Ralph Bock

List of Publications by Year
in descending order

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242 papers	25,309 citations	7069 78 h-index	8370 147 g-index
256 all docs	256 docs citations	256 times ranked	18271 citing authors

#	Article	IF	Citations
1	Riboswitch-mediated inducible expression of an astaxanthin biosynthetic operon in plastids. Plant Physiology, 2022, 188, 637-652.	2.3	20
2	Heterologous expression of Bixa orellana cleavage dioxygenase 4â€“3 drives crocin but not bixin biosynthesis. Plant Physiology, 2022, 188, 1469-1482.	2.3	13
3	Chloroplast translational regulation uncovers nonessential photosynthesis genes as key players in plant cold acclimation. Plant Cell, 2022, 34, 2056-2079.	3.1	25
4	Comprehensive analysis of plastid gene expression during fruit development and ripening of kiwifruit. Plant Cell Reports, 2022, 41, 1103-1114.	2.8	5
5	Targeted introduction of heritable point mutations into the plant mitochondrial genome. Nature Plants, 2022, 8, 245-256.	4.7	25
6	Transplastomic approaches for metabolic engineering. Current Opinion in Plant Biology, 2022, 66, 102185.	3.5	11
7	Resistance to RNA interference by plantâ€derived doubleâ€stranded RNAs but not plantâ€derived short interfering RNAs in Helicoverpa armigera. Plant, Cell and Environment, 2022, 45, 1930-1941.	2.8	11
8	Efficient control of western flower thrips by plastid-mediated RNA interference. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120081119.	3.3	26
9	Control of a sap-sucking insect pest by plastid-mediated RNA interference. Molecular Plant, 2022, 15, 1176-1191.	3.9	18
10	DNA base editing in nuclear and organellar genomes. Trends in Genetics, 2022, 38, 1147-1169.	2.9	14
11	De-etiolation-induced protein 1 (DEIP1) mediates assembly of the cytochrome b6f complex in Arabidopsis. Nature Communications, 2022, 13, .	5.8	6
12	Engineering Metabolism in Nicotiana Species: A Promising Future. Trends in Biotechnology, 2021, 39, 901-913.	4.9	35
13	Improving plant drought tolerance and growth under water limitation through combinatorial engineering of signalling networks. Plant Biotechnology Journal, 2021, 19, 74-86.	4.1	31
14	Engineering Chloroplasts for High-Level Constitutive or Inducible Transgene Expression. Methods in Molecular Biology, 2021, 2317, 77-94.	0.4	10
15	Lycopene Î²-cyclase expression influences plant physiology, development, and metabolism in tobacco plants. Journal of Experimental Botany, 2021, 72, 2544-2569.	2.4	21
16	GUN control in retrograde signaling: How GENOMES UNCOUPLED proteins adjust nuclear gene expression to plastid biogenesis. Plant Cell, 2021, 33, 457-474.	3.1	53
17	Correction of frameshift mutations in the atpB gene by translational recoding in chloroplasts of Oenothera and tobacco. Plant Cell, 2021, 33, 1682-1705.	3.1	6
18	Chloroplast Transformation in Arabidopsis. Current Protocols, 2021, 1, e103.	1.3	8

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19	Synergistic action of the gut microbiota in environmental RNA interference in a leaf beetle. Microbiome, 2021, 9, 98.	4.9	31
20	A photosynthesis operon in the chloroplast genome drives speciation in evening primroses. Plant Cell, 2021, 33, 2583-2601.	3.1	21
21	Hepatitis C virus E2 envelope glycoprotein produced in Nicotiana benthamiana triggers humoral response with virusâ€neutralizing activity in vaccinated mice. Plant Biotechnology Journal, 2021, 19, 2027-2039.	4.1	8
22	Contributions of the international plant science community to the fight against infectious diseases in humansâ€"part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	4.1	31
23	Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	4.1	44
24	Knockdown of the plastid-encoded acetyl-CoA carboxylase gene uncovers functions in metabolism and development. Plant Physiology, 2021, 185, 1091-1110.	2.3	15
