

# Fumihiko Sato

## List of Publications by Year in descending order

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238  
papers

10,018  
citations

28274

55  
h-index

48315

88  
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245  
all docs

245  
docs citations

245  
times ranked

7806  
citing authors

#	ARTICLE	IF	CITATIONS
1	PGP4, an ATP Binding Cassette P-Glycoprotein, Catalyzes Auxin Transport in Arabidopsis thaliana Roots. <i>Plant Cell</i> , 2005, 17, 2922-2939.	6.6	328
2	Microbial production of plant benzyloquinoline alkaloids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7393-7398.	7.1	307
3	Involvement of CjMDR1, a plant multidrug-resistance-type ATP-binding cassette protein, in alkaloid transport in <i>Coptis japonica</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 751-756.	7.1	256
4	A bacterial platform for fermentative production of plant alkaloids. <i>Nature Communications</i> , 2011, 2, 326.	12.8	241
5	Nitrogen Recycling and Remobilization Are Differentially Controlled by Leaf Senescence and Development Stage in Arabidopsis under Low Nitrogen Nutrition. <i>Plant Physiology</i> , 2008, 147, 1437-1449.	4.8	237
6	High berberine-producing cultures of <i>coptis japonica</i> cells. <i>Phytochemistry</i> , 1984, 23, 281-285.	2.9	222
7	The role of chloroplastic NAD(P)H dehydrogenase in photoprotection. <i>FEBS Letters</i> , 1999, 457, 5-8.	2.8	210
8	Molecular Characterization of the S-Adenosyl-L-methionine:3- $\beta$ -Hydroxy-N-methylcoclaurine 4- $\beta$ -O-Methyltransferase Involved in Isoquinoline Alkaloid Biosynthesis in <i>Coptis japonica</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 23398-23405.	3.4	181
9	Roles of miR319 and TCP Transcription Factors in Leaf Development. <i>Plant Physiology</i> , 2017, 175, 874-885.	4.8	175
10	PsbP Protein, But Not PsbQ Protein, Is Essential for the Regulation and Stabilization of Photosystem II in Higher Plants. <i>Plant Physiology</i> , 2005, 139, 1175-1184.	4.8	171
11	Molecular Cloning and Characterization of CYP719, a Methylenedioxy Bridge-forming Enzyme That Belongs to a Novel P450 Family, from cultured <i>Coptis japonica</i> Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 38557-38565.	3.4	170
12	Unusual P450 reactions in plant secondary metabolism. <i>Archives of Biochemistry and Biophysics</i> , 2011, 507, 194-203.	3.0	165
13	Total biosynthesis of opiates by stepwise fermentation using engineered <i>Escherichia coli</i> . <i>Nature Communications</i> , 2016, 7, 10390.	12.8	160
14	Identification of a WRKY Protein as a Transcriptional Regulator of Benzyloquinoline Alkaloid Biosynthesis in <i>Coptis japonica</i> . <i>Plant and Cell Physiology</i> , 2007, 48, 8-18.	3.1	153
15	Molecular Cloning and Characterization of CoclaurineN-Methyltransferase from Cultured Cells of <i>Coptis japonica</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 830-835.	3.4	146
16	The DNA-binding protease, CND41, and the degradation of ribulose-1,5-bisphosphate carboxylase/oxygenase in senescent leaves of tobacco. <i>Planta</i> , 2004, 220, 97-104.	3.2	138
17	Distinct Functions for the Two PsbP-Like Proteins PPL1 and PPL2 in the Chloroplast Thylakoid Lumen of Arabidopsis. <i>Plant Physiology</i> , 2007, 145, 668-679.	4.8	134
18	Geranyl Diphosphate:4-Hydroxybenzoate Geranyltransferase from <i>Lithospermum erythrorhizon</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 6240-6246.	3.4	133

