Toshiya Muranaka

List of Publications by Year
in descending order

139 papers	5,896 citations	76326 40 h-index	85541 71 g-index
145 all docs	145 docs citations	145 times ranked	5468 citing authors

#	Article	IF	Citations
1	Licorice Î²-amyrin 11-oxidase, a cytochrome P450 with a key role in the biosynthesis of the triterpene sweetener glycyrrhizin. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14204-14209.	7.1	331
2	Triterpene Functional Genomics in Licorice for Identification of CYP72A154 Involved in the Biosynthesis of Glycyrrhizin Â Â. Plant Cell, 2011, 23, 4112-4123.	6.6	266
3	CYP716A Subfamily Members are Multifunctional Oxidases in Triterpenoid Biosynthesis. Plant and Cell Physiology, 2011, 52, 2050-2061.	3.1	244
4	Sterol Side Chain Reductase 2 Is a Key Enzyme in the Biosynthesis of Cholesterol, the Common Precursor of Toxic Steroidal Glycoalkaloids in Potato Â. Plant Cell, 2014, 26, 3763-3774.	6.6	206
5	P450s and UGTs: Key Players in the Structural Diversity of Triterpenoid Saponins. Plant and Cell Physiology, 2015, 56, 1463-1471.	3.1	187
6	Loss of function of 3-hydroxy-3-methylglutaryl coenzyme A reductase 1 (HMG1) in Arabidopsis leads to dwarfing, early senescence and male sterility, and reduced sterol levels. Plant Journal, 2004, 37, 750-761.	5.7	184
7	Regulatory interaction of PRL1 WD protein with Arabidopsis SNF1-like protein kinases. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5322-5327.	7.1	178
8	Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 725-730.	7.1	174
9	Generation of Î±-solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. Plant Physiology and Biochemistry, 2018, 131, 70-77.	5.8	150
10	Draft genome assembly and annotation of Glycyrrhiza uralensis, a medicinal legume. Plant Journal, 2017, 89, 181-194.	5.7	148
11	Combinatorial Biosynthesis of Legume Natural and Rare Triterpenoids in Engineered Yeast. Plant and Cell Physiology, 2013, 54, 740-749.	3.1	124
12	The Role of Arabidopsis ABCG9 and ABCG31 ATP Binding Cassette Transporters in Pollen Fitness and the Deposition of Steryl Glycosides on the Pollen Coat. Plant Cell, 2014, 26, 310-324.	6.6	110
13	Plants Utilize Isoprene Emission as a Thermotolerance Mechanism. Plant and Cell Physiology, 2007, 48, 1254-1262.	3.1	109
14	Upregulation of phytosterol and triterpene biosynthesis in Centella asiatica hairy roots overexpressed ginseng farnesyl diphosphate synthase. Plant Cell Reports, 2010, 29, 403-411.	5.6	104
15	Lanosterol Synthase in Dicotyledonous Plants. Plant and Cell Physiology, 2006, 47, 565-571.	3.1	102
16	Dolichol Biosynthesis and Its Effects on the Unfolded Protein Response and Abiotic Stress Resistance in Arabidopsis Â Â. Plant Cell, 2008, 20, 1879-1898.	6.6	102
17	Mevalonic acid partially restores chloroplast and etioplast development in Arabidopsis lacking the non-mevalonate pathway. Planta, 2002, 216, 345-350.	3.2	96
18	DNA polymorphisms in the tetrahydrocannabinolic acid (THCA) synthase gene in â€œdrug-typeâ€•and â€œfiber-typeâ€•Cannabis sativa L.. Forensic Science International, 2006, 159, 132-140.	2.2	95

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19	Allelic mutant series reveal distinct functions for Arabidopsis cycloartenol synthase 1 in cell viability and plastid biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3163-3168.	7.1	95