25	Horizontal genome transfer by cell-to-cell travel of whole organelles. Science Advances, 2021, 7, .	4.7	42
26	Plastid Transformation in Tomato: A Vegetable Crop and Model Species. Methods in Molecular Biology, 2021, 2317, 217-228.	0.4	2
27	The availability of neither D2 nor CP43 limits the biogenesis of photosystem II in tobacco. Plant Physiology, 2021, 185, 1111-1130.	2.3	6
28	Curvature thylakoid 1 proteins modulate prolamellar body morphology and promote organized thylakoid biogenesis inArabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
29	Topology of the redox network during induction of photosynthesis as revealed by time-resolved proteomics in tobacco. Science Advances, 2021, 7, eabi8307.	4.7	27
30	Inâ€depth characterization of Trichoderma reesei cellobiohydrolase TrCel7A produced in Nicotiana benthamiana reveals limitations of cellulase production in plants by hostâ€specific postâ€translational modifications. Plant Biotechnology Journal, 2020, 18, 631-643.	4.1	13
31	Length-dependent accumulation of double-stranded RNAs in plastids affects RNA interference efficiency in the Colorado potato beetle. Journal of Experimental Botany, 2020, 71, 2670-2677.	2.4	48
32	Chloroplast nucleoids are highly dynamic in ploidy, number, and structure during angiosperm leaf development. Plant Journal, 2020, 102, 730-746.	2.8	43
33	Limited Responsiveness of Chloroplast Gene Expression during Acclimation to High Light in Tobacco. Plant Physiology, 2020, 182, 424-435.	2.3	36
34	Multi-gene metabolic engineering of tomato plants results in increased fruit yield up to 23%. Scientific Reports, 2020, 10, 17219.	1.6	15
35	An epigenetic gene silencing pathway selectively acting on transgenic DNA in the green alga Chlamydomonas. Nature Communications, 2020, 11, 6269.	5.8	58
36	Expression of a carotenogenic gene allows faster biomass production by redesigning plant architecture and improving photosynthetic efficiency in tobacco. Plant Journal, 2020, 103, 1967-1984.	2.8	39

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37	Accumulation of the RNA polymerase subunit RpoB depends on RNA editing by OsPPR16 and affects chloroplast development during early leaf development in rice. New Phytologist, 2020, 228, 1401-1416.	3.5	25
38	Expanding the genome-targeting scope and the site selectivity of high-precision base editors. Nature Communications, 2020, 11, 629.	5.8	52
39	The Functions of Chloroplast Glutamyl-tRNA in Translation and Tetrapyrrole Biosynthesis. Plant Physiology, 2020, 183, 263-276.	2.3	13
40	Photosynthesis without Î²-carotene. ELife, 2020, 9, .	2.8	30
41	A highly efficient sulfadiazine selection system for the generation of transgenic plants and algae. Plant Biotechnology Journal, 2019, 17, 638-649.	4.1	41
42	Engineering of high-precision base editors for site-specific single nucleotide replacement. Nature Communications, 2019, 10, 439.	5.8	119
43	Rapid functional activation of a horizontally transferred eukaryotic gene in a bacterial genome in the absence of selection. Nucleic Acids Research, 2019, 47, 6351-6359.	6.5	7
44	Extensive Posttranscriptional Regulation of Nuclear Gene Expression by Plastid Retrograde Signals. Plant Physiology, 2019, 180, 2034-2048.	2.3	24
45	Control of retrograde signalling by protein import and cytosolic folding stress. Nature Plants, 2019, 5, 525-538.	4.7	109
46	Chloroplast competition is controlled by lipid biosynthesis in evening primroses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5665-5674.	3.3	39
47	Highly Resolved Systems Biology to Dissect the Etioplast-to-Chloroplast Transition in Tobacco Leaves. Plant Physiology, 2019, 180, 654-681.	2.3	51
48	OrganellarGenomeDRAW (OGDRAW) version 1.3.1: expanded toolkit for the graphical visualization of organellar genomes. Nucleic Acids Research, 2019, 47, W59-W64.	6.5	1,157