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19	From The Cover: Differential use of two cyclic electron flows around photosystem I for driving CO <sub>2</sub> -concentration mechanism in C <sub>4</sub> photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16898-16903.	7.1	132
20	Molecular Cloning and Characterization of CYP80G2, a Cytochrome P450 That Catalyzes an Intramolecular C=C Phenol Coupling of (S)-Reticuline in Magnoflorine Biosynthesis, from Cultured <i>Coptis japonica</i> Cells. Journal of Biological Chemistry, 2008, 283, 8810-8821.	3.4	130
21	Crystal structure of tobacco PR-5d protein at 1.8 Å... resolution reveals a conserved acidic cleft structure in antifungal thaumatin-like proteins 1 Edited by R. Huber. Journal of Molecular Biology, 1999, 286, 1137-1145.	4.2	126
22	Inaugural Article: Metabolic engineering of plant alkaloid biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 367-372.	7.1	124
23	Functional Analysis of Norcochlorine Synthase in <i>Coptis japonica</i> . Journal of Biological Chemistry, 2007, 282, 6274-6282.	3.4	118
24	Characterization of Vacuolar Transport of the Endogenous Alkaloid Berberine in <i>Coptis japonica</i> . Plant Physiology, 2005, 138, 1939-1946.	4.8	115
25	A novel protein with DNA binding activity from tobacco chloroplast nucleoids.. Plant Cell, 1997, 9, 1673-1682.	6.6	112
26	Knockdown of berberine bridge enzyme by RNAi accumulates (S)-reticuline and activates a silent pathway in cultured California poppy cells. Transgenic Research, 2007, 16, 363-375.	2.4	107
27	Molecular cloning and characterization of methylenedioxy bridge-forming enzymes involved in stylophine biosynthesis in <i>Eschscholzia californica</i> . FEBS Journal, 2007, 274, 1019-1035.	4.7	104
28	A Regulatory Cascade Involving Class II ETHYLENE RESPONSE FACTOR Transcriptional Repressors Operates in the Progression of Leaf Senescence. Plant Physiology, 2013, 162, 991-1005.	4.8	103
29	Crystal structure of the PsbP protein of photosystem II from <i>Nicotiana tabacum</i> . EMBO Reports, 2004, 5, 362-367.	4.5	99
30	Ethylene-Induced Gene Expression of Osmotin-Like Protein, a Neutral Isoform of Tobacco PR-5, is Mediated by the AGCCGCC cis-Sequence. Plant and Cell Physiology, 1996, 37, 249-255.	3.1	91
31	Overexpression of <i>Coptis japonica</i> Norcochlorine 6-O-Methyltransferase Overcomes the Rate-Limiting Step in Benzylisoquinoline Alkaloid Biosynthesis in Cultured <i>Eschscholzia californica</i> . Plant and Cell Physiology, 2007, 48, 252-262.	3.1	88
32	Post-translational regulation of CND41 protease activity in senescent tobacco leaves. Planta, 2005, 222, 643-651.	3.2	86
33	CYP719A subfamily of cytochrome P450 oxygenases and isoquinoline alkaloid biosynthesis in <i>Eschscholzia californica</i> . Plant Cell Reports, 2009, 28, 123-133.	5.6	85
34	Three novel subunits of Arabidopsis chloroplastic NAD(P)H dehydrogenase identified by bioinformatic and reverse genetic approaches. Plant Journal, 2009, 57, 207-219.	5.7	82
35	Molecular cloning of columbamine O-methyltransferase from cultured <i>Coptis japonica</i> cells. FEBS Journal, 2002, 269, 5659-5667.	0.2	81
36	Purification and Characterization of S-adenosyl-l-methionine:norcochlorine 6-O-Methyltransferase from Cultured <i>Coptis japonica</i> Cells. FEBS Journal, 1994, 225, 125-131.	0.2	80

