Kenji Matsui

List of Publications by Year
in descending order

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Version: 2024-02-01

119 papers	5,171 citations	94433 37 h-index	95266 68 g-index
129 all docs	129 docs citations	129 times ranked	4474 citing authors

#	Article	IF	Citations
1	Green leaf volatiles: hydroperoxide lyase pathway of oxylipin metabolism. Current Opinion in Plant Biology, 2006, 9, 274-280.	7.1	604
2	Chemical and Molecular Ecology of Herbivore-Induced Plant Volatiles: Proximate Factors and Their Ultimate Functions. Plant and Cell Physiology, 2009, 50, 911-923.	3.1	471
3	Changing green leaf volatile biosynthesis in plants: An approach for improving plant resistance against both herbivores and pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16672-16676.	7.1	259
4	Volatile C6-aldehydes and Allo-ocimene Activate Defense Genes and Induce Resistance against Botrytis cinerea in Arabidopsis thaliana. Plant and Cell Physiology, 2005, 46, 1093-1102.	3.1	232
5	Intake and transformation to a glycoside of (<i>Z</i>)-3-hexenol from infested neighbors reveals a mode of plant odor reception and defense. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7144-7149.	7.1	175
6	Volatile 1-octen-3-ol induces a defensive response in Arabidopsis thaliana. Journal of General Plant Pathology, 2007, 73, 35-37.	1.0	135
7	Differential Metabolisms of Green Leaf Volatiles in Injured and Intact Parts of a Wounded Leaf Meet Distinct Ecophysiological Requirements. PLoS ONE, 2012, 7, e36433.	2.5	135
8	The NADPH:Quinone Oxidoreductase P1-Î¶-crystallin in Arabidopsis Catalyzes the Î±,Î²-Hydrogenation of 2-Alkenals: Detoxication of the Lipid Peroxide-Derived Reactive Aldehydes. Plant and Cell Physiology, 2002, 43, 1445-1455.	3.1	134
9	Volatile Glycosylation in Tea Plants: Sequential Glycosylations for the Biosynthesis of Aroma <i>Î²</i>-Primeverosides Are Catalyzed by Two <i>Camellia sinensis</i> Glycosyltransferases. Plant Physiology, 2015, 168, 464-477.	4.8	133
10	Bell pepper fruit fatty acid hydroperoxide lyase is a cytochrome P450 (CYP74B). FEBS Letters, 1996, 394, 21-24.	2.8	117
11	Direct fungicidal activities of C6-aldehydes are important constituents for defense responses in Arabidopsis against Botrytis cinerea. Phytochemistry, 2008, 69, 2127-2132.	2.9	105
12	Fatty acid 9- and 13-hydroperoxide lyases from cucumber1. FEBS Letters, 2000, 481, 183-188.	2.8	104
13	Plasma membrane potential depolarization and cytosolic calcium flux are early events involved in tomato (Solanum lycopersicon) plant-to-plant communication. Plant Science, 2012, 196, 93-100.	3.6	104
14	Maintenance of Chloroplast Structure and Function by Overexpression of the Rice <i>MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE</i> Gene Leads to Enhanced Salt Tolerance in Tobacco Â. Plant Physiology, 2014, 165, 1144-1155.	4.8	82
15	Analysis of defensive responses activated by volatile allo-ocimene treatment in Arabidopsis thaliana. Phytochemistry, 2006, 67, 1520-1529.	2.9	76
16	Biosynthesis of fatty acid derived aldehydes is induced upon mechanical wounding and its products show fungicidal activities in cucumber. Phytochemistry, 2006, 67, 649-657.	2.9	76
17	Fatty acid hydroperoxide cleaving enzyme, hydroperoxide lyase, from tea leaves. Phytochemistry, 1991, 30, 2109-2113.	2.9	75
18	Components of C6-aldehyde-induced resistance in Arabidopsis thaliana against a necrotrophic fungal pathogen, Botrytis cinerea. Plant Science, 2006, 170, 715-723.	3.6	71

