Dario Leister

List of Publications by Year
in descending order

206 papers	17,839 citations	12303 69 h-index	15683 125 g-index
348 all docs	348 docs citations	348 times ranked	13798 citing authors

#	Article	IF	Citations
1	Evolutionary analysis of Arabidopsis, cyanobacterial, and chloroplast genomes reveals plastid phylogeny and thousands of cyanobacterial genes in the nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12246-12251.	3.3	1,074
2	Tandem and segmental gene duplication and recombination in the evolution of plant disease resistance genes. Trends in Genetics, 2004, 20, 116-122.	2.9	533
3	A PCRâ€“based approach for isolating pathogen resistance genes from potato with potential for wide application in plants. Nature Genetics, 1996, 14, 421-429.	9.4	501
4	A Complex Containing PGRL1 and PGR5 Is Involved in the Switch between Linear andÂCyclic Electron Flow in Arabidopsis. Cell, 2008, 132, 273-285.	13.5	496
5	NUMTs in Sequenced Eukaryotic Genomes. Molecular Biology and Evolution, 2004, 21, 1081-1084.	3.5	440
6	Chloroplast research in the genomic age. Trends in Genetics, 2003, 19, 47-56.	2.9	424
7	Photosystem II core phosphorylation and photosynthetic acclimation require two different protein kinases. Nature, 2005, 437, 1179-1182.	13.7	420
8	Rapid reorganization of resistance gene homologues in cereal genomes. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 370-375.	3.3	365
9	Redox Regulation of the NPR1-TGA1 System of <i>Arabidopsis thaliana</i> by Nitric Oxide Â. Plant Cell, 2010, 22, 2894-2907.	3.1	361
10	DNA Transfer from Organelles to the Nucleus: The Idiosyncratic Genetics of Endosymbiosis. Annual Review of Plant Biology, 2009, 60, 115-138.	8.6	331
11	A Genome Phylogeny for Mitochondria Among Â-Proteobacteria and a Predominantly Eubacterial Ancestry of Yeast Nuclear Genes. Molecular Biology and Evolution, 2004, 21, 1643-1660.	3.5	307
12	The metal ion transporter IRT1 is necessary for iron homeostasis and efficient photosynthesis in Arabidopsis thaliana. Plant Journal, 2002, 31, 589-599.	2.8	298
13	PGRL1 Is the Elusive Ferredoxin-Plastoquinone Reductase in Photosynthetic Cyclic Electron Flow. Molecular Cell, 2013, 49, 511-523.	4.5	288
14	A prediction of the size and evolutionary origin of the proteome of chloroplasts of Arabidopsis. Trends in Plant Science, 2000, 5, 141-142.	4.3	271
15	Role of Plastid Protein Phosphatase TAP38 in LHCII Dephosphorylation and Thylakoid Electron Flow. PLoS Biology, 2010, 8, e1000288.	2.6	269
16	Structure and dynamics of thylakoids in land plants. Journal of Experimental Botany, 2014, 65, 1955-1972.	2.4	251
17	The Mla (Powdery Mildew) Resistance Cluster Is Associated With Three NBS-LRR Gene Families and Suppressed Recombination Within a 240-kb DNA Interval on Chromosome 5S (1HS) of Barley. Genetics, 1999, 153, 1929-1948.	1.2	242
18	<i>Arabidopsis</i>STN7 Kinase Provides a Link between Short- and Long-Term Photosynthetic Acclimation. Plant Cell, 2009, 21, 2402-2423.	3.1	233

#	Article	IF	Citations
19	The Role of Î”1-Pyrroline-5-Carboxylate Dehydrogenase in Proline Degradation[W]. Plant Cell, 2004, 16, 3413-3425.	3.1	228
20	SPL8, an SBP-Box Gene That Affects Pollen Sac Development in Arabidopsis. Plant Cell, 2003, 15, 1009-1019.	3.1	227
21	Arabidopsis CURVATURE THYLAKOID1 Proteins Modify Thylakoid Architecture by Inducing Membrane Curvature. Plant Cell, 2013, 25, 2661-2678.	3.1	226
22	Retrograde Plastid Redox Signals in the Expression of Nuclear Genes for Chloroplast Proteins of Arabidopsis thaliana. Journal of Biological Chemistry, 2005, 280, 5318-5328.	1.6	203
23	A high-resolution map of the vicinity of the R1 locus on chromosome V of potato based on RFLP and AFLP markers. Molecular Genetics and Genomics, 1995, 249, 74-81.	2.4	198
24	Structure, function and regulation of plant photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 335-352.	0.5	198
25	Retrograde signaling: Organelles go networking. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1313-1325.	0.5	191
