

# Yuriko Osakabe

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Expanding the plant genome editing toolbox with recently developed CRISPR-Cas systems.. <i>Plant Physiology</i> , <b>2022</b> ,	6.6	4
75	Effects of the Mutation on Shoot Elongation Growth of Tomato Cultivars. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 627832	6.2	3
74	Genome editing in mammalian cells using the CRISPR type I-D nuclease. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 6347-6363	20.1	7
73	Targeted mutagenesis of CENTRORADIALIS using CRISPR/Cas9 system through the improvement of genetic transformation efficiency of tetraploid highbush blueberry. <i>Journal of Horticultural Science and Biotechnology</i> , <b>2021</b> , 96, 153-161	1.9	5
72	Genome Editing in Apple. <i>Compendium of Plant Genomes</i> , <b>2021</b> , 213-225	0.8	0
71	Genome editing in plants using CRISPR type I-D nuclease. <i>Communications Biology</i> , <b>2020</b> , 3, 648	6.7	20
70	Precision genome editing in plants: state-of-the-art in CRISPR/Cas9-based genome engineering. <i>BMC Plant Biology</i> , <b>2020</b> , 20, 234	5.3	63
69	Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVE2 in drought adaptation of Arabidopsis thaliana. <i>Plant Journal</i> , <b>2020</b> , 103, 111-127	6.9	19
68	Double knockout of OsWRKY36 and OsWRKY102 boosts lignification with altering culm morphology of rice. <i>Plant Science</i> , <b>2020</b> , 296, 110466	5.3	9
67	An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. <i>Nature Plants</i> , <b>2019</b> , 5, 363-368	11.5	72
66	Lotus japonicus Triterpenoid Profile and Characterization of the CYP716A51 and LjCYP93E1 Genes Involved in Their Biosynthesis In Planta. <i>Plant and Cell Physiology</i> , <b>2019</b> , 60, 2496-2509	4.9	12
65	OsMYB108 loss-of-function enriches p-coumaroylated and triclin lignin units in rice cell walls. <i>Plant Journal</i> , <b>2019</b> , 98, 975-987	6.9	21
64	Characterization of steroid 5β-reductase involved in β-tomatine biosynthesis in tomatoes. <i>Plant Biotechnology</i> , <b>2019</b> , 36, 253-263	1.3	9
63	Direct conversion of carlactonoic acid to orobanchol by cytochrome P450 CYP722C in strigolactone biosynthesis. <i>Science Advances</i> , <b>2019</b> , 5, eaax9067	14.3	52
62	Lignin characterization of rice CONIFERALDEHYDE 5-HYDROXYLASE loss-of-function mutants generated with the CRISPR/Cas9 system. <i>Plant Journal</i> , <b>2019</b> , 97, 543-554	6.9	22
61	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. <i>Nature</i> , <b>2018</b> , 556, 235-238	50.4	214
60	Sugar compartmentation as an environmental stress adaptation strategy in plants. <i>Seminars in Cell and Developmental Biology</i> , <b>2018</b> , 83, 106-114	7.5	15