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19	Role of the Lipoxygenase/lyase Pathway of Host-food Plants in the Host Searching Behavior of Two Parasitoid Species, Cotesia glomerata and Cotesia plutellae. Journal of Chemical Ecology, 2006, 32, 969-979.	1.8	69
20	Characterization of melanin and optimal conditions for pigment production by an endophytic fungus, Spissiomyces endophytica SDBR-CMU319. PLoS ONE, 2019, 14, e0222187.	2.5	64
21	Arabidopsis lipoxygenase 2 is essential for formation of green leaf volatiles and fiveâ€carbon volatiles. FEBS Letters, 2016, 590, 1017-1027.	2.8	63
22	Transcriptional regulators involved in responses to volatile organic compounds in plants. Journal of Biological Chemistry, 2019, 294, 2256-2266.	3.4	56
23	Catalytic Properties of Rice Î±-Oxygenase. Journal of Biological Chemistry, 2002, 277, 22648-22655.	3.4	51
24	Biochemical characterization of allene oxide synthases from the liverwort Marchantia polymorpha and green microalgae Klebsormidium flaccidum provides insight into the evolutionary divergence of the plant CYP74 family. Planta, 2015, 242, 1175-1186.	3.2	51
25	A portion of plant airborne communication is endorsed by uptake and metabolism of volatile organic compounds. Current Opinion in Plant Biology, 2016, 32, 24-30.	7.1	51
26	Fatty Acid Hydroperoxide Lyase in Tomato Fruits: Cloning and Properties of a Recombinant Enzyme Expressed inEscherichia coli. Bioscience, Biotechnology and Biochemistry, 2000, 64, 1189-1196.	1.3	49
27	Hydroperoxy-arachidonic acid mediated n-hexanal and (Z)-3- and (E)-2-nonenal formation in Laminaria angustata. Phytochemistry, 2003, 63, 669-678.	2.9	49
28	Linoleic Acid 10-Hydroperoxide as an Intermediate during Formation of 1-Octen-3-ol from Linoleic Acid inLentinus decadetes. Bioscience, Biotechnology and Biochemistry, 2003, 67, 2280-2282.	1.3	46
29	Rice fatty acid -dioxygenase is induced by pathogen attack and heavy metal stress: activation through jasmonate signaling. Journal of Plant Physiology, 2005, 162, 912-920.	3.5	46
30	E-2-hexenal promotes susceptibility to Pseudomonas syringae by activating jasmonic acid pathways in Arabidopsis. Frontiers in Plant Science, 2013, 4, 74.	3.6	45
31	Identification of a Hexenal Reductase That Modulates the Composition of Green Leaf Volatiles. Plant Physiology, 2018, 178, 552-564.	4.8	45
32	Role of Volatiles from the Endophytic Fungus Trichoderma asperelloides PSU-P1 in Biocontrol Potential and in Promoting the Plant Growth of Arabidopsis thaliana. Journal of Fungi (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217	3.5	45
33	Cucumber Cotyledon Lipoxygenase during Postgerminative Growth. Its Expression and Action on Lipid Bodies. Plant Physiology, 1999, 119, 1279-1288.	4.8	43
34	Intermittent exposure to traces of green leaf volatiles triggers a plant response. Scientific Reports, 2012, 2, 378.	3.3	42
35	The Biogeneration of Green Odour by Green Leaves and It's Physiological Functions -Past, Present and Future. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1995, 50, 467-472.	1.4	40
36	ETR1-, JAR1- and PAD2-dependent signaling pathways are involved in C6-aldehyde-induced defense responses of Arabidopsis. Plant Science, 2006, 171, 415-423.	3.6	40

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37	Cloning of Lipoxygenase Genes from a Cyanobacterium, Nostoc punctiforme, and Its Expression in Eschelichia coli. Current Microbiology, 2007, 54, 315-319.	2.2	40
38	Traumatin- and Dinortraumatin-containing Galactolipids in Arabidopsis. Journal of Biological Chemistry, 2013, 288, 26078-26088.	3.4	40
39	A tomatolipase homologous to DAD1(LeLID1) is induced in post-germinative growing stage and encodes a triacylglycerol lipase. FEBS Letters, 2004, 569, 195-200.	2.8	39
