

# Yoshiyuki Murata

## List of Publications by Year in descending order

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218  
papers

13,782  
citations

25014

57  
h-index

24232

110  
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222  
all docs

222  
docs citations

222  
times ranked

10982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium channels activated by hydrogen peroxide mediate abscisic acid signalling in guard cells. <i>Nature</i> , 2000, 406, 731-734.	13.7	1,938
2	Abscisic Acid Activation of Plasma Membrane Ca <sup>2+</sup> Channels in Guard Cells Requires Cytosolic NAD(P)H and Is Differentially Disrupted Upstream and Downstream of Reactive Oxygen Species Production in <i>abi1-1</i> and <i>abi2-1</i> Protein Phosphatase 2C Mutants. <i>Plant Cell</i> , 2001, 13, 2513-2523.	3.1	530
3	CDPKs CPK6 and CPK3 Function in ABA Regulation of Guard Cell S-Type Anion- and Ca <sup>2+</sup> - Permeable Channels and Stomatal Closure. <i>PLoS Biology</i> , 2006, 4, e327.	2.6	523
4	MAP kinases <i>MPK9</i> and <i>MPK12</i> are preferentially expressed in guard cells and positively regulate ROS-mediated ABA signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20520-20525.	3.3	368
5	Diverse Stomatal Signaling and the Signal Integration Mechanism. <i>Annual Review of Plant Biology</i> , 2015, 66, 369-392.	8.6	321
6	The coronatine-insensitive 1 Mutation Reveals the Hormonal Signaling Interaction between Abscisic Acid and Methyl Jasmonate in Arabidopsis Guard Cells. Specific Impairment of Ion Channel Activation and Second Messenger Production. <i>Plant Physiology</i> , 2007, 143, 1398-1407.	2.3	319
7	Involvement of extracellular oxidative burst in salicylic acid-induced stomatal closure in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 434-443.	2.8	292
8	<i>Arabidopsis abi1-1</i> and <i>abi2-1</i> Phosphatase Mutations Reduce Abscisic Acid-Induced Cytoplasmic Calcium Rises in Guard Cells. <i>Plant Cell</i> , 1999, 11, 1785-1798.	3.1	286
9	Exogenous proline and glycinebetaine increase NaCl-induced ascorbate-glutathione cycle enzyme activities, and proline improves salt tolerance more than glycinebetaine in tobacco Bright Yellow-2 suspension-cultured cells. <i>Journal of Plant Physiology</i> , 2007, 164, 1457-1468.	1.6	267
10	Exogenous proline and glycinebetaine increase antioxidant enzyme activities and confer tolerance to cadmium stress in cultured tobacco cells. <i>Journal of Plant Physiology</i> , 2009, 166, 1587-1597.	1.6	266
11	Exogenous proline mitigates the detrimental effects of salt stress more than exogenous betaine by increasing antioxidant enzyme activities. <i>Journal of Plant Physiology</i> , 2007, 164, 553-561.	1.6	256
12	Proline and glycinebetaine enhance antioxidant defense and methylglyoxal detoxification systems and reduce NaCl-induced damage in cultured tobacco cells. <i>Journal of Plant Physiology</i> , 2008, 165, 813-824.	1.6	244
13	<i>SIZ1</i> deficiency causes reduced stomatal aperture and enhanced drought tolerance via controlling salicylic acid-induced accumulation of reactive oxygen species in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 73, 91-104.	2.8	238
14	Proline and glycinebetaine induce antioxidant defense gene expression and suppress cell death in cultured tobacco cells under salt stress. <i>Journal of Plant Physiology</i> , 2009, 166, 146-156.	1.6	226
15	Convergence of Calcium Signaling Pathways of Pathogenic Elicitors and Abscisic Acid in Arabidopsis Guard Cells. <i>Plant Physiology</i> , 2002, 130, 2152-2163.	2.3	222
16	Mushroom Tyrosinase Inhibitory Activity of Esculetin Isolated from Seeds of <i>Euphorbia lathyris</i> L. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 631-634.	0.6	196
17	Disruption of a Guard Cell-Expressed Protein Phosphatase 2A Regulatory Subunit, RCN1, Confers Abscisic Acid Insensitivity in Arabidopsis. <i>Plant Cell</i> , 2002, 14, 2849-2861.	3.1	192
18	Involvement of Endogenous Abscisic Acid in Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis. <i>Plant Physiology</i> , 2011, 156, 430-438.	2.3	189

