Izumi C Mori

List of Publications by Year
in descending order

100 papers	7,868 citations	61857 43 h-index	51492 86 g-index
104 all docs	104 docs citations	104 times ranked	7247 citing authors

#	Article	IF	Citations
1	NADPH oxidase AtrbohD and AtrbohF genes function in ROS-dependent ABA signaling in Arabidopsis. EMBO Journal, 2003, 22, 2623-2633.	3.5	1,474
2	Abscisic Acid Activation of Plasma Membrane Ca²⁺ Channels in Guard Cells Requires Cytosolic NAD(P)H and Is Differentially Disrupted Upstream and Downstream of Reactive Oxygen Species Production in abi1-1 and abi2-1 Protein Phosphatase 2C Mutants. Plant Cell, 2001, 13, 2513-2523.	3.1	530
3	CDPKs CPK6 and CPK3 Function in ABA Regulation of Guard Cell S-Type Anion- and Ca2+- Permeable Channels and Stomatal Closure. PLoS Biology, 2006, 4, e327.	2.6	523
4	Reactive Oxygen Species Activation of Plant Ca2+ Channels. A Signaling Mechanism in Polar Growth, Hormone Transduction, Stress Signaling, and Hypothetically Mechanotransduction: Figure 1.. Plant Physiology, 2004, 135, 702-708.	2.3	364
5	Diverse Stomatal Signaling and the Signal Integration Mechanism. Annual Review of Plant Biology, 2015, 66, 369-392.	8.6	321
6	Involvement of extracellular oxidative burst in salicylic acidâ€induced stomatal closure in Arabidopsis. Plant, Cell and Environment, 2011, 34, 434-443.	2.8	292
7	Convergence of Calcium Signaling Pathways of Pathogenic Elicitors and Abscisic Acid in Arabidopsis Guard Cells Â. Plant Physiology, 2002, 130, 2152-2163.	2.3	222
8	Involvement of Endogenous Abscisic Acid in Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis Â Â. Plant Physiology, 2011, 156, 430-438.	2.3	189
9	Involvement of Superoxide Generation in Salicylic Acid-Induced Stomatal Closure in Vicia faba. Plant and Cell Physiology, 2001, 42, 1383-1388.	1.5	186
10	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. Plant and Cell Physiology, 2010, 51, 354-365.	1.5	159
11	Allantoin, a stress-related purine metabolite, can activate jasmonate signaling in a MYC2-regulated and abscisic acid-dependent manner. Journal of Experimental Botany, 2016, 67, 2519-2532.	2.4	154
12	The Arabidopsis Calcium-Dependent Protein Kinase, CPK6, Functions as a Positive Regulator of Methyl Jasmonate Signaling in Guard Cells Â Â. Plant Physiology, 2011, 155, 553-561.	2.3	144
13	Cooperative Function of PLDÎ´ and PLDÎ±1 in Abscisic Acid-Induced Stomatal Closure in Arabidopsis Â Â. Plant Physiology, 2012, 159, 450-460.	2.3	135
14	Identification of Cyclic GMP-Activated Nonselective Ca2+-Permeable Cation Channels and Associated CNGC5 and CNGC6 Genes in Arabidopsis Guard Cells Â Â. Plant Physiology, 2013, 163, 578-590.	2.3	111
15	Global profiling of phytohormone dynamics during combined drought and pathogen stress in Arabidopsis thaliana reveals ABA and JA as major regulators. Scientific Reports, 2017, 7, 4017.	1.6	105
16	Salicylic acidâ€dependent immunity contributes to resistance against Rhizoctonia solani, a necrotrophic fungal agent of sheath blight, in rice and Brachypodium distachyon. New Phytologist, 2018, 217, 771-783.	3.5	102
17	Allyl isothiocyanate (AITC) induces stomatal closure in Arabidopsis. Plant, Cell and Environment, 2011, 34, 1900-1906.	2.8	93
18	Identification of putative target genes of bZIP19, a transcription factor essential for Arabidopsis adaptation to Zn deficiency in roots. Plant Journal, 2015, 84, 323-334.	2.8	88

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19	Myrosinases, TGG1 and TGG2, Redundantly Function in ABA and MeJA Signaling in Arabidopsis Guard Cells. Plant and Cell Physiology, 2009, 50, 1171-1175.	1.5	87