40	Antimicrobial Browning-Inhibitory Effect of Flavor Compounds in Seaweeds. Journal of Applied Phycology, 2006, 18, 413-422.	2.8	36
41	Effect of Overexpression of Fatty Acid 9-Hydroperoxide Lyase in Tomatoes (Lycopersicon) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	5.2	35
42	Evaluation of <i>Muscodor suthepensis</i> strain <scp>CMU</scp>â€Cib462 as a postharvest biofumigant for tangerine fruit rot caused by <i>Penicillium digitatum</i>. Journal of the Science of Food and Agriculture, 2016, 96, 339-345.	3.5	35
43	1-Octen-3-ol Is Formed from Its Glycoside during Processing of Soybean [<i>Glycine max</i> (L.) Merr.] Seeds. Journal of Agricultural and Food Chemistry, 2018, 66, 7409-7416.	5.2	34
44	Changes of Lipoxygenase and Fatty Acid Hydroperoxide Lyase Activities in Bell Pepper Fruits during Maturation. Bioscience, Biotechnology and Biochemistry, 1997, 61, 199-201.	1.3	29
45	Conversion of volatile alcohols into their glucosides in Arabidopsis. Communicative and Integrative Biology, 2015, 8, e992731.	1.4	29
46	Inactivation of tea leaf hydroperoxide lyase by fatty acid hydroperoxide. Journal of Agricultural and Food Chemistry, 1992, 40, 175-178.	5.2	28
47	Evaluation of antagonistic activity and mechanisms of endophytic yeasts against pathogenic fungi causing economic crop diseases. Folia Microbiologica, 2020, 65, 573-590.	2.3	28
48	Notes: Separation of 13-and 9-Hydroperoxide Lyase Activities in Cotyledons of Cucumber Seedlings. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 883-885.	1.4	27
49	Stereochemical Correlation between 10-Hydroperoxyoctadecadienoic Acid and 1-Octen-3-ol inLentinula edodesandTricholoma matsutakeMushrooms. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1539-1544.	1.3	25
50	Arachidonic acid-dependent carbon-eight volatile synthesis from wounded liverwort (Marchantia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.9	25
51	Evaluation of Muscodor cinnamomi as an egg biofumigant for the reduction of microorganisms on eggshell surfaces and its effect on egg quality. International Journal of Food Microbiology, 2017, 244, 52-61.	4.7	25
52	Formation of Aldehyde Flavor (n-hexanal, 3Z-nonenal and 2E-nonenal) in the Brown Alga, Laminaria Angustata. Journal of Applied Phycology, 2006, 18, 409-412.	2.8	24
53	Formation of 1-octen-3-ol from<i>Aspergillus flavus</i>conidia is accelerated after disruption of cells independently of Ppo oxygenases, and is not a main cause of inhibition of germination. PeerJ, 2014, 2, e395.	2.0	24
54	Optimization and characterization of red pigment production from an endophytic fungus, Nigrospora aurantiaca CMU-ZY2045, and its potential source of natural dye for use in textile dyeing. Applied Microbiology and Biotechnology, 2019, 103, 6973-6987.	3.6	24

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55	Biosynthetic pathway of indole-3-acetic acid in ectomycorrhizal fungi collected from northern Thailand. PLoS ONE, 2020, 15, e0227478.	2.5	24
56	Green Leaf Volatiles in Plant Signaling and Response. Sub-Cellular Biochemistry, 2016, 86, 427-443.	2.4	23
57	Silkworms suppress the release of green leaf volatiles by mulberry leaves with an enzyme from their spinnerets. Scientific Reports, 2018, 8, 11942.	3.3	23
58	Acrolein is formed from trienoic fatty acids in chloroplast: A targeted metabolomics approach. Plant Biotechnology, 2014, 31, 535-543.	1.0	23
59	Spatial expression of the Arabidopsis<i>hydroperoxide lyase</i>gene is controlled differently from that of the<i>allene oxide synthase</i>gene. Journal of Plant Interactions, 2015, 10, 1-10.	2.1	21
