

# 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	GeSeq“ versatile and accurate annotation of organelle genomes. <i>Nucleic Acids Research</i> , 2017, 45, W6-W11.	6.5	1,964
2	OrganellarGenomeDRAW“ a suite of tools for generating physical maps of plastid and mitochondrial genomes and visualizing expression data sets. <i>Nucleic Acids Research</i> , 2013, 41, W575-W581.	6.5	1,408
3	OrganellarGenomeDRAW (OGDRAW) version 1.3.1: expanded toolkit for the graphical visualization of organellar genomes. <i>Nucleic Acids Research</i> , 2019, 47, W59-W64.	6.5	1,157
4	OrganellarGenomeDRAW (OGDRAW): a tool for the easy generation of high-quality custom graphical maps of plastid and mitochondrial genomes. <i>Current Genetics</i> , 2007, 52, 267-274.	0.8	1,026
5	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8529-8536.	3.3	751
6	Multicolor bimolecular fluorescence complementation reveals simultaneous formation of alternative CBL/CIPK complexes <i>in planta</i> . <i>Plant Journal</i> , 2008, 56, 505-516.	2.8	652
7	Stable genetic transformation of tomato plastids and expression of a foreign protein in fruit. <i>Nature Biotechnology</i> , 2001, 19, 870-875.	9.4	453
8	Full crop protection from an insect pest by expression of long double-stranded RNAs in plastids. <i>Science</i> , 2015, 347, 991-994.	6.0	353
9	The two largest chloroplast genome-encoded open reading frames of higher plants are essential genes. <i>Plant Journal</i> , 2000, 22, 97-104.	2.8	341
10	Generation of <i>Chlamydomonas</i> strains that efficiently express nuclear transgenes. <i>Plant Journal</i> , 2009, 57, 1140-1150.	2.8	297
11	Elimination of deleterious mutations in plastid genomes by gene conversion. <i>Plant Journal</i> , 2006, 46, 85-94.	2.8	296
12	Particle bombardment and the genetic enhancement of crops: myths and realities. <i>Molecular Breeding</i> , 2005, 15, 305-327.	1.0	291
13	The calcium sensor CBL1 integrates plant responses to abiotic stresses. <i>Plant Journal</i> , 2003, 36, 457-470.	2.8	286
14	Molecular farming for new drugs and vaccines. <i>EMBO Reports</i> , 2005, 6, 593-599.	2.0	286
15	Exhaustion of the chloroplast protein synthesis capacity by massive expression of a highly stable protein antibiotic. <i>Plant Journal</i> , 2009, 57, 436-445.	2.8	286
16	Engineering Plastid Genomes: Methods, Tools, and Applications in Basic Research and Biotechnology. <i>Annual Review of Plant Biology</i> , 2015, 66, 211-241.	8.6	282
17	High-frequency gene transfer from the chloroplast genome to the nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8828-8833.	3.3	274
18	Transgenic Plastids in Basic Research and Plant Biotechnology. <i>Journal of Molecular Biology</i> , 2001, 312, 425-438.	2.0	266

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19	Exchange of Genetic Material Between Cells in Plant Tissue Grafts. <i>Science</i> , 2009, 324, 649-651.	6.0	256
20	Next-Generation Insect-Resistant Plants: RNAi-Mediated Crop Protection. <i>Trends in Biotechnology</i> , 2017, 35, 871-882.	4.9	249
21	Horizontal transfer of chloroplast genomes between plant species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2434-2438.	3.3	246
22	The give-and-take of DNA: horizontal gene transfer in plants. <i>Trends in Plant Science</i> , 2010, 15, 11-22.	4.3	240
23	Alternative complex formation of the Ca <sup>2+</sup> -regulated protein kinase CIPK1 controls abscisic acid-dependent and independent stress responses in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 48, 857-872.	2.8	237