20	Roles of AtTPC1, Vacuolar Two Pore Channel 1, in Arabidopsis Stomatal Closure. Plant and Cell Physiology, 2010, 51, 302-311.	1.5	86
21	Roles of RCN1, Regulatory A Subunit of Protein Phosphatase 2A, in Methyl Jasmonate Signaling and Signal Crosstalk between Methyl Jasmonate and Abscisic Acid. Plant and Cell Physiology, 2008, 49, 1396-1401.	1.5	84
22	Yeast Elicitor-Induced Stomatal Closure and Peroxidase-Mediated ROS Production in Arabidopsis. Plant and Cell Physiology, 2010, 51, 1915-1921.	1.5	75
23	CO2 Transport by PIP2 Aquaporins of Barley. Plant and Cell Physiology, 2014, 55, 251-257.	1.5	75
24	Glucosinolate Degradation Products, Isothiocyanates, Nitriles, and Thiocyanates, Induce Stomatal Closure Accompanied by Peroxidase-Mediated Reactive Oxygen Species Production inArabidopsis thaliana. Bioscience, Biotechnology and Biochemistry, 2013, 77, 977-983.	0.6	73
25	Cytosolic Alkalization and Cytosolic Calcium Oscillation in Arabidopsis Guard Cells Response to ABA and MeJA. Plant and Cell Physiology, 2010, 51, 1721-1730.	1.5	72
26	Roles of intracellular hydrogen peroxide accumulation in abscisic acid signaling in Arabidopsis guard cells. Journal of Plant Physiology, 2011, 168, 1919-1926.	1.6	71
27	Negative regulation of abscisic acid-induced stomatal closure by glutathione in Arabidopsis. Journal of Plant Physiology, 2011, 168, 2048-2055.	1.6	68
28	Methyl jasmonate signaling and signal crosstalk between methyl jasmonate and abscisic acid in guard cells. Plant Signaling and Behavior, 2011, 6, 939-941.	1.2	67
29	Chitosan-Induced Stomatal Closure Accompanied by Peroxidase-Mediated Reactive Oxygen Species Production inArabidopsis. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2313-2315.	0.6	65
30	Glutamate functions in stomatal closure in Arabidopsis and fava bean. Journal of Plant Research, 2016, 129, 39-49.	1.2	61
31	Regulation of reactive oxygen species-mediated abscisic acid signaling in guard cells and drought tolerance by glutathione. Frontiers in Plant Science, 2013, 4, 472.	1.7	60
32	Difference in Abscisic Acid Perception Mechanisms between Closure Induction and Opening Inhibition of Stomata Â Â. Plant Physiology, 2013, 163, 600-610.	2.3	58
33	Calcium-Dependent Protein Kinase CPK6 Positively Functions in Induction by Yeast Elicitor of Stomatal Closure and Inhibition by Yeast Elicitor of Light-Induced Stomatal Opening in Arabidopsis Â. Plant Physiology, 2013, 163, 591-599.	2.3	57
34	Response of Rice to Insect Elicitors and the Role of Os<scp>JAR</scp>1 in Wound and Herbivoryâ€<scp>I</scp>nduced <scp>JA</scp>â€<scp>I</scp>le Accumulation. Journal of Integrative Plant Biology, 2013, 55, 775-784.	4.1	56
35	The Effects of Methylglyoxal on Glutathione S-Transferase from Nicotiana tabacum. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2124-2126.	0.6	55
36	ABI1 regulates carbon/nitrogen-nutrient signal transduction independent of ABA biosynthesis and canonical ABA signalling pathways in Arabidopsis. Journal of Experimental Botany, 2015, 66, 2763-2771.	2.4	53

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37	Reactive oxygen species and reactive carbonyl species constitute a feedâ€forward loop in auxin signaling for lateral root formation. Plant Journal, 2019, 100, 536-548.	2.8	53
38	Toxicity of tetramethylammonium hydroxide to aquatic organisms and its synergistic action with potassium iodide. Chemosphere, 2015, 120, 299-304.	4.2	49
39	Phosphorylation of the Inward-Rectifying Potassium Channel KAT1 by ABR Kinase in Vicia Guard Cells. Plant and Cell Physiology, 2000, 41, 850-856.	1.5	48