20	LOVASTATIN INSENSITIVE 1, a Novel Pentatricopeptide Repeat Protein, is a Potential Regulatory Factor of Isoprenoid Biosynthesis in Arabidopsis. Plant and Cell Physiology, 2007, 48, 322-331.	3.1	80
21	Glycyrrhiza uralensis Transcriptome Landscape and Study of Phytochemicals. Plant and Cell Physiology, 2013, 54, 697-710.	3.1	80
22	Molecular Genetics of Plant Sterol Backbone Synthesis. Lipids, 2007, 42, 47-54.	1.7	76
23	Establishment of a modified CRISPR/Cas9 system with increased mutagenesis frequency using the translational enhancer dMac3 and multiple guide RNAs in potato. Scientific Reports, 2018, 8, 13753.	3.3	74
24	Fungal and bacterial disease resistance in transgenic plants expressing human lysozyme. Plant Cell Reports, 1997, 16, 674-679.	5.6	73
25	Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in Nicotiana benthamiana. Plant Journal, 2015, 84, 478-490.	5.7	73
26	A novel glucosyltransferase involved in steroid saponin biosynthesis in Solanum aculeatissimum. Plant Molecular Biology, 2005, 57, 225-239.	3.9	68
27	The mitochondrial PPR protein LOVASTATIN INSENSITIVE 1 plays regulatory roles in cytosolic and plastidial isoprenoid biosynthesis through RNA editing. Plant Journal, 2010, 61, 456-466.	5.7	67
28	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. Plant Physiology, 2016, 171, 2458-2467.	4.8	67
29	Functional specialization of <scp>UDP</scp>â€glycosyltransferase 73P12 in licorice to produce a sweet triterpenoid saponin, glycyrrhizin. Plant Journal, 2019, 99, 1127-1143.	5.7	67
30	Chemical Phenotypes of the hmg1 and hmg2 Mutants of Arabidopsis Demonstrate the In-planta Role of HMG-CoA Reductase in Triterpene Biosynthesis. Chemical and Pharmaceutical Bulletin, 2007, 55, 1518-1521.	1.3	65
31	Structure and hemolytic activity relationships of triterpenoid saponins and sapogenins. Journal of Natural Medicines, 2017, 71, 50-58.	2.3	65
32	Complete blockage of the mevalonate pathway results in male gametophyte lethality. Journal of Experimental Botany, 2009, 60, 2055-2064.	4.8	62
33	A cellulose synthase-derived enzyme catalyses 3-O-glucuronosylation in saponin biosynthesis. Nature Communications, 2020, 11, 5664.	12.8	58
34	Development of Capsicum ESTâ€“SSR markers for species identification and in silico mapping onto the tomato genome sequence. Molecular Breeding, 2013, 31, 101-110.	2.1	56
35	A Dioxygenase Catalyzes Steroid 16Î±-Hydroxylation in Steroidal Glycoalkaloid Biosynthesis. Plant Physiology, 2017, 175, 120-133.	4.8	52
36	Cloning and characterization of a squalene synthase gene from a petroleum plant, Euphorbia tirucalli L.. Planta, 2009, 229, 1243-1252.	3.2	50

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37	The AMI1 gene family: indole-3-acetamide hydrolase functions in auxin biosynthesis in plants. Journal of Experimental Botany, 2010, 61, 25-32.	4.8	50
38	Novel triterpene oxidizing activity of Arabidopsis thaliana CYP716A subfamily enzymes. FEBS Letters, 2016, 590, 533-540.	2.8	50
39	Green leaf volatiles enhance methyl jasmonate response in Arabidopsis. Journal of Bioscience and Bioengineering, 2012, 114, 540-545.	2.2	48
40	The Basic Helixâ€“Loopâ€“Helix Transcription Factor GubHLH3 Positively Regulates Soyasaponin Biosynthetic Genes in Glycyrrhiza uralensis. Plant and Cell Physiology, 2018, 59, 783-796.	3.1	48
41	Organization and characterization of the virCD genes from Agrobacterium rhizogenes. Molecular Genetics and Genomics, 1988, 213, 229-237.	2.4	44
