Kenji Miura

List of Publications by Year
in descending order

83 papers	8,259 citations	87888 38 h-index	60623 81 g-index
84 all docs	84 docs citations	84 times ranked	8147 citing authors

#	Article	IF	Citations
1	Modification of tomato breeding traits and plant hormone signaling by Target-AID, the genome-editing system inducing efficient nucleotide substitution. Horticulture Research, 2022, 9, .	6.3	11
2	Functional Characterization of Tomato Phytochrome A and B1B2 Mutants in Response to Heat Stress. International Journal of Molecular Sciences, 2022, 23, 1681.	4.1	11
3	Nitrate transport via NRT2.1 mediates NIN-LIKE PROTEIN-dependent suppression of root nodulation in <i>Lotus japonicus</i>. Plant Cell, 2022, 34, 1844-1862.	6.6	21
4	Quantitative evaluation of glycanâ€binding specificity of recombinant concanavalin A produced in lettuce (<i>Lactuca sativa</i>). Biotechnology and Bioengineering, 2022, 119, 1781-1791.	3.3	2
5	CRISPR/Cas9 Technique for Temperature, Drought, and Salinity Stress Responses. Current Issues in Molecular Biology, 2022, 44, 2664-2682.	2.4	20
6	Gene expression of PLAT and ATS3 proteins increases plant resistance to insects. Planta, 2021, 253, 37.	3.2	5
7	Prevention of necrosis caused by transient expression in <i>Nicotiana benthamiana</i> by application of ascorbic acid. Plant Physiology, 2021, 186, 832-835.	4.8	19
8	Efficient base editing in tomato using a highly expressed transient system. Plant Cell Reports, 2021, 40, 667-676.	5.6	8
9	Different DNA-binding specificities of NLP and NIN transcription factors underlie nitrate-induced control of root nodulation. Plant Cell, 2021, 33, 2340-2359.	6.6	52
10	Involvement of Activation of Mast Cells via IgE Signaling and Epithelial Cellâ€“Derived Cytokines in the Pathogenesis of Pollen Food Allergy Syndrome in a Murine Model. Journal of Immunology, 2021, , ji2000518.	0.8	5
11	Specific methylation of (11R)-carlactonoic acid by an Arabidopsis SABATH methyltransferase. Planta, 2021, 254, 88.	3.2	18
12	Strigolactone biosynthesis catalyzed by cytochrome P450 and sulfotransferase in sorghum. New Phytologist, 2021, 232, 1999-2010.	7.3	28
13	Transient protein expression systems in plants and their applications. Plant Biotechnology, 2021, 38, 297-304.	1.0	27
14	Transient expression of recombinant proteins in plants. Methods in Enzymology, 2021, 660, 193-203.	1.0	8
15	The PHD finger of Arabidopsis SIZ1 recognizes trimethylated histone H3K4 mediating SIZ1 function and abiotic stress response. Communications Biology, 2020, 3, 23.	4.4	36
16	RAP Tag and PMab-2 Antibody: A Tagging System for Detecting and Purifying Proteins in Plant Cells. Frontiers in Plant Science, 2020, 11, 510444.	3.6	11
17	Autoregulation of nodulation pathway is dispensable for nitrate-induced control of rhizobial infection. Plant Signaling and Behavior, 2020, 15, 1733814.	2.4	10
18	High-Yield Production of the Major Birch Pollen Allergen Bet v 1 With Allergen Immunogenicity in Nicotiana benthamiana. Frontiers in Plant Science, 2020, 11, 344.	3.6	13