40	Sugar-Induced Increase in Cytosolic Ca2+ in Arabidopsis thaliana Whole Plants. Plant and Cell Physiology, 2001, 42, 1149-1155.	1.5	48
41	Deficient Glutathione in Guard Cells Facilitates Abscisic Acid-Induced Stomatal Closure but Does Not Affect Light-Induced Stomatal Opening. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2795-2798.	0.6	47
42	Comprehensive quantification and genome survey reveal the presence of novel phytohormone action modes in red seaweeds. Journal of Applied Phycology, 2016, 28, 2539-2548.	1.5	47
43	Ozone-Induced Rice Grain Yield Loss Is Triggered via a Change in Panicle Morphology That Is Controlled by ABERRANT PANICLE ORGANIZATION 1 Gene. PLoS ONE, 2015, 10, e0123308.	1.1	46
44	Methylglyoxal inhibition of cytosolic ascorbate peroxidase from Nicotiana tabacum. Journal of Biochemical and Molecular Toxicology, 2012, 26, 315-321.	1.4	43
45	Mechanosensory trichome cells evoke a mechanical stimuliâ€“induced immune response in Arabidopsis thaliana. Nature Communications, 2022, 13, 1216.	5.8	43
46	Nitric oxide functions in both methyl jasmonate signaling and abscisic acid signaling in Arabidopsis guard cells. Plant Signaling and Behavior, 2009, 4, 119-120.	1.2	42
47	Involvement of OST1 Protein Kinase and PYR/PYL/RCAR Receptors in Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis Guard Cells. Plant and Cell Physiology, 2016, 57, 1779-1790.	1.5	42
48	A Bacterial Biosensor for Oxidative Stress Using the Constitutively Expressed Redox-Sensitive Protein roGFP2. Sensors, 2010, 10, 6290-6306.	2.1	41
49	Exogenous Proline and Glycinebetaine Suppress Apoplastic Flow to Reduce Na⁺Uptake in Rice Seedlings. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2037-2042.	0.6	40
50	Endogenous hormone levels affect the regeneration ability of callus derived from different organs in barley. Plant Physiology and Biochemistry, 2016, 99, 66-72.	2.8	36
51	MAP Kinases, MPK9 and MPK12, Regulate Chitosan-Induced Stomatal Closure. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1785-1787.	0.6	34
52	Two Members of the Aluminum-Activated Malate Transporter Family,SlALMT4andSlALMT5, are Expressed during Fruit Development, and the Overexpression ofSlALMT5Alters Organic Acid Contents in Seeds in Tomato (Solanum lycopersicum). Plant and Cell Physiology, 2016, 57, 2367-2379.	1.5	33
53	Effects of Exogenous Proline and Glycinebetaine on the Salt Tolerance of Rice Cultivars. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1568-1570.	0.6	32
54	Negative Regulation of Methyl Jasmonate-Induced Stomatal Closure by Glutathione in Arabidopsis. Journal of Plant Growth Regulation, 2013, 32, 208-215.	2.8	26

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55	MPK9 and MPK12 function in SA-induced stomatal closure in Arabidopsis thaliana. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1394-1400.	0.6	26
56	Low temperature modulates natural peel degreening in lemon fruit independently of endogenous ethylene. Journal of Experimental Botany, 2020, 71, 4778-4796.	2.4	26
57	The Involvement of Intracellular Glutathione in Methyl Jasmonate Signaling inArabidopsisGuard Cells. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2504-2506.	0.6	25
58	Neither Endogenous Abscisic Acid nor Endogenous Jasmonate Is Involved in Salicylic Acid-, Yeast Elicitor-, or Chitosan-Induced Stomatal Closure inArabidopsis thaliana. Bioscience, Biotechnology and Biochemistry, 2013, 77, 1111-1113.	0.6	25
59	Quantitative Proteomic Analysis of the Response to Zinc, Magnesium, and Calcium Deficiency in Specific Cell Types of Arabidopsis Roots. Proteomes, 2016, 4, 1.	1.7	25
