Yuriko Osakabe

List of Publications by Citations

76 papers	7,945 citations	41 h-index	81 g-index
81 ext. papers	9,749 ext. citations	6.8 avg, IF	6 L-index

#	Paper	IF	Citations
76	Functional analysis of an Arabidopsis transcription factor, DREB2A, involved in drought-responsive gene expression. *Plant Cell*, **2006**, 18, 1292-309	11.6	780
75	Response of plants to water stress. *Frontiers in Plant Science*, **2014**, 5, 86	6.2	740
74	Dual function of an Arabidopsis transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18822-7	11.5	561
73	Positive regulatory role of strigolactone in plant responses to drought and salt stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 851-6	11.5	370
72	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in Zea mays L. *Plant Journal*, **2007**, 50, 54-69	6.9	353
71	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. *Journal of Experimental Botany*, **2013**, 64, 445-58	7	274
70	Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. *Molecular Genetics and Genomics*, **2011**, 286, 321-32	3.1	253
69	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. *Development (Cambridge)*, **2010**, 137, 3911-20	6.6	249
68	Leucine-rich repeat receptor-like kinase1 is a key membrane-bound regulator of abscisic acid early signaling in Arabidopsis. *Plant Cell*, **2005**, 17, 1105-19	11.6	239
67	Osmotic stress responses and plant growth controlled by potassium transporters in Arabidopsis. *Plant Cell*, **2013**, 25, 609-24	11.6	237
66	Site-directed mutagenesis in Arabidopsis using custom-designed zinc finger nucleases. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12034-9	11.5	231
65	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. *New Phytologist*, **2014**, 202, 35-49	9.8	217
64	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. *Nature*, **2018**, 556, 235-238	50.4	214
63	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. *Plant Journal*, **2007**, 49, 46-63	6.9	204
62	Optimization of CRISPR/Cas9 genome editing to modify abiotic stress responses in plants. *Scientific Reports*, **2016**, 6, 26685	4.9	192
61	Efficient Genome Editing in Apple Using a CRISPR/Cas9 system. *Scientific Reports*, **2016**, 6, 31481	4.9	179
60	Genome editing with engineered nucleases in plants. *Plant and Cell Physiology*, **2015**, 56, 389-400	4.9	154

59	The phytochrome-interacting factor PIF7 negatively regulates DREB1 expression under circadian control in Arabidopsis. *Plant Physiology*, **2009**, 151, 2046-57	6.6	154
58	Rapid breeding of parthenocarpic tomato plants using CRISPR/Cas9. *Scientific Reports*, **2017**, 7, 507	4.9	147
57	Receptor-like protein kinase 2 (RPK 2) is a novel factor controlling anther development in Arabidopsis thaliana. *Plant Journal*, **2007**, 50, 751-66	6.9	147
56	Abiotic stress-inducible receptor-like kinases negatively control ABA signaling in Arabidopsis. *Plant Journal*, **2012**, 70, 599-613	6.9	130
55	Functional analysis of an Arabidopsis thaliana abiotic stress-inducible facilitated diffusion transporter for monosaccharides. *Journal of Biological Chemistry*, **2010**, 285, 1138-46	5.4	120
54	GmDREB2A;2, a canonical DEHYDRATION-RESPONSIVE ELEMENT-BINDING PROTEIN2-type transcription factor in soybean, is posttranslationally regulated and mediates dehydration-responsive element-dependent gene expression. *Plant Physiology*, **2013**, 161, 346-61	6.6	113
53	Overproduction of the membrane-bound receptor-like protein kinase 1, RPK1, enhances abiotic stress tolerance in Arabidopsis. *Journal of Biological Chemistry*, **2010**, 285, 9190-201	5.4	107
52	Arabidopsis DPB3-1, a DREB2A interactor, specifically enhances heat stress-induced gene expression by forming a heat stress-specific transcriptional complex with NF-Y subunits. *Plant Cell*, **2014**, 26, 4954-73	11.6	95
51	The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. *PLoS Genetics*, **2017**, 13, e1007076	6	87
50	Generation of □solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. *Plant Physiology and Biochemistry*, **2018**, 131, 70-77	5.4	86
49	CRISPR-Cas9-mediated genome editing in apple and grapevine. *Nature Protocols*, **2018**, 13, 2844-2863	18.8	86
48	Rice phytochrome-interacting factor-like protein OsPIL1 functions as a key regulator of internode elongation and induces a morphological response to drought stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 15947-52	11.5	84
47	Isolation and characterization of the RAD54 gene from Arabidopsis thaliana. *Plant Journal*, **2006**, 48, 827-42	6.9	75
46	An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. *Nature Plants*, **2019**, 5, 363-368	11.5	72
45	Overexpression of Arabidopsis response regulators, ARR4/ATRR1/IBC7 and ARR8/ATRR3, alters cytokinin responses differentially in the shoot and in callus formation. *Biochemical and Biophysical Research Communications*, **2002**, 293, 806-15	3.4	72
44	Characterization of the promoter region of an Arabidopsis gene for 9-cis-epoxycarotenoid dioxygenase involved in dehydration-inducible transcription. *DNA Research*, **2013**, 20, 315-24	4.5	67
43	Secondary xylem-specific expression of caffeoyl-coenzyme A 3-O-methyltransferase plays an important role in the methylation pathway associated with lignin biosynthesis in loblolly pine. *Plant Molecular Biology*, **1999**, 40, 555-65	4.6	64
42	Precision genome editing in plants: state-of-the-art in CRISPR/Cas9-based genome engineering. *BMC Plant Biology*, **2020**, 20, 234	5.3	63

