

Makoto Matsuoka

List of Publications by Year in descending order

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116
papers

20,360
citations

20817

60
h-index

22832

112
g-index

116
all docs

116
docs citations

116
times ranked

11933
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary alterations in gene expression and enzymatic activities of gibberellin 3-oxidase 1 in <i>Oryza</i> . <i>Communications Biology</i> , 2022, 5, 67.	4.4	4
2	Making the “Green Revolution”™ Truly Green: Improving Crop Nitrogen Use Efficiency. <i>Plant and Cell Physiology</i> , 2021, 62, 942-947.	3.1	25
3	Potential of rice landraces with strong culms as genetic resources for improving lodging resistance against super typhoons. <i>Scientific Reports</i> , 2021, 11, 15780.	3.3	7
4	Whole-genome sequence diversity and association analysis of 198 soybean accessions in mini-core collections. <i>DNA Research</i> , 2021, 28, .	3.4	36
5	Evolution of GA Metabolic Enzymes in Land Plants. <i>Plant and Cell Physiology</i> , 2020, 61, 1919-1934.	3.1	11
6	A common allosteric mechanism regulates homeostatic inactivation of auxin and gibberellin. <i>Nature Communications</i> , 2020, 11, 2143.	12.8	32
7	Future Strategy of Breeding: Learn by Two Important Genes of Miracle Rice. <i>Molecular Plant</i> , 2020, 13, 823-824.	8.3	1
8	Diverse panicle architecture results from various combinations of <i>Prl5/GA2Oox4</i> and <i>Pbl6/APO1</i> alleles. <i>Communications Biology</i> , 2020, 3, 302.	4.4	16
9	Production of novel beneficial alleles of a rice yield-related QTL by CRISPR/Cas9. <i>Plant Biotechnology Journal</i> , 2020, 18, 1987-1989.	8.3	33
10	Genome-wide expression quantitative trait locus studies facilitate isolation of causal genes controlling panicle structure. <i>Plant Journal</i> , 2020, 103, 266-278.	5.7	9
11	Special Issue on Gibberellin: A Fascinating Substance That Still Attracts Plant Scientists. <i>Plant and Cell Physiology</i> , 2020, 61, 1829-1831.	3.1	2
12	Is one-line hybrid rice coming?. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 908-910.	8.5	0
13	CWAS with principal component analysis identifies a gene comprehensively controlling rice architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21262-21267.	7.1	122
14	<i>Arabidopsis</i> Group III d ERF proteins positively regulate primary cell wall-type CESA genes. <i>Journal of Plant Research</i> , 2019, 132, 117-129.	2.4	30
15	<i>OsIDD2</i> , a zinc finger and INDETERMINATE DOMAIN protein, regulates secondary cell wall formation. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 130-143.	8.5	34
16	Evolution and diversification of the plant gibberellin receptor <i>GID1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7844-E7853.	7.1	51
17	<i>SMALL ORGAN SIZE 1</i> and <i>SMALL ORGAN SIZE 2/DWARF AND LOW-TILLERING</i> Form a Complex to Integrate Auxin and Brassinosteroid Signaling in Rice. <i>Molecular Plant</i> , 2017, 10, 590-604.	8.3	105
18	Engineering the lodging resistance mechanism of post-Green Revolution rice to meet future demands. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2017, 93, 220-233.	3.8	67