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19	Dominant Negative Guard Cell K <sup>+</sup> Channel Mutants Reduce Inward-Rectifying K <sup>+</sup> Currents and Light-Induced Stomatal Opening in Arabidopsis. <i>Plant Physiology</i> , 2001, 127, 473-485.	2.3	173
20	OsHKT1;4-mediated Na <sup>+</sup> transport in stems contributes to Na <sup>+</sup> exclusion from leaf blades of rice at the reproductive growth stage upon salt stress. <i>BMC Plant Biology</i> , 2016, 16, 22.	1.6	168
21	Mechanism of Stomatal Closure in Plants Exposed to Drought and Cold Stress. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 215-232.	0.8	161
22	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. <i>Plant and Cell Physiology</i> , 2010, 51, 354-365.	1.5	159
23	The Arabidopsis Calcium-Dependent Protein Kinase, CPK6, Functions as a Positive Regulator of Methyl Jasmonate Signaling in Guard Cells. <i>Plant Physiology</i> , 2011, 155, 553-561.	2.3	144
24	Calcium elevation-dependent and attenuated resting calcium-dependent abscisic acid induction of stomatal closure and abscisic acid-induced enhancement of calcium sensitivities of S-type anion and inward-rectifying K <sup>+</sup> channels in Arabidopsis guard cells. <i>Plant Journal</i> , 2009, 59, 207-220.	2.8	142
25	Seed Priming with Phytohormones: An Effective Approach for the Mitigation of Abiotic Stress. <i>Plants</i> , 2021, 10, 37.	1.6	139
26	Cooperative Function of PLD $\beta$ and PLD $\beta$ 1 in Abscisic Acid-Induced Stomatal Closure in Arabidopsis. <i>Plant Physiology</i> , 2012, 159, 450-460.	2.3	135
27	Antioxidant Defense Mechanisms of Salinity Tolerance in Rice Genotypes. <i>Rice Science</i> , 2017, 24, 155-162.	1.7	125
28	Guard Cell Salicylic Acid Signaling Is Integrated into Abscisic Acid Signaling via the Ca <sup>2+</sup> /CPK-Dependent Pathway. <i>Plant Physiology</i> , 2018, 178, 441-450.	2.3	107
29	Hypersensitivity of Abscisic Acid-Induced Cytosolic Calcium Increases in the Arabidopsis Farnesyltransferase Mutant era1-2. <i>Plant Cell</i> , 2002, 14, 1649-1662.	3.1	105
30	Blue light and CO <sub>2</sub> signals converge to regulate light-induced stomatal opening. <i>Nature Communications</i> , 2017, 8, 1284.	5.8	100
31	Papaya Seed Represents a Rich Source of Biologically Active Isothiocyanate. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4407-4413.	2.4	99
32	De-regulated expression of the plant glutamate receptor homolog <i>AtGLR3.1</i> impairs long-term Ca <sup>2+</sup> -programmed stomatal closure. <i>Plant Journal</i> , 2009, 58, 437-449.	2.8	98
33	bHLH Transcription Factors That Facilitate K <sup>+</sup> Uptake During Stomatal Opening Are Repressed by Abscisic Acid Through Phosphorylation. <i>Science Signaling</i> , 2013, 6, ra48.	1.6	97
34	Allyl isothiocyanate (AITC) induces stomatal closure in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 1900-1906.	2.8	93
35	Effects of exogenous application of proline and betaine on the growth of tobacco cultured cells under saline conditions. <i>Soil Science and Plant Nutrition</i> , 2004, 50, 1301-1305.	0.8	90
36	Proline and Glycinebetaine Ameliorated NaCl Stress <i>via</i> Scavenging of Hydrogen Peroxide and Methylglyoxal but Not Superoxide or Nitric Oxide in Tobacco Cultured Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2043-2049.	0.6	89