26	Functional Specialization amongst the Arabidopsis Toc159 Family of Chloroplast Protein Import Receptors[W]. Plant Cell, 2004, 16, 2059-2077.	3.1	184
27	Dynamic Plastid Redox Signals Integrate Gene Expression and Metabolism to Induce Distinct Metabolic States in Photosynthetic Acclimation in<i>Arabidopsis</i>Â. Plant Cell, 2009, 21, 2715-2732.	3.1	176
28	Mode of Amplification and Reorganization of Resistance Genes During Recent Arabidopsis thaliana Evolution. Molecular Biology and Evolution, 2002, 19, 76-84.	3.5	171
29	Origin, evolution and genetic effects of nuclear insertions of organelle DNA. Trends in Genetics, 2005, 21, 655-663.	2.9	167
30	An improved prediction of chloroplast proteins reveals diversities and commonalities in the chloroplast proteomes of Arabidopsis and rice. Gene, 2004, 329, 11-16.	1.0	163
31	Plastocyanin Is Indispensable for Photosynthetic Electron Flow in Arabidopsis thaliana. Journal of Biological Chemistry, 2003, 278, 31286-31289.	1.6	160
32	Plastid signalling to the nucleus: messengers still lost in the mists?. Trends in Genetics, 2009, 25, 185-192.	2.9	157
33	The Arabidopsis ppi1 Mutant Is Specifically Defective in the Expression, Chloroplast Import, and Accumulation of Photosynthetic Proteins[W]. Plant Cell, 2003, 15, 1859-1871.	3.1	153
34	Interorganellar communication. Current Opinion in Plant Biology, 2007, 10, 600-606.	3.5	151
35	Abundantly and Rarely Expressed Lhc Protein Genes Exhibit Distinct Regulation Patterns in Plants. Plant Physiology, 2006, 140, 793-804.	2.3	146
36	Lysine acetylome profiling uncovers novel histone deacetylase substrate proteins in <i>Arabidopsis</i>. Molecular Systems Biology, 2017, 13, 949.	3.2	141

#	Article	IF	Citations
37	Dynamics of reversible protein phosphorylation in thylakoids of flowering plants: The roles of STN7, STN8 and TAP38. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 887-896.	0.5	136
38	NUPTs in Sequenced Eukaryotes and Their Genomic Organization in Relation to NUMTs. Molecular Biology and Evolution, 2004, 21, 1972-1980.	3.5	133
39	Generation and evolutionary fate of insertions of organelle DNA in the nuclear genomes of flowering plants. Genome Research, 2005, 15, 616-628.	2.4	128
40	Large-scale evaluation of plant growth in Arabidopsis thaliana by non-invasive image analysis. Plant Physiology and Biochemistry, 1999, 37, 671-678.	2.8	125
41	Root phloem-specific expression of the plasma membrane amino acid proton co-transporter AAP3. Journal of Experimental Botany, 2004, 55, 2155-2168.	2.4	123
42	Covariations in the nuclear chloroplast transcriptome reveal a regulatory masterâ€switch. EMBO Reports, 2003, 4, 491-498.	2.0	121
43	PGR5-PGRL1-Dependent Cyclic Electron Transport Modulates Linear Electron Transport Rate in Arabidopsis thaliana. Molecular Plant, 2016, 9, 271-288.	3.9	119
44	Mutants for photosystem I subunit D ofArabidopsis thaliana: effects on photosynthesis, photosystem I stability and expression of nuclear genes for chloroplast functions. Plant Journal, 2004, 37, 839-852.	2.8	117
45	Nuclear Photosynthetic Gene Expression Is Synergistically Modulated by Rates of Protein Synthesis in Chloroplasts and Mitochondria. Plant Cell, 2006, 18, 970-991.	3.1	117
46	The <i>Arabidopsis</i> Thylakoid Protein PAM68 Is Required for Efficient D1 Biogenesis and Photosystem II Assembly. Plant Cell, 2010, 22, 3439-3460.	3.1	116
47	Marker enrichment and high-resolution map of the segment of potato chromosome VII harbouring the nematode resistance gene Gro1. Molecular Genetics and Genomics, 1995, 249, 82-90.	2.4	109
48	Chloroplast ribonucleoprotein CP31A is required for editing and stability of specific chloroplast mRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6002-6007.	3.3	109
49	Cytoplasmic N-Terminal Protein Acetylation Is Required for Efficient Photosynthesis in Arabidopsis[W]. Plant Cell, 2003, 15, 1817-1832.	3.1	107
50	Chloroplast evolution, structure and functions. F1000prime Reports, 2014, 6, 40.	5.9	106
51	A potato hypersensitive resistance gene against potato virus X maps to a resistance gene cluster on chromosome 5. Theoretical and Applied Genetics, 1997, 95, 246-252.	1.8	104