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19	New path towards a better rice architecture. <i>Cell Research</i> , 2017, 27, 1189-1190.	12.0	9
20	Molecular actions of two synthetic brassinosteroids, iso-carbaBL and 6-deoxoBL, which cause altered physiological activities between <i>Arabidopsis</i> and rice. <i>PLoS ONE</i> , 2017, 12, e0174015.	2.5	9
21	Starch metabolism and grain chalkiness under high temperature stress. <i>National Science Review</i> , 2016, 3, 280-282.	9.5	13
22	Molecular Breeding of <i>Sorghum bicolor</i> , A Novel Energy Crop. <i>International Review of Cell and Molecular Biology</i> , 2016, 321, 221-257.	3.2	22
23	Increasing resistant starch content in rice for better consumer health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12616-12618.	7.1	23
24	Precise estimation of genomic regions controlling lodging resistance using a set of reciprocal chromosome segment substitution lines in rice. <i>Scientific Reports</i> , 2016, 6, 30572.	3.3	53
25	<i>Sorghum Dw1</i> , an agronomically important gene for lodging resistance, encodes a novel protein involved in cell proliferation. <i>Scientific Reports</i> , 2016, 6, 28366.	3.3	81
26	Genome-wide association study using whole-genome sequencing rapidly identifies new genes influencing agronomic traits in rice. <i>Nature Genetics</i> , 2016, 48, 927-934.	21.4	600
27	Toward a Molecular Understanding of Plant Hormone Actions. <i>Molecular Plant</i> , 2016, 9, 1-3.	8.3	7
28	Rice genetics: Control of grain length and quality. <i>Nature Plants</i> , 2015, 1, 15112.	9.3	3
29	Isolation of a Novel Lodging Resistance QTL Gene Involved in Strigolactone Signaling and Its Pyramiding with a QTL Gene Involved in Another Mechanism. <i>Molecular Plant</i> , 2015, 8, 303-314.	8.3	85
30	De Novo Transcriptome Assembly of a Fern, <i>Lygodium japonicum</i> , and a Web Resource Database, Ljtrans DB. <i>Plant and Cell Physiology</i> , 2015, 56, e5-e5.	3.1	44
31	Comprehensive Gene Expression Analysis of Rice Aleurone Cells: Probing the Existence of an Alternative Gibberellin Receptor. <i>Plant Physiology</i> , 2015, 167, 531-544.	4.8	27
32	Plant Omics Data Center: An Integrated Web Repository for Interspecies Gene Expression Networks with NLP-Based Curation. <i>Plant and Cell Physiology</i> , 2015, 56, e9-e9.	3.1	55
33	Methyl jasmonate inhibits lamina joint inclination by repressing brassinosteroid biosynthesis and signaling in rice. <i>Plant Science</i> , 2015, 241, 238-245.	3.6	43
34	Utilization of Stiff Culm Trait of Rice <i>smos1</i> Mutant for Increased Lodging Resistance. <i>PLoS ONE</i> , 2014, 9, e96009.	2.5	27
35	Regulatory Networks Acted Upon by the GID1-DELLA System After Perceiving Gibberellin. <i>The Enzymes</i> , 2014, 35, 1-25.	1.7	6
36	Isolation of a novel lodging resistance QTL gene involved in strigolactone signaling and its pyramiding with a QTL gene involved in another mechanism. <i>Molecular Plant</i> , 2014, , .	8.3	3

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37	A Novel AP2-Type Transcription Factor, SMALL ORGAN SIZE1, Controls Organ Size Downstream of an Auxin Signaling Pathway. <i>Plant and Cell Physiology</i> , 2014, 55, 897-912.	3.1	107
38	DELLA protein functions as a transcriptional activator through the DNA binding of the INDETERMINATE DOMAIN family proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7861-7866.	7.1	212
39	Antheridiogen determines sex in ferns via a spatiotemporally split gibberellin synthesis pathway. <i>Science</i> , 2014, 346, 469-473.	12.6	71
40	Split luciferase complementation assay to detect regulated protein-protein interactions in rice protoplasts in a large-scale format. <i>Rice</i> , 2014, 7, 11.	4.0	21
41	Expression and purification of a GRAS domain of SLR1, the rice DELLA protein. <i>Protein Expression and Purification</i> , 2014, 95, 248-258.	1.3	21
42	Gibberellin deficiency pleiotropically induces culm bending in sorghum: an insight into sorghum semi-dwarf breeding. <i>Scientific Reports</i> , 2014, 4, 5287.	3.3	54
43	Increased lodging resistance in long-culm, low-lignin gh2 rice for improved feed and bioenergy production. <i>Scientific Reports</i> , 2014, 4, 6567.	3.3	68
44	New Approach to Increasing Rice Lodging Resistance and Biomass Yield Through the Use of High Gibberellin Producing Varieties. <i>PLoS ONE</i> , 2014, 9, e86870.	2.5	126
45	Survey of Genes Involved in Rice Secondary Cell Wall Formation Through a Co-Expression Network. <i>Plant and Cell Physiology</i> , 2013, 54, 1803-1821.	3.1	71
46	Identification of Transcription Factors Involved in Rice Secondary Cell Wall Formation. <i>Plant and Cell Physiology</i> , 2013, 54, 1791-1802.	3.1	105
47	ROOT GROWTH INHIBITING, a Rice Endo-1,4- β -D-Glucanase, Regulates Cell Wall Loosening and is Essential for Root Elongation. <i>Journal of Plant Growth Regulation</i> , 2012, 31, 373-381.	5.1	17
48	The suppressive function of the rice DELLA protein SLR1 is dependent on its transcriptional activation activity. <i>Plant Journal</i> , 2012, 71, 443-453.	5.7	109
49	OsCAD2 is the major CAD gene responsible for monolignol biosynthesis in rice culm. <i>Plant Cell Reports</i> , 2012, 31, 91-101.	5.6	78
50	The Gibberellin perception system evolved to regulate a pre-existing GAMYB-mediated system during land plant evolution. <i>Nature Communications</i> , 2011, 2, 544.	12.8	79
51	The perception of gibberellins: clues from receptor structure. <i>Current Opinion in Plant Biology</i> , 2010, 13, 503-508.	7.1	51
52	OsSPL14 promotes panicle branching and higher grain productivity in rice. <i>Nature Genetics</i> , 2010, 42, 545-549.	21.4	1,187
53	Analysis of rice panicle traits and detection of QTLs using an image analyzing method. <i>Breeding Science</i> , 2010, 60, 55-64.	1.9	49
54	Characterization of the Molecular Mechanism Underlying Gibberellin Perception Complex Formation in Rice. <i>Plant Cell</i> , 2010, 22, 2680-2696.	6.6	162

