

Yuriko Osakabe

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

11,134
citations

53660

45
h-index

88477

70
g-index

81
all docs

81
docs citations

81
times ranked

11862
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Response of plants to water stress. <i>Frontiers in Plant Science</i> , 2014, 5, 86. | 1.7 | 1,091 |
| 2 | Functional Analysis of an Arabidopsis Transcription Factor, DREB2A, Involved in Drought-Responsive Gene Expression. <i>Plant Cell</i> , 2006, 18, 1292-1309. | 3.1 | 968 |
| 3 | 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> , 2006, 103, 18822-18827. | 3.3 | 694 |
| 4 | 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> , 2014, 111, 851-856. | 3.3 | 555 |
| 5 | Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in Zea mays L. <i>Plant Journal</i> , 2007, 50, 54-69. | 2.8 | 447 |
| 6 | A small peptide modulates stomatal control via abscisic acid in long-distance signalling. <i>Nature</i> , 2018, 556, 235-238. | 13.7 | 396 |
| 7 | Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. <i>Molecular Genetics and Genomics</i> , 2011, 286, 321-332. | 1.0 | 377 |
| 8 | Osmotic Stress Responses and Plant Growth Controlled by Potassium Transporters in Arabidopsis. <i>Plant Cell</i> , 2013, 25, 609-624. | 3.1 | 350 |
| 9 | Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. <i>Journal of Experimental Botany</i> , 2013, 64, 445-458. | 2.4 | 325 |
| 10 | ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. <i>New Phytologist</i> , 2014, 202, 35-49. | 3.5 | 321 |
| 11 | Leucine-Rich Repeat Receptor-Like Kinase1 Is a Key Membrane-Bound Regulator of Abscisic Acid Early Signaling in Arabidopsis. <i>Plant Cell</i> , 2005, 17, 1105-1119. | 3.1 | 313 |
| 12 | RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. <i>Development (Cambridge)</i> , 2010, 137, 3911-3920. | 1.2 | 291 |
| 13 | 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> , 2010, 107, 12034-12039. | 3.3 | 282 |
| 14 | Optimization of CRISPR/Cas9 genome editing to modify abiotic stress responses in plants. <i>Scientific Reports</i> , 2016, 6, 26685. | 1.6 | 270 |
| 15 | Efficient Genome Editing in Apple Using a CRISPR/Cas9 system. <i>Scientific Reports</i> , 2016, 6, 31481. | 1.6 | 270 |
| 16 | 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> , 2006, 49, 46-63. | 2.8 | 256 |
| 17 | Rapid breeding of parthenocarpic tomato plants using CRISPR/Cas9. <i>Scientific Reports</i> , 2017, 7, 507. | 1.6 | 208 |
| 18 | Genome Editing with Engineered Nucleases in Plants. <i>Plant and Cell Physiology</i> , 2015, 56, 389-400. | 1.5 | 204 |