52	Inactivation of the Chloroplast ATP Synthase Î³ Subunit Results in High Non-photochemical Fluorescence Quenching and Altered Nuclear Gene Expression in Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279, 1060-1069.	1.6	100
53	GUN1 Controls Accumulation of the Plastid Ribosomal Protein S1 at the Protein Level and Interacts with Proteins Involved in Plastid Protein Homeostasis. Plant Physiology, 2016, 170, 1817-1830.	2.3	100
54	Arabidopsis plants lacking PsbQ and PsbR subunits of the oxygenâ€evolving complex show altered <scp>PSII</scp> superâ€complex organization and shortâ€term adaptive mechanisms. Plant Journal, 2013, 75, 671-684.	2.8	99

#	Article	IF	Citations
55	The Arabidopsis Class II Sirtuin Is a Lysine Deacetylase and Interacts with Mitochondrial Energy Metabolism Â Â Â. Plant Physiology, 2014, 164, 1401-1414.	2.3	96
56	Genomics-based dissection of the cross-talk of chloroplasts with the nucleus and mitochondria in Arabidopsis. Gene, 2005, 354, 110-116.	1.0	95
57	The Evolutionarily Conserved Protein PHOTOSYNTHESIS AFFECTED MUTANT71 is Required for Efficient Manganese Uptake at the Thylakoid Membrane in Arabidopsis. Plant Cell, 2016, 28, tpc.00812.2015.	3.1	94
58	Mutants, Overexpressors, and Interactors of Arabidopsis Plastocyanin Isoforms: Revised Roles of Plastocyanin in Photosynthetic Electron Flow and Thylakoid Redox State. Molecular Plant, 2009, 2, 236-248.	3.9	92
59	Knock-out of the plastid ribosomal protein L11 in Arabidopsis: effects on mRNA translation and photosynthesis. Plant Journal, 2001, 27, 179-189.	2.8	90
60	Transcriptomic Analysis of the Role of Carboxylic Acids in Metabolite Signaling in Arabidopsis Leaves Â Â. Plant Physiology, 2013, 162, 239-253.	2.3	90
61	Versatile roles of Arabidopsis plastid ribosomal proteins in plant growth and development. Plant Journal, 2012, 72, 922-934.	2.8	89
62	Redox Regulation of Arabidopsis Mitochondrial Citrate Synthase. Molecular Plant, 2014, 7, 156-169.	3.9	89
63	Retrograde signaling in plants: from simple to complex scenarios. Frontiers in Plant Science, 2012, 3, 135.	1.7	88
64	Disruption of the Arabidopsis photosystem I gene psaE1 affects photosynthesis and impairs growth. Plant Journal, 2000, 22, 115-124.	2.8	83
65	The Plastid Envelope CHLOROPLAST MANGANESE TRANSPORTER1 Is Essential for Manganese Homeostasis in Arabidopsis. Molecular Plant, 2018, 11, 955-969.	3.9	83
66	Assembly of F1F0-ATP synthases. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 849-860.	0.5	82
67	Knock-Out of the Genes Coding for the Rieske Protein and the ATP-Synthase Î´-Subunit of Arabidopsis. Effects on Photosynthesis, Thylakoid Protein Composition, and Nuclear Chloroplast Gene Expression. Plant Physiology, 2003, 133, 191-202.	2.3	81
68	Analysis of 101 nuclear transcriptomes reveals 23 distinct regulons and their relationship to metabolism, chromosomal gene distribution and co-ordination of nuclear and plastid gene expression. Gene, 2005, 344, 33-41.	1.0	81
69	Convergence of light and chloroplast signals for de-etiolation through ABI4â€"HY5 and COP1. Nature Plants, 2016, 2, 16066.	4.7	81
70	Inâ€depth analysis of the distinctive effects of norflurazon implies that tetrapyrrole biosynthesis, organellar gene expression and ABA cooperate in the GUNâ€type of plastid signalling. Physiologia Plantarum, 2010, 138, 503-519.	2.6	80
71	Single and Double Knockouts of the Genes for Photosystem I Subunits G, K, and H of Arabidopsis. Effects on Photosystem I Composition, Photosynthetic Electron Flow, and State Transitions. Plant Physiology, 2002, 129, 616-624.	2.3	78
72	Evolutionary diversification of mitochondrial proteomes: implications for human disease. Trends in Genetics, 2003, 19, 356-362.	2.9	75

#	Article	IF	Citations
73	Nuclear insertions of organellar DNA can create novel patches of functional exon sequences. Trends in Genetics, 2007, 23, 597-601.	2.9	71
