Seiji Takahashi

List of Publications by Year
in descending order

65	3,450	30	57
papers	citations	h-index	g-index
		159573	144002

67	67	67	4165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Regulatory Domain of SRK2E/OST1/SnRK2.6 Interacts with ABI1 and Integrates Abscisic Acid (ABA) and Osmotic Stress Signals Controlling Stomatal Closure in Arabidopsis. Journal of Biological Chemistry, 2006, 281, 5310-5318.	3.4	481
2	Involvement of a novel Arabidopsis phospholipase D, AtPLDÎ´, in dehydration-inducible accumulation of phosphatidic acid in stress signalling. Plant Journal, 2001, 26, 595-605.	5.7	210
3	Hyperosmotic Stress Induces a Rapid and Transient Increase in Inositol 1,4,5-Trisphosphate Independent of Abscisic Acid in Arabidopsis Cell Culture. Plant and Cell Physiology, 2001, 42, 214-222.	3.1	167
4	Molecular cloning, expression and characterization of cDNA encoding cis-prenyltransferases from Hevea brasiliensis. FEBS Journal, 2003, 270, 4671-4680.	0.2	152
5	Functional Differentiation of the Glycosyltransferases That Contribute to the Chemical Diversity of Bioactive Flavonol Glycosides in Grapevines (<i>Vitis vinifera</i>) Â. Plant Cell, 2010, 22, 2856-2871.	6.6	142
6	A UDP-Glucose:Isoflavone 7-O-Glucosyltransferase from the Roots of Soybean (Glycine max) Seedlings. Journal of Biological Chemistry, 2007, 282, 23581-23590.	3.4	134
7	Monitoring the expression profiles of genes induced by hyperosmotic, high salinity, and oxidative stress and abscisic acid treatment in Arabidopsis cell culture using a full-length cDNA microarray. Plant Molecular Biology, 2004, 56, 29-55.	3.9	130
8	An Arabidopsis Gene Encoding a Ca2+-Binding Protein is Induced by Abscisic Acid during Dehydration. Plant and Cell Physiology, 2000, 41, 898-903.	3.1	122
9	Identification and reconstitution of the rubber biosynthetic machinery on rubber particles from Hevea brasiliensis. ELife, 2016, 5, .	6.0	114
10	Structure and function ofcis-prenyl chain elongating enzymes. Chemical Record, 2006, 6, 194-205.	5.8	111
11	An Isoflavone Conjugate-hydrolyzing Î²-Glucosidase from the Roots of Soybean (Glycine max) Seedlings. Journal of Biological Chemistry, 2006, 281, 30251-30259.	3.4	110
12	Formation of Flavonoid Metabolons: Functional Significance of Protein-Protein Interactions and Impact on Flavonoid Chemodiversity. Frontiers in Plant Science, 2019, 10, 821.	3.6	104
13	Structural and Mutational Studies of Anthocyanin Malonyltransferases Establish the Features of BAHD Enzyme Catalysis. Journal of Biological Chemistry, 2007, 282, 15812-15822.	3.4	94
14	An essential role of a TatC homologue of a ÂpH- dependent protein transporter in thylakoid membrane formation during chloroplast development in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10499-10504.	7.1	89
15	Physical interactions among flavonoid enzymes in snapdragon and torenia reveal the diversity in the flavonoid metabolon organization of different plant species. Plant Journal, 2018, 94, 372-392.	5.7	84
16	Identification of a Highly Specific Isoflavone 7-<i>O</i>-glucosyltransferase in the soybean (<i>Glycine) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.1	76
17	A conserved strategy of chalcone isomerase-like protein to rectify promiscuous chalcone synthase specificity. Nature Communications, 2020, 11, 870.	12.8	71
18	Ecophysiological consequences of alcoholism on human gut microbiota: implications for ethanol-related pathogenesis of colon cancer. Scientific Reports, 2016, 6, 27923.	3.3	66