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37	Myrosinases, TGG1 and TGG2, Redundantly Function in ABA and MeJA Signaling in Arabidopsis Guard Cells. <i>Plant and Cell Physiology</i> , 2009, 50, 1171-1175.	1.5	87
38	Roles of AtTPC1, Vacuolar Two Pore Channel 1, in Arabidopsis Stomatal Closure. <i>Plant and Cell Physiology</i> , 2010, 51, 302-311.	1.5	86
39	Citric Acid-Mediated Abiotic Stress Tolerance in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7235.	1.8	85
40	Roles of RCN1, Regulatory A Subunit of Protein Phosphatase 2A, in Methyl Jasmonate Signaling and Signal Crosstalk between Methyl Jasmonate and Abscisic Acid. <i>Plant and Cell Physiology</i> , 2008, 49, 1396-1401.	1.5	84
41	Localization, Ion Channel Regulation, and Genetic Interactions during Abscisic Acid Signaling of the Nuclear mRNA Cap-Binding Protein, ABH1. <i>Plant Physiology</i> , 2002, 130, 1276-1287.	2.3	82
42	In vitro antioxidant activity of enzymatic hydrolysates prepared from abalone ( <i>Haliotis discus hannai</i> ) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	1.8	82
43	Methylglyoxal-induced stomatal closure accompanied by peroxidase-mediated ROS production in Arabidopsis. <i>Journal of Plant Physiology</i> , 2012, 169, 979-986.	1.6	79
44	Yeast Elicitor-Induced Stomatal Closure and Peroxidase-Mediated ROS Production in Arabidopsis. <i>Plant and Cell Physiology</i> , 2010, 51, 1915-1921.	1.5	75
45	Mg-chelatase H subunit affects ABA signaling in stomatal guard cells, but is not an ABA receptor in Arabidopsis thaliana. <i>Journal of Plant Research</i> , 2011, 124, 527-538.	1.2	73
46	Glucosinolate Degradation Products, Isothiocyanates, Nitriles, and Thiocyanates, Induce Stomatal Closure Accompanied by Peroxidase-Mediated Reactive Oxygen Species Production in Arabidopsis thaliana. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 977-983.	0.6	73
47	Cytosolic Alkalization and Cytosolic Calcium Oscillation in Arabidopsis Guard Cells Response to ABA and MeJA. <i>Plant and Cell Physiology</i> , 2010, 51, 1721-1730.	1.5	72
48	Roles of intracellular hydrogen peroxide accumulation in abscisic acid signaling in Arabidopsis guard cells. <i>Journal of Plant Physiology</i> , 2011, 168, 1919-1926.	1.6	71
49	L-Met Activates Arabidopsis GLR Ca <sup>2+</sup> Channels Upstream of ROS Production and Regulates Stomatal Movement. <i>Cell Reports</i> , 2016, 17, 2553-2561.	2.9	71
50	Preparation and antioxidant activity of enzymatic hydrolysates from purple sea urchin ( <i>Strongylocentrotus nudus</i> ) gonad. <i>LWT - Food Science and Technology</i> , 2011, 44, 1113-1118.	2.5	70
51	Negative regulation of abscisic acid-induced stomatal closure by glutathione in Arabidopsis. <i>Journal of Plant Physiology</i> , 2011, 168, 2048-2055.	1.6	68
52	Methyl jasmonate signaling and signal crosstalk between methyl jasmonate and abscisic acid in guard cells. <i>Plant Signaling and Behavior</i> , 2011, 6, 939-941.	1.2	67
53	Chitosan-Induced Stomatal Closure Accompanied by Peroxidase-Mediated Reactive Oxygen Species Production in Arabidopsis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2313-2315.	0.6	65
54	Extraction and antioxidant property of polyhydroxylated naphthoquinone pigments from spines of purple sea urchin <i>Strongylocentrotus nudus</i> . <i>Food Chemistry</i> , 2011, 129, 1591-1597.	4.2	62