41	Monosaccharide absorption activity of Arabidopsis roots depends on expression profiles of transporter genes under high salinity conditions. *Journal of Biological Chemistry*, **2011**, 286, 43577-86	5.4	57
40	Direct conversion of carlactonoic acid to orobanchol by cytochrome P450 CYP722C in strigolactone biosynthesis. *Science Advances*, **2019**, 5, eaax9067	14.3	52
39	Efficient Multiplex Genome Editing Induces Precise, and Self-Ligated Type Mutations in Tomato Plants. *Frontiers in Plant Science*, **2018**, 9, 916	6.2	48
38	Genome editing in the mushroom-forming basidiomycete Coprinopsis cinerea, optimized by a high-throughput transformation system. *Scientific Reports*, **2017**, 7, 1260	4.9	47
37	MYB transcription factor gene involved in sex determination in Asparagus officinalis. *Genes To Cells*, **2017**, 22, 115-123	2.3	42
36	Genetic engineering of woody plants: current and future targets in a stressful environment. *Physiologia Plantarum*, **2011**, 142, 105-17	4.6	42
35	Stabilization of Arabidopsis DREB2A is required but not sufficient for the induction of target genes under conditions of stress. *PLoS ONE*, **2013**, 8, e80457	3.7	41
34	Responses to environmental stresses in woody plants: key to survive and longevity. *Journal of Plant Research*, **2012**, 125, 1-10	2.6	27
33	Immunocytochemical localization of phenylalanine ammonia-lyase in tissues of Populus kitakamiensis. *Planta*, **1996**, 200, 13-9	4.7	26
32	Efficient and Heritable Targeted Mutagenesis in Mosses Using the CRISPR/Cas9 System. *Plant and Cell Physiology*, **2016**, 57, 2600-2610	4.9	24
31	Structure and tissue-specific expression of genes for phenylalanine ammonia-lyase from a hybrid aspen, Populus kitakamiensis. *Plant Science*, **1995**, 105, 217-226	5.3	24
30	Characterization of the structure and determination of mRNA levels of the phenylalanine ammonia-lyase gene family from Populus kitakamiensis. *Plant Molecular Biology*, **1995**, 28, 1133-41	4.6	23
29	Lignin characterization of rice CONIFERALDEHYDE 5-HYDROXYLASE loss-of-function mutants generated with the CRISPR/Cas9 system. *Plant Journal*, **2019**, 97, 543-554	6.9	22
28	Genome Editing to Improve Abiotic Stress Responses in Plants. *Progress in Molecular Biology and Translational Science*, **2017**, 149, 99-109	4	21
27	OsMYB108 loss-of-function enriches p-coumaroylated and tricin lignin units in rice cell walls. *Plant Journal*, **2019**, 98, 975-987	6.9	21
26	Genome editing in plants using CRISPR type I-D nuclease. *Communications Biology*, **2020**, 3, 648	6.7	20
25	A mutated cytosine deaminase gene, codA (D314A), as an efficient negative selection marker for gene targeting in rice. *Plant and Cell Physiology*, **2014**, 55, 658-65	4.9	20
24	Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVE2 in drought adaptation of Arabidopsis thaliana. *Plant Journal*, **2020**, 103, 111-127	6.9	19