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37	Functional dissection of two Arabidopsis PsbO proteins. FEBS Journal, 2005, 272, 2165-2175.	4.7	80
38	Functional Analysis of Arabidopsis Ethylene-Responsive Element Binding Protein Conferring Resistance to Bax and Abiotic Stress-Induced Plant Cell Death. Plant Physiology, 2005, 138, 1436-1445.	4.8	80
39	Protease activity of CND41, a chloroplast nucleoid DNA-binding protein, isolated from cultured tobacco cells. FEBS Letters, 2000, 468, 15-18.	2.8	79
40	Characterization of an Arabidopsis thaliana mutant with impaired psbO, one of two genes encoding extrinsic 33-kDa proteins in photosystem II. FEBS Letters, 2002, 523, 138-142.	2.8	74
41	Isoquinoline Alkaloid Biosynthesis is Regulated by a Unique bHLH-Type Transcription Factor in Coptis japonica. Plant and Cell Physiology, 2011, 52, 1131-1141.	3.1	74
42	Characterization of Coptis japonica CjABCB2, an ATP-binding cassette protein involved in alkaloid transport. Phytochemistry, 2013, 91, 109-116.	2.9	71
43	Three PsbQ-Like Proteins are Required for the Function of the Chloroplast NAD(P)H Dehydrogenase Complex in Arabidopsis. Plant and Cell Physiology, 2010, 51, 866-876.	3.1	70
44	Limonene production in tobacco with Perilla limonene synthase cDNA. Journal of Experimental Botany, 2003, 54, 2635-2642.	4.8	67
45	Metabolic Engineering in Isoquinoline Alkaloid Biosynthesis. Current Pharmaceutical Biotechnology, 2007, 8, 211-218.	1.6	66
46	Characterization of berberine transport into Coptis japonica cells and the involvement of ABC protein. Journal of Experimental Botany, 2002, 53, 1879-1886.	4.8	65
47	Molecular functions of PsbP and PsbQ proteins in the photosystem II supercomplex. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 158-164.	3.8	64
48	Molecular cloning and characterization of a cytochrome P450 in sanguinarine biosynthesis from Eschscholzia californica cells. Phytochemistry, 2013, 91, 100-108.	2.9	64
49	Structure, function, and evolution of the PsbP protein family in higher plants. Photosynthesis Research, 2008, 98, 427-437.	2.9	63
50	A Novel Dark-Inducible Protein, LeDI-2, and Its Involvement in Root-Specific Secondary Metabolism in Lithospermum erythrorhizon. Plant Physiology, 2001, 125, 1831-1841.	4.8	61
51	Engineering of ubiquinone biosynthesis using the yeast coq2 gene confers oxidative stress tolerance in transgenic tobacco. Plant Journal, 2004, 40, 734-743.	5.7	58
52	A Role of TCP1 in the Longitudinal Elongation of Leaves in Arabidopsis. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2145-2147.	1.3	58
53	Asymmetric synthesis of tetrahydroisoquinolines by enzymatic Pictet-Spengler reaction. Bioscience, Biotechnology and Biochemistry, 2014, 78, 701-707.	1.3	58
54	(R,S)-Tetrahydropapaveroline production by stepwise fermentation using engineered Escherichia coli. Scientific Reports, 2014, 4, 6695.	3.3	57

