <scp>RNA</scp> editing of plastid atpF and mitochondrial nad5, and also promotes atpF splicing in Arabidopsis and rice. Plant Journal, 2015, 81, 661-669. | 2.8 | 75 |
| 46 | Predictable Alteration of Sequence Recognition by RNA Editing Factors from Arabidopsis. Plant Cell, 2015, 27, 403-416. | 3.1 | 75 |
| 47 | Potential dual targeting of anArabidopsisarchaebacterial-like histidyl-tRNA synthetase to mitochondria and chloroplasts1. FEBS Letters, 1998, 431, 39-44. | 1.3 | 73 |
| 48 | Arabidopsis 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 |
| 49 | The potential for manipulating <scp>RNA</scp> with pentatricopeptide repeat proteins. Plant Journal, 2014, 78, 772-782. | 2.8 | 64 |
| 50 | Surrogate mutants for studying mitochondrially encoded functions. Biochimie, 2014, 100, 234-242. | 1.3 | 61 |
| 51 | The mitochondrial pentatricopeptide repeat protein <scp>PPR</scp>19 is involved in the stabilization of NADH dehydrogenase 1 transcripts and is crucial for mitochondrial function and Arabidopsis thaliana development. New Phytologist, 2017, 215, 202-216. | 3.5 | 60 |
| 52 | 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 |
| 53 | PPR-SMRs. RNA Biology, 2013, 10, 1501-1510. | 1.5 | 57 |
| 54 | Mitochondrial Defects Confer Tolerance against Cellulose Deficiency. Plant Cell, 2016, 28, 2276-2290. | 3.1 | 57 |

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|---|---|---|---|
| 55 | Towards a plant model for enigmatic Uâ€toâ€C RNA editing: the organelle genomes, transcriptomes, editomes and candidate RNA editing factors in the hornwort Anthoceros agrestis. New Phytologist, 2020, 225, 1974-1992. | 3.5 | 57 |
| 56 | Organellar RNA editing. Wiley Interdisciplinary Reviews RNA, 2011, 2, 493-506. | 3.2 | 55 |
| 57 | 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 |
| 58 | 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 |
| 59 | Arabidopsis CSP41 proteins form multimeric complexes that bind and stabilize distinct plastid transcripts. Journal of Experimental Botany, 2012, 63, 1251-1270. | 2.4 | 49 |
| 60 | Evolutionary plasticity of restorer-of-fertility-like proteins in rice. Scientific Reports, 2016, 6, 35152. | 1.6 | 46 |
| 61 | A <scp>DYW</scp>â€protein knockout in <scp>P</scp>hyscomitrella affects two closely spaced mitochondrial editing sites and causes a severe developmental phenotype. Plant Journal, 2013, 76, 420-432. | 2.8 | 45 |
| 62 | European consortia building integrated resources for Arabidopsis functional genomics. Current Opinion in Plant Biology, 2003, 6, 426-429. | 3.5 | 44 |
| 63 | The coordinated action of <scp>PPR</scp>4 and <scp>EMB</scp>2654 on each intron half mediates transâ€splicing of rps12 transcripts in plant chloroplasts. Plant Journal, 2019, 100, 1193-1207. | 2.8 | 42 |
| 64 | The E domain of CRR2 participates in sequenceâ€specific recognition of RNA in plastids. New Phytologist, 2019, 222, 218-229. | 3.5 | 36 |
| 65 | Plastid tRNA Genes trnC-GCA and trnN-GUU are essential for plant cell development. Plant Journal, 2007, 51, 751-762. | 2.8 | 30 |
| 66 | A synthetic RNA editing factor edits its target site in chloroplasts and bacteria. Communications Biology, 2021, 4, 545. | 2.0 | 28 |
| 67 | High intraspecific diversity of Restorerâ€ofâ€fertilityâ€like genes in barley. Plant Journal, 2019, 97, 281-295. | 2.8 | 24 |
| 68 | 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 |
| 69 | Editing of Chloroplast rps14 by PPR Editing Factor EMB2261 Is Essential for Arabidopsis Development. Frontiers in Plant Science, 2018, 9, 841. | 1.7 | 18 |
| 70 | 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 |
| 71 | 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 |
| 72 | Using the SUBcellular database for Arabidopsis proteins to localize the Deg protease family. Frontiers in Plant Science, 2014, 5, 396. | 1.7 | 16 |

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|---|---|---|---|
| 73 | Protein Complexes Implicated in RNA Editing in Plant Organelles. Molecular Plant, 2017, 10, 1255-1257. | 3.9 | 14 |
| 74 | 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 |
| 75 | Cofactor-independent RNA editing by a synthetic S-type PPR protein. Synthetic Biology, 2022, 7, ysab034. | 1.2 | 12 |
| 76 | A PPR protein involved in regulating nuclear genes encoding mitochondrial proteins?. Plant Signaling and Behavior, 2011, 6, 748-750. | 1.2 | 11 |
| 77 | Mitochondrial genomes as living â€˜fossilsâ€™. BMC Biology, 2013, 11, 30. | 1.7 | 11 |
| 78 | 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 |
| 79 | Triticeae genome sequences reveal huge expansions of gene families implicated in fertility restoration. Current Opinion in Plant Biology, 2022, 66, 102166. | 3.5 | 8 |
| 80 | 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 |
| 81 | The Pentatricopeptide Repeat Protein MEF100 Is Required for the Editing of Four Mitochondrial Editing Sites in Arabidopsis. Cells, 2021, 10, 468. | 1.8 | 4 |