49	Generation of virusâ€resistant potato plants by <scp>RNA</scp> genome targeting. Plant Biotechnology Journal, 2019, 17, 1814-1822.	4.1	129
50	High-efficiency generation of fertile transplastomic Arabidopsis plants. Nature Plants, 2019, 5, 282-289.	4.7	65
51	Establishment of a Heterologous RNA Editing Event in Chloroplasts. Plant Physiology, 2019, 181, 891-900.	2.3	13
52	Arabidopsis TRM5 encodes a nuclear-localised bifunctional tRNA guanine and inosine-N1-methyltransferase that is important for growth. PLoS ONE, 2019, 14, e0225064.	1.1	14
53	Recent Advances and Current Challenges in Synthetic Biology of the Plastid Genetic System and Metabolism. Plant Physiology, 2019, 179, 794-802.	2.3	45
54	Production of tetravalent dengue virus envelope protein domain <scp>III</scp> based antigens in lettuce chloroplasts and immunologic analysis for future oral vaccine development. Plant Biotechnology Journal, 2019, 17, 1408-1417.	4.1	31

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55	The assembly pathway of complex I in Arabidopsis thaliana. Plant Journal, 2019, 97, 447-459.	2.8	84
56	The plastid NAD(P)H dehydrogenase-like complex: structure, function and evolutionary dynamics. Biochemical Journal, 2019, 476, 2743-2756.	1.7	22
57	Title is missing!. , 2019, 14, e0225064.		0
58	Title is missing!. , 2019, 14, e0225064.		0
59	Title is missing!. , 2019, 14, e0225064.		0
60	Title is missing!. , 2019, 14, e0225064.		0
61	Title is missing!. , 2019, 14, e0225064.		0
62	Title is missing!. , 2019, 14, e0225064.		0
63	Chloroplast Translation: Structural and Functional Organization, Operational Control, and Regulation. Plant Cell, 2018, 30, 745-770.	3.1	191
64	Chloroplast Signaling Gates Thermotolerance in Arabidopsis. Cell Reports, 2018, 22, 1657-1665.	2.9	80
65	Control of Retrograde Signaling by Rapid Turnover of GENOMES UNCOUPLED1. Plant Physiology, 2018, 176, 2472-2495.	2.3	71
66	Stabilization and translation of synthetic operonâ€derived <scp>mRNA</scp>s in chloroplasts by sequences representing <scp>PPR</scp> proteinâ€binding sites. Plant Journal, 2018, 94, 8-21.	2.8	40
67	CMS-G from Beta vulgaris ssp. maritima is maintained in natural populations despite containing an atypical cytochrome c oxidase. Biochemical Journal, 2018, 475, 759-773.	1.7	12
68	Revisiting the Role of Xanthophylls in Nonphotochemical Quenching. Journal of Physical Chemistry Letters, 2018, 9, 346-352.	2.1	36
69	Absence of Complex I Is Associated with Diminished Respiratory Chain Function in European Mistletoe. Current Biology, 2018, 28, 1614-1619.e3.	1.8	62
70	Plastid transformation and its application in metabolic engineering. Current Opinion in Biotechnology, 2018, 49, 10-15.	3.3	73
71	Temporal Proteomics of Inducible RNAi Lines of Clp Protease Subunits Identifies Putative Protease Substrates. Plant Physiology, 2018, 176, 1485-1508.	2.3	37
72	High-level expression of the HIV entry inhibitor griffithsin from the plastid genome and retention of biological activity in dried tobacco leaves. Plant Molecular Biology, 2018, 97, 357-370.	2.0	26

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73	Transcriptome and metabolome analyses provide insights into root and root-released organic anion responses to phosphorus deficiency in oat. Journal of Experimental Botany, 2018, 69, 3759-3771.	2.4	42
74	Replication of bacterial plasmids in the nucleus of the red alga Porphyridium purpureum. Nature Communications, 2018, 9, 3451.	5.8	22
75	Transcriptome analysis highlights nuclear control of chloroplast development in the shoot apex. Scientific Reports, 2018, 8, 8881.	1.6	12
76	Regulation of ascorbate biosynthesis in green algae has evolved to enable rapid stressâ€induced response via the VTC2 gene encoding GDPâ€<scp>l</scp>â€galactose phosphorylase. New Phytologist, 2017, 214, 668-681.	3.5	47
77	Identification and characterization of a stable intermediate in photosystem I assembly in tobacco. Plant Journal, 2017, 90, 478-490.	2.8	21