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55	New approach for rice improvement using a pleiotropic QTL gene for lodging resistance and yield. <i>Nature Communications</i> , 2010, 1, 132.	12.8	242
56	Gibberellin in rice; its biosynthesis, perception and application for breeding. <i>Ikushugaku Kenkyu</i> , 2010, 12, 154-159.	0.3	0
57	Isolation and characterization of dominant dwarf mutants, Slr1-d, in rice. <i>Molecular Genetics and Genomics</i> , 2009, 281, 223-231.	2.1	92
58	Differential expression and affinities of Arabidopsis gibberellin receptors can explain variation in phenotypes of multiple knock-out mutants. <i>Plant Journal</i> , 2009, 60, 48-55.	5.7	52
59	Functional analysis of cotton orthologs of GA signal transduction factors GID1 and SLR1. <i>Plant Molecular Biology</i> , 2008, 68, 1-16.	3.9	58
60	Structural basis for gibberellin recognition by its receptor GID1. <i>Nature</i> , 2008, 456, 520-523.	27.8	306
61	Genetic approaches to crop improvement: responding to environmental and population changes. <i>Nature Reviews Genetics</i> , 2008, 9, 444-457.	16.3	396
62	Chapter 6 Molecular Biology of Gibberellins Signaling in Higher Plants. <i>International Review of Cell and Molecular Biology</i> , 2008, 268, 191-221.	3.2	51
63	GID1-mediated gibberellin signaling in plants. <i>Trends in Plant Science</i> , 2008, 13, 192-199.	8.8	184
64	Hormonal Signal Transduction in Rice. <i>Biotechnology in Agriculture and Forestry</i> , 2008, , 121-134.	0.2	1
65	Comprehensive Transcriptome Analysis of Phytohormone Biosynthesis and Signaling Genes in Microspore/Pollen and Tapetum of Rice. <i>Plant and Cell Physiology</i> , 2008, 49, 1429-1450.	3.1	187
66	Release of the Repressive Activity of Rice DELLA Protein SLR1 by Gibberellin Does Not Require SLR1 Degradation in the <i>gid2</i> Mutant. <i>Plant Cell</i> , 2008, 20, 2437-2446.	6.6	100
67	Greetings from Editor-in-Chief. <i>Plant and Cell Physiology</i> , 2008, 49, 1403-1403.	3.1	0
68	Mapping of three QTLs that regulate internode elongation in deepwater rice. <i>Breeding Science</i> , 2008, 58, 39-46.	1.9	45
69	The hybrid breakdown 1(t) locus induces interspecific hybrid breakdown between rice <i>Oryza sativa</i> cv. Koshihikari and its wild relative <i>O. nivara</i> . <i>Breeding Science</i> , 2008, 58, 99-105.	1.9	19
70	Molecular Interactions of a Soluble Gibberellin Receptor, GID1, with a Rice DELLA Protein, SLR1, and Gibberellin. <i>Plant Cell</i> , 2007, 19, 2140-2155.	6.6	362
71	The GID1-Mediated Gibberellin Perception Mechanism Is Conserved in the Lycophyte <i>Selaginella moellendorffii</i> but Not in the Bryophyte <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2007, 19, 3058-3079.	6.6	188
72	Gibberellin Receptor and Its Role in Gibberellin Signaling in Plants. <i>Annual Review of Plant Biology</i> , 2007, 58, 183-198.	18.7	291