24	Why are most organelle genomes transmitted maternally?. <i>BioEssays</i> , 2015, 37, 80-94.	1.2	234
25	Plastid biotechnology: prospects for herbicide and insect resistance, metabolic engineering and molecular farming. <i>Current Opinion in Biotechnology</i> , 2007, 18, 100-106.	3.3	228
26	Determining the transgene containment level provided by chloroplast transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6998-7002.	3.3	226
27	The Translational Apparatus of Plastids and Its Role in Plant Development. <i>Molecular Plant</i> , 2014, 7, 1105-1120.	3.9	208
28	Plastid Transcriptomics and Translatomics of Tomato Fruit Development and Chloroplast-to-Chromoplast Differentiation: Chromoplast Gene Expression Largely Serves the Production of a Single Protein $\bar{A}$ . <i>Plant Cell</i> , 2008, 20, 856-874.	3.1	201
29	Enhancement of Carotenoid Biosynthesis in Transplastomic Tomatoes by Induced Lycopene-to-Provitamin A Conversion. <i>Plant Physiology</i> , 2009, 151, 59-66.	2.3	191
30	Chloroplast Translation: Structural and Functional Organization, Operational Control, and Regulation. <i>Plant Cell</i> , 2018, 30, 745-770.	3.1	191
31	Rpl33, a Nonessential Plastid-Encoded Ribosomal Protein in Tobacco, Is Required under Cold Stress Conditions $\bar{A}$ . <i>Plant Cell</i> , 2008, 20, 2221-2237.	3.1	184
32	ATP Synthase Repression in Tobacco Restricts Photosynthetic Electron Transport, CO <sub>2</sub> Assimilation, and Plant Growth by Overacidification of the Thylakoid Lumen. <i>Plant Cell</i> , 2011, 23, 304-321.	3.1	184
33	Contained metabolic engineering in tomatoes by expression of carotenoid biosynthesis genes from the plastid genome. <i>Plant Journal</i> , 2007, 49, 276-288.	2.8	182
34	Efficient metabolic pathway engineering in transgenic tobacco and tomato plastids with synthetic multigene operons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E623-32.	3.3	179
35	Reconstructing evolution: Gene transfer from plastids to the nucleus. <i>BioEssays</i> , 2008, 30, 556-566.	1.2	177
36	Tobacco plastid ribosomal protein S18 is essential for cell survival. <i>Nucleic Acids Research</i> , 2006, 34, 4537-4545.	6.5	170

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37	High-level expression of human immunodeficiency virus antigens from the tobacco and tomato plastid genomes. <i>Plant Biotechnology Journal</i> , 2008, 6, 897-913.	4.1	170
38	Plastid Biotechnology: Food, Fuel, and Medicine for the 21st Century. <i>Plant Physiology</i> , 2011, 155, 1501-1510.	2.3	169
39	Structure, function, and inheritance of plastid genomes. <i>Topics in Current Genetics</i> , 2007, , 29-63.	0.7	168
40	Global Analysis of the Role of Autophagy in Cellular Metabolism and Energy Homeostasis in Arabidopsis Seedlings under Carbon Starvation. <i>Plant Cell</i> , 2015, 27, 306-322.	3.1	166
41	Identification of small non-coding RNAs from mitochondria and chloroplasts. <i>Nucleic Acids Research</i> , 2006, 34, 3842-3852.	6.5	161
42	Sequence of the Tomato Chloroplast DNA and Evolutionary Comparison of Solanaceous Plastid Genomes. <i>Journal of Molecular Evolution</i> , 2006, 63, 194-207.	0.8	154
43	Lighting the Way to Protein-Protein Interactions: Recommendations on Best Practices for Bimolecular Fluorescence Complementation Analyses. <i>Plant Cell</i> , 2016, 28, 1002-1008.	3.1	151
44	Tomato Fruit Photosynthesis Is Seemingly Unimportant in Primary Metabolism and Ripening But Plays a Considerable Role in Seed Development. <i>Plant Physiology</i> , 2011, 157, 1650-1663.	2.3	150