42	The NtAMI1 gene functions in cell division of tobacco BYâ€2 cells in the presence of indoleâ€3â€acetamide. FEBS Letters, 2009, 583, 487-492.	2.8	43
43	CYP716A179 functions as a triterpene C-28 oxidase in tissue-cultured stolons of Glycyrrhiza uralensis. Plant Cell Reports, 2017, 36, 437-445.	5.6	43
44	Artemisinin-based antimalarial research: application of biotechnology to the production of artemisinin, its mode of action, and the mechanism of resistance of Plasmodium parasites. Journal of Natural Medicines, 2016, 70, 318-334.	2.3	42
45	The Molecular Cloning of Dihydroartemisinic Aldehyde Reductase and its Implication in Artemisinin Biosynthesis inArtemisia annua. Planta Medica, 2010, 76, 1778-1783.	1.3	41
46	Amyloplast Formation in Cultured Tobacco BY-2 Cells Requires a High Cytokinin Content. Plant and Cell Physiology, 2002, 43, 1534-1541.	3.1	38
47	Cytochrome P450 Monooxygenase CYP716A141 is a Unique Î²-Amyrin C-16Î² Oxidase Involved in Triterpenoid Saponin Biosynthesis in Platycodon grandiflorus. Plant and Cell Physiology, 2017, 58, 874-884.	3.1	37
48	Hairy Root-activation Tagging: a High-throughput System for Activation Tagging in Transformed Hairy Roots. Plant Molecular Biology, 2005, 59, 793-807.	3.9	36
49	Function of theauxandrolgenes of the Ri plasmid in plant cell division in vitro. Plant Signaling and Behavior, 2009, 4, 1145-1147.	2.4	35
50	Differences in plant growth and leaf sesamin content of the lignan-rich sesame variety ^|^#8216;Gomazou^|^#8217; under continuous light of different wavelengths. Plant Biotechnology, 2013, 30, 1-8.	1.0	35
51	Growth and steroidal saponin production in hairy root cultures of Solanum aculeatissimum. Plant Cell Reports, 1995, 14, 413-7.	5.6	34
52	A novel orfB-related gene of carrot mitochondrial genomes that is associated with homeotic cytoplasmic male sterility (CMS). Plant Molecular Biology, 2001, 46, 99-107.	3.9	33
53	Identification of marneral synthase, which is critical for growth and development in Arabidopsis. Plant Journal, 2012, 72, 791-804.	5.7	33
54	Identification of a 3Î²-Hydroxysteroid Dehydrogenase/ 3-Ketosteroid Reductase Involved in Î±-Tomatine Biosynthesis in Tomato. Plant and Cell Physiology, 2019, 60, 1304-1315.	3.1	33

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55	Continuous production of scopolamine by a culture of Duboisia leichhardtii hairy root clone in a bioreactor system. Applied Microbiology and Biotechnology, 1993, 40, 219.	3.6	32
56	Planteose as a storage carbohydrate required for early stage of germination of Orobanche minor and its metabolism as a possible target for selective control. Journal of Experimental Botany, 2015, 66, 3085-3097.	4.8	32
57	<scp>AKIN</scp>10, a representative Arabidopsis <scp>SNF</scp>1â€related protein kinase 1 (Sn<scp>RK</scp>1), phosphorylates and downregulates plant <scp>HMG</scp>â€CoA reductase. FEBS Letters, 2017, 591, 1159-1166.	2.8	32
58	Efficient genome engineering using Platinum TALEN in potato. Plant Biotechnology, 2019, 36, 167-173.	1.0	32
59	Functional Characterization of CYP716 Family P450 Enzymes in Triterpenoid Biosynthesis in Tomato. Frontiers in Plant Science, 2017, 8, 21.	3.6	30
60	Scopolamine release into media by Duboisia leichhardtii hairy root clones. Applied Microbiology and Biotechnology, 1992, 37, 554.	3.6	29