60	Disruption of ureide degradation affects plant growth and development during and after transition from vegetative to reproductive stages. BMC Plant Biology, 2018, 18, 287.	1.6	25
61	Effects of Depletion of Glutathione on Abscisic Acid- and Methyl Jasmonate-Induced Stomatal Closure inArabidopsis thaliana. Bioscience, Biotechnology and Biochemistry, 2012, 76, 2032-2037.	0.6	24
62	Endogenous abscisic acid is involved in methyl jasmonate-induced reactive oxygen species and nitric oxide production but not in cytosolic alkalization in Arabidopsis guard cells. Journal of Plant Physiology, 2013, 170, 1212-1215.	1.6	24
63	Identification of quantitative trait locus for abscisic acid responsiveness on chromosome 5A and association with dehydration tolerance in common wheat seedlings. Journal of Plant Physiology, 2014, 171, 25-34.	1.6	24
64	Phytohormones in red seaweeds: a technical review of methods for analysis and a consideration of genomic data. Botanica Marina, 2017, 60, .	0.6	24
65	Ectopic accumulation of linalool confers resistance toXanthomonas citrisubsp. citriin transgenic sweet orange plants. Tree Physiology, 2017, 37, 654-664.	1.4	24
66	Allyl isothiocyanate induces stomatal closure in Vicia faba. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1737-1742.	0.6	23
67	The Roles ofCATALASE2in Abscisic Acid Signaling inArabidopsisGuard Cells. Bioscience, Biotechnology and Biochemistry, 2011, 75, 2034-2036.	0.6	21
68	A High-Throughput Oxidative Stress Biosensor Based on Escherichia coli roGFP2 Cells Immobilized in a k-Carrageenan Matrix. Sensors, 2015, 15, 2354-2368.	2.1	21
69	A CALCIUMâ€DEPENDENT PROTEIN KINASE FUNCTIONS IN WOUND HEALING IN VENTRICARIA VENTRICOSA (CHLOROPHYTA). Journal of Phycology, 2000, 36, 1145-1152.	1.0	20
70	FIA functions as an early signal component of abscisic acid signal cascade in Vicia faba guard cells. Journal of Experimental Botany, 2012, 63, 1357-1365.	2.4	20
71	Catalases negatively regulate methyl jasmonate signaling in guard cells. Journal of Plant Physiology, 2012, 169, 1012-1016.	1.6	18
72	Open Stomata 1 Kinase is Essential for Yeast Elicitor-Induced Stomatal Closure in Arabidopsis. Plant and Cell Physiology, 2015, 56, 1239-1248.	1.5	18

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73	â€˜Passe Crassaneâ€™ pear fruit (Pyrus communis L.) ripening: Revisiting the role of low temperature via integrated physiological and transcriptome analysis. Postharvest Biology and Technology, 2019, 158, 110949.	2.9	18
74	BdWRKY38 is required for the incompatible interaction of Brachypodium distachyon with the necrotrophic fungus Rhizoctonia solani. Plant Journal, 2020, 104, 995-1008.	2.8	18
75	Cytokinin increases vegetative growth period by suppressing florigen expression in rice and maize. Plant Journal, 2022, 110, 1619-1635.	2.8	17
76	Salicylic Acid Induces a Cytosolic Ca2+Elevation in Yeast. Bioscience, Biotechnology and Biochemistry, 1998, 62, 986-989.	0.6	16
77	Identification of quantitative trait loci for abscisic acid responsiveness in the D-genome of hexaploid wheat. Journal of Plant Physiology, 2014, 171, 830-841.	1.6	16
78	ABA signaling in stomatal guard cells: lessons from Commelina and Vicia. Journal of Plant Research, 2011, 124, 477-487.	1.2	15
79	Hormonal and transcriptional analyses of fruit development and ripening in different varieties of black pepper (Piper nigrum). Journal of Plant Research, 2020, 133, 73-94.	1.2	15