74	Chloroplast Proteins without Cleavable Transit Peptides: Rare Exceptions or a Major Constituent of the Chloroplast Proteome?. Molecular Plant, 2009, 2, 1325-1335.	3.9	70
75	Plastid-nucleus communication involves calcium-modulated MAPK signalling. Nature Communications, 2016, 7, 12173.	5.8	70
76	Novel <scp>DNAJ</scp>â€related proteins in <i>Arabidopsis thaliana</i>. New Phytologist, 2018, 217, 480-490.	3.5	70
77	Meta-Analysis of Retrograde Signaling in Arabidopsis thaliana Reveals a Core Module of Genes Embedded in Complex Cellular Signaling Networks. Molecular Plant, 2014, 7, 1167-1190.	3.9	69
78	E3 ligase SAUL1 serves as a positive regulator of PAMPâ€triggered immunity and its homeostasis is monitored by immune receptor SOC3. New Phytologist, 2017, 215, 1516-1532.	3.5	69
79	Organellar Gene Expression and Acclimation of Plants to Environmental Stress. Frontiers in Plant Science, 2017, 08, 387.	1.7	69
80	Functional characterization of the two ferrochelatases in <i><scp>A</scp>rabidopsis thaliana</i>. Plant, Cell and Environment, 2015, 38, 280-298.	2.8	67
81	The role of Î”pH-dependent dissipation of excitation energy in protecting photosystem II against light-induced damage in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2002, 40, 41-49.	2.8	66
82	RFLP- and physical mapping of resistance gene homologues in rice (O. sativa) and Barley (H. vulgare). Theoretical and Applied Genetics, 1999, 98, 509-520.	1.8	63
83	Accelerated relaxation of photoprotection impairs biomass accumulation in Arabidopsis. Nature Plants, 2020, 6, 9-12.	4.7	63
84	A Member of the Arabidopsis Mitochondrial Transcription Termination Factor Family Is Required for Maturation of Chloroplast Transfer RNA^{Ile}(GAU). Plant Physiology, 2015, 169, 627-646.	2.3	62
85	Emerging functions of mammalian and plant mTERFs. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 786-797.	0.5	59
86	Plastocyanin is the long-range electron carrier between photosystem II and photosystem I in plants. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15354-15362.	3.3	57
87	The major thylakoid protein kinases STN7 and STN8 revisited: effects of altered STN8 levels and regulatory specificities of the STN kinases. Frontiers in Plant Science, 2013, 4, 417.	1.7	56
88	Genetic Engineering, Synthetic Biology and the Light Reactions of Photosynthesis. Plant Physiology, 2019, 179, 778-793.	2.3	55
89	Plastid-to-Nucleus Retrograde Signalling during Chloroplast Biogenesis Does Not Require ABI4. Plant Physiology, 2019, 179, 18-23.	2.3	52
90	Chloroplast retrograde signal regulates flowering. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10708-10713.	3.3	51

#	Article	IF	Citations
91	Thylakoid Membrane Architecture in <i>Synechocystis</i> Depends on CurT, a Homolog of the Granal CURVATURE THYLAKOID1 Proteins. Plant Cell, 2016, 28, 2238-2260.	3.1	51
92	Piecing the Puzzle Together: The Central Role of Reactive Oxygen Species and Redox Hubs in Chloroplast Retrograde Signaling. Antioxidants and Redox Signaling, 2019, 30, 1206-1219.	2.5	51
93	Update on Chloroplast Research: New Tools, New Topics, and New Trends. Molecular Plant, 2011, 4, 1-16.	3.9	50
94	Arabidopsis CSP41 proteins form multimeric complexes that bind and stabilize distinct plastid transcripts. Journal of Experimental Botany, 2012, 63, 1251-1270.	2.4	49
95	Complexities and protein complexes in the antimycin A-sensitive pathway of cyclic electron flow in plants. Frontiers in Plant Science, 2013, 4, 161.	1.7	49
96	The DEAD-box RNA Helicase RH50 Is a 23S-4.5S rRNA Maturation Factor that Functionally Overlaps with the Plastid Signaling Factor GUN1. Plant Physiology, 2018, 176, 634-648.	2.3	49
97	<scp>GABI</scp>â€<scp>DUPLO</scp>: a collection of double mutants to overcome genetic redundancy in <i><scp>A</scp>rabidopsis thaliana</i>. Plant Journal, 2013, 75, 157-171.	2.8	48
98	Definition of a core module for the nuclear retrograde response to altered organellar gene expression identifies <scp>GLK</scp> overexpressors as <i>gun</i> mutants. Physiologia Plantarum, 2016, 157, 297-309.	2.6	48