60	Expression of Lipoxygenase and Hydroperoxide Lyase Activities in Tomato Fruits. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1992, 47, 369-374.	1.4	20
61	On the specificity of lipid hydroperoxide fragmentation by fatty acid hydroperoxide lyase from Arabidopsis thaliana. Journal of Plant Physiology, 2003, 160, 803-809.	3.5	20
62	Benzenoid biosynthesis in the flowers of Eriobotrya japonica: molecular cloning and functional characterization of p-methoxybenzoic acid carboxyl methyltransferase. Planta, 2016, 244, 725-736.	3.2	20
63	<i>n</i>-Hexanal and (<i>Z</i>)-3-hexenal are generated from arachidonic acid and linolenic acid by a lipoxygenase in <i>Marchantia polymorpha</i> L.. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1148-1155.	1.3	20
64	Kinetics of barley FA hydroperoxide lyase are modulated by salts and detergents. Lipids, 2003, 38, 1167-1172.	1.7	19
65	Volatile Oxylipins and Related Compounds Formed Under Stress in Plants. , 2009, 580, 17-28.		19
66	Monogalactosyl diacylglycerol is a substrate for lipoxygenase: its implications for oxylipin formation directly from lipids. Journal of Plant Interactions, 2011, 6, 93-97.	2.1	18
67	The importance of lipoxygenase control in the production of green leaf volatiles by lipase-dependent and independent pathways. Plant Biotechnology, 2014, 31, 445-452.	1.0	18
68	Biogeneration of Volatile Compounds via Oxylipins in Edible Seaweeds. ACS Symposium Series, 1996, , 146-166.	0.5	17
69	Developmental changes of lipoxygenase and fatty acid hydroperoxide lyase activities in cultured cells of Marchantia polymorpha. Phytochemistry, 1996, 41, 177-182.	2.9	16
70	Characterization of an O-methyltransferase specific to guaiacol-type benzenoids from the flowers of loquat (Eriobotrya japonica). Journal of Bioscience and Bioengineering, 2016, 122, 679-684.	2.2	16
71	CYP74B24 is the 13-hydroperoxide lyase involved in biosynthesis of green leaf volatiles in tea (Camellia) Tj ETQq1 1 0.784314 rgBT /Ove	5.8	14
72	Bioprocessing of Agricultural Residues as Substrates and Optimal Conditions for Phytase Production of Chestnut Mushroom, Pholiota adiposa, in Solid State Fermentation. Journal of Fungi (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57	3.5	14

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73	Characterization of Volatile Compounds in<i>Astraeus</i>spp.. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2742-2745.	1.3	13
74	Engineering the biosynthesis of low molecular weight metabolites for quality traits (essential) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702		13
75	Characterization of two fungal lipoxygenases expressed in Aspergillus oryzae. Journal of Bioscience and Bioengineering, 2018, 126, 436-444.	2.2	13
76	Oxylipin Metabolism in Soybean Seeds Containing Different Sets of Lipoxygenase Isozymes after Homogenization. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2598-2603.	1.3	12
77	Weeding volatiles reduce leaf and seed damage to field-grown soybeans and increase seed isoflavones. Scientific Reports, 2017, 7, 41508.	3.3	12
78	Biosynthesis of volatile terpenes that accumulate in the secretory cavities of young leaves of Japanese pepper (<i>Zanthoxylum piperitum</i>): Isolation and functional characterization of monoterpene and sesquiterpene synthase genes. Plant Biotechnology, 2017, 34, 17-28.	1.0	12
79	Comparison of the Substrate Specificities of Lipoxygenases Purified from Soybean Seed, Wheat Seed, and Cucumber Cotyledons. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1992, 47, 85-89.	1.4	11