45	A new synthetic biology approach allows transfer of an entire metabolic pathway from a medicinal plant to a biomass crop. <i>ELife</i> , 2016, 5, .	2.8	148
46	Horizontal genome transfer as an asexual path to the formation of new species. <i>Nature</i> , 2014, 511, 232-235.	13.7	146
47	Targeted Inactivation of a Tobacco Intron-containing Open Reading Frame Reveals a Novel Chloroplast-encoded Photosystem-related Gene. <i>Journal of Cell Biology</i> , 1997, 139, 95-102.	2.3	145
48	Tuning a ménage à trois: Coevolution and coadaptation of nuclear and organellar genomes in plants. <i>BioEssays</i> , 2013, 35, 354-365.	1.2	141
49	Unraveling the Evolution of Auxin Signaling. <i>Plant Physiology</i> , 2011, 155, 209-221.	2.3	140
50	Taming plastids for a green future. <i>Trends in Biotechnology</i> , 2004, 22, 311-318.	4.9	134
51	Superwobbling facilitates translation with reduced tRNA sets. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 192-198.	3.6	134
52	Nonessential Plastid-Encoded Ribosomal Proteins in Tobacco: A Developmental Role for Plastid Translation and Implications for Reductive Genome Evolution. <i>Plant Cell</i> , 2011, 23, 3137-3155.	3.1	130
53	Inducible gene expression from the plastid genome by a synthetic riboswitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6204-6209.	3.3	129
54	Generation of virus-resistant potato plants by scpRNA genome targeting. <i>Plant Biotechnology Journal</i> , 2019, 17, 1814-1822.	4.1	129

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55	Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 2310-2350.	3.1	123
56	Auxin signaling in algal lineages: fact or myth?. <i>Trends in Plant Science</i> , 2009, 14, 182-188.	4.3	121
57	Engineering of high-precision base editors for site-specific single nucleotide replacement. <i>Nature Communications</i> , 2019, 10, 439.	5.8	119
58	The plastid-specific ribosomal proteins of <i>Arabidopsis thaliana</i> can be divided into non-essential proteins and genuine ribosomal proteins. <i>Plant Journal</i> , 2012, 69, 302-316.	2.8	114
59	A codon-optimized luciferase from <i>Gussia princeps</i> facilitates the in vivo monitoring of gene expression in the model alga <i>Chlamydomonas reinhardtii</i> . <i>Current Genetics</i> , 2008, 53, 381-388.	0.8	113
60	Dissecting the contributions of GC content and codon usage to gene expression in the model alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2015, 84, 704-717.	2.8	113
61	Complete Mitochondrial Complex I Deficiency Induces an Up-Regulation of Respiratory Fluxes That Is Abolished by Traces of Functional Complex I. <i>Plant Physiology</i> , 2015, 168, 1537-1549.	2.3	113
62	Genetic engineering of the chloroplast: novel tools and new applications. <i>Current Opinion in Biotechnology</i> , 2014, 26, 7-13.	3.3	111
63	Local Absence of Secondary Structure Permits Translation of mRNAs that Lack Ribosome-Binding Sites. <i>PLoS Genetics</i> , 2011, 7, e1002155.	1.5	109
64	Control of retrograde signalling by protein import and cytosolic folding stress. <i>Nature Plants</i> , 2019, 5, 525-538.	4.7	109
65	Plastid protein synthesis is required for plant development in tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15730-15735.	3.3	108
66	Solar-powered factories for new vaccines and antibiotics. <i>Trends in Biotechnology</i> , 2010, 28, 246-252.	4.9	103
67	Plastid production of protein antibiotics against pneumonia via a new strategy for high-level expression of antimicrobial proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6579-6584.	3.3	100