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73	Genetic and Molecular Analysis of Utility of sd1 Alleles in Rice Breeding. <i>Breeding Science</i> , 2007, 57, 53-58.	1.9	90
74	A Major QTL Confers Rapid Internode Elongation in Response to Water Rise in Deepwater Rice. <i>Breeding Science</i> , 2007, 57, 305-314.	1.9	60
75	A quantitative trait locus regulating rice grain width. <i>Nature Genetics</i> , 2007, 39, 583-584.	21.4	9
76	Multiple loss-of-function of Arabidopsis gibberellin receptor AtGID1s completely shuts down a gibberellin signal. <i>Plant Journal</i> , 2007, 50, 958-966.	5.7	136
77	Ectopic Expression of KNOTTED1-Like Homeobox Protein Induces Expression of Cytokinin Biosynthesis Genes in Rice. <i>Plant Physiology</i> , 2006, 142, 54-62.	4.8	222
78	gid1, a gibberellin-insensitive dwarf mutant, shows altered regulation of probenazole-inducible protein (PBZ1) in response to cold stress and pathogen attack. <i>Plant, Cell and Environment</i> , 2006, 29, 619-631.	5.7	344
79	Identification and characterization of Arabidopsis gibberellin receptors. <i>Plant Journal</i> , 2006, 46, 880-889.	5.7	413
80	The rice SPINDLY gene functions as a negative regulator of gibberellin signaling by controlling the suppressive function of the DELLA protein, SLR1, and modulating brassinosteroid synthesis. <i>Plant Journal</i> , 2006, 48, 390-402.	5.7	170
81	Erect leaves caused by brassinosteroid deficiency increase biomass production and grain yield in rice. <i>Nature Biotechnology</i> , 2006, 24, 105-109.	17.5	579
82	Formation, Maintenance and Function of the Shoot Apical Meristem in Rice. <i>Plant Molecular Biology</i> , 2006, 60, 827-842.	3.9	19
83	Characterization of CONSTITUTIVE PHOTOMORPHOGENESIS AND DWARFISM Homologs in Rice (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT / Ov 3.1 42	3.1	42
84	The Role of OsBRI1 and Its Homologous Genes, OsBRL1 and OsBRL3, in Rice. <i>Plant Physiology</i> , 2006, 140, 580-590.	4.8	448
85	Effects of Ssi1 Gene Controlling dm-type Internode Elongation Pattern on Lodging Resistance and Panicle Characters in Rice. <i>Breeding Science</i> , 2006, 56, 261-268.	1.9	12
86	Overexpression of a GRAS protein lacking the DELLA domain confers altered gibberellin responses in rice. <i>Plant Journal</i> , 2005, 44, 669-679.	5.7	101
87	GIBBERELLIN INSENSITIVE DWARF1 encodes a soluble receptor for gibberellin. <i>Nature</i> , 2005, 437, 693-698.	27.8	1,326
88	The Rice brassinosteroid-deficient dwarf2 Mutant, Defective in the Rice Homolog of Arabidopsis DIMINUTO/DWARF1, Is Rescued by the Endogenously Accumulated Alternative Bioactive Brassinosteroid, Dolichosterone. <i>Plant Cell</i> , 2005, 17, 2243-2254.	6.6	260
89	Dissection of the Phosphorylation of Rice DELLA Protein, SLENDER RICE1. <i>Plant and Cell Physiology</i> , 2005, 46, 1392-1399.	3.1	98
90	A Novel Cytochrome P450 Is Implicated in Brassinosteroid Biosynthesis via the Characterization of a Rice Dwarf Mutant, dwarf11, with Reduced Seed Length. <i>Plant Cell</i> , 2005, 17, 776-790.	6.6	482