61	Identification of Î±-Tomatine 23-Hydroxylase Involved in the Detoxification of a Bitter Glycoalkaloid. Plant and Cell Physiology, 2020, 61, 21-28.	3.1	29
62	Characterization and engineering of glycosyltransferases responsible for steroid saponin biosynthesis in Solanaceous plants. Phytochemistry, 2007, 68, 478-486.	2.9	27
63	In vitro proliferation and triterpenoid characteristics of licorice (Glycyrrhiza uralensis Fischer,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	25
64	Î²-Amyrin Oxidation by Oat CYP51H10 Expressed Heterologously in Yeast Cells: The First Example of CYP51-Dependent Metabolism Other than the 14-Demethylation of Sterol Precursors. Biological and Pharmaceutical Bulletin, 2012, 35, 801-804.	1.4	25
65	Phytochemical Genomics on the Way. Plant and Cell Physiology, 2013, 54, 645-646.	3.1	25
66	Isolation and Characterization of the Soybean Sg-3 Gene that is Involved in Genetic Variation in Sugar Chain Composition at the C-3 Position in Soyasaponins. Plant and Cell Physiology, 2018, 59, 797-810.	3.1	25
67	The biosynthetic pathway of potato solanidanes diverged from that of spirosolanes due to evolution of a dioxygenase. Nature Communications, 2021, 12, 1300.	12.8	25
68	Expressed sequence tags from rhizomes of Glycyrrhiza uralensis. Plant Biotechnology, 2009, 26, 105-107.	1.0	23
69	Characterization of steroid 5Î±-reductase involved in Î±-tomatine biosynthesis in tomatoes. Plant Biotechnology, 2019, 36, 253-263.	1.0	22
70	Comparative functional analysis of CYP71AV1 natural variants reveals an important residue for the successive oxidation of amorphaâ€4,11â€diene. FEBS Letters, 2013, 587, 278-284.	2.8	21
71	Lotus japonicus Triterpenoid Profile and Characterization of the CYP716A51 and LjCYP93E1 Genes Involved in Their Biosynthesis In Planta. Plant and Cell Physiology, 2019, 60, 2496-2509.	3.1	21
72	Targeted genome editing in tetraploid potato through transient TALEN expression by <i>Agrobacterium</i> infection. Plant Biotechnology, 2020, 37, 205-211.	1.0	21

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73	Functional characterization of CYP71D443, a cytochrome P450 catalyzing C-22 hydroxylation in the 20-hydroxyecdysone biosynthesis of Ajuga hairy roots. Phytochemistry, 2016, 127, 23-28.	2.9	20
74	Genetic and functional characterization of Sg-4 glycosyltransferase involved in the formation of sugar chain structure at the C-3 position of soybean saponins. Phytochemistry, 2018, 156, 96-105.	2.9	20
75	Ajuga Î”24-Sterol Reductase Catalyzes the Direct Reductive Conversion of 24-Methylenecholesterol to Campesterol. Journal of Biological Chemistry, 2016, 291, 8189-8198.	3.4	19
76	Identification of oxidosqualene cyclases from the medicinal legume tree Bauhinia forficata: a step toward discovering preponderant Î±â€amyrinâ€producing activity. New Phytologist, 2019, 224, 352-366.	7.3	19
77	Genetic variation of petaloid male-sterile cytoplasm of carrots revealed by sequence-tagged sites (STSs). Theoretical and Applied Genetics, 1999, 99, 837-843.	3.6	18
78	Determination of aculeatisides based on immunoassay using a polyclonal antibody against aculeatiside A. Analyst, The, 2002, 127, 1328-1332.	3.5	18
79	Comparative analysis of CYP716A subfamily enzymes for the heterologous production of C-28 oxidized triterpenoids in transgenic yeast. Plant Biotechnology, 2018, 35, 131-139.	1.0	18