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19	Radish sprouts as an efficient and rapidly available host for an agroinfiltration-based transient gene expression system. Plant Biotechnology, 2020, 37, 89-92.	1.0	9
20	Genome editing in <i>PDS</i> genes of tomatoes by non-selection method and of <i>Nicotiana benthamiana</i> by one single guide RNA to edit two orthologs. Plant Biotechnology, 2020, 37, 213-221.	1.0	10
21	Presence of a basic secretory protein in xylem sap and shoots of poplar in winter and its physicochemical activities against winter environmental conditions. Journal of Plant Research, 2019, 132, 655-665.	2.4	1
22	Agroinfiltration-based efficient transient protein expression in leguminous plants. Plant Biotechnology, 2019, 36, 119-123.	1.0	21
23	LACK OF SYMBIONT ACCOMMODATION controls intracellular symbiont accommodation in root nodule and arbuscular mycorrhizal symbiosis in Lotus japonicus. PLoS Genetics, 2019, 15, e1007865.	3.5	23
24	Efficient transient protein expression in tomato cultivars and wild species using agroinfiltration-mediated high expression system. Plant Cell Reports, 2019, 38, 75-84.	5.6	32
25	Application and development of genome editing technologies to the Solanaceae plants. Plant Physiology and Biochemistry, 2018, 131, 37-46.	5.8	25
26	A NIN-LIKE PROTEIN mediates nitrate-induced control of root nodule symbiosis inÂLotus japonicus. Nature Communications, 2018, 9, 499.	12.8	144
27	Ca2+-permeable mechanosensitive channels MCA1 and MCA2 mediate cold-induced cytosolic Ca2+ increase and cold tolerance in Arabidopsis. Scientific Reports, 2018, 8, 550.	3.3	97
28	Improvement of the transient expression system for production of recombinant proteins in plants. Scientific Reports, 2018, 8, 4755.	3.3	129
29	Genome editing technologies for plant physiology. Plant Physiology and Biochemistry, 2018, 131, 1.	5.8	2
30	MYC-type transcription factors, MYC67 and MYC70, interact with ICE1 and negatively regulate cold tolerance in Arabidopsis. Scientific Reports, 2018, 8, 11622.	3.3	21
31	Targeted base editing in rice and tomato using a CRISPR-Cas9 cytidine deaminase fusion. Nature Biotechnology, 2017, 35, 441-443.	17.5	632
32	Current status and future of genome editing technologies for breeding of agricultural products. Ikushugaku Kenkyu, 2017, 19, 14-20.	0.3	1
33	Transcriptome and proteome analyses provide insight into laticifer's defense of Euphorbia tirucalli against pests. Plant Physiology and Biochemistry, 2016, 108, 434-446.	5.8	16
34	An Arabidopsis SUMO E3 Ligase, SIZ1, Negatively Regulates Photomorphogenesis by Promoting COP1 Activity. PLoS Genetics, 2016, 12, e1006016.	3.5	90
35	Overexpression of SIZ1 enhances tolerance to cold and salt stresses and attenuates response to abscisic acid in Arabidopsis thaliana. Plant Biotechnology, 2014, 31, 167-172.	1.0	19
36	Accumulation of endogenous salicylic acid confers drought tolerance to<i>Arabidopsis</i>. Plant Signaling and Behavior, 2014, 9, e28085.	2.4	51

