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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202 papers	12,332 citations	63 h-index	102 g-index
208 ext. papers	13,305 ext. citations	5.8 avg, IF	6.02 L-index

#	Paper	IF	Citations
202	Experimental analysis of the Arabidopsis mitochondrial proteome highlights signaling and regulatory components, provides assessment of targeting prediction programs, and indicates plant-specific mitochondrial proteins. <i>Plant Cell</i> , 2004 , 16, 241-56	11.6	461
201	Organization and regulation of mitochondrial respiration in plants. <i>Annual Review of Plant Biology</i> , 2011 , 62, 79-104	30.7	434
200	The impact of oxidative stress on Arabidopsis mitochondria. <i>Plant Journal</i> , 2002 , 32, 891-904	6.9	420
199	METABOLITE TRANSPORT ACROSS SYMBIOTIC MEMBRANES OF LEGUME NODULES. <i>Annual Review of Plant Biology</i> , 1997 , 48, 493-523		299
198	Regulation of the soybean-Rhizobium nodule symbiosis by shoot and root factors. <i>Plant Physiology</i> , 1986 , 82, 588-90	6.6	283
197	Stress-induced co-expression of alternative respiratory chain components in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2005 , 58, 193-212	4.6	253
196	Salicylic acid is an uncoupler and inhibitor of mitochondrial electron transport. <i>Plant Physiology</i> , 2004 , 134, 492-501	6.6	222
195	Effects of water stress on respiration in soybean leaves. <i>Plant Physiology</i> , 2005 , 139, 466-73	6.6	221
194	Organic acid activation of the alternative oxidase of plant mitochondria. <i>FEBS Letters</i> , 1993 , 329, 259-62	3.8	216
193	Differential impact of environmental stresses on the pea mitochondrial proteome. <i>Molecular and Cellular Proteomics</i> , 2005 , 4, 1122-33	7.6	214
192	Mitochondrial permeability transition induced by dinuclear gold(I)-carbene complexes: potential new antimitochondrial antitumour agents. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1642-7	4.2	202
191	Alternative Oxidase Activity in Tobacco Leaf Mitochondria (Dependence on Tricarboxylic Acid Cycle-Mediated Redox Regulation and Pyruvate Activation). <i>Plant Physiology</i> , 1995 , 109, 353-361	6.6	194
190	Effect of photosynthesis and carbohydrate status on respiratory rates and the involvement of the alternative pathway in leaf respiration. <i>Plant Physiology</i> , 1983 , 72, 598-603	6.6	190
189	Nitric oxide inhibits the cytochrome oxidase but not the alternative oxidase of plant mitochondria. <i>FEBS Letters</i> , 1996 , 398, 155-8	3.8	187
188	Molecular distinction between alternative oxidase from monocots and dicots. <i>Plant Physiology</i> , 2002 , 129, 949-53	6.6	170
187	Environmental stress causes oxidative damage to plant mitochondria leading to inhibition of glycine decarboxylase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42663-8	5.4	155
186	A channel-like transporter for NH ₄ ⁺ on the symbiotic interface of N ₂ -fixing plants. <i>Nature</i> , 1995 , 378, 629-632	50.4	153

185	Lipoic acid-dependent oxidative catabolism of alpha-keto acids in mitochondria provides evidence for branched-chain amino acid catabolism in Arabidopsis. <i>Plant Physiology</i> , 2004 , 134, 838-48	6.6	146
184	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020 , 225, 1072-1090	9.8	144
183	The soybean NRAMP homologue, GmDMT1, is a symbiotic divalent metal transporter capable of ferrous iron transport. <i>Plant Journal</i> , 2003 , 35, 295-304	6.9	138
182	Biochemical Characterization of Chlorophyll-Free Mitochondria From Pea Leaves. <i>Functional Plant Biology</i> , 1985 , 12, 219	2.7	133
181	Developmental physiology of cluster-root carboxylate synthesis and exudation in harsh hakea. Expression of phosphoenolpyruvate carboxylase and the alternative oxidase. <i>Plant Physiology</i> , 2004 , 135, 549-60	6.6	132