80	Identification and characterization of (+)-Î±-bisabolol and 7-epi-silphiperfol-5-ene synthases from Artemisia abrotanum. Phytochemistry, 2019, 164, 144-153.	2.9	18
81	Functional Analysis of Amorpha-4,11-Diene Synthase (ADS) Homologs from Non-Artemisinin-ProducingArtemisiaSpecies: The Discovery of Novel Koidzumiol and (+)-Î±-Bisabolol Synthases. Plant and Cell Physiology, 2016, 57, 1678-1688.	3.1	17
82	Structureâ€“Activity Relationships of Pentacyclic Triterpenoids as Inhibitors of Cyclooxygenase and Lipoxygenase Enzymes. Journal of Natural Products, 2019, 82, 3311-3320.	3.0	17
83	Plant-derived isoprenoid sweeteners: recent progress in biosynthetic gene discovery and perspectives on microbial production. Bioscience, Biotechnology and Biochemistry, 2018, 82, 927-934.	1.3	16
84	Identification of furostanol glycoside 26-<i>O</i>-Î²-glucosidase involved in steroidal saponin biosynthesis from <i>Dioscorea esculenta</i>. Plant Biotechnology, 2015, 32, 299-308.	1.0	15
85	Isolation of Artemisia capillaris membrane-bound di-prenyltransferase for phenylpropanoids and redesign of artepillin C in yeast. Communications Biology, 2019, 2, 384.	4.4	15
86	Growth and Cell Wall Properties in Hypocotyls of Arabidopsis tua6 Mutant under Microgravity Conditions in Space. Uchu Seibutsu Kagaku, 2009, 23, 71-76.	0.3	14
87	Tomato E8 Encodes a C-27 Hydroxylase in Metabolic Detoxification of Î±-Tomatine during Fruit Ripening. Plant and Cell Physiology, 2021, 62, 775-783.	3.1	14
88	Exogenous plant H6H but not bacterial HCHL gene is expressed in Duboisia leichhardtii hairy roots and affects tropane alkaloid production. Enzyme and Microbial Technology, 2006, 39, 1183-1189.	3.2	13
89	Albinism and cell viability in cycloartenol synthase deficient Arabidopsis. Plant Signaling and Behavior, 2008, 3, 978-980.	2.4	13
90	The aux1 gene of the Ri plasmid is sufficient to confer auxin autotrophy in tobacco BY-2 cells. Journal of Plant Physiology, 2009, 166, 729-738.	3.5	13

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91	Triterpenoid levels are reduced during Euphorbia tirucalli L. callus formation. Plant Biotechnology, 2010, 27, 105-109.	1.0	13
92	Glucosyltransferase activity of <i>Arabidopsis</i> UGT71C1 towards pinoresinol and lariciresinol. Plant Biotechnology, 2014, 31, 561-566.	1.0	13
93	Characteristics of Scopolamine-releasing Hairy Root Clones ofDuboisia leichhardtii. Bioscience, Biotechnology and Biochemistry, 1993, 57, 1398-1399.	1.3	11
94	Transcriptome sequencing and identification of cytochrome P450 monooxygenases involved in the biosynthesis of maslinic acid and corosolic acid in <i>Avicennia marina</i>. Plant Biotechnology, 2018, 35, 341-348.	1.0	11
95	Molecular Basis of C-30 Product Regioselectivity of Legume Oxidases Involved in High-Value Triterpenoid Biosynthesis. Frontiers in Plant Science, 2019, 10, 1520.	3.6	11
96	The "all-in-one" rol-type binary vectors as a tool for functional genomic studies using hairy roots. Plant Biotechnology, 2008, 25, 347-355.	1.0	11
97	Production of Pharmaceuticals by Plant Tissue Cultures. , 2010, , 615-628.		10
98	A New Insight into Application for Barley Chromosome Addition Lines of Common Wheat: Achievement of Stigmasterol Accumulation Â. Plant Physiology, 2011, 157, 1555-1567.	4.8	10