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19	Molecular Mechanisms of Natural Rubber Biosynthesis. Annual Review of Biochemistry, 2020, 89, 821-851.	11.1	66
20	Involvement of chalcone reductase in the soybean isoflavone metabolon: identification of Gm<scp>CHR</scp>5, which interacts with 2â€hydroxyisoflavanone synthase. Plant Journal, 2018, 96, 56-74.	5.7	61
21	Developmental and nutritional regulation of isoflavone secretion from soybean roots. Bioscience, Biotechnology and Biochemistry, 2016, 80, 89-94.	1.3	59
22	Manipulation of prenyl chain length determination mechanism of cis-prenyltransferases. FEBS Journal, 2006, 273, 647-657.	4.7	58
23	Identification of human dehydrodolichyl diphosphate synthase gene. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1625, 291-295.	2.4	56
24	Chloroplast ribosome release factor 1 (AtcpRF1) is essential for chloroplast development. Plant Molecular Biology, 2007, 64, 481-497.	3.9	55
25	Cloning, expression and characterization of a functional cDNA clone encoding geranylgeranyl diphosphate synthase of Hevea brasiliensis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1625, 214-220.	2.4	48
26	Major Anaerobic Bacteria Responsible for the Production of Carcinogenic Acetaldehyde from Ethanol in the Colon and Rectum. Alcohol and Alcoholism, 2016, 51, 395-401.	1.6	46
27	Identification of proteinâ€"protein interactions of isoflavonoid biosynthetic enzymes with 2-hydroxyisoflavanone synthase in soybean (Glycine max (L.) Merr.). Biochemical and Biophysical Research Communications, 2016, 469, 546-551.	2.1	40
28	In vitro synthesis of high molecular weight rubber by Hevea small rubber particles. Journal of Bioscience and Bioengineering, 2010, 109, 107-114.	2.2	34
29	Characterization of cis-prenyltransferases from the rubber producing plant Hevea brasiliensis heterologously expressed in yeast and plant cells. Plant Biotechnology, 2012, 29, 411-417.	1.0	34
30	Identification and characterization of a <i>cis</i>,<i>trans</i>â€mixed heptaprenyl diphosphate synthase from <i><scp>A</scp>rabidopsisÂthaliana</i>. FEBS Journal, 2012, 279, 3813-3827.	4.7	33
31	Glycosideâ€specific glycosyltransferases catalyze regioâ€selective sequential glucosylations for a sesame lignan, sesaminol triglucoside. Plant Journal, 2020, 101, 1221-1233.	5.7	30
32	Structural Insights into the Low pH Adaptation of a Unique Carboxylesterase from Ferroplasma. Journal of Biological Chemistry, 2014, 289, 24499-24510.	3.4	28
33	Coordinated transcriptional regulation of isopentenyl diphosphate biosynthetic pathway enzymes in plastids by phytochrome-interacting factor 5. Biochemical and Biophysical Research Communications, 2014, 443, 768-774.	2.1	28
34	Alpha/beta-hydrolases: A unique structural motif coordinates catalytic acid residue in 40 protein fold families. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1845-1855.	2.6	25
35	Inositols and Their Metabolites in Abiotic and Biotic Stress Responses. , 2006, 39, 239-264.		24
36	Identification of an inducible glucosyltransferase from Phytolacca americana L. cells that are capable of glucosylating capsaicin. Plant Biotechnology, 2009, 26, 285-292.	1.0	24