99	The retrograde signaling protein GUN1 regulates tetrapyrrole biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24900-24906.	3.3	48
100	Translational Components Contribute to Acclimation Responses to High Light, Heat, and Cold in Arabidopsis. IScience, 2020, 23, 101331.	1.9	48
101	A Survey of Chloroplast Protein Kinases and Phosphatases in Arabidopsis thaliana. Current Genomics, 2008, 9, 184-190.	0.7	47
102	The transporter Syn<scp>PAM</scp>71 is located in the plasma membrane and thylakoids, and mediates manganese tolerance in <i>Synechocystis </i><scp>PCC</scp>6803. New Phytologist, 2017, 215, 256-268.	3.5	47
103	Phosphorylation site mapping of soluble proteins: bioinformatical filtering reveals potential plastidic phosphoproteins in Arabidopsis thaliana. Planta, 2009, 229, 1123-1134.	1.6	46
104	Fine-Tuning of Photosynthesis Requires CURVATURE THYLAKOID1-Mediated Thylakoid Plasticity. Plant Physiology, 2018, 176, 2351-2364.	2.3	46
105	The E subunit of photosystem I is not essential for linear electron flow and photoautotrophic growth in Arabidopsis thaliana. Planta, 2007, 226, 889-895.	1.6	45
106	The PHOTOSYNTHESIS AFFECTED MUTANT68â€“LIKE Protein Evolved from a PSII Assembly Factor to Mediate Assembly of the Chloroplast NAD(P)H Dehydrogenase Complex in <i>Arabidopsis</i>. Plant Cell, 2013, 25, 3926-3943.	3.1	45
107	Acclimation in plants â€“ the Green Hub consortium. Plant Journal, 2021, 106, 23-40.	2.8	44
108	Defects in leaf carbohydrate metabolism compromise acclimation to high light and lead to a high chlorophyll fluorescence phenotype in Arabidopsis thaliana. BMC Plant Biology, 2012, 12, 8.	1.6	43

#	Article	IF	Citations
109	The antimycin A-sensitive pathway of cyclic electron flow: from 1963 to 2015. Photosynthesis Research, 2016, 129, 231-238.	1.6	43
110	A stable LHCII-PSI aggregate and suppression of photosynthetic state transitions in the psae1-1 mutant of Arabidopsis thaliana. Planta, 2002, 215, 940-948.	1.6	42
111	Optimizing photosynthesis under fluctuating light. Plant Signaling and Behavior, 2010, 5, 21-25.	1.2	42
112	Gene-sequence-tag expression analyses of 1,800 genes related to chloroplast functions. Planta, 2002, 215, 101-109.	1.6	41
113	The <i>Arabidopsis</i> SAFEGUARD1 suppresses singlet oxygen-induced stress responses by protecting grana margins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6918-6927.	3.3	41
114	Intracompartmental and Intercompartmental Transcriptional Networks Coordinate the Expression of Genes for Organellar Functions Â. Plant Physiology, 2011, 157, 386-404.	2.3	40
115	Control of STN7 transcript abundance and transient STN7 dimerisation are involved in the regulation of STN7 activity. Planta, 2013, 237, 541-558.	1.6	39
116	Perspectives on Systematic Analyses of Gene Function in Arabidopsis thaliana: New Tools, Topics and Trends. Current Genomics, 2011, 12, 1-14.	0.7	38
117	The Arabidopsis Tellurite resistance C protein together with <scp>ALB</scp>3 is involved in photosystemÂ<scp>II</scp> protein synthesis. Plant Journal, 2014, 78, 344-356.	2.8	37
118	SNOWY COTYLEDON 2 Promotes Chloroplast Development and Has a Role in Leaf Variegation inÂBoth Lotus japonicus and Arabidopsis thaliana. Molecular Plant, 2017, 10, 721-734.	3.9	37
119	Chloroplasts are key players to cope with light and temperature stress. Trends in Plant Science, 2022, 27, 577-587.	4.3	37
120	From Genes to Photosynthesis in Arabidopsis thaliana. International Review of Cytology, 2003, 228, 31-83.	6.2	35
121	The Arabidopsis Protein CONSERVED ONLY IN THE GREEN LINEAGE160 Promotes the Assembly of the Membranous Part of the Chloroplast ATP Synthase. Plant Physiology, 2014, 165, 207-226.	2.3	35
122	Relationship of <scp>GUN</scp>1 to <scp>FUG</scp>1 in chloroplast protein homeostasis. Plant Journal, 2019, 99, 521-535.	2.8	35
123	Regulation of planar growth by the <i>Arabidopsis</i> AGC protein kinase UNICORN. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15060-15065.	3.3	34
124	Identification of Photosynthetic Mutants of Arabidopsis by Automatic Screening for Altered Effective Quantum Yield of Photosystem 2. Photosynthetica, 2000, 38, 497-504.	0.9	33