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37	Regulation of water, salinity, and cold stress responses by salicylic acid. Frontiers in Plant Science, 2014, 5, 4.	3.6	582
38	<i><scp>XTH</scp>20</i> and <i><scp>XTH</scp>19</i> regulated by <scp>ANAC</scp>071 under auxin flow are involved in cell proliferation in incised <i>Arabidopsis</i> inflorescence stems. Plant Journal, 2014, 80, 604-614.	5.7	66
39	Raphanusanin-mediated resistance to pathogens is light dependent in radish and Arabidopsis thaliana. Planta, 2014, 240, 513-524.	3.2	2
40	Cold Signaling and Cold Response in Plants. International Journal of Molecular Sciences, 2013, 14, 5312-5337.	4.1	376
41	<scp><i>SIZ1</i></scp> deficiency causes reduced stomatal aperture and enhanced drought tolerance via controlling salicylic acidâ€induced accumulation of reactive oxygen species in <scp>A</scp>rabidopsis. Plant Journal, 2013, 73, 91-104.	5.7	238
42	Nitrogen and Phosphorus Nutrition Under Salinity Stress. , 2013, , 425-441.		13
43	ICE1, a Transcription Factor Involved in Cold Signaling and Tolerance. , 2013, , 189-195.		1
44	Abiotic Stress and Role of Salicylic Acid in Plants. , 2012, , 235-251.		74
45	MMS21/HPY2 and SIZ1, Two Arabidopsis SUMO E3 Ligases, Have Distinct Functions in Development. PLoS ONE, 2012, 7, e46897.	2.5	77
46	SlICE1 encoding a MYC-type transcription factor controls cold tolerance in tomato, Solanum lycopersicum. Plant Biotechnology, 2012, 29, 253-260.	1.0	65
47	Accumulation of antioxidants and antioxidant activity in tomato, Solanum lycopersicum, are enhanced by the transcription factor SlICE1. Plant Biotechnology, 2012, 29, 261-269.	1.0	26
48	ICE1 Ser403 is necessary for protein stabilization and regulation of cold signaling and tolerance. Plant Journal, 2011, 67, 269-279.	5.7	86
49	Increased tolerance to salt stress in the phosphate-accumulating Arabidopsis mutants siz1 and pho2. Planta, 2011, 234, 1191-1199.	3.2	56
50	Root architecture remodeling induced by phosphate starvation. Plant Signaling and Behavior, 2011, 6, 1122-1126.	2.4	33
51	<i>SIZ1</i> Regulation of Phosphate Starvation-Induced Root Architecture Remodeling Involves the Control of Auxin Accumulation Â Â Â. Plant Physiology, 2011, 155, 1000-1012.	4.8	175
52	The<i>Arabidopsis</i>GTL1 Transcription Factor Regulates Water Use Efficiency and Drought Tolerance by Modulating Stomatal Density via Transrepression of<i>SDD1</i>Â Â. Plant Cell, 2011, 22, 4128-4141.	6.6	295
53	Sumoylation and other ubiquitin-like post-translational modifications in plants. Trends in Cell Biology, 2010, 20, 223-232.	7.9	171
54	Comparative transcriptional profiling-based identification of raphanusanin-inducible genes. BMC Plant Biology, 2010, 10, 111.	3.6	2