80	The Homolytic and Heterolytic Fatty Acid Hydroperoxide Lyase-like Activities of Hematin. Biochemical and Biophysical Research Communications, 2001, 286, 28-32.	2.1	11
81	Dimethyl Sulfide as a Source of the Seaweed-like Aroma in Cooked Soybeans and Correlation with Its Precursor, <i>S</i>-Methylmethionine (Vitamin U). Journal of Agricultural and Food Chemistry, 2014, 62, 8289-8294.	5.2	11
82	Glutathionylation and reduction of methacrolein in tomato plants account for its absorption from the vapor phase. Plant Physiology, 2015, 169, pp.01045.2015.	4.8	11
83	Fungal-Type Terpene Synthases in <i>Marchantia polymorpha</i> Are Involved in Sesquiterpene Biosynthesis in Oil Body Cells. Plant and Cell Physiology, 2021, 62, 528-537.	3.1	11
84	Identification of an Allele Attributable to Formation of Cucumber-like Flavor in Wild Tomato Species (Solanum pennellii) That Was Inactivated during Domestication. Journal of Agricultural and Food Chemistry, 2007, 55, 4080-4086.	5.2	10
85	Non-Enzymatic Isomerization of 12-Hydroxy-(3Z)-dodecenal to the (2JE)-Isomer after Enzymatic Cleavage of 13-Hydroperoxylinoleyl Alcohol in Tea Chloroplasts. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 161-164.	1.4	9
86	Substrate Specificity of Tea Leaf Hydroperoxide Lyase. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1992, 47, 677-679.	1.4	9
87	Uptake and Conversion of Volatile Compounds in Plantâ€"Plant Communication. Signaling and Communication in Plants, 2016, , 305-316.	0.7	9
88	Green leaf volatile-burst in Arabidopsis is governed by galactolipid oxygenation by a lipoxygenase that is under control of calcium ion. Biochemical and Biophysical Research Communications, 2018, 505, 939-944.	2.1	9
89	Molecular cloning and characterization of UDP-glucose: Volatile benzenoid/phenylpropanoid glucosyltransferase in petunia flowers. Journal of Plant Physiology, 2020, 252, 153245.	3.5	8
90	1-Octen-3-ol is formed from its primeveroside after mechanical wounding of soybean leaves. Plant Molecular Biology, 2021, , 1.	3.9	8

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91	Processing of Airborne Green Leaf Volatiles for Their Glycosylation in the Exposed Plants. Frontiers in Plant Science, 2021, 12, 721572.	3.6	7
92	Effects of Anaerobic Processing of Soybean Seeds on the Properties of Tofu. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1174-1176.	1.3	6
93	Oxylipin-specific cytochrome P450s (CYP74s) inLotus japonicus: their implications in response to mechanical wounding and nodule formation. Journal of Plant Interactions, 2011, 6, 255-264.	2.1	6
94	Intermittent exposure to traces of green leaf volatiles triggers the production of (<i>Z</i>)-3-hexen-1-yl acetate and (<i>Z</i>)-3-hexen-1-ol in exposed plants. Plant Signaling and Behavior, 2013, 8, e27013.	2.4	6
95	5,6-Epoxidation of All-<i>trans</i>-retinoic Acid with Soybean Lipoxygenase-2 and -3. Bioscience, Biotechnology and Biochemistry, 1994, 58, 140-145.	1.3	5
96	Development of a Screening System for the Evaluation of Soybean Volatiles. Bioscience, Biotechnology and Biochemistry, 2009, 73, 1844-1848.	1.3	5
97	Preliminary study on bioethanol from fresh water algae, Cladophora glomerata (Sarai Kai) by the fungus, Monascus sp. NP1. Journal of Applied Phycology, 2018, 30, 137-141.	2.8	5
98	11-Hydroperoxide eicosanoid-mediated 2(E),4(E)-decadienal production from arachidonic acid in the brown algae, Saccharina angustata. Journal of Applied Phycology, 2019, 31, 2719-2727.	2.8	5