23	Characterization of the tissue-specific expression of phenylalanine ammonia-lyase gene promoter from loblolly pine (Pinus taeda) in Nicotiana tabacum. *Plant Cell Reports*, **2009**, 28, 1309-17	5.1	18
22	Sugar compartmentation as an environmental stress adaptation strategy in plants. *Seminars in Cell and Developmental Biology*, **2018**, 83, 106-114	7.5	15
21	Isolation of 4-coumarate Co-A ligase gene promoter from loblolly pine (Pinus taeda) and characterization of tissue-specific activity in transgenic tobacco. *Plant Physiology and Biochemistry*, **2009**, 47, 1031-6	5.4	14
20	Genome engineering of woody plants: past, present and future. *Journal of Wood Science*, **2016**, 62, 217-225	2.4	13
19	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	4.9	12
18	A C-terminal motif contributes to the plasma membrane localization of Arabidopsis STP transporters. *PLoS ONE*, **2017**, 12, e0186326	3.7	10
17	Double knockout of OsWRKY36 and OsWRKY102 boosts lignification with altering culm morphology of rice. *Plant Science*, **2020**, 296, 110466	5.3	9
16	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. *Development (Cambridge)*, **2010**, 137, 4327-4327	6.6	9
15	Characterization of steroid 5□reductase involved in □tomatine biosynthesis in tomatoes. *Plant Biotechnology*, **2019**, 36, 253-263	1.3	9
14	Genome editing in mammalian cells using the CRISPR type I-D nuclease. *Nucleic Acids Research*, **2021**, 49, 6347-6363	20.1	7
13	Plant Environmental Stress Responses for Survival and Biomass Enhancement **2013**, 79-108		5
12	Plant Light Stress **2012**,		5
11	Targeted mutagenesis of CENTRORADIALIS using CRISPR/Cas9 system through the improvement of genetic transformation efficiency of tetraploid highbush blueberry. *Journal of Horticultural Science and Biotechnology*, **2021**, 96, 153-161	1.9	5
10	Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. *Journal of Wood Science*, **2010**, 56, 460-469	2.4	4
9	Expanding the plant genome editing toolbox with recently developed CRISPR-Cas systems.. *Plant Physiology*, **2022**,	6.6	4
8	Immunological detection and cellular localization of the phenylalanine ammonia-lyase of a hybrid aspen. *Plant Biotechnology*, **2006**, 23, 399-404	1.3	4
7	Effects of the Mutation on Shoot Elongation Growth of Tomato Cultivars. *Frontiers in Plant Science*, **2021**, 12, 627832	6.2	3
6	Efficient generation of null-segregant parthenocarpic tomato by CRISPR/Cas9 editing		2

5	Genome editing in mammals using CRISPR type I-D nuclease		2
4	Genome Editing in Higher Plants **2015**, 197-205		1
3	Crop Breeding Using CRISPR/Cas9 **2018**, 451-464		1
2	Transcription Factors: Improving Abiotic Stress Tolerance in Plants **2012**, 591-621		1
1	Genome Editing in Apple. *Compendium of Plant Genomes*, **2021**, 213-225	0.8	0