99	Phosphoproteome Exploration Reveals a Reformatting of Cellular Processes in Response to Low Sterol Biosynthetic Capacity in Arabidopsis. Journal of Proteome Research, 2012, 11, 1228-1239.	3.7	10
100	Successful expression of a novel bacterial gene for pinoresinol reductase and its effect on lignan biosynthesis in transgenic Arabidopsis thaliana. Applied Microbiology and Biotechnology, 2014, 98, 8165-8177.	3.6	10
101	Organ-Specific and Auxin-Inducible Expression of Two Tobacco par A-Related Genes in Transgenic Plants. DNA Research, 1994, 1, 213-222.	3.4	9
102	Isolation and Identification of a Novel Chlorophenol from a Cell Suspension Culture of Helichrysum aureonitens. Chemical and Pharmaceutical Bulletin, 2009, 57, 1282-1283.	1.3	9
103	Functional analysis of orthologous artemisinic aldehyde Δ11(13)-reductase reveals potential artemisinin-producing activity in non-artemisinin-producing Artemisia absinthium. Plant Biotechnology, 2014, 31, 483-491.	1.0	9
104	Atrazine exposed phytoplankton causes the production of non-viable offspring on Daphnia magna. Marine Environmental Research, 2019, 145, 177-183.	2.5	9
105	Production of the bioactive plantâ€derived triterpenoid morolic acid in engineered Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2020, 117, 2198-2208.	3.3	8
106	Enhanced Secretory Activity of Atropa belladonna Hairy Root Culture Over-expressing ADP-Ribosylation Factor Gene. Biological and Pharmaceutical Bulletin, 2008, 31, 1465-1468.	1.4	7
107	Characterization of Câ€26 aminotransferase, indispensable for steroidal glycoalkaloid biosynthesis. Plant Journal, 2021, 108, 81-92.	5.7	7
108	Comparative Analysis of NADPH-Cytochrome P450 Reductases From Legumes for Heterologous Production of Triterpenoids in Transgenic Saccharomyces cerevisiae. Frontiers in Plant Science, 2021, 12, 762546.	3.6	7

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109	Photobiocatalyzed asymmetric reduction of ketones using Chlorella sp. MK201. Biotechnology Letters, 2012, 34, 2083-2086.	2.2	6
110	Dark conditions enhance aluminum tolerance in several rice cultivars via multiple modulations of membrane sterols. Journal of Experimental Botany, 2018, 69, 567-577.	4.8	6
111	The mevalonate pathway but not the methylerythritol phosphate pathway is critical for elaioplast and pollen coat development in <i>Arabidopsis</i>. Plant Biotechnology, 2018, 35, 381-385.	1.0	6
112	Novel root culture system using a recessive mutant with a rooty phenotype. Plant Biotechnology, 2008, 25, 197-200.	1.0	5
113	Evidence that the <i>Arabidopsis thaliana</i> 3-hydroxy-3-methylglutaryl-CoA reductase 1 is phosphorylated at Ser577 <i>in planta</i>. Plant Biotechnology, 2018, 35, 1-7.	1.0	5
114	The effect of nojirimycin on the transcriptome of germinating <i>Orobanche minor</i> seeds. Journal of Pesticide Sciences, 2020, 45, 230-237.	1.4	5
115	Tandem Gene Duplication of Dioxygenases Drives the Structural Diversity of Steroidal Glycoalkaloids in the Tomato Clade. Plant and Cell Physiology, 2022, 63, 981-990.	3.1	5
116	A model for a bioconversion system with the promoter of the parAt gene, which confers a high level of expression of a transgene in hairy roots. Applied Microbiology and Biotechnology, 1994, 40, 841-845.	3.6	4
117	Identification and characterization of a novel sesquiterpene synthase, 4-amorphen-11-ol synthase, from <i>Artemisia maritima</i>. Plant Biotechnology, 2018, 35, 113-121.	1.0	4