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55	Production of berberine in cultured cells of <i>Coptis japonica</i> . <i>Phytochemistry</i> , 1981, 20, 545-547.	2.9	56
56	FTIR Evidence That the PsbP Extrinsic Protein Induces Protein Conformational Changes around the Oxygen-Evolving Mn Cluster in Photosystem II. <i>Biochemistry</i> , 2009, 48, 6318-6325.	2.5	56
57	Molecular Functions of Oxygen-Evolving Complex Family Proteins in Photosynthetic Electron Flow. <i>Journal of Integrative Plant Biology</i> , 2010, 52, 723-734.	8.5	56
58	Differential electron flow around photosystem I by two C4-photosynthetic-cell-specific ferredoxins. <i>EMBO Journal</i> , 2000, 19, 5041-5050.	7.8	54
59	Knockdown of the PsbP protein does not prevent assembly of the dimeric PSII core complex but impairs accumulation of photosystem II supercomplexes in tobacco. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 873-881.	1.0	53
60	NDH-Mediated Cyclic Electron Flow Around Photosystem I is Crucial for C <sub>4</sub> Photosynthesis. <i>Plant and Cell Physiology</i> , 2016, 57, 2020-2028.	3.1	53
61	Shikonin biosynthesis in <i>Lithospermum erythrorhizon</i> . Light-induced negative regulation of secondary metabolism.. <i>Plant Biotechnology</i> , 1999, 16, 335-342.	1.0	51
62	Improved Salt Tolerance of Transgenic Tobacco Expressing Apoplastic Yeast-Derived Invertase. <i>Plant and Cell Physiology</i> , 2001, 42, 245-249.	3.1	49
63	The PsbQ protein stabilizes the functional binding of the PsbP protein to photosystem II in higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1346-1351.	1.0	48
64	Characterization of Accumulation of Tobacco PR-5 Proteins by IEF-Immunoblot Analysis. <i>Plant and Cell Physiology</i> , 1994, 35, 821-827.	3.1	46
65	Cross-linking Evidence for Multiple Interactions of the PsbP and PsbQ Proteins in a Higher Plant Photosystem II Supercomplex. <i>Journal of Biological Chemistry</i> , 2014, 289, 20150-20157.	3.4	45
66	Entrapment of <i>Lavandula vera</i> cells with synthetic resin prepolymers and its application to pigment production. <i>Applied Microbiology and Biotechnology</i> , 1986, 24, 266.	3.6	44
67	Selection of an atrazine-resistant tobacco cell line having a mutant psbA gene. <i>Molecular Genetics and Genomics</i> , 1988, 214, 358-360.	2.4	44
68	Characterization of Shikonin Derivative Secretion in <i>Lithospermum erythrorhizon</i> Hairy Roots as a Model of Lipid-Soluble Metabolite Secretion from Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 1066.	3.6	44
69	Microbial production of novel sulphated alkaloids for drug discovery. <i>Scientific Reports</i> , 2018, 8, 7980.	3.3	44
70	Purification and characterization of coclaurine N-methyltransferase from cultured <i>Coptis japonica</i> cells. <i>Phytochemistry</i> , 2001, 56, 649-655.	2.9	43
71	Stable transformation of <i>Lithospermum erythrorhizon</i> by <i>Agrobacterium rhizogenes</i> and shikonin production of the transformants. <i>Plant Cell Reports</i> , 1998, 18, 214-219.	5.6	42
72	Importance of the N-terminal sequence of the extrinsic 23 kDa polypeptide in Photosystem II in ion retention in oxygen evolution. <i>BBA - Proteins and Proteomics</i> , 2001, 1546, 196-204.	2.1	42