180	Regulation of alternative pathway activity in plant mitochondria: nonlinear relationship between electron flux and the redox poise of the quinone pool. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 273, 148-57	4.1	131
179	The Cyanide-Resistant Oxidase: To Inhibit or Not to Inhibit, That Is the Question. <i>Plant Physiology</i> , 1996 , 110, 1-2	6.6	129
178	Differential expression of the multigene family encoding the soybean mitochondrial alternative oxidase. <i>Plant Physiology</i> , 1997 , 114, 455-66	6.6	127
177	Analysis of respiratory chain regulation in roots of soybean seedlings. <i>Plant Physiology</i> , 1998 , 117, 1083-86	6.3	125
176	GmZIP1 encodes a symbiosis-specific zinc transporter in soybean. <i>Journal of Biological Chemistry</i> , 2002 , 277, 4738-46	5.4	123
175	A dicarboxylate transporter on the peribacteroid membrane of soybean nodules. <i>FEBS Letters</i> , 1988 , 231, 36-40	3.8	122
174	Cytochrome and alternative respiratory pathways compete for electrons in the presence of pyruvate in soybean mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 318, 394-400	4.1	114
173	Characterization of mitochondrial alternative NAD(P)H dehydrogenases in Arabidopsis: intraorganelle location and expression. <i>Plant and Cell Physiology</i> , 2006 , 47, 43-54	4.9	112
172	Iron: an essential micronutrient for the legume-rhizobium symbiosis. <i>Frontiers in Plant Science</i> , 2013 , 4, 359	6.2	110
171	Mechanism of soybean nodule adaptation to different oxygen pressures. <i>Plant, Cell and Environment</i> , 1990 , 13, 501-512	8.4	98
170	Cyanide-resistant respiration in roots and leaves. Measurements with intact tissues and isolated mitochondria. <i>Physiologia Plantarum</i> , 1983 , 58, 148-154	4.6	97
169	Dynamic changes in the mitochondrial electron transport chain underpinning cold acclimation of leaf respiration. <i>Plant, Cell and Environment</i> , 2008 , 31, 1156-69	8.4	96
168	Specificity of the Organic Acid Activation of Alternative Oxidase in Plant Mitochondria. <i>Plant Physiology</i> , 1996 , 111, 613-618	6.6	96

167	Cyclin-dependent kinase E1 (CDKE1) provides a cellular switch in plants between growth and stress responses. <i>Journal of Biological Chemistry</i> , 2013 , 288, 3449-59	5.4	95
166	Analysis of the alternative oxidase promoters from soybean. <i>Plant Physiology</i> , 2003 , 133, 1158-69	6.6	95
165	Ammonia and amino acid transport across symbiotic membranes in nitrogen-fixing legume nodules. <i>Cellular and Molecular Life Sciences</i> , 2001 , 58, 61-71	10.3	91
164	Regulation of alternative oxidase activity in higher plants. <i>Journal of Bioenergetics and Biomembranes</i> , 1995 , 27, 379-85	3.7	87
163	Growth comparisons of a supernodulating soybean (Glycine max) mutant and its wild-type parent. <i>Physiologia Plantarum</i> , 1986 , 68, 375-382	4.6	85
162	Complex I dysfunction redirects cellular and mitochondrial metabolism in Arabidopsis. <i>Plant Physiology</i> , 2008 , 148, 1324-41	6.6	82
161	Type II NAD(P)H dehydrogenases are targeted to mitochondria and chloroplasts or peroxisomes in Arabidopsis thaliana. <i>FEBS Letters</i> , 2008 , 582, 3073-9	3.8	81
160	Regulation of Alternative Oxidase Activity by Pyruvate in Soybean Mitochondria. <i>Plant Physiology</i> , 1994 , 106, 1421-1427	6.6	81
159	Electrogenic ATPase Activity on the Peribacteroid Membrane of Soybean (Glycine max L.) Root Nodules. <i>Plant Physiology</i> , 1989 , 90, 982-7	6.6	81
158	Pyruvate and malate transport and oxidation in corn mitochondria. <i>Plant Physiology</i> , 1977 , 59, 630-5	6.6	81