78	Lettuceâ€produced hepatitis C virus E1E2 heterodimer triggers immune responses in mice and antibody production after oral vaccination. Plant Biotechnology Journal, 2017, 15, 1611-1621.	4.1	41
79	GeSeqÂâ€“ versatile and accurate annotation of organelle genomes. Nucleic Acids Research, 2017, 45, W6-W11.	6.5	1,964
80	Generation and characterization of a collection of knock-down lines for the chloroplast Clp protease complex in tobacco. Journal of Experimental Botany, 2017, 68, 2199-2218.	2.4	31
81	Horizontal Transfer of a Synthetic Metabolic Pathway between Plant Species. Current Biology, 2017, 27, 3034-3041.e3.	1.8	62
82	Witnessing Genome Evolution: Experimental Reconstruction of Endosymbiotic and Horizontal Gene Transfer. Annual Review of Genetics, 2017, 51, 1-22.	3.2	69
83	Next-Generation Insect-Resistant Plants: RNAi-Mediated Crop Protection. Trends in Biotechnology, 2017, 35, 871-882.	4.9	249
84	The plastid-encoded PsaI subunit stabilizes photosystem I during leaf senescence in tobacco. Journal of Experimental Botany, 2017, 68, 1137-1155.	2.4	31
85	Different carotenoid conformations have distinct functions in light-harvesting regulation in plants. Nature Communications, 2017, 8, 1994.	5.8	83
86	Loopholes for smuggling DNA into pollen. Nature Plants, 2017, 3, 918-919.	4.7	7
87	Shine-Dalgarno Sequences Play an Essential Role in the Translation of Plastid mRNAs in Tobacco. Plant Cell, 2017, 29, 3085-3101.	3.1	40
88	METHYLENE BLUE SENSITIVITY 1 (MBS1) is required for acclimation of Arabidopsis to singlet oxygen and acts downstream of Î²â€cyclocitral. Plant, Cell and Environment, 2017, 40, 216-226.	2.8	76
89	A bifunctional aminoglycoside acetyltransferase/phosphotransferase conferring tobramycin resistance provides an efficient selectable marker for plastid transformation. Plant Molecular Biology, 2017, 93, 269-281.	2.0	20
90	An assay for entry of secreted fungal effectors into plant cells. New Phytologist, 2017, 213, 956-964.	3.5	25

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91	Comparison of mitochondrial gene expression and polysome loading in different tobacco tissues. Plant Methods, 2017, 13, 112.	1.9	3
92	In vivo Assembly in Escherichia coli of Transformation Vectors for Plastid Genome Engineering. Frontiers in Plant Science, 2017, 8, 1454.	1.7	26
93	A new synthetic biology approach allows transfer of an entire metabolic pathway from a medicinal plant to a biomass crop. ELife, 2016, 5, .	2.8	148
94	Spontaneous Chloroplast Mutants Mostly Occur by Replication Slippage and Show a Biased Pattern in the Plastome of Oenothera. Plant Cell, 2016, 28, 911-929.	3.1	49
95	Production of dengue virus envelope protein domain III-based antigens in tobacco chloroplasts using inducible and constitutive expression systems. Plant Molecular Biology, 2016, 91, 497-512.	2.0	33
96	l-Galactono-1,4-lactone dehydrogenase is an assembly factor of the membrane arm of mitochondrial complex I in Arabidopsis. Plant Molecular Biology, 2016, 90, 117-126.	2.0	88
97	Lighting the Way to Protein-Protein Interactions: Recommendations on Best Practices for Bimolecular Fluorescence Complementation Analyses. Plant Cell, 2016, 28, 1002-1008.	3.1	151
98	Efficient expression of nuclear transgenes in the green alga Chlamydomonas: synthesis of an HIV antigen and development of a new selectable marker. Plant Molecular Biology, 2016, 90, 403-418.	2.0	83
99	Transfer of the cytochrome P450-dependent dhurrin pathway fromSorghum bicolorintoNicotiana tabacumchloroplasts for light-driven synthesis. Journal of Experimental Botany, 2016, 67, 2495-2506.	2.4	57
100	Dissecting the contributions of <scp>GC</scp> content and codon usage to gene expression in the model alga Chlamydomonas reinhardtii. Plant Journal, 2015, 84, 704-717.	2.8	113