80	Abscisic acid is required for exodermal suberization to form a barrier to radial oxygen loss in the adventitious roots of rice (Oryza sativa). New Phytologist, 2022, 233, 655-669.	3.5	15
81	Phenylethylamine Induces an Increase in Cytosolic Ca2+in Yeast. Bioscience, Biotechnology and Biochemistry, 2002, 66, 1069-1074.	0.6	14
82	Plant hormone profiling in developing seeds of common wheat (<i>Triticum aestivum</i> L.). Breeding Science, 2019, 69, 601-610.	0.9	14
83	Abscisic Acid Activation of Plasma Membrane Ca 2+ Channels in Guard Cells Requires Cytosolic NAD(P)H and Is Differentially Disrupted Upstream and Downstream of Reactive Oxygen Species Production in abi1-1 and abi2-1 Protein Phosphatase 2C Mutants. Plant Cell, 2001, 13, 2513.	3.1	13
84	A Cyclic Nucleotide-Gated Channel, HvCNGC2-3, Is Activated by the Co-Presence of Na+ and K+ and Permeable to Na+ and K+ Non-Selectively. Plants, 2018, 7, 61.	1.6	12
85	The mechanism of SO₂â€induced stomatal closure differs from O₃ and CO₂ responses and is mediated by nonapoptotic cell death in guard cells. Plant, Cell and Environment, 2019, 42, 437-447.	2.8	12
86	Salicylic Acid Acts Antagonistically to Plastid Retrograde Signaling by Promoting the Accumulation of Photosynthesis-associated Proteins in Arabidopsis. Plant and Cell Physiology, 2021, 62, 1728-1744.	1.5	12
87	Integration of ROS and Hormone Signaling. Signaling and Communication in Plants, 2009, , 25-42.	0.5	11
88	Possible roles for phytohormones in controlling the stomatal behavior of Mesembryanthemum crystallinum during the salt-induced transition from C3 to crassulacean acid metabolism. Journal of Plant Physiology, 2021, 262, 153448.	1.6	9
89	Mechanisms of the Selenium Tolerance of theArabidopsis thalianaKnockout Mutant of Sulfate Transporter SULTR1;2. Bioscience, Biotechnology and Biochemistry, 2012, 76, 993-998.	0.6	8
90	Manganese Treatment Alleviates Zinc Deficiency Symptoms in Arabidopsis Seedlings. Plant and Cell Physiology, 2020, 61, 1711-1723.	1.5	8

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91	K252a-sensitive protein kinases but not okadaic acid-sensitive protein phosphatases regulate methyl jasmonate-induced cytosolic Ca2+ oscillation in guard cells of Arabidopsis thaliana. Journal of Plant Physiology, 2011, 168, 1901-1908.	1.6	7
92	Cadmium uptake via apoplastic bypass flow in Oryza sativa. Journal of Plant Research, 2021, 134, 1139-1148.	1.2	7
93	Viability of barley seeds after long-term exposure to outer side of international space station. Advances in Space Research, 2011, 48, 1155-1160.	1.2	6
94	Application of the cellular oxidation biosensor to Toxicity Identification Evaluations for high-throughput toxicity assessment of river water. Chemosphere, 2020, 247, 125933.	4.2	5
95	Circumnutation and distribution of phytohormones in Vigna angularis epicotyls. Journal of Plant Research, 2018, 131, 165-178.	1.2	4
96	Interaction of intracellular hydrogen peroxide accumulation with nitric oxide production in abscisic acid signaling in guard cells. Bioscience, Biotechnology and Biochemistry, 2020, 84, 1418-1426.	0.6	4
97	Protein Kinase Cascade Involved in Rapid ABA-signaling in Guard Cells of Vicia faba. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2005, 60, 769-773.	0.6	3
98	Functional roles of ALMTâ€type anion channels in malateâ€induced stomatal closure in tomato and Arabidopsis. Plant, Cell and Environment, 2022, 45, 2337-2350.	2.8	3
99	Environmental Toxicity and Evaluation. , 2018, , 71-94.		1
100	Effect of Phytohormones on Seedling Vigor of Rice under Cold Conditions. Japanese Journal of Crop Science, 2017, 86, 367-374.	0.1	0