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55	SIZ1 Controls Cell Growth and Plant Development in Arabidopsis Through Salicylic Acid. Plant and Cell Physiology, 2010, 51, 103-113.	3.1	134
56	SIZ1, a small ubiquitin-related modifier ligase, controls cold signaling through regulation of salicylic acid accumulation. Journal of Plant Physiology, 2010, 167, 555-560.	3.5	89
57	Cold-responsive gene regulation during cold acclimation in plants. Plant Signaling and Behavior, 2010, 5, 948-952.	2.4	66
58	The Phosphate Transporter PHT4;6 Is a Determinant of Salt Tolerance that Is Localized to the Golgi Apparatus of Arabidopsis. Molecular Plant, 2009, 2, 535-552.	8.3	83
59	Sumoylation and abscisic acid signaling. Plant Signaling and Behavior, 2009, 4, 1176-1178.	2.4	26
60	SUMO E3 Ligase HIGH PLOIDY2 Regulates Endocycle Onset and Meristem Maintenance in<i>Arabidopsis</i>Â Â. Plant Cell, 2009, 21, 2284-2297.	6.6	186
61	Sumoylation of ABI5 by the <i>Arabidopsis</i> SUMO E3 ligase SIZ1 negatively regulates abscisic acid signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5418-5423.	7.1	332
62	The SUMO E3 ligase, <i>AtSIZ1</i>, regulates flowering by controlling a salicylic acidâ€mediated floral promotion pathway and through affects on <i>FLC</i> chromatin structure. Plant Journal, 2008, 53, 530-540.	5.7	216
63	Regulation of cold signaling by sumoylation of ICE1. Plant Signaling and Behavior, 2008, 3, 52-53.	2.4	24
64	Expression Analysis of Genes Associated with the Induction of the Carbon-Concentrating Mechanism in <i>Chlamydomonas reinhardtii</i>. Plant Physiology, 2008, 147, 340-354.	4.8	99
65	Regulation of Plant Innate Immunity by SUMO E3 Ligase. Plant Signaling and Behavior, 2007, 2, 253-254.	2.4	14
66	SIZ1-Mediated Sumoylation of ICE1 Controls CBF3/DREB1A Expression and Freezing Tolerance in Arabidopsis. Plant Cell, 2007, 19, 1403-1414.	6.6	652
67	Sumoylation, a post-translational regulatory process in plants. Current Opinion in Plant Biology, 2007, 10, 495-502.	7.1	193
68	Salicylic acid-mediated innate immunity in Arabidopsis is regulated by SIZ1 SUMO E3 ligase. Plant Journal, 2006, 49, 79-90.	5.7	271
69	SIZ1 Small Ubiquitin-Like Modifier E3 Ligase Facilitates Basal Thermotolerance in Arabidopsis Independent of Salicylic Acid. Plant Physiology, 2006, 142, 1548-1558.	4.8	164
70	The Arabidopsis SUMO E3 ligase SIZ1 controls phosphate deficiency responses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7760-7765.	7.1	556
71	The Novel Myb Transcription Factor LCR1 Regulates the CO2-Responsive Gene Cah1, Encoding a Periplasmic Carbonic Anhydrase in Chlamydomonas reinhardtii Â[W]. Plant Cell, 2004, 16, 1466-1477.	6.6	108
72	Expression Profiling-Based Identification of CO2-Responsive Genes Regulated by CCM1 Controlling a Carbon-Concentrating Mechanism in Chlamydomonas reinhardtii. Plant Physiology, 2004, 135, 1595-1607.	4.8	188

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73	AtHKT1 Facilitates Na+ Homeostasis and K+ Nutrition in Planta. Plant Physiology, 2004, 136, 2500-2511.	4.8	297
74	The transcriptional program of synchronous gametogenesis in Chlamydomonas reinhardtii. Current Genetics, 2004, 46, 304-315.	1.7	53
75	Establishment of publicly available cDNA material and information resource of Chlamydomonas reinhardtii (Chlorophyta) to facilitate gene function analysis. Phycologia, 2004, 43, 722-726.	1.4	24
76	Archaeal-type rhodopsins in Chlamydomonas: model structure and intracellular localization. Biochemical and Biophysical Research Communications, 2003, 301, 711-717.	2.1	145
77	Regulation of a carbon concentrating mechanism through CCM1 in Chlamydomonas reinhardtii. Functional Plant Biology, 2002, 29, 211.	2.1	15
78	Ccm1, a regulatory gene controlling the induction of a carbon-concentrating mechanism in Chlamydomonas reinhardtii by sensing CO2 availability. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5347-5352.	7.1	167
79	Characteristics and Sequence of Phosphoglycolate Phosphatase from a Eukaryotic Green Alga Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2001, 276, 45573-45579.	3.4	35
80	Comparison of Expressed Sequence Tags from Male and Female Sexual Organs of Marchantia polymorpha. DNA Research, 2000, 7, 165-174.	3.4	20
81	Generation of Expressed Sequence Tags from Low-CO2 and High-CO2 Adapted Cells of Chlamydomonas reinhardtii. DNA Research, 2000, 7, 305-307.	3.4	107
82	Isolation and characterization of high-CO2 requiring mutants from Chlamydomonas reinhardtii by gene tagging. Canadian Journal of Botany, 1998, 76, 1092-1097.	1.1	11
83	Isolation and characterization of high-CO₂ requiring mutants from <I>Chlamydomonas</I> <I>reinhardtii</I> by gene tagging. Canadian Journal of Botany, 1998, 76, 1092-1097.	1.1	16