157	Regulation of alternative oxidase gene expression in soybean. <i>Plant Molecular Biology</i> , 2002 , 50, 735-42	4.6	79
156	Alternative Oxidase Is Positive for Plant Performance. <i>Trends in Plant Science</i> , 2018 , 23, 588-597	13.1	77
155	The peribacteroid membrane. <i>Physiologia Plantarum</i> , 1997 , 100, 30-44	4.6	77
154	Targets of stress-induced oxidative damage in plant mitochondria and their impact on cell carbon/nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2004 , 55, 1-10	7	77
153	Regulation of the Alternative Oxidase in Plants and Fungi.. <i>Functional Plant Biology</i> , 1995 , 22, 497	2.7	77
152	The oxidation of malate and exogenous reduced nicotinamide adenine dinucleotide by isolated plant mitochondria. <i>Plant Physiology</i> , 1974 , 53, 104-9	6.6	77
151	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , 2005 , 28, 760-771	8.4	73
150	The alternative oxidase is encoded in a multigene family in soybean. <i>Planta</i> , 1996 , 198, 197-201	4.7	70

149	A tomato alternative oxidase protein with altered regulatory properties. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003 , 1606, 153-62	4.6	69
148	The Cytotoxic lipid peroxidation product 4-hydroxy-2-nonenal covalently modifies a selective range of proteins linked to respiratory function in plant mitochondria. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37436-47	5.4	68
147	Catabolism of alpha-ketoglutarate by a sucA mutant of Bradyrhizobium japonicum: evidence for an alternative tricarboxylic acid cycle. <i>Journal of Bacteriology</i> , 2000 , 182, 2838-44	3.5	65
146	The regulation of glycolysis and electron transport in roots. <i>Physiologia Plantarum</i> , 1983 , 58, 155-166	4.6	65
145	Transport processes of the legume symbiosome membrane. <i>Frontiers in Plant Science</i> , 2014 , 5, 699	6.2	63
144	Sensitivity of plant mitochondrial terminal oxidases to the lipid peroxidation product 4-hydroxy-2-nonenal (HNE). <i>Biochemical Journal</i> , 2005 , 387, 865-70	3.8	63
143	Characterization of an ammonium transport protein from the peribacteroid membrane of soybean nodules. <i>Science</i> , 1998 , 281, 1202-6	33.3	63
142	Differential expression of alternative oxidase genes in soybean cotyledons during postgerminative development. <i>Plant Physiology</i> , 1998 , 118, 675-82	6.6	63
141	Tissue-specific expression of the alternative oxidase in soybean and siratro. <i>Plant Physiology</i> , 1992 , 99, 712-7	6.6	63
140	Hydroxamate-Stimulated O(2) Uptake in Roots of Pisum sativum and Zea mays, Mediated by a Peroxidase : Its Consequences for Respiration Measurements. <i>Plant Physiology</i> , 1986 , 82, 236-40	6.6	63
139	Iron Uptake by Symbiosomes from Soybean Root Nodules. <i>Plant Physiology</i> , 1996 , 111, 893-900	6.6	61
138	Protein phosphorylation stimulates the rate of malate uptake across the peribacteroid membrane of soybean nodules. <i>FEBS Letters</i> , 1991 , 293, 188-90	3.8	60
137	Relationship between autoregulation and nitrate inhibition of nodulation in soybeans. <i>Physiologia Plantarum</i> , 1989 , 75, 37-42	4.6	59
136	Glycine metabolism and oxalacetate transport by pea leaf mitochondria. <i>Plant Physiology</i> , 1981 , 68, 425-8.6	6.6	59
135	Siderophore-bound iron in the peribacteroid space of soybean root nodules. <i>Plant and Soil</i> , 1996 , 178, 161-169	4.2	58
134	Effect of respiratory homeostasis on plant growth in cultivars of wheat and rice. <i>Plant, Cell and Environment</i> , 2004 , 27, 853-862	8.4	57
133	Regulation of Respiration in the Leaves and Roots of Two Lolium perenne Populations with Contrasting Mature Leaf Respiration Rates and Crop Yields. <i>Plant Physiology</i> , 1985 , 78, 678-83	6.6	56