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73	Ribosomal RNA processing and an RNase R family member in chloroplasts of Arabidopsis. <i>Plant Molecular Biology</i> , 2004, 55, 595-606.	3.9	42
74	Entrapment of <i>Lavandula vera</i> cells and production of pigments by entrapped cells. <i>Journal of Biotechnology</i> , 1985, 2, 107-117.	3.8	41
75	The Mechanism of Herbicide Resistance in Tobacco Cells with a New Mutation in the Q <sub>B</sub> Protein. <i>Plant Physiology</i> , 1989, 89, 986-992.	4.8	41
76	A novel <i>Coptis japonica</i> multidrug-resistant protein preferentially expressed in the alkaloid-accumulating rhizome. <i>Journal of Experimental Botany</i> , 2001, 52, 877-879.	4.8	41
77	Mining of the Uncharacterized Cytochrome P450 Genes Involved in Alkaloid Biosynthesis in California Poppy Using a Draft Genome Sequence. <i>Plant and Cell Physiology</i> , 2018, 59, 222-233.	3.1	41
78	The function of <i>ETHYLENE RESPONSE FACTOR</i> genes in the light-induced anthocyanin production of <i>Arabidopsis thaliana</i> leaves. <i>Plant Biotechnology</i> , 2018, 35, 87-91.	1.0	41
79	Isolation of tobacco ubiquitin-conjugating enzyme cDNA in a yeast two-hybrid system with tobacco ERF3 as bait and its characterization of specific interaction. <i>Journal of Experimental Botany</i> , 2003, 54, 1175-1181.	4.8	40
80	Nucleotide Sequence of a cDNA for Osmotin-Like Protein from Cultured Tobacco Cells. <i>Plant Physiology</i> , 1991, 97, 844-846.	4.8	39
81	S-adenosyl-l-methionine: Scoulerine-9-O-methyltransferase from cultured <i>Coptis japonica</i> cells. <i>Phytochemistry</i> , 1993, 32, 659-664.	2.9	39
82	NDF6: A Thylakoid Protein Specific to Terrestrial Plants is Essential for Activity of Chloroplastic NAD(P)H Dehydrogenase in Arabidopsis. <i>Plant and Cell Physiology</i> , 2008, 49, 1066-1073.	3.1	39
83	<i>Listeria monocytogenes</i> Strain-Specific Impairment of the TetR Regulator Underlies the Drastic Increase in Cyclic di-AMP Secretion and Beta Interferon-Inducing Ability. <i>Infection and Immunity</i> , 2012, 80, 2323-2332.	2.2	39
84	Transcription Factors in Alkaloid Biosynthesis. <i>International Review of Cell and Molecular Biology</i> , 2013, 305, 339-382.	3.2	39
85	Heterologous Expression of a Mammalian ABC Transporter in Plant and its Application to Phytoremediation. <i>Plant Molecular Biology</i> , 2006, 61, 491-503.	3.9	37
86	A Truncated Mutant of the Extrinsic 23-kDa Protein that Absolutely Requires the Extrinsic 17-kDa Protein for Ca <sup>2+</sup> Retention in Photosystem II. <i>Plant and Cell Physiology</i> , 2002, 43, 1244-1249.	3.1	36
87	The Conserved His-144 in the PsbP Protein Is Important for the Interaction between the PsbP N-terminus and the Cyt b559 Subunit of Photosystem II. <i>Journal of Biological Chemistry</i> , 2012, 287, 26377-26387.	3.4	36
88	Generation of serrated and wavy petals by inhibition of the activity of TCP transcription factors in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2011, 6, 697-699.	2.4	35
89	CjbHLH1 homologs regulate sanguinarine biosynthesis in <i>Eschscholzia californica</i> cells. <i>Plant and Cell Physiology</i> , 2015, 56, 1019-1030.	3.1	35
90	Expression of (s)-scoulerine 9-O-methyltransferase in <i>Coptis japonica</i> plants. <i>Phytochemistry</i> , 1993, 34, 949-954.	2.9	34