59	Generation of β-alanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the St16DOX gene. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 131, 70-77	5.4	86
58	Crop Breeding Using CRISPR/Cas9 <b>2018</b> , 451-464		1
57	Efficient Multiplex Genome Editing Induces Precise, and Self-Ligated Type Mutations in Tomato Plants. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 916	6.2	48
56	CRISPR-Cas9-mediated genome editing in apple and grapevine. <i>Nature Protocols</i> , <b>2018</b> , 13, 2844-2863	18.8	86
55	Rapid breeding of parthenocarpic tomato plants using CRISPR/Cas9. <i>Scientific Reports</i> , <b>2017</b> , 7, 507	4.9	147
54	The karrikin receptor KAI2 promotes drought resistance in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007076	6	87
53	Genome Editing to Improve Abiotic Stress Responses in Plants. <i>Progress in Molecular Biology and Translational Science</i> , <b>2017</b> , 149, 99-109	4	21
52	Genome editing in the mushroom-forming basidiomycete <i>Coprinopsis cinerea</i> , optimized by a high-throughput transformation system. <i>Scientific Reports</i> , <b>2017</b> , 7, 1260	4.9	47
51	MYB transcription factor gene involved in sex determination in <i>Asparagus officinalis</i> . <i>Genes To Cells</i> , <b>2017</b> , 22, 115-123	2.3	42
50	A C-terminal motif contributes to the plasma membrane localization of <i>Arabidopsis</i> STP transporters. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186326	3.7	10
49	Optimization of CRISPR/Cas9 genome editing to modify abiotic stress responses in plants. <i>Scientific Reports</i> , <b>2016</b> , 6, 26685	4.9	192
48	Efficient Genome Editing in Apple Using a CRISPR/Cas9 system. <i>Scientific Reports</i> , <b>2016</b> , 6, 31481	4.9	179
47	Efficient and Heritable Targeted Mutagenesis in Mosses Using the CRISPR/Cas9 System. <i>Plant and Cell Physiology</i> , <b>2016</b> , 57, 2600-2610	4.9	24
46	Genome engineering of woody plants: past, present and future. <i>Journal of Wood Science</i> , <b>2016</b> , 62, 217-225	2.4	13
45	Genome Editing in Higher Plants <b>2015</b> , 197-205		1
44	Genome editing with engineered nucleases in plants. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 389-400	4.9	154
43	A mutated cytosine deaminase gene, <i>codA</i> (D314A), as an efficient negative selection marker for gene targeting in rice. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 658-65	4.9	20
42	Positive regulatory role of strigolactone in plant responses to drought and salt stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 851-6	11.5	370

41	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. <i>New Phytologist</i> , <b>2014</b> , 202, 35-49	9.8	217
40	Response of plants to water stress. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 86	6.2	740
39	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. <i>Plant Cell</i> , <b>2014</b> , 26, 4954-73	11.6	95
38	Plant Environmental Stress Responses for Survival and Biomass Enhancement <b>2013</b> , 79-108		5
37	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 445-58	7	274
36	Osmotic stress responses and plant growth controlled by potassium transporters in Arabidopsis. <i>Plant Cell</i> , <b>2013</b> , 25, 609-24	11.6	237
35	Characterization of the promoter region of an Arabidopsis gene for 9-cis-epoxycarotenoid dioxygenase involved in dehydration-inducible transcription. <i>DNA Research</i> , <b>2013</b> , 20, 315-24	4.5	67
34	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. <i>Plant Physiology</i> , <b>2013</b> , 161, 346-61	6.6	113
33	Stabilization of Arabidopsis DREB2A is required but not sufficient for the induction of target genes under conditions of stress. <i>PLoS ONE</i> , <b>2013</b> , 8, e80457	3.7	41
32	Abiotic stress-inducible receptor-like kinases negatively control ABA signaling in Arabidopsis. <i>Plant Journal</i> , <b>2012</b> , 70, 599-613	6.9	130
31	Responses to environmental stresses in woody plants: key to survive and longevity. <i>Journal of Plant Research</i> , <b>2012</b> , 125, 1-10	2.6	27
30	Rice phytochrome-interacting factor-like protein OsPIL1 functions as a key regulator of internode elongation and induces a morphological response to drought stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15947-52	11.5	84
29	Plant Light Stress <b>2012</b> ,		5
28	Transcription Factors: Improving Abiotic Stress Tolerance in Plants <b>2012</b> , 591-621		1
27	Monosaccharide absorption activity of Arabidopsis roots depends on expression profiles of transporter genes under high salinity conditions. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 43577-86	5.4	57
26	Genetic engineering of woody plants: current and future targets in a stressful environment. <i>Physiologia Plantarum</i> , <b>2011</b> , 142, 105-17	4.6	42
25	Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. <i>Molecular Genetics and Genomics</i> , <b>2011</b> , 286, 321-32	3.1	253
24	Functional analysis of an Arabidopsis thaliana abiotic stress-inducible facilitated diffusion transporter for monosaccharides. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 1138-46	5.4	120