101	Multiple RNA Processing Defects and Impaired Chloroplast Function in Plants Deficient in the Organellar Protein-Only RNase P Enzyme. PLoS ONE, 2015, 10, e0120533.	1.1	19
102	Complete Mitochondrial Complex I Deficiency Induces an Up-Regulation of Respiratory Fluxes That Is Abolished by Traces of Functional Complex I. Plant Physiology, 2015, 168, 1537-1549.	2.3	113
103	Global Analysis of the Role of Autophagy in Cellular Metabolism and Energy Homeostasis in Arabidopsis Seedlings under Carbon Starvation. Plant Cell, 2015, 27, 306-322.	3.1	166
104	Full crop protection from an insect pest by expression of long double-stranded RNAs in plastids. Science, 2015, 347, 991-994.	6.0	353
105	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8529-8536.	3.3	751
106	Photosynthetic Membranes of Synechocystis or Plants Convert Sunlight to Photocurrent through Different Pathways due to Different Architectures. PLoS ONE, 2015, 10, e0122616.	1.1	26
107	The Conserved Endoribonuclease YbeY Is Required for Chloroplast Ribosomal RNA Processing in Arabidopsis. Plant Physiology, 2015, 168, 205-221.	2.3	49
108	Boosting riboswitch efficiency by RNA amplification. Nucleic Acids Research, 2015, 43, e66-e66.	6.5	53

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109	Why are most organelle genomes transmitted maternally?. BioEssays, 2015, 37, 80-94.	1.2	234
110	Engineering Plastid Genomes: Methods, Tools, and Applications in Basic Research and Biotechnology. Annual Review of Plant Biology, 2015, 66, 211-241.	8.6	282
111	Plastid Transformation in Tomato. Methods in Molecular Biology, 2014, 1132, 265-276.	0.4	11
112	The Translational Apparatus of Plastids and Its Role in Plant Development. Molecular Plant, 2014, 7, 1105-1120.	3.9	208
113	Chloroplast DNA in Mature and Senescing Leaves: A Reappraisal Â. Plant Cell, 2014, 26, 847-854.	3.1	65
114	Inducible Repression of Nuclear-Encoded Subunits of the Cytochrome b6f Complex in Tobacco Reveals an Extraordinarily Long Lifetime of the Complex Â Â. Plant Physiology, 2014, 165, 1632-1646.	2.3	41
115	Genetic engineering of the chloroplast: novel tools and new applications. Current Opinion in Biotechnology, 2014, 26, 7-13.	3.3	111
116	The vacuolar calcium sensors <scp>CBL</scp>2 and <scp>CBL</scp>3 affect seed size and embryonic development in Arabidopsis thaliana. Plant Journal, 2014, 78, 146-156.	2.8	46
117	Synthetic biology in plastids. Plant Journal, 2014, 78, 783-798.	2.8	96
118	Identification of Enzymes for Adenosine-to-Inosine Editing and Discovery of Cytidine-to-Uridine Editing in Nucleus-Encoded Transfer RNAs of Arabidopsis. Plant Physiology, 2014, 166, 1985-1997.	2.3	49
119	Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism Chlamydomonas reinhardtii Â Â Â. Plant Cell, 2014, 26, 2310-2350.	3.1	123
120	RBF1, a Plant Homolog of the Bacterial Ribosome-Binding Factor RbfA, Acts in Processing of the Chloroplast 16S Ribosomal RNA. Plant Physiology, 2014, 164, 201-215.	2.3	48
121	Synthetic Lethality in the Tobacco Plastid Ribosome and Its Rescue at Elevated Growth Temperatures. Plant Cell, 2014, 26, 765-776.	3.1	24
122	Horizontal genome transfer as an asexual path to the formation of new species. Nature, 2014, 511, 232-235.	13.7	146
123	Engineering Chloroplasts for High-Level Foreign Protein Expression. Methods in Molecular Biology, 2014, 1132, 93-106.	0.4	29
124	The Diurnal Logic of the Expression of the Chloroplast Genome in Chlamydomonas reinhardtii. PLoS ONE, 2014, 9, e108760.	1.1	20
125	OrganellarGenomeDRAWâ€"a suite of tools for generating physical maps of plastid and mitochondrial genomes and visualizing expression data sets. Nucleic Acids Research, 2013, 41, W575-W581.	6.5	1,408
126	Tuning a mÃ©nage Ã trois: Coâ€evolution and coâ€adaptation of nuclear and organellar genomes in plants. BioEssays, 2013, 35, 354-365.	1.2	141