68	Identification of a plastid intercistronic expression element (IEE) facilitating the expression of stable translatable monocistronic mRNAs from operons. <i>Plant Journal</i> , 2007, 52, 961-972.	2.8	99
69	Tissue- and stage-specific modulation of RNA editing of the psbF and psbL transcript from spinach plastids – a new regulatory mechanism?. <i>Molecular Genetics and Genomics</i> , 1993, 240, 238-244.	2.4	97
70	Deficiency in Phylloquinone (Vitamin K1) Methylation Affects Prenyl Quinone Distribution, Photosystem I Abundance, and Anthocyanin Accumulation in the <i>Arabidopsis AtmenG</i> Mutant. <i>Journal of Biological Chemistry</i> , 2006, 281, 40461-40472.	1.6	97
71	Experimental Reconstruction of Functional Gene Transfer from the Tobacco Plastid Genome to the Nucleus. <i>Plant Cell</i> , 2006, 18, 2869-2878.	3.1	96
72	Identification of protein stability determinants in chloroplasts. <i>Plant Journal</i> , 2010, 63, 636-650.	2.8	96

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73	Synthetic biology in plastids. <i>Plant Journal</i> , 2014, 78, 783-798.	2.8	96
74	Design of simple synthetic RNA thermometers for temperature-controlled gene expression in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2008, 36, e124-e124.	6.5	94
75	Genome-Wide Analysis of Plastid Gene Expression in Potato Leaf Chloroplasts and Tuber Amyloplasts: Transcriptional and Posttranscriptional Control. <i>Plant Physiology</i> , 2009, 150, 2030-2044.	2.3	91
76	The Contributions of Wobbling and Superwobbling to the Reading of the Genetic Code. <i>PLoS Genetics</i> , 2012, 8, e1003076.	1.5	90
77	l-Galactono-1,4-lactone dehydrogenase is an assembly factor of the membrane arm of mitochondrial complex I in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2016, 90, 117-126.	2.0	88
78	Strategies for metabolic pathway engineering with multiple transgenes. <i>Plant Molecular Biology</i> , 2013, 83, 21-31.	2.0	84
79	The assembly pathway of complex I in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 97, 447-459.	2.8	84
80	Efficient expression of nuclear transgenes in the green alga <i>Chlamydomonas</i> : synthesis of an HIV antigen and development of a new selectable marker. <i>Plant Molecular Biology</i> , 2016, 90, 403-418.	2.0	83
81	Different carotenoid conformations have distinct functions in light-harvesting regulation in plants. <i>Nature Communications</i> , 2017, 8, 1994.	5.8	83
82	Photosystem I: Its biogenesis and function in higher plants. <i>Journal of Plant Physiology</i> , 2011, 168, 1452-1461.	1.6	82
83	A Mediator of Singlet Oxygen Responses in <i>Chlamydomonas reinhardtii</i> and <i>Arabidopsis</i> Identified by a Luciferase-Based Genetic Screen in Algal Cells. <i>Plant Cell</i> , 2013, 25, 4209-4226.	3.1	82
84	Knockout of the plastid RNase E leads to defective RNA processing and chloroplast ribosome deficiency. <i>Plant Journal</i> , 2010, 64, 851-863.	2.8	80
85	High-level expression of a suite of thermostable cell wall-degrading enzymes from the chloroplast genome. <i>Plant Molecular Biology</i> , 2011, 76, 311-321.	2.0	80
86	Chloroplast Signaling Gates Thermotolerance in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2018, 22, 1657-1665.	2.9	80
87	The Plastid Genome-Encoded Ycf4 Protein Functions as a Nonessential Assembly Factor for Photosystem I in Higher Plants. <i>Plant Physiology</i> , 2012, 159, 579-591.	2.3	79
88	A Small Chloroplast-Encoded Protein as a Novel Architectural Component of the Light-Harvesting Antenna. <i>Journal of Cell Biology</i> , 2000, 149, 369-378.	2.3	78