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|----|---|-----|-----------|
| 19 | The Phytochrome-Interacting Factor PIF7 Negatively Regulates <i>DREB1</i> Expression under Circadian Control in Arabidopsis. <i>Plant Physiology</i> , 2009, 151, 2046-2057. | 2.3 | 181 |
| 20 | Receptor-like protein kinase 2 (RPK 2) is a novel factor controlling anther development in Arabidopsis thaliana. <i>Plant Journal</i> , 2007, 50, 751-766. | 2.8 | 171 |
| 21 | Abiotic stress-inducible receptor-like kinases negatively control ABA signaling in Arabidopsis. <i>Plant Journal</i> , 2012, 70, 599-613. | 2.8 | 168 |
| 22 | Precision genome editing in plants: state-of-the-art in CRISPR/Cas9-based genome engineering. <i>BMC Plant Biology</i> , 2020, 20, 234. | 1.6 | 152 |
| 23 | Functional Analysis of an Arabidopsis thaliana Abiotic Stress-inducible Facilitated Diffusion Transporter for Monosaccharides. <i>Journal of Biological Chemistry</i> , 2010, 285, 1138-1146. | 1.6 | 151 |
| 24 | Generation of \pm -solanine-free hairy roots of potato by CRISPR/Cas9 mediated genome editing of the <i>St16DOX</i> gene. <i>Plant Physiology and Biochemistry</i> , 2018, 131, 70-77. | 2.8 | 150 |
| 25 | 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> , 2012, 161, 346-361. | 2.3 | 149 |
| 26 | <i>Arabidopsis</i> 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> , 2014, 26, 4954-4973. | 3.1 | 143 |
| 27 | CRISPR-Cas9-mediated genome editing in apple and grapevine. <i>Nature Protocols</i> , 2018, 13, 2844-2863. | 5.5 | 142 |
| 28 | The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2017, 13, e1007076. | 1.5 | 140 |
| 29 | An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. <i>Nature Plants</i> , 2019, 5, 363-368. | 4.7 | 135 |
| 30 | Overproduction of the Membrane-bound Receptor-like Protein Kinase 1, RPK1, Enhances Abiotic Stress Tolerance in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2010, 285, 9190-9201. | 1.6 | 133 |
| 31 | Direct conversion of carlactonoic acid to orobanchol by cytochrome P450 CYP722C in strigolactone biosynthesis. <i>Science Advances</i> , 2019, 5, eaax9067. | 4.7 | 122 |
| 32 | 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> , 2012, 109, 15947-15952. | 3.3 | 119 |
| 33 | Characterization of the Promoter Region of an Arabidopsis Gene for 9-cis-Epoxycarotenoid Dioxygenase Involved in Dehydration-Inducible Transcription. <i>DNA Research</i> , 2013, 20, 315-324. | 1.5 | 93 |
| 34 | Monosaccharide Absorption Activity of Arabidopsis Roots Depends on Expression Profiles of Transporter Genes under High Salinity Conditions. <i>Journal of Biological Chemistry</i> , 2011, 286, 43577-43586. | 1.6 | 88 |
| 35 | Isolation and characterization of the <i>RAD54</i> gene from Arabidopsis thaliana. <i>Plant Journal</i> , 2006, 48, 827-842. | 2.8 | 84 |
| 36 | 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> , 2002, 293, 806-815. | 1.0 | 81 |

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|----|---|-----|-----------|
| 37 | Genome editing in the mushroom-forming basidiomycete <i>Coprinopsis cinerea</i> , optimized by a high-throughput transformation system. <i>Scientific Reports</i> , 2017, 7, 1260. | 1.6 | 79 |
| 38 | 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> , 1999, 40, 555-565. | 2.0 | 72 |
| 39 | Efficient Multiplex Genome Editing Induces Precise, and Self-Ligated Type Mutations in Tomato Plants. <i>Frontiers in Plant Science</i> , 2018, 9, 916. | 1.7 | 65 |
| 40 | MYB transcription factor gene involved in sex determination in <i>Asparagus officinalis</i> . <i>Genes To Cells</i> , 2017, 22, 115-123. | 0.5 | 59 |
| 41 | Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVE2 in drought adaptation of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2020, 103, 111-127. | 2.8 | 58 |
| 42 | Genetic engineering of woody plants: current and future targets in a stressful environment. <i>Physiologia Plantarum</i> , 2011, 142, 105-117. | 2.6 | 57 |
| 43 | OsMYB108 loss-of-function enriches p-coumaroylated and triclin lignin units in rice cell walls. <i>Plant Journal</i> , 2019, 98, 975-987. | 2.8 | 57 |
| 44 | Genome editing in plants using CRISPR type I-D nuclease. <i>Communications Biology</i> , 2020, 3, 648. | 2.0 | 53 |
| 45 | Stabilization of Arabidopsis DREB2A Is Required but Not Sufficient for the Induction of Target Genes under Conditions of Stress. <i>PLoS ONE</i> , 2013, 8, e80457. | 1.1 | 52 |
| 46 | Lignin characterization of rice <i>CONIFERALDEHYDE 5-HYDROXYLASE</i> loss-of-function mutants generated with the CRISPR/Cas9 system. <i>Plant Journal</i> , 2019, 97, 543-554. | 2.8 | 40 |
| 47 | Expanding the plant genome editing toolbox with recently developed CRISPR-Cas systems. <i>Plant Physiology</i> , 2022, 188, 1825-1837. | 2.3 | 39 |
| 48 | Efficient and Heritable Targeted Mutagenesis in Mosses Using the CRISPR/Cas9 System. <i>Plant and Cell Physiology</i> , 2016, 57, 2600-2610. | 1.5 | 35 |
| 49 | Responses to environmental stresses in woody plants: key to survive and longevity. <i>Journal of Plant Research</i> , 2012, 125, 1-10. | 1.2 | 34 |
| 50 | Genome Editing to Improve Abiotic Stress Responses in Plants. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 149, 99-109. | 0.9 | 32 |
| 51 | Immunocytochemical localization of phenylalanine ammonia-lyase in tissues of <i>Populus kitakamiensis</i> . <i>Planta</i> , 1996, 200, 13-9. | 1.6 | 31 |
| 52 | Structure and tissue-specific expression of genes for phenylalanine ammonia-lyase from a hybrid aspen, <i>Populus kitakamiensis</i> . <i>Plant Science</i> , 1995, 105, 217-226. | 1.7 | 29 |
| 53 | Genome editing in mammalian cells using the CRISPR type I-D nuclease. <i>Nucleic Acids Research</i> , 2021, 49, 6347-6363. | 6.5 | 29 |
| 54 | Sugar compartmentation as an environmental stress adaptation strategy in plants. <i>Seminars in Cell and Developmental Biology</i> , 2018, 83, 106-114. | 2.3 | 28 |