23	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 4327-4327	6.6	9
22	Overproduction of the membrane-bound receptor-like protein kinase 1, RPK1, enhances abiotic stress tolerance in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 9190-201	5.4	107
21	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 3911-20	6.6	249
20	Site-directed mutagenesis in Arabidopsis using custom-designed zinc finger nucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 12034-9	11.5	231
19	Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. <i>Journal of Wood Science</i> , <b>2010</b> , 56, 460-469	2.4	4
18	The phytochrome-interacting factor PIF7 negatively regulates DREB1 expression under circadian control in Arabidopsis. <i>Plant Physiology</i> , <b>2009</b> , 151, 2046-57	6.6	154
17	Characterization of the tissue-specific expression of phenylalanine ammonia-lyase gene promoter from loblolly pine ( <i>Pinus taeda</i> ) in <i>Nicotiana tabacum</i> . <i>Plant Cell Reports</i> , <b>2009</b> , 28, 1309-17	5.1	18
16	Isolation of 4-coumarate Co-A ligase gene promoter from loblolly pine ( <i>Pinus taeda</i> ) and characterization of tissue-specific activity in transgenic tobacco. <i>Plant Physiology and Biochemistry</i> , <b>2009</b> , 47, 1031-6	5.4	14
15	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in <i>Zea mays</i> L. <i>Plant Journal</i> , <b>2007</b> , 50, 54-69	6.9	353
14	Receptor-like protein kinase 2 (RPK 2) is a novel factor controlling anther development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>2007</b> , 50, 751-66	6.9	147
13	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. <i>Plant Journal</i> , <b>2007</b> , 49, 46-63	6.9	204
12	Functional analysis of an Arabidopsis transcription factor, DREB2A, involved in drought-responsive gene expression. <i>Plant Cell</i> , <b>2006</b> , 18, 1292-309	11.6	780
11	Dual function of an Arabidopsis transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18822-7	11.5	561
10	Isolation and characterization of the RAD54 gene from <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>2006</b> , 48, 827-42	6.9	75
9	Immunological detection and cellular localization of the phenylalanine ammonia-lyase of a hybrid aspen. <i>Plant Biotechnology</i> , <b>2006</b> , 23, 399-404	1.3	4
8	Leucine-rich repeat receptor-like kinase1 is a key membrane-bound regulator of abscisic acid early signaling in Arabidopsis. <i>Plant Cell</i> , <b>2005</b> , 17, 1105-19	11.6	239
7	Overexpression of Arabidopsis response regulators, ARR4/ATRR1/IBC7 and ARR8/ATRR3, alters cytokinin responses differentially in the shoot and in callus formation. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 293, 806-15	3.4	72
6	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. <i>Plant Molecular Biology</i> , <b>1999</b> , 40, 555-65	4.6	64

5	Immunocytochemical localization of phenylalanine ammonia-lyase in tissues of <i>Populus kitakamiensis</i> . <i>Planta</i> , <b>1996</b> , 200, 13-9	4.7	26
4	Characterization of the structure and determination of mRNA levels of the phenylalanine ammonia-lyase gene family from <i>Populus kitakamiensis</i> . <i>Plant Molecular Biology</i> , <b>1995</b> , 28, 1133-41	4.6	23
3	Structure and tissue-specific expression of genes for phenylalanine ammonia-lyase from a hybrid aspen, <i>Populus kitakamiensis</i> . <i>Plant Science</i> , <b>1995</b> , 105, 217-226	5.3	24
2	Efficient generation of null-segregant parthenocarpic tomato by CRISPR/Cas9 editing		2
1	Genome editing in mammals using CRISPR type I-D nuclease		2