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127	Dual targeting of a mature plastoglobulin/fibrillin fusion protein to chloroplast plastoglobules and thylakoids in transplastomic tobacco plants. Plant Molecular Biology, 2013, 81, 13-25.	2.0	43
128	Design of chimeric expression elements that confer highâ€level gene activity in chromoplasts. Plant Journal, 2013, 73, 368-379.	2.8	53
129	Efficient metabolic pathway engineering in transgenic tobacco and tomato plastids with synthetic multigene operons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E623-32.	3.3	179
130	A Mediator of Singlet Oxygen Responses in Chlamydomonas reinhardtii and Arabidopsis Identified by a Luciferase-Based Genetic Screen in Algal Cells. Plant Cell, 2013, 25, 4209-4226.	3.1	82
131	Strategies for metabolic pathway engineering with multiple transgenes. Plant Molecular Biology, 2013, 83, 21-31.	2.0	84
132	Reverse genetics in complex multigene operons by coâ€transformation of the plastid genome and its application to the open reading frame previously designated psbN. Plant Journal, 2013, 75, 1062-1074.	2.8	33
133	Importance of adenosine-to-inosine editing adjacent to the anticodon in an Arabidopsis alanine tRNA under environmental stress. Nucleic Acids Research, 2013, 41, 3362-3372.	6.5	26
134	The Contributions of Wobbling and Superwobbling to the Reading of the Genetic Code. PLoS Genetics, 2012, 8, e1003076.	1.5	90
135	Evolutionary constraints on the plastid tRNA set decoding methionine and isoleucine. Nucleic Acids Research, 2012, 40, 6713-6724.	6.5	50
136	LCAA, a Novel Factor Required for Magnesium Protoporphyrin Monomethylester Cyclase Accumulation and Feedback Control of Aminolevulinic Acid Biosynthesis in Tobacco Â Â. Plant Physiology, 2012, 160, 1923-1939.	2.3	50
137	Horizontal transfer of chloroplast genomes between plant species. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2434-2438.	3.3	246
138	The Plastid Genome-Encoded Ycf4 Protein Functions as a Nonessential Assembly Factor for Photosystem I in Higher Plants Â. Plant Physiology, 2012, 159, 579-591.	2.3	79
139	Genetic Transformation of the Model Green Alga Chlamydomonas reinhardtii. Methods in Molecular Biology, 2012, 847, 35-47.	0.4	38
140	The plastidâ€specific ribosomal proteins of Arabidopsis thaliana can be divided into nonâ€essential proteins and genuine ribosomal proteins. Plant Journal, 2012, 69, 302-316.	2.8	114
141	Experimental Reconstruction of the Functional Transfer of Intron- Containing Plastid Genes to the Nucleus. Current Biology, 2012, 22, 763-771.	1.8	33
142	Identification of cisâ€elements conferring high levels of gene expression in nonâ€green plastids. Plant Journal, 2012, 72, 115-128.	2.8	60
143	In Vivo Analysis of RNA Editing in Plastids. Methods in Molecular Biology, 2011, 718, 137-150.	0.4	7
144	Photosystem I: Its biogenesis and function in higher plants. Journal of Plant Physiology, 2011, 168, 1452-1461.	1.6	82

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145	Optimization of the expression of the HIV fusion inhibitor cyanovirinâ€N from the tobacco plastid genome. Plant Biotechnology Journal, 2011, 9, 599-608.	4.1	57
146	Immunogenicity of chloroplastâ€derived HIVâ€1 p24 and a p24â€Nef fusion protein following subcutaneous and oral administration in mice. Plant Biotechnology Journal, 2011, 9, 629-638.	4.1	38
147	Biolistic coâ€transformation of the nuclear and plastid genomes. Plant Journal, 2011, 67, 941-948.	2.8	33
148	Chloramphenicol acetyltransferase as selectable marker for plastid transformation. Plant Molecular Biology, 2011, 76, 443-451.	2.0	60
149	High-level expression of a suite of thermostable cell wall-degrading enzymes from the chloroplast genome. Plant Molecular Biology, 2011, 76, 311-321.	2.0	80
150	Alteration of mitochondrial protein complexes in relation to metabolic regulation under short-term oxidative stress in Arabidopsis seedlings. Phytochemistry, 2011, 72, 1081-1091.	1.4	66