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91	Wounding activates immediate early transcription of genes for ERFs in tobacco plants. <i>Plant Molecular Biology</i> , 2002, 49, 473-482.	3.9	34
92	Functional Analysis of Four Members of the PsbP Family in Photosystem II in <i>Nicotiana tabacum</i> using Differential RNA Interference. <i>Plant and Cell Physiology</i> , 2005, 46, 1885-1893.	3.1	33
93	In Vivo <sup>15</sup> N-Enrichment of Metabolites in Suspension Cultured Cells and Its Application to Metabolomics. <i>Biotechnology Progress</i> , 2006, 22, 1003-1011.	2.6	33
94	Structure and function of the PsbP protein of Photosystem II from higher plants. <i>Photosynthesis Research</i> , 2005, 84, 251-255.	2.9	31
95	Bench-top fermentative production of plant benzylisoquinoline alkaloids using a bacterial platform. <i>Bioengineered</i> , 2012, 3, 49-53.	3.2	31
96	Accumulation of the components of cyclic electron flow around photosystem I in C4 plants, with respect to the requirements for ATP. <i>Photosynthesis Research</i> , 2016, 129, 261-277.	2.9	31
97	Unraveling Additional O-Methylation Steps in Benzylisoquinoline Alkaloid Biosynthesis in California Poppy ( <i>Eschscholzia californica</i> ). <i>Plant and Cell Physiology</i> , 2017, 58, 1528-1540.	3.1	31
98	A Novel Nuclear-Encoded Protein, NDH-Dependent Cyclic Electron Flow 5, is Essential for the Accumulation of Chloroplast NAD(P)H Dehydrogenase Complexes. <i>Plant and Cell Physiology</i> , 2008, 50, 383-393.	3.1	30
99	Characterization of Plant Functions Using Cultured Plant Cells, and Biotechnological Applications. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1-9.	1.3	30
100	Physiological Functions of PsbS-dependent and PsbS-independent NPQ under Naturally Fluctuating Light Conditions. <i>Plant and Cell Physiology</i> , 2014, 55, 1286-1295.	3.1	30
101	PGR5 and NDH Pathways in Photosynthetic Cyclic Electron Transfer Respond Differently to Sublethal Treatment with Photosystem-Interfering Herbicides. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4083-4089.	5.2	30
102	A multidrug and toxic compound extrusion transporter mediates berberine accumulation into vacuoles in <i>Coptis japonica</i> . <i>Phytochemistry</i> , 2017, 138, 76-82.	2.9	30
103	Post-illumination Reduction of the Plastoquinone Pool in Chloroplast Transformants in which Chloroplastic NAD(P)H Dehydrogenase was Inactivated. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2107-2111.	1.3	29
104	<i>Thalictrum minus</i> cell cultures and ABC-like transporter. <i>Phytochemistry</i> , 2003, 62, 483-489.	2.9	29
105	Stromal Over-reduction by High-light Stress as Measured by Decreases in P700 Oxidation by Far-red Light and its Physiological Relevance. <i>Plant and Cell Physiology</i> , 2005, 46, 775-781.	3.1	29
106	13-Methylberberine, a berberine analogue with stronger anti-adipogenic effects on mouse 3T3-L1 cells. <i>Scientific Reports</i> , 2016, 6, 38129.	3.3	29
107	Sequence analysis of cDNA encoding phosphoenolpyruvate carboxylase from cultured tobacco cells. <i>Plant Molecular Biology</i> , 1991, 17, 535-539.	3.9	28
108	Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic Tobacco and Yeast. <i>Biochemical and Biophysical Research Communications</i> , 1995, 211, 909-913.	2.1	27



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109	Improvement of Reticuline Productivity from Dopamine by Using Engineered <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2166-2168.	1.3	27
110	Tyrosine phosphorylation and protein degradation control the transcriptional activity of WRKY involved in benzylisoquinoline alkaloid biosynthesis. <i>Scientific Reports</i> , 2016, 6, 31988.	3.3	27
111	Inhibition of Photosystem II of Spinach by Lichen-derived Depsides. <i>Bioscience, Biotechnology and Biochemistry</i> , 1998, 62, 2023-2027.	1.3	26
112	Characterization of <i>Coptis japonica</i> cells with different alkaloid productivities. <i>Plant Cell, Tissue and Organ Culture</i> , 1994, 38, 249-256.	2.3	25
113	Selection and Characterization of Protoporphyrinogen Oxidase Inhibiting Herbicide (S23142) Resistant Photomixotrophic Cultured Cells of <i>Nicotiana tabacum</i> . <i>Journal of Plant Physiology</i> , 1995, 146, 693-698.	3.5	25
114	Molecular characterization of O-methyltransferases involved in isoquinoline alkaloid biosynthesis in <i>Coptis japonica</i> . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2010, 86, 757-768.	3.8	25
115	Microbial production of isoquinoline alkaloids as plant secondary metabolites based on metabolic engineering research. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2013, 89, 165-182.	3.8	25
116	Basic helix-loop-helix transcription factors and regulation of alkaloid biosynthesis. <i>Plant Signaling and Behavior</i> , 2011, 6, 1627-1630.	2.4	24
117	Diurnal and Developmental Changes in Energy Allocation of Absorbed Light at PSII in Field-Grown Rice. <i>Plant and Cell Physiology</i> , 2014, 55, 171-182.	3.1	24
118	The N-terminal sequence of the extrinsic PsbP protein modulates the redox potential of Cyt b559 in photosystem II. <i>Scientific Reports</i> , 2016, 6, 21490.	3.3	24
119	A comparison of effects of several herbicides on photoautotrophic, photomixotrophic and heterotrophic cultured tobacco cells and seedlings. <i>Plant Cell Reports</i> , 1987, 6, 401-404.	5.6	24
120	An efficient method of selecting photoautotrophic cells from cultured heterogeneous cells. <i>Plant and Cell Physiology</i> , 1980, 21, 929-932.	3.1	23
121	Allocation of Absorbed Light Energy in PSII to Thermal Dissipations in the Presence or Absence of PsbS Subunits of Rice. <i>Plant and Cell Physiology</i> , 2011, 52, 1822-1831.	3.1	23
122	Chloroplastic NAD(P)H dehydrogenase complex and cyclic electron transport around photosystem I. <i>Molecules and Cells</i> , 2008, 25, 158-62.	2.6	23
123	A binding model for phenylurea herbicides based on analysis of a Thr264 mutation in the D-1 protein of tobacco. <i>Pesticide Biochemistry and Physiology</i> , 1989, 35, 33-41.	3.6	22
124	CND41, a chloroplast nucleoid protein that regulates plastid development, causes reduced gibberellin content and dwarfism in tobacco. <i>Physiologia Plantarum</i> , 2003, 117, 130-136.	5.2	22
125	Identification of the basic amino acid residues on the PsbP protein involved in the electrostatic interaction with photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1447-1453.	1.0	21
126	Transcriptional activation of phosphoenolpyruvate carboxylase by phosphorus deficiency in tobacco. <i>Journal of Experimental Botany</i> , 2003, 54, 961-969.	4.8	20



