

Masanori Okamoto

List of Publications by Year in descending order

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57
papers

7,736
citations

136950

32
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

7759
citing authors

#	ARTICLE	IF	CITATIONS
1	The Arabidopsis cytochrome P450 CYP707A encodes ABA 8â€²-hydroxylases: key enzymes in ABA catabolism. <i>EMBO Journal</i> , 2004, 23, 1647-1656.	7.8	872
2	Genome-wide profiling of stored mRNA in Arabidopsis thaliana seed germination: epigenetic and genetic regulation of transcription in seed. <i>Plant Journal</i> , 2005, 41, 697-709.	5.7	528
3	Arabidopsis Transcriptome Analysis under Drought, Cold, High-Salinity and ABA Treatment Conditions using a Tiling Array. <i>Plant and Cell Physiology</i> , 2008, 49, 1135-1149.	3.1	475
4	CYP707A1 and CYP707A2, Which Encode Abscisic Acid 8â€²-Hydroxylases, Are Indispensable for Proper Control of Seed Dormancy and Germination in Arabidopsis. <i>Plant Physiology</i> , 2006, 141, 97-107.	4.8	473
5	Functional analysis of Arabidopsis NCED6 and NCED9 genes indicates that ABA synthesized in the endosperm is involved in the induction of seed dormancy. <i>Plant Journal</i> , 2006, 45, 309-319.	5.7	434
6	Regulation of hormone metabolism in Arabidopsis seeds: phytochrome regulation of abscisic acid metabolism and abscisic acid regulation of gibberellin metabolism. <i>Plant Journal</i> , 2006, 48, 354-366.	5.7	403
7	High Temperature-Induced Abscisic Acid Biosynthesis and Its Role in the Inhibition of Gibberellin Action in Arabidopsis Seeds. <i>Plant Physiology</i> , 2008, 146, 1368-1385.	4.8	379
8	Abscisic acid and the control of seed dormancy and germination. <i>Seed Science Research</i> , 2010, 20, 55-67.	1.7	369
9	The Transcription Factor FUSCA3 Controls Developmental Timing in Arabidopsis through the Hormones Gibberellin and Abscisic Acid. <i>Developmental Cell</i> , 2004, 7, 373-385.	7.0	352
10	Drought Induction of Arabidopsis 9-cis-Epoxycarotenoid Dioxygenase Occurs in Vascular Parenchyma Cells. <i>Plant Physiology</i> , 2008, 147, 1984-1993.	4.8	310
11	CYP707A3, a major ABA 8â€²-hydroxylase involved in dehydration and rehydration response in Arabidopsis thaliana. <i>Plant Journal</i> , 2006, 46, 171-182.	5.7	294
12	Activation of dimeric ABA receptors elicits guard cell closure, ABA-regulated gene expression, and drought tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12132-12137.	7.1	262
13	Ethylene Promotes Submergence-Induced Expression of OsABA8ox1, a Gene that Encodes ABA 8'-Hydroxylase in Rice. <i>Plant and Cell Physiology</i> , 2006, 48, 287-298.	3.1	223
14	High Humidity Induces Abscisic Acid 8â€²-Hydroxylase in Stomata and Vasculature to Regulate Local and Systemic Abscisic Acid Responses in Arabidopsis. <i>Plant Physiology</i> , 2009, 149, 825-834.	4.8	216
15	Tuning water-use efficiency and drought tolerance in wheat using abscisic acid receptors. <i>Nature Plants</i> , 2019, 5, 153-159.	9.3	203
16	Small open reading frames associated with morphogenesis are hidden in plant genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2395-2400.	7.1	178
17	NIN-like protein 8 is a master regulator of nitrate-promoted seed germination in Arabidopsis. <i>Nature Communications</i> , 2016, 7, 13179.	12.8	147
18	Conversion of carlactone to carlactonoic acid is a conserved function of MAX1 homologs in strigolactone biosynthesis. <i>New Phytologist</i> , 2018, 218, 1522-1533.	7.3	147