132	Proteomic analysis of the soybean symbiosome identifies new symbiotic proteins. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 1301-22	7.6	55

131	Soybean SAT1 (Symbiotic Ammonium Transporter 1) encodes a bHLH transcription factor involved in nodule growth and NH ₄ ⁺ transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4814-9	11.5	54
130	Rapid Isolation of Intact Peribacteroid Envelopes from Soybean Nodules and Demonstration of Selective Permeability to Metabolites. <i>Journal of Plant Physiology</i> , 1987 , 130, 157-164	3.6	54
129	Localization of H(+)-ATPases in soybean root nodules. <i>Planta</i> , 1999 , 209, 25-32	4.7	52
128	Isolation and properties of the outer membrane of plant mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1975 , 171, 117-23	4.1	52
127	Alternative Oxidase Isoforms Are Differentially Activated by Tricarboxylic Acid Cycle Intermediates. <i>Plant Physiology</i> , 2018 , 176, 1423-1432	6.6	52
126	Identification of AtNDI1, an internal non-phosphorylating NAD(P)H dehydrogenase in Arabidopsis mitochondria. <i>Plant Physiology</i> , 2003 , 133, 1968-78	6.6	51
125	Proteomic identification of divalent metal cation binding proteins in plant mitochondria. <i>FEBS Letters</i> , 2003 , 537, 96-100	3.8	50
124	Regulation of Alternative Pathway Activity in Plant Mitochondria : Deviations from Q-Pool Behavior during Oxidation of NADH and Quinols. <i>Plant Physiology</i> , 1991 , 95, 948-53	6.6	50
123	Proteomic analysis on symbiotic differentiation of mitochondria in soybean nodules. <i>Plant and Cell Physiology</i> , 2004 , 45, 300-8	4.9	49
122	Studies on the import and processing of the alternative oxidase precursor by isolated soybean mitochondria. <i>Plant Molecular Biology</i> , 1995 , 27, 769-78	4.6	49
121	Cloning of an additional cDNA for the alternative oxidase in tobacco. <i>Plant Physiology</i> , 1995 , 107, 1469-70	6.6	49
120	Sugar and Amino Acid Transport Across Symbiotic Membranes from Soybean Nodules. <i>Molecular Plant-Microbe Interactions</i> , 1990 , 3, 334	3.6	49
119	Alternative solutions to radical problems. <i>Trends in Plant Science</i> , 1997 , 2, 288-290	13.1	48
118	Identification of intra- and intermolecular disulphide bonding in the plant mitochondrial proteome by diagonal gel electrophoresis. <i>Proteomics</i> , 2007 , 7, 4158-70	4.8	48
117	Microaerobic respiration and oxidative phosphorylation by soybean nodule mitochondria: implications for nitrogen fixation. <i>Plant, Cell and Environment</i> , 1995 , 18, 715-726	8.4	47
116	Sequencing of a soybean alternative oxidase cDNA clone. <i>Plant Physiology</i> , 1993 , 103, 1481	6.6	47
115	Cell-to-cell transport via the lumen of the endoplasmic reticulum. <i>Plant Journal</i> , 2011 , 66, 806-17	6.9	45
114	Malate Decarboxylation by Kalanchoë daigremontiana Mitochondria and Its Role in Crassulacean Acid Metabolism. <i>Plant Physiology</i> , 1980 , 65, 675-9	6.6	44

113	Investigations of the role of the main light-harvesting chlorophyll-protein complex in thylakoid membranes. Reconstitution of depleted membranes from intermittent-light-grown plants with the isolated complex. <i>Journal of Cell Biology</i> , 1984 , 98, 163-72	7.3	43
112	Transport of 3-phosphoglyceric acid, phosphoenolpyruvate, and inorganic phosphate in maize mesophyll chloroplasts,, and the effect of 3-phosphoglyceric acid on malate and phosphoenolpyruvate production. <i>Archives of Biochemistry and Biophysics</i> , 1981 , 211, 743-9	4.1	43
111	Effect of ethylene and carbon dioxide on potato metabolism: stimulation of tuber and mitochondrial respiration, and inducement of the alternative path. <i>Plant Physiology</i> , 1978 , 62, 820-5	6.6	43