99	Suppressed <i>Methionine Î³-Lyase</i> Expression Causes Hyperaccumulation of <i>S</i>-Methylmethionine in Soybean Seeds. Plant Physiology, 2020, 183, 943-956.	4.8	5
100	Studies on the Substrate Specificity of Soybean Lipoxygenase-1 Using an Entire Series of (Ï‰3 Z,Ï‰6 Z ,Ï‰9) Tj ETQq0 0 0 rgBT /Overlc Biosciences, 1990, 45, 1161-1164.	1.4	4
101	Effect of Modification of Arginine Residues on the Activity of Soybean Lipoxygenase-1. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1995, 50, 37-44.	1.4	4
102	Chemical Structure-Odor Correlation in a Series of Synthetic n-Nonen-1-ols. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1995, 50, 757-765.	1.4	4
103	Chemo-Enzymatic Syntheses of Both Enantiomers of Neodictyoprolenol and Neodictyoprolene; Possible Biosynthetic Intermediates of Sex Pheromones in Brown Algae. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 1027-1032.	1.4	4
104	Characterization of the promoter sequence of chitinase gene from lima bean plant. Journal of Plant Interactions, 2011, 6, 163-164.	2.1	4
105	CytosolicLOXoverexpression inArabidopsisenhances the attractiveness of parasitic wasps in response to herbivory and incidences of parasitism. Journal of Plant Interactions, 2013, 8, 207-215.	2.1	4
106	Molecular cloning and functional characterization of an O-methyltransferase catalyzing 4â€²-O-methylation of resveratrol in Acorus calamus. Journal of Bioscience and Bioengineering, 2019, 127, 539-543.	2.2	4
107	Production of raspberry ketone by redirecting the metabolic flux to the phenylpropanoid pathway in tobacco plants. Metabolic Engineering Communications, 2021, 13, e00180.	3.6	4
108	Fatty Acid Oxidizing Activity in a Red Marine Alga, Porphyra sp.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2000, 55, 903-909.	1.4	3

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109	Establishment of an efficient screening system to isolate rice mutants deficient in green leaf volatile formation. Journal of Plant Interactions, 2011, 6, 185-186.	2.1	3
110	Aromatic amino acid decarboxylase is involved in volatile phenylacetaldehyde production in loquat (<i>Eriobotrya japonica</i>) flowers. Plant Biotechnology, 2017, 34, 193-198.	1.0	3
111	Use of Monascus sp. NP1 for bioethanol production from Cladophora glomerata. Journal of Applied Phycology, 2018, 30, 3327-3334.	2.8	3
112	Chemical Structure-Odor Correlation in Series of Synthetic Methylene Interrupted n-Nonadien-1-ols. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1996, 51, 841-848.	1.4	2
113	Induced defence in lima bean plants exposed to the volatiles from two-spotted spider mite-infested conspecifics is independent of the major protein expression. Journal of Plant Interactions, 2013, 8, 219-224.	2.1	2
114	Green Leaf Volatile-Burst in Selaginella moellendorffii. Frontiers in Plant Science, 2021, 12, 731694.	3.6	2
115	Aerial (+)-borneol modulates root morphology, auxin signalling and meristematic activity in Arabidopsis roots. Biology Letters, 2022, 18, 20210629.	2.3	2
116	CRISPR/Cas9-mediated disruption of <i>ALLENE OXIDE SYNTHASE</i> results in defective 12-oxo-phytodienoic acid accumulation and reduced defense against spider mite (<i>Tetranychus) Tj ETQq0 0 0 rgBT /Overlock 10 39, 191-194.	1.0	2
117	How Do Plants Emit and Take in Volatile Organic Chemicals?: Simple Diffusion Does not Illustrate the Mechanisms.. Kagaku To Seibutsu, 2018, 56, 95-103.	0.0	0
118	Alpha-oxidation in marine algae. Fisheries Science, 2002, 68, 1383-1385.	1.6	0
119	Plantsâ€™ strategy for survival with volatile compounds formed in leaves. Japanese Journal of Pesticide Science, 2019, 44, 132-140.	0.0	0