125	Deletion of an organellar peptidasome PreP affects early development in Arabidopsis thaliana. Plant Molecular Biology, 2009, 71, 497-508.	2.0	33
126	Proteomic analysis of the Cyanophora paradoxa muroplast provides clues on early events in plastid endosymbiosis. Planta, 2013, 237, 637-651.	1.6	33

#	Article	IF	Citations
127	Photosynthetic lesions can trigger accelerated senescence in<i>Arabidopsis thaliana</i>. Journal of Experimental Botany, 2015, 66, 6891-6903.	2.4	33
128	Pausing of Chloroplast Ribosomes Is Induced by Multiple Features and Is Linked to the Assembly of Photosynthetic Complexes. Plant Physiology, 2018, 176, 2557-2569.	2.3	33
129	Evidence that cyanobacterial Sll1217 functions analogously to PGRL1 in enhancing PGR5-dependent cyclic electron flow. Nature Communications, 2019, 10, 5299.	5.8	33
130	A single vector-based strategy for marker-less gene replacement in Synechocystis sp. PCC 6803. Microbial Cell Factories, 2014, 13, 4.	1.9	32
131	Role of Intercompartmental DNA Transfer in Producing Genetic Diversity. International Review of Cell and Molecular Biology, 2011, 291, 73-114.	1.6	31
132	Functional relationship between mTERF4 and GUN1 in retrograde signaling. Journal of Experimental Botany, 2016, 67, 3909-3924.	2.4	31
133	PGRL2 triggers degradation of PGR5 in the absence of PGRL1. Nature Communications, 2021, 12, 3941.	5.8	31
134	Extrachloroplastic PP7L Functions in Chloroplast Development and Abiotic Stress Tolerance. Plant Physiology, 2019, 180, 323-341.	2.3	30
135	Arabidopsis thaliana mTERF10 and mTERF11, but Not mTERF12, Are Involved in the Response to Salt Stress. Frontiers in Plant Science, 2017, 8, 1213.	1.7	29
136	CHLOROPLAST RIBOSOME ASSOCIATED Supports Translation under Stress and Interacts with the Ribosomal 30S Subunit. Plant Physiology, 2018, 177, 1539-1554.	2.3	29
137	At<scp>SIA</scp>1 <scp>AND</scp> At<scp>OSA</scp>1: two Abc1 proteins involved in oxidative stress responses and iron distribution within chloroplasts. New Phytologist, 2014, 201, 452-465.	3.5	28
138	FtsH facilitates proper biosynthesis of photosystem I in Arabidopsis thaliana. Plant Physiology, 2016, 171, pp.00200.2016.	2.3	28
139	Nanostructured Antimonyâ€Doped Tin Oxide Layers with Tunable Pore Architectures as Versatile Transparent Current Collectors for Biophotovoltaics. Advanced Functional Materials, 2016, 26, 6682-6692.	7.8	28
140	PALE CRESS binds to plastid RNAs and facilitates the biogenesis of the 50S ribosomal subunit. Plant Journal, 2017, 92, 400-413.	2.8	26
141	Enhancing (crop) plant photosynthesis by introducing novel genetic diversity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160380.	1.8	26
142	Cyanobacteria as an Experimental Platform for Modifying Bacterial and Plant Photosynthesis. Frontiers in Bioengineering and Biotechnology, 2014, 2, 7.	2.0	24
143	Identification of Target Genes and Transcription Factors Implicated in Translation-Dependent Retrograde Signaling in Arabidopsis. Molecular Plant, 2014, 7, 1228-1247.	3.9	24
144	Enhancing photosynthesis at high light levels by adaptive laboratory evolution. Nature Plants, 2021, 7, 681-695.	4.7	24

#	Article	IF	Citations
145	Photosystem I lacking the PSI-G subunit has a higher affinity for plastocyanin and is sensitive to photodamage. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 154-163.	0.5	23
146	PUMPKIN, the Sole Plastid UMP Kinase, Associates with Group II Introns and Alters Their Metabolism. Plant Physiology, 2019, 179, 248-264.	2.3	23
147	GST-PRIME: a genome-wide primer design software for the generation of gene sequence tags. Nucleic Acids Research, 2001, 29, 4373-4377.	6.5	22
148	How Can the Light Reactions of Photosynthesis be Improved in Plants?. Frontiers in Plant Science, 2012, 3, 199.	1.7	22
149	Tracking the function of the cytochrome c6-like protein in higher plants. Trends in Plant Science, 2003, 8, 513-517.	4.3	21
150	Competition between linear and cyclic electron flow in plants deficient in Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1173-1183.	0.5	21