89	Evidence That Cytochrome b559 Mediates the Oxidation of Reduced Plastoquinone in the Dark. <i>Journal of Biological Chemistry</i> , 2003, 278, 13554-13560.	1.6	77
90	METHYLENE BLUE SENSITIVITY 1 (MBS1) is required for acclimation of <i>Arabidopsis</i> to singlet oxygen and acts downstream of cyclocitral. <i>Plant, Cell and Environment</i> , 2017, 40, 216-226.	2.8	76

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91	Plastid transformation of high-biomass tobacco variety Maryland Mammoth for production of human immunodeficiency virus type 1 (HIV-1) p24 antigen. <i>Plant Biotechnology Journal</i> , 2008, 6, 914-929.	4.1	73
92	Plastid transformation and its application in metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2018, 49, 10-15.	3.3	73
93	Y3IP1, a Nucleus-Encoded Thylakoid Protein, Cooperates with the Plastid-Encoded Ycf3 Protein in Photosystem I Assembly of Tobacco and <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 2838-2855.	3.1	72
94	Control of Retrograde Signaling by Rapid Turnover of GENOMES UNCOUPLED1. <i>Plant Physiology</i> , 2018, 176, 2472-2495.	2.3	71
95	Witnessing Genome Evolution: Experimental Reconstruction of Endosymbiotic and Horizontal Gene Transfer. <i>Annual Review of Genetics</i> , 2017, 51, 1-22.	3.2	69
96	Knock-out of the Plastid-encoded PetL Subunit Results in Reduced Stability and Accelerated Leaf Age-dependent Loss of the Cytochrome b6f Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 976-985.	1.6	66
97	Alteration of mitochondrial protein complexes in relation to metabolic regulation under short-term oxidative stress in <i>Arabidopsis</i> seedlings. <i>Phytochemistry</i> , 2011, 72, 1081-1091.	1.4	66
98	Chloroplast DNA in Mature and Senescing Leaves: A Reappraisal. <i>Plant Cell</i> , 2014, 26, 847-854.	3.1	65
99	High-efficiency generation of fertile transplastomic <i>Arabidopsis</i> plants. <i>Nature Plants</i> , 2019, 5, 282-289.	4.7	65
100	Horizontal Transfer of a Synthetic Metabolic Pathway between Plant Species. <i>Current Biology</i> , 2017, 27, 3034-3041.e3.	1.8	62
101	Absence of Complex I Is Associated with Diminished Respiratory Chain Function in European Mistletoe. <i>Current Biology</i> , 2018, 28, 1614-1619.e3.	1.8	62
102	Lack of the Small Plastid-encoded PsbJ Polypeptide Results in a Defective Water-splitting Apparatus of Photosystem II, Reduced Photosystem I Levels, and Hypersensitivity to Light. <i>Journal of Biological Chemistry</i> , 2002, 277, 14031-14039.	1.6	61
103	Chloramphenicol acetyltransferase as selectable marker for plastid transformation. <i>Plant Molecular Biology</i> , 2011, 76, 443-451.	2.0	60
104	Identification of cis-elements conferring high levels of gene expression in non-green plastids. <i>Plant Journal</i> , 2012, 72, 115-128.	2.8	60
105	A leaf-based regeneration and transformation system for maize ( <i>Zea mays</i> L.). <i>Transgenic Research</i> , 2007, 16, 437-448.	1.3	59
106	An epigenetic gene silencing pathway selectively acting on transgenic DNA in the green alga <i>Chlamydomonas</i> . <i>Nature Communications</i> , 2020, 11, 6269.	5.8	58
107	The plastome-encoded PsaJ subunit is required for efficient Photosystem I excitation, but not for plastocyanin oxidation in tobacco. <i>Biochemical Journal</i> , 2007, 403, 251-260.	1.7	57
108	Optimization of the expression of the HIV fusion inhibitor cyanovirin-N from the tobacco plastid genome. <i>Plant Biotechnology Journal</i> , 2011, 9, 599-608.	4.1	57