110	Membrane Interface of the Bradyrhizobium japonicum - Glycine max Symbiosis: Peribacteroid Units From Soyabean Nodules. <i>Functional Plant Biology</i> , 1989 , 16, 69	2.7	42
109	Specificity and regulation of the dicarboxylate carrier on the peribacteroid membrane of soybean nodules. <i>Planta</i> , 1990 , 182, 437-44	4.7	42
108	Maintenance of growth rate at low temperature in rice and wheat cultivars with a high degree of respiratory homeostasis is associated with a high efficiency of respiratory ATP production. <i>Plant and Cell Physiology</i> , 2004 , 45, 1015-22	4.9	41
107	Environmental stresses inhibit and stimulate different protein import pathways in plant mitochondria. <i>FEBS Letters</i> , 2003 , 547, 125-30	3.8	41
106	A single amino acid change in the plant alternative oxidase alters the specificity of organic acid activation. <i>FEBS Letters</i> , 1999 , 454, 220-4	3.8	41
105	A critique of the use of inhibitors to estimate partitioning of electrons between mitochondrial respiratory pathways in plants. <i>Physiologia Plantarum</i> , 1995 , 95, 523-532	4.6	41
104	ATPase activity and anion transport across the peribacteroid membrane of isolated soybean symbiosomes. <i>Archives of Microbiology</i> , 1991 , 156, 362-366	3	41
103	Transport of coenzyme A in plant mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1984 , 229, 253-8	4.1	41
102	The absence of alternative oxidase AOX1A results in altered response of photosynthetic carbon assimilation to increasing CO(2) in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2012 , 53, 1627-37	4.9	40
101	Transport of NAD in Percoll-Purified Potato Tuber Mitochondria: Inhibition of NAD Influx and Efflux by N-4-Azido-2-nitrophenyl-4-aminobutyryl-3RNAD. <i>Plant Physiology</i> , 1985 , 78, 405-10	6.6	40
100	Characteristics of External NADH Oxidation by Beetroot Mitochondria. <i>Plant Physiology</i> , 1976 , 58, 38-42	6.6	40
99	Arabidopsis phospholipase D α s an initiator of cytoskeleton-mediated signalling to fundamental cellular processes. <i>Functional Plant Biology</i> , 2009 , 36, 190-198	2.7	39
98	Unraveling the role of mitochondria during oxidative stress in plants. <i>IUBMB Life</i> , 2001 , 51, 201-5	4.7	39
97	Activation of NAD-linked malic enzyme in intact plant mitochondria by exogenous coenzyme A. <i>Archives of Biochemistry and Biophysics</i> , 1984 , 231, 233-42	4.1	39
96	Induction of alternative oxidase synthesis by herbicides inhibiting branched-chain amino acid synthesis. <i>Plant Journal</i> , 1997 , 11, 649-657	6.9	38

95	Ferrous iron is transported across the peribacteroid membrane of soybean nodules. <i>Planta</i> , 1998 , 207, 83-87	4.7	38
94	Preferential oxidation of glycine by the respiratory chain of pea leaf mitochondria. <i>FEBS Letters</i> , 1983 , 158, 154-158	3.8	38
93	The Effect of Exogenous Nicotinamide Adenine Dinucleotide on the Oxidation of Nicotinamide Adenine Dinucleotide-linked Substrates by Isolated Plant Mitochondria. <i>Plant Physiology</i> , 1974 , 54, 360-366	6.6	38
92	Mitochondrial protein expression in tomato fruit during on-vine ripening and cold storage. <i>Functional Plant Biology</i> , 2002 , 29, 827-834	2.7	37
91	Ammonia (C-Methylamine) Transport across the Bacteroid and Peribacteroid Membranes of Soybean Root Nodules. <i>Plant Physiology</i> , 1990 , 94, 71-6	6.6	37
90	The regulation of respiration in the dark in wheat leaf slices. <i>Plant Science Letters</i> , 1983 , 32, 313-320		37
89	Evidence for Metabolic Domains within the Matrix Compartment of Pea Leaf Mitochondria : Implications for Photorespiratory Metabolism. <i>Plant Physiology</i> , 1990 , 93, 611-6	6.6	35
88	Enzymes of ammonia assimilation and ureide biosynthesis in soybean nodules: effect of nitrate. <i>Plant Physiology</i> , 1986 , 80, 646-50	6.6	34