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55	Exogenous proline mitigates the inhibition of growth of <i>Nicotiana tabacum</i> cultured cells under saline conditions. <i>Soil Science and Plant Nutrition</i> , 2000, 46, 257-263.	0.8	61
56	Differential Response of Sugar Beet to Long-Term Mild to Severe Salinity in a Soil-Pot Culture. <i>Agriculture (Switzerland)</i> , 2019, 9, 223.	1.4	61
57	Regulation of reactive oxygen species-mediated abscisic acid signaling in guard cells and drought tolerance by glutathione. <i>Frontiers in Plant Science</i> , 2013, 4, 472.	1.7	60
58	Insights into nitric oxide-mediated water balance, antioxidant defence and mineral homeostasis in rice ( <i>Oryza sativa</i> L.) under chilling stress. <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 100-101, 7-16.	1.2	60
59	Correlation analysis of substituent effects on the acidity of benzoic acids by the AM1 method. <i>Journal of Computational Chemistry</i> , 1989, 10, 94-98.	1.5	58
60	Difference in Abscisic Acid Perception Mechanisms between Closure Induction and Opening Inhibition of Stomata. <i>Plant Physiology</i> , 2013, 163, 600-610.	2.3	58
61	Chemical composition and free radical scavenging activities of a sulphated polysaccharide extracted from abalone gonad ( <i>Haliotis Discus Hannai</i> Ito). <i>Food Chemistry</i> , 2010, 121, 712-718.	4.2	57
62	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 <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 163, 591-599.	2.3	57
63	Antioxidant activity of hydrolysates obtained from scallop ( <i>Patinopekten yessoensis</i> ) and abalone ( <i>Haliotis discus hannai</i> Ito) muscle. <i>Food Chemistry</i> , 2012, 132, 815-822.	4.2	56
64	The Effects of Methylglyoxal on Glutathione S-Transferase from <i>Nicotiana tabacum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2124-2126.	0.6	55
65	Inhibitory Effects of Esculetin on Melanin Biosynthesis. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 422-425.	0.6	53
66	Purification and partial characterisation of a cathepsin L-like proteinase from sea cucumber ( <i>Stichopus japonicus</i> ) and its tissue distribution in body wall. <i>Food Chemistry</i> , 2014, 158, 192-199.	4.2	52
67	Accumulation of endogenous salicylic acid confers drought tolerance to <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2014, 9, e28085.	1.2	51
68	3,4-Dihydroxyphenylacetic acid is a predominant biologically-active catabolite of quercetin glycosides. <i>Food Research International</i> , 2016, 89, 716-723.	2.9	49
69	Proline and Glycinebetaine Confer Cadmium Tolerance on Tobacco Bright Yellow-2 Cells by Increasing Ascorbate-Glutathione Cycle Enzyme Activities. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 2320-2323.	0.6	48
70	ATP depletion alters the mode of cell death induced by benzyl isothiocyanate. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008, 1782, 566-573.	1.8	47
71	Deficient Glutathione in Guard Cells Facilitates Abscisic Acid-Induced Stomatal Closure but Does Not Affect Light-Induced Stomatal Opening. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2795-2798.	0.6	47
72	Docosahexaenoic acid induces ERK1/2 activation and neuritogenesis via intracellular reactive oxygen species production in human neuroblastoma SH-SY5Y cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 8-16.	1.2	44

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73	Methylglyoxal inhibition of cytosolic ascorbate peroxidase from <i>Nicotiana tabacum</i> . Journal of Biochemical and Molecular Toxicology, 2012, 26, 315-321.	1.4	43
74	Stomatal immunity against fungal invasion comprises not only chitin-induced stomatal closure but also chitosan-induced guard cell death. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20932-20942.	3.3	43
75	Purification and Characterization of a Cathepsin L-Like Enzyme from the Body Wall of the Sea Cucumber <i>Stichopus japonicus</i> . Bioscience, Biotechnology and Biochemistry, 2008, 72, 1430-1437.	0.6	42
76	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
77	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
78	Reactive Carbonyl Species Mediate ABA Signaling in Guard Cells. Plant and Cell Physiology, 2016, 57, 2552-2563.	1.5	42
79	Exogenous Proline and Glycinebetaine Suppress Apoplastic Flow to Reduce Na <sup>+</sup> Uptake in Rice Seedlings. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2037-2042.	0.6	40
80	GOLDEN 2-LIKE transcription factors for chloroplast development affect ozone tolerance through the regulation of stomatal movement. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4218-4223.	3.3	40
81	Regulation of a Proteinaceous Elicitor-induced Ca <sup>2+</sup> Influx and Production of Phytoalexins by a Putative Voltage-gated Cation Channel, OsTPC1, in Cultured Rice Cells. Journal of Biological Chemistry, 2012, 287, 9931-9939.	1.6	39
82	Inhibition of phosphatidylinositide 3-kinase ameliorates antiproliferation by benzyl isothiocyanate in human colon cancer cells. Biochemical and Biophysical Research Communications, 2017, 491, 209-216.	1.0	39
83	Reactive Carbonyl Species Function as Signal Mediators Downstream of H <sub>2</sub> O <sub>2</sub> Production and Regulate [Ca <sup>2+</sup> ] <sub>cyt</sub> Elevation in ABA Signal Pathway in Arabidopsis Guard Cells. Plant and Cell Physiology, 2019, 60, 1146-1159.	1.5	39
84	Exogenous Glutathione-Mediated Drought Stress Tolerance in Rice ( <i>Oryza sativa</i> L.) is Associated with Lower Oxidative Damage and Favorable Ionic Homeostasis. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 955-971.	0.7	39
85	Salt Adaptation of K <sup>+</sup> Channels in the Plasma Membrane of Tobacco Cells in Suspension Culture. Plant and Cell Physiology, 1994, 35, 637-644.	1.5	37
86	Purification and bioactivity of a sulphated polysaccharide conjugate from viscera of abalone <i>Haliotis discus hannai</i> no. Food and Agricultural Immunology, 2010, 21, 15-26.	0.7	37
87	Inhibitory Effects of Methylglyoxal on Light-Induced Stomatal Opening and Inward K <sup>+</sup> Channel Activity in <i>Arabidopsis</i> . Bioscience, Biotechnology and Biochemistry, 2012, 76, 617-619.	0.6	37
88	Phosphorus starvation induced root-mediated pH changes in solubilization and acquisition of sparingly soluble P sources and organic acids exudation by Brassica cultivars. Soil Science and Plant Nutrition, 2006, 52, 623-633.	0.8	36
89	Effect of thermal treatment on the texture and microstructure of abalone muscle ( <i>Haliotis discus</i> ). Food Science and Biotechnology, 2011, 20, 1467-1473.	1.2	36
90	5-aminolevulinic acid-mediated plant adaptive responses to abiotic stress. Plant Cell Reports, 2021, 40, 1451-1469.	2.8	35