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109	Selection of Shine-Dalgarno sequences in plastids. <i>Nucleic Acids Research</i> , 2011, 39, 1427-1438.	6.5	57
110	Transfer of the cytochrome P450-dependent dhurrin pathway from <i>Sorghum bicolor</i> into <i>Nicotiana tabacum</i> chloroplasts for light-driven synthesis. <i>Journal of Experimental Botany</i> , 2016, 67, 2495-2506.	2.4	57
111	Temperature sensitivity of RNA editing and intron splicing reactions in the plastid <i>ndhB</i> transcript. <i>Current Genetics</i> , 2002, 41, 48-52.	0.8	55
112	Design of chimeric expression elements that confer high-level gene activity in chromoplasts. <i>Plant Journal</i> , 2013, 73, 368-379.	2.8	53
113	Boosting riboswitch efficiency by RNA amplification. <i>Nucleic Acids Research</i> , 2015, 43, e66-e66.	6.5	53
114	GUN control in retrograde signaling: How GENOMES UNCOUPLED proteins adjust nuclear gene expression to plastid biogenesis. <i>Plant Cell</i> , 2021, 33, 457-474.	3.1	53
115	Rapid evolution of RNA editing sites in a small non-essential plastid gene. <i>Nucleic Acids Research</i> , 2004, 32, 3615-3622.	6.5	52
116	Constancy of organellar genome copy numbers during leaf development and senescence in higher plants. <i>Molecular Genetics and Genomics</i> , 2006, 275, 185-192.	1.0	52
117	Expanding the genome-targeting scope and the site selectivity of high-precision base editors. <i>Nature Communications</i> , 2020, 11, 629.	5.8	52
118	Highly Resolved Systems Biology to Dissect the Etioplast-to-Chloroplast Transition in Tobacco Leaves. <i>Plant Physiology</i> , 2019, 180, 654-681.	2.3	51
119	Evolutionary constraints on the plastid tRNA set decoding methionine and isoleucine. <i>Nucleic Acids Research</i> , 2012, 40, 6713-6724.	6.5	50
120	LCAA, a Novel Factor Required for Magnesium Protoporphyrin Monomethylester Cyclase Accumulation and Feedback Control of Aminolevulinic Acid Biosynthesis in Tobacco. <i>Plant Physiology</i> , 2012, 160, 1923-1939.	2.3	50
121	Identification of Enzymes for Adenosine-to-Inosine Editing and Discovery of Cytidine-to-Uridine Editing in Nucleus-Encoded Transfer RNAs of Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 1985-1997.	2.3	49
122	The Conserved Endoribonuclease YbeY Is Required for Chloroplast Ribosomal RNA Processing in Arabidopsis. <i>Plant Physiology</i> , 2015, 168, 205-221.	2.3	49
123	Spontaneous Chloroplast Mutants Mostly Occur by Replication Slippage and Show a Biased Pattern in the Plastome of <i>Oenothera</i> . <i>Plant Cell</i> , 2016, 28, 911-929.	3.1	49
124	The Amino Acid Sequence of a Plastid Protein Is Developmentally Regulated by RNA Editing. <i>Journal of Biological Chemistry</i> , 2002, 277, 5570-5574.	1.6	48
125	RBF1, a Plant Homolog of the Bacterial Ribosome-Binding Factor RbfA, Acts in Processing of the Chloroplast 16S Ribosomal RNA. <i>Plant Physiology</i> , 2014, 164, 201-215.	2.3	48
126	Length-dependent accumulation of double-stranded RNAs in plastids affects RNA interference efficiency in the Colorado potato beetle. <i>Journal of Experimental Botany</i> , 2020, 71, 2670-2677.	2.4	48



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127	Regulation of ascorbate biosynthesis in green algae has evolved to enable rapid stress-induced response via the <i>VTC2</i> gene encoding GDP-l-galactose phosphorylase. <i>New Phytologist</i> , 2017, 214, 668-681.	3.5	47
128	The vacuolar calcium sensors <i>CBL2</i> and <i>CBL3</i> affect seed size and embryonic development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 78, 146-156.	2.8	46