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127	Transient RNA Silencing of Scoulerine 9-O-Methyltransferase Expression by Double Stranded RNA in <i>Coptis japonica</i> Protoplasts. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 63-70.	1.3	20
128	Improvement of Benzylisoquinoline Alkaloid Productivity by Overexpression of 3- <sup>2</sup> -Hydroxy-N-methylcoclaurine 4- <sup>2</sup> -O-Methyltransferase in Transgenic <i>Coptis japonica</i> Plants. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 650-659.	1.4	20
129	Pathway engineering of benzylisoquinoline alkaloid biosynthesis in transgenic California poppy cells with ectopic expression of tetrahydroberberine oxidase from <i>Coptis japonica</i> . <i>Plant Biotechnology</i> , 2012, 29, 473-481.	1.0	20
130	Overproduction of PGR5 enhances the electron sink downstream of photosystem I in a <i>C<sub>4</sub></i> plant, <i>Flaveria bidentis</i> . <i>Plant Journal</i> , 2020, 103, 814-823.	5.7	20
131	In Vivo Bioconversion of Tetrahydroisoquinoline by Recombinant Coclaurine N-Methyltransferase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 939-941.	1.3	19
132	Structures of the three homoeologous loci of wheat benzoxazinone biosynthetic genes TaBx3 and TaBx4 and characterization of their promoter sequences. <i>Theoretical and Applied Genetics</i> , 2008, 116, 373-381.	3.6	19
133	Metabolic Diversification of Benzylisoquinoline Alkaloid Biosynthesis Through the Introduction of a Branch Pathway in <i>Eschscholzia californica</i> . <i>Plant and Cell Physiology</i> , 2010, 51, 949-959.	3.1	18
134	Light energy allocation at PSII under field light conditions: How much energy is lost in NPQ-associated dissipation?. <i>Plant Physiology and Biochemistry</i> , 2014, 81, 115-120.	5.8	18
135	Laboratory-scale production of ( <i>S</i> )-reticuline, an important intermediate of benzylisoquinoline alkaloids, using a bacterial-based method. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 396-402.	1.3	18
136	Genome-wide identification of AP2/ERF transcription factor-encoding genes in California poppy ( <i>Eschscholzia californica</i> ) and their expression profiles in response to methyl jasmonate. <i>Scientific Reports</i> , 2020, 10, 18066.	3.3	18
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