151	Cellulose defects in the Arabidopsis secondary cell wall promote early chloroplast development. Plant Journal, 2020, 101, 156-170.	2.8	21
152	Redesigning the photosynthetic light reactions to enhance photosynthesis â€“ the <i>PhotoRedesign</i> consortium. Plant Journal, 2022, 109, 23-34.	2.8	21
153	Functional genomics of Arabidopsis photosynthesis. Plant Physiology and Biochemistry, 2001, 39, 285-294.	2.8	20
154	CIA2 and CIA2â€LIKE are required for optimal photosynthesis and stress responses in <i>Arabidopsis thaliana</i>. Plant Journal, 2021, 105, 619-638.	2.8	20
155	Low frequency paternal transmission of plastid genes in Brassicaceae. Transgenic Research, 2015, 24, 267-277.	1.3	19
156	Impaired photosystem I oxidation induces STN7-dependent phosphorylation of the light-harvesting complex I protein Lhca4 in Arabidopsis thaliana. Planta, 2008, 227, 717-22.	1.6	18
157	Retrograde signals galore. Frontiers in Plant Science, 2013, 4, 45.	1.7	18
158	Chlorophyll Fluorescence Video Imaging: A Versatile Tool for Identifying Factors Related to Photosynthesis. Frontiers in Plant Science, 2018, 9, 55.	1.7	18
159	Beyond Histones: New Substrate Proteins of Lysine Deacetylases in Arabidopsis Nuclei. Frontiers in Plant Science, 2018, 9, 461.	1.7	18
160	Towards a comprehensive catalog of chloroplast proteins and their interactions. Cell Research, 2008, 18, 1081-1083.	5.7	17
161	The Arabidopsis Protein CGLD11 Is Required for Chloroplast ATP Synthase Accumulation. Molecular Plant, 2016, 9, 885-899.	3.9	17
162	Lack of FIBRILLIN6 in <i>Arabidopsis thaliana</i> affects light acclimation and sulfate metabolism. New Phytologist, 2020, 225, 1715-1731.	3.5	15

#	Article	IF	Citations
163	Arabidopsis Mitochondrial Transcription Termination Factor mTERF2 Promotes Splicing of Group IIB Introns. Cells, 2021, 10, 315.	1.8	15
164	Co-replication of several isotypes of foot-and-mouth disease virus. Journal of General Virology, 1993, 74, 2753-2757.	1.3	14
165	Thylakoid redox signals are integrated into organellar-gene-expression-dependent retrograde signaling in the prors1-1 mutant. Frontiers in Plant Science, 2012, 3, 282.	1.7	14
166	The Arabidopsis Protein CGL20 Is Required for Plastid 50S Ribosome Biogenesis. Plant Physiology, 2020, 182, 1222-1238.	2.3	14
167	Homologous Proteins of the Manganese Transporter PAM71 Are Localized in the Golgi Apparatus and Endoplasmic Reticulum. Plants, 2020, 9, 239.	1.6	14
168	Plants contain small families of UPF0016 proteins including the PHOTOSYNTHESIS AFFECTED MUTANT71 transporter. Plant Signaling and Behavior, 2017, 12, e1278101.	1.2	13
169	Towards understanding the evolution and functional diversification of DNA-containing plant organelles. F1000Research, 2016, 5, 330.	0.8	13
170	The RNAâ€binding protein RBP45D of Arabidopsis promotes transgene silencing and flowering time. Plant Journal, 2022, 109, 1397-1415.	2.8	13
171	Recent advances in understanding photosynthesis. F1000Research, 2016, 5, 2890.	0.8	12
172	Systems biology of responses to simultaneous copper and iron deficiency in Arabidopsis. Plant Journal, 2020, 103, 2119-2138.	2.8	12
173	Complex(iti)es of the ubiquitous RNA-binding CSP41 proteins. Frontiers in Plant Science, 2014, 5, 255.	1.7	11
174	Experimental evolution in photoautotrophic microorganisms as a means of enhancing chloroplast functions. Essays in Biochemistry, 2018, 62, 77-84.	2.1	11
175	VENOSA4, a Human dNTPase SAMHD1 Homolog, Contributes to Chloroplast Development and Abiotic Stress Tolerance. Plant Physiology, 2020, 182, 721-729.	2.3	11
176	Intracellular Communication. Molecular Plant, 2014, 7, 1071-1074.	3.9	10
177	NTRC Effects on Non-Photochemical Quenching Depends on PGR5. Antioxidants, 2021, 10, 900.	2.2	10
178	Dynamic lightâ€•and acetateâ€dependent regulation of the proteome and lysine acetylome of <i>Chlamydomonas</i>. Plant Journal, 2022, 109, 261-277.	2.8	10
179	Construction of a potato YAC library and identification of clones linked to the disease resistance loci R1 and Gro1. Theoretical and Applied Genetics, 1997, 95, 954-960.	1.8	9