87	Regulation of nonphosphorylating electron transport pathways in soybean cotyledon mitochondria and its implications for fat metabolism. <i>Plant Physiology</i> , 1988 , 86, 1199-204	6.6	34
86	Effect of phosphate and uncouplers on substrate transport and oxidation by isolated corn mitochondria. <i>Plant Physiology</i> , 1977 , 59, 139-44	6.6	34
85	On methods for the isolation of mitochondria from etiolated corn shoots. <i>Plant Science Letters</i> , 1978 , 11, 99-104		34
84	Alterations in the mitochondrial alternative NAD(P)H Dehydrogenase NDB4 lead to changes in mitochondrial electron transport chain composition, plant growth and response to oxidative stress. <i>Plant and Cell Physiology</i> , 2011 , 52, 1222-37	4.9	33
83	An alternative oxidase monoclonal antibody recognises a highly conserved sequence among alternative oxidase subunits. <i>FEBS Letters</i> , 1999 , 447, 21-4	3.8	33
82	Malate oxidation, rotenone-resistance, and alternative path activity in plant mitochondria. <i>Plant Physiology</i> , 1982 , 70, 959-64	6.6	33
81	Expression and kinetics of the mitochondrial alternative oxidase in nitrogen-fixing nodules of soybean roots. <i>Plant, Cell and Environment</i> , 1997 , 20, 1273-1282	8.4	32
80	Mitochondrial biogenesis and function in Arabidopsis. <i>The Arabidopsis Book</i> , 2008 , 6, e0111	3	32
79	Factors limiting respiration by isolated cauliflower mitochondria. <i>Phytochemistry</i> , 1977 , 16, 1499-1502	4	32
78	AtNDB2 Is the Main External NADH Dehydrogenase in Mitochondria and Is Important for Tolerance to Environmental Stress. <i>Plant Physiology</i> , 2019 , 181, 774-788	6.6	32

77	Effect of phthalonic acid on respiration and metabolite transport in higher plant mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1981 , 211, 100-7	4.1	31
76	Glycine transport by pea leaf mitochondria. <i>FEBS Letters</i> , 1980 , 112, 191-194	3.8	30
75	Interactions Between Glycine Decarboxylase, the Tricarboxylic Acid Cycle and the Respiratory Chain in Pea Leaf Mitochondria. <i>Functional Plant Biology</i> , 1985 , 12, 119	2.7	30
74	Characterization of the import pathway of the F(A)d subunit of mitochondrial ATP synthase into isolated plant mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 335, 358-68	4.1	28
73	Dicarboxylate transport in maize mesophyll chloroplasts. <i>Archives of Biochemistry and Biophysics</i> , 1981 , 211, 738-42	4.1	28
72	Isolation and oxidative properties of mitochondria and bacteroids from soybean root nodules. <i>Protoplasma</i> , 1986 , 134, 121-129	3.4	27
71	Photosynthetic performance and fertility are repressed in GmAOX2b antisense soybean. <i>Plant Physiology</i> , 2010 , 152, 1638-49	6.6	26
70	Purification and characterization of a 43-kDa rotenone-insensitive NADH dehydrogenase from plant mitochondria. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23117-20	5.4	26
69	Isolation of a novel soybean gene encoding a mitochondrial ATP synthase subunit. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 313, 235-40	4.1	26
68	Enzyme Distribution in Potato Mitochondria. <i>Journal of Experimental Botany</i> , 1979 , 30, 539-549	7	26
67	Reassessment of major products of N ₂ fixation by bacteroids from soybean root nodules. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 1959-1966	2.9	26
66	Alternative Respiratory Pathway Component Genes (AOX and ND) in Rice and Barley and Their Response to Stress. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	25
65	Cytoskeletal arrays in the cells of soybean root nodules: The role of actin microfilaments in the organisation of symbiosomes. <i>Protoplasma</i> , 1998 , 203, 194-205	3.4	25