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37	cDNA cloning of glycosyltransferases from Chinese wolfberry (Lycium barbarum L.) fruits and enzymatic synthesis of a catechin glucoside using a recombinant enzyme (UGT73A10). Journal of Molecular Catalysis B: Enzymatic, 2008, 55, 84-92.	1.8	20
38	Transcription analyses of GmICHG, a gene coding for a Î²-glucosidase that catalyzes the specific hydrolysis of isoflavone conjugates in Glycine max (L.) Merr. Plant Science, 2013, 208, 10-19.	3.6	20
39	Identification of laticifer-specific genes and their promoter regions from a natural rubber producing plant Hevea brasiliensis. Plant Science, 2014, 225, 1-8.	3.6	20
40	Product chain-length determination mechanism of Z,E-farnesyl diphosphate synthase. Biochemical and Biophysical Research Communications, 2008, 377, 17-22.	2.1	19
41	Purification, Gene Cloning, and Biochemical Characterization of a Î²-Glucosidase Capable of Hydrolyzing Sesaminol Triglucoside from Paenibacillus sp. KB0549. PLoS ONE, 2013, 8, e60538.	2.5	19
42	Cloning and expression of the gene encoding solanesyl diphosphate synthase from Hevea brasiliensis. Plant Science, 2007, 172, 824-831.	3.6	16
43	Purification and characterization of small and large rubber particles from Hevea brasiliensis. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1011-1020.	1.3	14
44	Managing enzyme promiscuity in plant specialized metabolism: A lesson from flavonoid biosynthesis. BioEssays, 2021, 43, e2000164.	2.5	14
45	In vivo interaction between the human dehydrodolichyl diphosphate synthase and the Niemannâ€“Pick C2 protein revealed by a yeast two-hybrid system. Biochemical and Biophysical Research Communications, 2004, 318, 198-203.	2.1	12
46	cDNA cloning and characterization of chalcone isomerase-fold proteins from snapdragon (Antirrhinum majus L.) flowers. Plant Biotechnology, 2014, 31, 105-114.	1.0	9
47	Alteration of oxidative-stress and related marker levels in mouse colonic tissues and fecal microbiota structures with chronic ethanol administration: Implications for the pathogenesis of ethanol-related colorectal cancer. PLoS ONE, 2021, 16, e0246580.	2.5	9
48	Gene cloning and biochemical characterization of a catalase from Gluconobacter oxydans. Journal of Bioscience and Bioengineering, 2011, 111, 522-527.	2.2	7
49	Purification, characterization, and primary structure of a novel N-acyl-d-amino acid amidohydrolase from Microbacterium natoriense TNJL143-2. Journal of Bioscience and Bioengineering, 2012, 114, 391-397.	2.2	7
50	(+)-Sesamin, a sesame lignan, is a potent inhibitor of gut bacterial tryptophan indole-lyase that is a key enzyme in chronic kidney disease pathogenesis. Biochemical and Biophysical Research Communications, 2022, 590, 158-162.	2.1	7
51	Crystal structure of chalcone synthase, a key enzyme for isoflavonoid biosynthesis in soybean. Proteins: Structure, Function and Bioinformatics, 2021, 89, 126-131.	2.6	6
52	cDNA, from Hevea brasiliensis latex, encoding 1-deoxy-d-xylulose-5-phosphate reductoisomerase. Plant Science, 2008, 175, 694-700.	3.6	5
53	Identification and characterization of a novel bacterial Î²-glucosidase that is highly specific for the Î²-1,2-glucosidic linkage of sesaminol triglucoside. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1518-1521.	1.3	5
54	Identification of the Genes Coding for Carthamin Synthase, Peroxidase Homologs that Catalyze the Final Enzymatic Step of Red Pigmentation in Safflower (<i>Carthamus tinctorius</i> L.). Plant and Cell Physiology, 2021, 62, 1528-1541.	3.1	5

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55	Reconstitution of prenyltransferase activity on nanodiscs by components of the rubber synthesis machinery of the Para rubber tree and guayule. Scientific Reports, 2022, 12, 3734.	3.3	5
56	Novel fluorescent analogues for transmembrane movement study of polyprenyl phosphates. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 946-950.	2.2	4
57	Catalytic removal of acetaldehyde in saliva by a Gluconobacter strain. Journal of Bioscience and Bioengineering, 2012, 114, 268-274.	2.2	4
58	Crystal structure of Thermobifida fusca cis-prenyltransferase reveals the dynamic nature of its RXG motif-mediated inter-subunit interactions critical for its catalytic activity. Biochemical and Biophysical Research Communications, 2020, 532, 459-465.	2.1	4
59	Structureâ€based engineering of a shortâ€chain <i>cis</i>â€prenyltransferase to biosynthesize nonnatural allâ€<i>cis</i>â€polyisoprenoids: molecular mechanisms for primer substrate recognition and ultimate product chainâ€length determination. FEBS Journal, 2022, 289, 4602-4621.	4.7	4
60	Production of tetraketide lactones by mutated Antirrhinum majus chalcone synthases (AmCHS1). Journal of Bioscience and Bioengineering, 2010, 110, 158-164.	2.2	3
61	Transcriptional responses of laticifer-specific genes to phytohormones in a suspension-cultured cell line derived from petioles of <i>Hevea brasiliensis</i>. Plant Biotechnology, 2014, 31, 593-598.	1.0	2
62	Introduction of a long synthetic repetitive DNA sequence into cultured tobacco cells. Plant Biotechnology, 2022, 39, 101-110.	1.0	2
63	Title is missing!. Kagaku To Seibutsu, 2009, 47, 160-162.	0.0	0
64	Transformation and isoflavonoid analyses of suspension-cultured cells of soybean [<i>Glycine max</i> (L.) Merr. cv. Enrei]. Plant Biotechnology, 2016, 33, 137-141.	1.0	0
65	Promiscuity of Enzyme Specificity and Evolution of Plant Specialized Metabolism: Implications from Flavonoid Biosynthesis: A Mission of a â€œBody Doubleâ€•Protein. Kagaku To Seibutsu, 2020, 58, 354-361.	0.0	0