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91	Cytokinin Oxidase Regulates Rice Grain Production. <i>Science</i> , 2005, 309, 741-745.	12.6	1,620
92	Brassinosteroids and Rice Architecture. <i>Journal of Pesticide Sciences</i> , 2004, 29, 184-188.	1.4	50
93	An Overview of Gibberellin Metabolism Enzyme Genes and Their Related Mutants in Rice. <i>Plant Physiology</i> , 2004, 134, 1642-1653.	4.8	643
94	GID2, an F-box subunit of the SCF E3 complex, specifically interacts with phosphorylated SLR1 protein and regulates the gibberellin-dependent degradation of SLR1 in rice. <i>Plant Journal</i> , 2004, 37, 626-634.	5.7	244
95	Accumulation of Phosphorylated Repressor for Gibberellin Signaling in an F-box Mutant. <i>Science</i> , 2003, 299, 1896-1898.	12.6	580
96	Gibberellin Signal Transduction in Rice. <i>Journal of Plant Growth Regulation</i> , 2003, 22, 141-151.	5.1	6
97	The OsTB1 gene negatively regulates lateral branching in rice. <i>Plant Journal</i> , 2003, 33, 513-520.	5.7	553
98	Where do gibberellin biosynthesis and gibberellin signaling occur in rice plants?. <i>Plant Journal</i> , 2003, 35, 104-115.	5.7	207
99	Isolation and characterization of a rice WUSCHEL-type homeobox gene that is specifically expressed in the central cells of a quiescent center in the root apical meristem. <i>Plant Journal</i> , 2003, 35, 429-441.	5.7	231
100	A role for the ubiquitin-26S-proteasome pathway in gibberellin signaling. <i>Trends in Plant Science</i> , 2003, 8, 492-497.	8.8	115
101	Rice globular embryo 4 (gle4) Mutant is Defective in Radial Pattern Formation during Embryogenesis. <i>Plant and Cell Physiology</i> , 2003, 44, 875-883.	3.1	21
102	A Rice Brassinosteroid-Deficient Mutant, ebisu dwarf (d2), Is Caused by a Loss of Function of a New Member of Cytochrome P450. <i>Plant Cell</i> , 2003, 15, 2900-2910.	6.6	495
103	The Gibberellin Signaling Pathway Is Regulated by the Appearance and Disappearance of SLENDER RICE1 in Nuclei. <i>Plant Cell</i> , 2002, 14, 57-70.	6.6	429
104	Involvement of Homeobox Genes in Early Body Plan of Monocot. <i>International Review of Cytology</i> , 2002, 218, 1-36e.	6.2	22
105	Loss-of-function of a Rice Gibberellin Biosynthetic Gene, GA20 oxidase (GA20ox-2), Led to the Rice 'Green Revolution'. <i>Breeding Science</i> , 2002, 52, 143-150.	1.9	234
106	OsPNH1 regulates leaf development and maintenance of the shoot apical meristem in rice. <i>Plant Journal</i> , 2002, 30, 189-201.	5.7	85
107	Loss-of-function of a rice brassinosteroid biosynthetic enzyme, C-6 oxidase, prevents the organized arrangement and polar elongation of cells in the leaves and stem. <i>Plant Journal</i> , 2002, 32, 495-508.	5.7	588
108	Expression of a Gibberellin 2-Oxidase Gene around the Shoot Apex Is Related to Phase Transition in Rice. <i>Plant Physiology</i> , 2001, 125, 1508-1516.	4.8	283

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109	KNOX homeodomain protein directly suppresses the expression of a gibberellin biosynthetic gene in the tobacco shoot apical meristem. <i>Genes and Development</i> , 2001, 15, 581-590.	5.9	390
110	slender Rice, a Constitutive Gibberellin Response Mutant, Is Caused by a Null Mutation of the SLR1 Gene, an Ortholog of the Height-Regulating Gene GAI/RGA/RHT/D8. <i>Plant Cell</i> , 2001, 13, 999-1010.	6.6	672
111	Loss of Function of a Rice brassinosteroid insensitive1 Homolog Prevents Internode Elongation and Bending of the Lamina Joint. <i>Plant Cell</i> , 2000, 12, 1591-1605.	6.6	650
112	SHOOT ORGANIZATION Genes Regulate Shoot Apical Meristem Organization and the Pattern of Leaf Primordium Initiation in Rice. <i>Plant Cell</i> , 2000, 12, 2161-2174.	6.6	116
113	Regional Expression of the Rice KN1-Type Homeobox Gene Family during Embryo, Shoot, and Flower Development. <i>Plant Cell</i> , 1999, 11, 1651-1663.	6.6	174
114	Loss-of-function mutations in the rice homeobox gene OSH15 affect the architecture of internodes resulting in dwarf plants. <i>EMBO Journal</i> , 1999, 18, 992-1002.	7.8	192
115	Isolation and characterization of a rice homeobox gene, OSH15. <i>Plant Molecular Biology</i> , 1998, 38, 983-997.	3.9	49
116	Expression of photosynthetic genes from the C4 plant, maize, in tobacco. <i>Molecular Genetics and Genomics</i> , 1991, 225, 411-419.	2.4	43