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19	Ectopic Expression of ABSCISIC ACID 2/GLUCOSE INSENSITIVE 1 in Arabidopsis Promotes Seed Dormancy and Stress Tolerance. <i>Plant Physiology</i> , 2007, 143, 745-758.	4.8	134
20	Activation of abscisic acid biosynthesis in the leaves of <i>Arabidopsis thaliana</i> in response to water deficit. <i>Journal of Plant Research</i> , 2009, 122, 235-243.	2.4	125
21	A Plant Growth Retardant, Uniconazole, Is a Potent Inhibitor of ABA Catabolism in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1731-1739.	1.3	109
22	Genome-wide analysis of endogenous abscisic acid-mediated transcription in dry and imbibed seeds of <i>Arabidopsis</i> using tiling arrays. <i>Plant Journal</i> , 2010, 62, 39-51.	5.7	109
23	Dynamic control of plant water use using designed ABA receptor agonists. <i>Science</i> , 2019, 366, .	12.6	107
24	Designed abscisic acid analogs as antagonists of PYL-PP2C receptor interactions. <i>Nature Chemical Biology</i> , 2014, 10, 477-482.	8.0	98
25	AtPep3 is a hormone-like peptide that plays a role in the salinity stress tolerance of plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5810-5815.	7.1	89
26	Small Molecule Probes of ABA Biosynthesis and Signaling. <i>Plant and Cell Physiology</i> , 2018, 59, 1490-1499.	3.1	70
27	Tissue-Specific Transcriptome Analysis Reveals Cell Wall Metabolism, Flavonol Biosynthesis and Defense Responses are Activated in the Endosperm of Germinating <i>Arabidopsis thaliana</i> Seeds. <i>Plant and Cell Physiology</i> , 2012, 53, 16-27.	3.1	58
28	ABA 9 α -hydroxylation is catalyzed by CYP707A in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2011, 72, 717-722.	2.9	52
29	Abscinazole-E3M, a practical inhibitor of abscisic acid 8 α -hydroxylase for improving drought tolerance. <i>Scientific Reports</i> , 2016, 6, 37060.	3.3	48
30	Transient expression of AtNCED3 and AAO3 genes in guard cells causes stomatal closure in <i>Vicia faba</i> . <i>Journal of Plant Research</i> , 2008, 121, 125-131.	2.4	43
31	RNA-Seq using bulked recombinant inbred line populations uncovers the importance of brassinosteroid for seed longevity after priming treatments. <i>Scientific Reports</i> , 2017, 7, 8095.	3.3	40
32	Origin and evolution of genes related to ABA metabolism and its signaling pathways. <i>Journal of Plant Research</i> , 2011, 124, 455-465.	2.4	39
33	Aberrant protein phosphatase 2C leads to abscisic acid insensitivity and high transpiration in parasitic <i>Striga</i> . <i>Nature Plants</i> , 2019, 5, 258-262.	9.3	29
34	Structure-Based Chemical Design of Abscisic Acid Antagonists That Block PYL-PP2C Receptor Interactions. <i>ACS Chemical Biology</i> , 2018, 13, 1313-1321.	3.4	28
35	<i>Arabidopsis</i> Tiling Array Analysis to Identify the Stress-Responsive Genes. <i>Methods in Molecular Biology</i> , 2010, 639, 141-155.	0.9	27
36	Ligand-receptor interactions in plant hormone signaling. <i>Plant Journal</i> , 2021, 105, 290-306.	5.7	27

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37	The selectivity of 6-nor-ABA and 7- ϵ -nor-ABA for abscisic acid receptor subtypes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3507-3510.	2.2	26
38	Sm-Like Protein-Mediated RNA Metabolism Is Required for Heat Stress Tolerance in Arabidopsis. <i>Frontiers in Plant Science</i> , 2016, 7, 1079.	3.6	26
39	Conformationally restricted 3- ϵ -modified ABA analogs for controlling ABA receptors. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4278-4288.	2.8	25
40	Click-to-lead design of a picomolar ABA receptor antagonist with potent activity in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
41	ABA Biosynthetic and Catabolic Pathways. , 2014, , 21-45.		20
42	ARTADE2DB: Improved Statistical Inferences for Arabidopsis Gene Functions and Structure Predictions by Dynamic Structure-Based Dynamic Expression (DSDE) Analyses. <i>Plant and Cell Physiology</i> , 2011, 52, 254-264.	3.1	15
43	Efficient anchoring of alien chromosome segments introgressed into bread wheat by new <i>Leymus racemosus</i> genome-based markers. <i>BMC Genetics</i> , 2018, 19, 18.	2.7	15
44	A Highly Specific Genome-Wide Association Study Integrated with Transcriptome Data Reveals the Contribution of Copy Number Variations to Specialized Metabolites in Arabidopsis thaliana Accessions. <i>Molecular Biology and Evolution</i> , 2017, 34, 3111-3122.	8.9	14
45	Genomic prediction modeling of soybean biomass using UAV-based remote sensing and longitudinal model parameters. <i>Plant Genome</i> , 2021, 14, e20157.	2.8	13
46	Chemical Promotion of Endogenous Amounts of ABA in <i>Arabidopsis thaliana</i> by a Natural Product, Theobroxide. <i>Plant and Cell Physiology</i> , 2016, 57, 986-999.	3.1	11
47	Genetic manipulation of abscisic acid receptors enables modulation of water use efficiency. <i>Plant Signaling and Behavior</i> , 2019, 14, e1642039.	2.4	10
48	Substantial expression of novel small open reading frames in <i>Oryza sativa</i> . <i>Plant Signaling and Behavior</i> , 2014, 9, e27848.	2.4	9
49	Chemical Control of ABA Receptors to Enable Plant Protection Against Water Stress. <i>Methods in Molecular Biology</i> , 2018, 1795, 127-141.	0.9	8
50	Positional correlation analysis improves reconstruction of full-length transcripts and alternative isoforms from noisy array signals or short reads. <i>Bioinformatics</i> , 2012, 28, 929-937.	4.1	6
51	Novel biotin linker with alkyne and amino groups for chemical labelling of a target protein of a bioactive small molecule. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 783-786.	2.2	6
52	How does <i>Striga hermonthica</i> Bewitch its hosts?. <i>Plant Signaling and Behavior</i> , 2019, 14, 1605810.	2.4	6
53	Expression profile and 5' terminal structure of Arabidopsis antisense transcripts expressed in seeds. <i>Plant Signaling and Behavior</i> , 2011, 6, 691-693.	2.4	4
54	Microarray Analysis for Studying the Abiotic Stress Responses in Plants. , 2010, , 333-355.		4

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55	A Comparison of Transcriptomes Between Germinating Seeds and Growing Axillary Buds of Arabidopsis. , 2015, , 223-233.		0
56	Technologies for the understanding and control of biological phenomena in field-grown plants. Ikushugaku Kenkyu, 2020, 22, 75-82.	0.3	0
57	Development of small molecules that improve drought stress tolerance in plants. Japanese Journal of Pesticide Science, 2021, 46, 122-128.	0.0	0