118	Allylic Hydroxylation Activity Is a Source of Saponin Chemodiversity in the Genus Glycyrrhiza. Plant and Cell Physiology, 2021, 62, 262-271.	3.1	4
119	Platform for â€œChemical Metabolic Switchingâ€•to Increase Sesquiterpene Content in Plants. Plant Biotechnology, 2017, 34, 65-69.	1.0	3
120	Preface to the special issue â€œTechnology in tissue culture toward horizon of plant biotechnologyâ€• Plant Biotechnology, 2020, 37, 117-120.	1.0	3
121	Expression of Two Key Enzymes of Artemisinin Biosynthesis FPS and ADS genes in Saccharomyces cerevisiae. Advanced Pharmaceutical Bulletin, 2021, 11, 181-187.	1.4	3
122	Title is missing!. Kagaku To Seibutsu, 2009, 47, 84-86.	0.0	2
123	Plant Gateway Vectors for RNAi as a Tool for Functional Genomic Studies. Methods in Molecular Biology, 2011, 744, 27-35.	0.9	2
124	Application of Continuous Light in a Plant Factory System 3. Moderation of Injuries Induced by Continuous Light and Relative Tolerance to Continuous Light. Shokubutsu Kankyo Kogaku, 2011, 23, 137-143.	0.1	2
125	Characterization of UDP-glucose dehydrogenase isoforms in the medicinal legume Glycyrrhiza uralensis. Plant Biotechnology, 2021, 38, 205-218.	1.0	2
126	Heterologous Expression of Triterpene Biosynthetic Genes in Yeast and Subsequent Metabolite Identification Through GC-MS. Methods in Molecular Biology, 2014, 1153, 235-243.	0.9	2

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127	Plant Cytochrome P450s in Triterpenoid Biosynthesis: Diversity and Application to Combinatorial Biosynthesis. , 2014, , 125-133.		2
128	Application of Continuous Light in a Plant Factory System 1. Growth Habit and Occurrence of Injury in Solanaceae and Cucurbitaceae Crops Grown Under Continuous Light. Shokubutsu Kankyo Kogaku, 2011, 23, 93-100.	0.1	2
129	Agrobacterium-Mediated Transformation ofEuphorbia tirucalliCallus. Bioscience, Biotechnology and Biochemistry, 2010, 74, 851-853.	1.3	1
130	Insights into the diversification of subclade IVa bHLH transcription factors in Fabaceae. BMC Plant Biology, 2021, 21, 109.	3.6	1
131	Current status and future of genome editing technologies for breeding of agricultural products. Ikushugaku Kenkyu, 2017, 19, 14-20.	0.3	1
132	Application of Continuous Light in a Plant Factory System2. Growth Habit and Occurrence of Injury in Asteraceae and Other Crops Grown Under Continuous Light. Shokubutsu Kankyo Kogaku, 2011, 23, 127-136.	0.1	1
133	Functional Analysis of HMG-CoA Reductase and Oxidosqualene Cyclases in Arabidopsis. , 2012, , 465-474.		0
134	å››å€ä½“ä½œç‰©ï¼Œã‚ãƒ£ã‚¬ã‚ãƒ¢ã®ã‚²ãƒŽãƒ 編集. Kagaku To Seibutsu, 2018, 56, 566-572.	0.0	0
135	é«˜ç‰æ¤ç‰©ç‰¹ç•°çš„IPPç”Ÿå•æˆè‡ªç¯€æ©Ÿæ§‹ã«è¦‹ã‚‰ã‚Œã‚‹ã‚ªãƒ«ã‚¬ãƒãƒ©é–“ã‚¯ãƒãƒƒãƒˆãƒ¯ãƒ¼ã‚¯. Plant Morphology, 2009, 2	0.1	
136	Glycyrrhizin production in hairy root cultures of Glycyrrhiza uralensis induced triterpenoid biosynthetic gene. Planta Medica, 2016, 81, S1-S381.	1.3	0
137	Revealing the catalytic residues of amorpha-4,11-diene synthase (ADS): new insight for engineering terpene synthases. Biotarget, 0, 1, 19-19.	0.5	0
138	Expression of Two Key Enzymes of Artemisinin Biosynthesis FPS and ADS genes in. Advanced Pharmaceutical Bulletin, 2021, 11, 181-187.	1.4	0
139	A model for a bioconversion system with the promoter of the parAt gene, which confers a high level of expression of a transgene in hairy roots. Applied Microbiology and Biotechnology, 1994, 40, 841-845.	3.6	0