64	Divalent cation gating of an ammonium permeable channel in the symbiotic membrane from soybean nodules. <i>Plant Journal</i> , 1998 , 16, 313-324	6.9	25
63	Evidence for a link between translocation and processing during protein import into soybean mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1996 , 1312, 48-54	4.9	25
62	A Comparison of the Respiratory Processes and Growth Rate of Selected Australian Alpine and Related Lowland Plant Species. <i>Functional Plant Biology</i> , 1990 , 17, 517	2.7	25
61	Suppression of the Symbiotic Supernodulation Symptoms of Soybean. <i>Journal of Plant Physiology</i> , 1988 , 132, 417-423	3.6	23
60	GmVTL1a is an iron transporter on the symbiosome membrane of soybean with an important role in nitrogen fixation. <i>New Phytologist</i> , 2020 , 228, 667-681	9.8	20

59	Cyanide-insensitive oxygen uptake and pyridine nucleotide dehydrogenases in the cyanobacterium <i>Anabaena</i> PCC 7120. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993 , 1141, 313-320	4.6	20
58	The effect of calcium on the respiratory responses of corn mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1978 , 502, 289-97	4.6	20
57	Pyridine nucleotide interactions with isolated plant mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1978 , 501, 396-404	4.6	20
56	Induction of alternative oxidase by excess copper in sycamore cell suspensions. <i>Plant Physiology and Biochemistry</i> , 1999 , 37, 131-137	5.4	19
55	Interactions between Irradiance Levels, Nodulation and Nitrogenase Activity of Soybean cv. Bragg and a Supernodulating Mutant. <i>Journal of Plant Physiology</i> , 1990 , 136, 172-179	3.6	19
54	Isolation and Properties of Functional Mesophyll Protoplasts and Chloroplasts From <i>Zea mays</i> . <i>Functional Plant Biology</i> , 1981 , 8, 21	2.7	18
53	A matrix-located processing peptidase of plant mitochondria. <i>Plant Molecular Biology</i> , 1998 , 36, 171-81	4.6	17
52	Identification and Characterization of an Inducible NAD(P)H Dehydrogenase from Red Beetroot Mitochondria. <i>Plant Physiology</i> , 1996 , 112, 607-613	6.6	17
51	Matrix NADH dehydrogenases of plant mitochondria and sites of quinone reduction by complex I. <i>FEBS Journal</i> , 1992 , 208, 481-5		16
50	Characterisation of Arabidopsis calnexin 1 and calnexin 2 in the endoplasmic reticulum and at plasmodesmata. <i>Protoplasma</i> , 2017 , 254, 125-136	3.4	15
49	Online oxygen kinetic isotope effects using membrane inlet mass spectrometry can differentiate between oxidases for mechanistic studies and calculation of their contributions to oxygen consumption in whole tissues. <i>Analytical Chemistry</i> , 2014 , 86, 5171-8	7.8	14
48	A GmAox2b antisense gene compromises vegetative growth and seed production in soybean. <i>Planta</i> , 2012 , 236, 199-207	4.7	14
47	Respiratory gene expression in soybean cotyledons during post-germinative development. <i>Plant Molecular Biology</i> , 2003 , 51, 745-55	4.6	14
46	Exogenous NAD Effects on Plant Mitochondria: A Reinvestigation of the Transhydrogenase Hypothesis. <i>Plant Physiology</i> , 1983 , 73, 1024-7	6.6	14
45	Respiratory Properties of Developing Bean and Pea Leaves. <i>Functional Plant Biology</i> , 1983 , 10, 237	2.7	14
44	Reflection across plant cell boundaries in confocal laser scanning microscopy. <i>Journal of Microscopy</i> , 2008 , 231, 349-57	1.9	13
43	Cloning of ndhK from soybean chloroplasts using antibodies raised to mitochondrial complex I. <i>Plant Molecular Biology</i> , 1992 , 20, 887-95	4.6	13
42	How is leghemoglobin involved in peribacteroid membrane degradation during nodule senescence?. <i>FEBS Letters</i> , 1993 , 326, 33-8	3.8	13

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