180	The Chloroplast RNA Binding Protein CP31A Has a Preference for mRNAs Encoding the Subunits of the Chloroplast NAD(P)H Dehydrogenase Complex and Is Required for Their Accumulation. International Journal of Molecular Sciences, 2020, 21, 5633.	1.8	9

#	Article	IF	Citations
181	Light-Dependent Translation Change of Arabidopsis psbA Correlates with RNA Structure Alterations at the Translation Initiation Region. Cells, 2021, 10, 322.	1.8	9
182	Introduction of the Carotenoid Biosynthesis Î±-Branch Into Synechocystis sp. PCC 6803 for Lutein Production. Frontiers in Plant Science, 2021, 12, 699424.	1.7	9
183	Production of full-length cDNA from a picornaviral genome by RT-PCR. Trends in Genetics, 1996, 12, 11.	2.9	8
184	Thawing out frozen metabolic accidents. BMC Biology, 2019, 17, 8.	1.7	8
185	Extending the Repertoire of mTERF Proteins withÂFunctions in Organellar Gene Expression. Molecular Plant, 2020, 13, 817-819.	3.9	8
186	Modulating the activities of chloroplasts and mitochondria promotes adenosine triphosphate production and plant growth. Quantitative Plant Biology, 2021, 2, .	0.8	8
187	Protein-protein and protein-function relationships inArabidopsis photosystem I: cluster analysis of PSI polypeptide levels and photosynthetic parameters in PSI mutants. Journal of Plant Physiology, 2003, 160, 17-22.	1.6	6
188	Alternative electron pathways in photosynthesis: strength in numbers. New Phytologist, 2020, 228, 1166-1168.	3.5	6
189	Chloroplast development and genomes uncoupled signaling are independent of the RNA-directed DNA methylation pathway. Scientific Reports, 2020, 10, 15412.	1.6	6
190	Paternal inheritance of plastid-encoded transgenes in Petunia hybrida in the greenhouse and under field conditions. Biotechnology Reports (Amsterdam, Netherlands), 2017, 16, 26-31.	2.1	5
191	Gene Replacement in Arabidopsis Reveals Manganese Transport as an Ancient Feature of Human, Plant and Cyanobacterial UPF0016 Proteins. Frontiers in Plant Science, 2021, 12, 697848.	1.7	5
192	An ancient function of PGR5 in iron delivery?. Trends in Plant Science, 2022, 27, 971-980.	4.3	5
193	Inactivation of cytosolic FUMARASE2 enhances growth and photosynthesis under simultaneous copper and iron deprivation in Arabidopsis. Plant Journal, 2021, 106, 766-784.	2.8	4
194	The acidic domain of the chloroplast RNA-binding protein CP31A supports cold tolerance in <i>Arabidopsis thaliana</i>. Journal of Experimental Botany, 2021, 72, 4904-4914.	2.4	4
195	Loss of a pyridoxal-phosphate phosphatase rescues Arabidopsis lacking an endoplasmic reticulum ATP carrier. Plant Physiology, 2022, 189, 49-65.	2.3	4
196	Production of long inverse PCR products facilitates the isolation of YAC insert termini. Technical Tips Online, 1997, 2, 11-13.	0.2	3
197	Forward Genetic Screening of Insertional Mutants. , 2006, 323, 147-162.		3
198	Editorial: Relevance of Translational Regulation on Plant Growth and Environmental Responses. Frontiers in Plant Science, 2017, 8, 2170.	1.7	3

#	Article	IF	Citations
199	Evolutionary Contribution of Plastid Genes to Plant Nuclear Genomes and Its Effects on Composition of the Proteomes of All Cellular Compartments. Systematics Association Special Volume, 2004, , 237-257.	0.2	3
200	Evolutionary tinkering: birth of a novel chloroplast protein. Biochemical Journal, 2007, 403, e13-e14.	1.7	2
201	Photosystem II Assembly from Scratch. Frontiers in Plant Science, 2016, 6, 1234.	1.7	2
202	Photosynthesis research protocols. Annals of Botany, 2013, 112, vi-vii.	1.4	1
203	Editorial: Plastid Proteostasis: Relevance of Transcription, Translation, and Post-translational Modifications. Frontiers in Plant Science, 2017, 8, 1759.	1.7	1
204	GST-PRIME. Methods in Molecular Biology, 2007, 402, 141-157.	0.4	1
205	Use of Transcriptomics to Analyze Chloroplast Processes in Arabidopsis. Methods in Molecular Biology, 2011, 775, 117-134.	0.4	1
206	Photosynthesis: Complex flexibilities. Nature Plants, 2016, 2, 16135.	4.7	0