129	Surprising features of plastid ndhD transcripts: addition of non-encoded nucleotides and polysome association of mRNAs with an unedited start codon. <i>Nucleic Acids Research</i> , 2004, 32, 542-550.	6.5	45
130	Recent Advances and Current Challenges in Synthetic Biology of the Plastid Genetic System and Metabolism. <i>Plant Physiology</i> , 2019, 179, 794-802.	2.3	45
131	Contributions of the international plant science community to the fight against human infectious diseases – part 1: epidemic and pandemic diseases. <i>Plant Biotechnology Journal</i> , 2021, 19, 1901-1920.	4.1	44
132	Dual targeting of a mature plastoglobulin/fibrillin fusion protein to chloroplast plastoglobules and thylakoids in transplastomic tobacco plants. <i>Plant Molecular Biology</i> , 2013, 81, 13-25.	2.0	43
133	Chloroplast nucleoids are highly dynamic in ploidy, number, and structure during angiosperm leaf development. <i>Plant Journal</i> , 2020, 102, 730-746.	2.8	43
134	Identification of the chloroplast adenosine-to-inosine tRNA editing enzyme. <i>Rna</i> , 2009, 15, 1251-1257.	1.6	42
135	Transcriptome and metabolome analyses provide insights into root and root-released organic anion responses to phosphorus deficiency in oat. <i>Journal of Experimental Botany</i> , 2018, 69, 3759-3771.	2.4	42
136	Horizontal genome transfer by cell-to-cell travel of whole organelles. <i>Science Advances</i> , 2021, 7, .	4.7	42
137	Inducible Repression of Nuclear-Encoded Subunits of the Cytochrome b6f Complex in Tobacco Reveals an Extraordinarily Long Lifetime of the Complex. <i>Plant Physiology</i> , 2014, 165, 1632-1646.	2.3	41
138	Lettuce-produced hepatitis C virus E1E2 heterodimer triggers immune responses in mice and antibody production after oral vaccination. <i>Plant Biotechnology Journal</i> , 2017, 15, 1611-1621.	4.1	41
139	A highly efficient sulfadiazine selection system for the generation of transgenic plants and algae. <i>Plant Biotechnology Journal</i> , 2019, 17, 638-649.	4.1	41
140	The <i>Chlamydomonas</i> Chloroplast HLP Protein Is Required for Nucleoid Organization and Genome Maintenance. <i>Molecular Plant</i> , 2009, 2, 1223-1232.	3.9	40
141	Shine-Dalgarno Sequences Play an Essential Role in the Translation of Plastid mRNAs in Tobacco. <i>Plant Cell</i> , 2017, 29, 3085-3101.	3.1	40
142	Stabilization and translation of synthetic operon-derived mRNAs in chloroplasts by sequences representing PPR protein-binding sites. <i>Plant Journal</i> , 2018, 94, 8-21.	2.8	40
143	In vivo testing of a tobacco plastid DNA segment for guide RNA function in psbL editing. <i>Molecular Genetics and Genomics</i> , 1995, 247, 439-443.	2.4	39
144	Chloroplast competition is controlled by lipid biosynthesis in evening primroses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5665-5674.	3.3	39

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145	Expression of a carotenogenic gene allows faster biomass production by redesigning plant architecture and improving photosynthetic efficiency in tobacco. <i>Plant Journal</i> , 2020, 103, 1967-1984.	2.8	39
146	Immunogenicity of chloroplast-derived HIV-1 p24 and a p24-Nef fusion protein following subcutaneous and oral administration in mice. <i>Plant Biotechnology Journal</i> , 2011, 9, 629-638.	4.1	38
147	Genetic Transformation of the Model Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Methods in Molecular Biology</i> , 2012, 847, 35-47.	0.4	38
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