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|----|--|-----|-----------|
| 55 | 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> , 1995, 28, 1133-1141. | 2.0 | 25 |
| 56 | 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> , 2014, 55, 658-665. | 1.5 | 22 |
| 57 | Characterization of steroid 5 β -reductase involved in β -tomatine biosynthesis in tomatoes. <i>Plant Biotechnology</i> , 2019, 36, 253-263. | 0.5 | 22 |
| 58 | <i>Lotus japonicus</i> Triterpenoid Profile and Characterization of the CYP716A51 and LjCYP93E1 Genes Involved in Their Biosynthesis In Planta. <i>Plant and Cell Physiology</i> , 2019, 60, 2496-2509. | 1.5 | 21 |
| 59 | Double knockout of OsWRKY36 and OsWRKY102 boosts lignification with altering culm morphology of rice. <i>Plant Science</i> , 2020, 296, 110466. | 1.7 | 21 |
| 60 | Targeted mutagenesis of <i>CENTRORADIALIS</i> using CRISPR/Cas9 system through the improvement of genetic transformation efficiency of tetraploid highbush blueberry. <i>Journal of Horticultural Science and Biotechnology</i> , 2021, 96, 153-161. | 0.9 | 21 |
| 61 | 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> , 2009, 28, 1309-1317. | 2.8 | 19 |
| 62 | Genome engineering of woody plants: past, present and future. <i>Journal of Wood Science</i> , 2016, 62, 217-225. | 0.9 | 19 |
| 63 | 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> , 2009, 47, 1031-1036. | 2.8 | 15 |
| 64 | A C-terminal motif contributes to the plasma membrane localization of Arabidopsis STP transporters. <i>PLoS ONE</i> , 2017, 12, e0186326. | 1.1 | 14 |
| 65 | RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2010, 137, 4327-4327. | 1.2 | 12 |
| 66 | Effects of the <i>sliaa9</i> Mutation on Shoot Elongation Growth of Tomato Cultivars. <i>Frontiers in Plant Science</i> , 2021, 12, 627832. | 1.7 | 11 |
| 67 | Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. <i>Journal of Wood Science</i> , 2010, 56, 460-469. | 0.9 | 6 |
| 68 | Immunological detection and cellular localization of the phenylalanine ammonia-lyase of a hybrid aspen. <i>Plant Biotechnology</i> , 2006, 23, 399-404. | 0.5 | 4 |
| 69 | Crop Breeding Using CRISPR/Cas9. , 2018, , 451-464. | | 3 |
| 70 | Genome Editing in Higher Plants. , 2015, , 197-205. | | 2 |
| 71 | Genome Editing in Apple. <i>Compendium of Plant Genomes</i> , 2021, , 213-225. | 0.3 | 2 |
| 72 | Environmental sensing and plant development. <i>Seminars in Cell and Developmental Biology</i> , 2018, 83, 67-68. | 2.3 | 0 |

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|----|---|-----|-----------|
| 73 | Measurement of Potassium Content in Arabidopsis. Bio-protocol, 2013, 3, . | 0.2 | 0 |