151	Selection of Shine-Dalgarno sequences in plastids. Nucleic Acids Research, 2011, 39, 1427-1438.	6.5	57
152	Elimination of a group II intron from a plastid gene causes a mutant phenotype. Nucleic Acids Research, 2011, 39, 5181-5192.	6.5	32
153	Unraveling the Evolution of Auxin Signaling Â Â. Plant Physiology, 2011, 155, 209-221.	2.3	140
154	Nonessential Plastid-Encoded Ribosomal Proteins in Tobacco: A Developmental Role for Plastid Translation and Implications for Reductive Genome Evolution Â. Plant Cell, 2011, 23, 3137-3155.	3.1	130
155	Tomato Fruit Photosynthesis Is Seemingly Unimportant in Primary Metabolism and Ripening But Plays a Considerable Role in Seed Development Â Â. Plant Physiology, 2011, 157, 1650-1663.	2.3	150
156	Plastid Biotechnology: Food, Fuel, and Medicine for the 21st Century. Plant Physiology, 2011, 155, 1501-1510.	2.3	169
157	Local Absence of Secondary Structure Permits Translation of mRNAs that Lack Ribosome-Binding Sites. PLoS Genetics, 2011, 7, e1002155.	1.5	109
158	ATP Synthase Repression in Tobacco Restricts Photosynthetic Electron Transport, CO₂ Assimilation, and Plant Growth by Overacidification of the Thylakoid Lumen. Plant Cell, 2011, 23, 304-321.	3.1	184
159	Solar-powered factories for new vaccines and antibiotics. Trends in Biotechnology, 2010, 28, 246-252.	4.9	103
160	Identification of protein stability determinants in chloroplasts. Plant Journal, 2010, 63, 636-650.	2.8	96
161	Knockout of the plastid RNase E leads to defective RNA processing and chloroplast ribosome deficiency. Plant Journal, 2010, 64, 851-863.	2.8	80
162	Inducible gene expression from the plastid genome by a synthetic riboswitch. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6204-6209.	3.3	129

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163	Y3IP1, a Nucleus-Encoded Thylakoid Protein, Cooperates with the Plastid-Encoded Ycf3 Protein in Photosystem I Assembly of Tobacco and Arabidopsis Â Â. Plant Cell, 2010, 22, 2838-2855.	3.1	72
164	The give-and-take of DNA: horizontal gene transfer in plants. Trends in Plant Science, 2010, 15, 11-22.	4.3	240
165	The Chlamydomonas Chloroplast HLP Protein Is Required for Nucleoid Organization and Genome Maintenance. Molecular Plant, 2009, 2, 1223-1232.	3.9	40
166	Identification of the chloroplast adenosine-to-inosine tRNA editing enzyme. Rna, 2009, 15, 1251-1257.	1.6	42
167	Genome-Wide Analysis of Plastid Gene Expression in Potato Leaf Chloroplasts and Tuber Amyloplasts: Transcriptional and Posttranscriptional Control Â. Plant Physiology, 2009, 150, 2030-2044.	2.3	91
168	Insensitivity of chloroplast gene expression to DNA methylation. Molecular Genetics and Genomics, 2009, 282, 17-24.	1.0	26
169	Plant-based strategies aimed at expressing HIV antigens and neutralizing antibodies at high levels. Nef as a case study. Transgenic Research, 2009, 18, 499-512.	1.3	26
170	Viral and murine interleukin-10 are correctly processed and retain their biological activity when produced in tobacco. BMC Biotechnology, 2009, 9, 22.	1.7	30
171	Exhaustion of the chloroplast protein synthesis capacity by massive expression of a highly stable protein antibiotic. Plant Journal, 2009, 57, 436-445.	2.8	286
172	Generation of Chlamydomonas strains that efficiently express nuclear transgenes. Plant Journal, 2009, 57, 1140-1150.	2.8	297
173	Transposition of a bacterial insertion sequence in chloroplasts. Plant Journal, 2009, 58, 423-436.	2.8	22
174	Designing and using synthetic RNA thermometers for temperature-controlled gene expression in bacteria. Nature Protocols, 2009, 4, 1262-1273.	5.5	29
175	Plastid production of protein antibiotics against pneumonia via a new strategy for high-level expression of antimicrobial proteins. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6579-6584.	3.3	100
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