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91	Preparation and <i>in vitro</i> antioxidant activity of enzymatic hydrolysates from oyster ( <i>Crassostrea talienwhannensis</i> ) meat. <i>International Journal of Food Science and Technology</i> , 2010, 45, 978-984.	1.3	34
92	MAP Kinases, MPK9 and MPK12, Regulate Chitosan-Induced Stomatal Closure. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1785-1787.	0.6	34
93	Effects of Exogenous Proline and Glycinebetaine on the Salt Tolerance of Rice Cultivars. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1568-1570.	0.6	32
94	Purification and characterization of cathepsin B from the gut of the sea cucumber ( <i>Stichopus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.2	31
95	Calcium and EGTA Alleviate Cadmium Toxicity in Germinating Chickpea Seeds. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 1064-1073.	2.8	30
96	Dominant Negative Guard Cell K <sup>+</sup> Channel Mutants Reduce Inward-Rectifying K <sup>+</sup> Currents and Light-Induced Stomatal Opening in <i>Arabidopsis</i> . , 0, .		30
97	Apoptosis induction by dohevanil, a DHA substitutive analog of capsaicin, in MCF-7 cells. <i>Life Sciences</i> , 2006, 78, 1515-1519.	2.0	29
98	Nonredundant functions of <i>Arabidopsis</i> LecRK <sup>EV.2</sup> and LecRK <sup>scpv.VII</sup> .1 in controlling stomatal immunity and jasmonate-mediated stomatal closure. <i>New Phytologist</i> , 2018, 218, 253-268.	3.5	29
99	Extraction of lipid from sea urchin ( <i>Strongylocentrotus nudus</i> ) gonad by enzyme-assisted aqueous and supercritical carbon dioxide methods. <i>European Food Research and Technology</i> , 2010, 230, 737-743.	1.6	28
100	Ethylene Inhibits Methyl Jasmonate-Induced Stomatal Closure by Modulating Guard Cell Slow-Type Anion Channel Activity via the OPEN STOMATA 1/SnRK2.6 Kinase-Independent Pathway in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 2263-2271.	1.5	28
101	STRESS INDUCED FACTOR 2 Regulates <i>Arabidopsis</i> Stomatal Immunity through Phosphorylation of the Anion Channel SLAC1. <i>Plant Cell</i> , 2020, 32, 2216-2236.	3.1	28
102	Microbe Associated Molecular Pattern Signaling in Guard Cells. <i>Frontiers in Plant Science</i> , 2016, 7, 583.	1.7	27
103	Brassinosteroid Involvement in <i>Arabidopsis thaliana</i> Stomatal Opening. <i>Plant and Cell Physiology</i> , 2017, 58, 1048-1058.	1.5	27
104	Negative Regulation of Methyl Jasmonate-Induced Stomatal Closure by Glutathione in <i>Arabidopsis</i> . <i>Journal of Plant Growth Regulation</i> , 2013, 32, 208-215.	2.8	26
105	MPK9 and MPK12 function in SA-induced stomatal closure in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1394-1400.	0.6	26
106	The Involvement of Intracellular Glutathione in Methyl Jasmonate Signaling in <i>Arabidopsis</i> Guard Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2504-2506.	0.6	25
107	Neither Endogenous Abscisic Acid nor Endogenous Jasmonate Is Involved in Salicylic Acid-, Yeast Elicitor-, or Chitosan-Induced Stomatal Closure in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1111-1113.	0.6	25
108	Effects of Depletion of Glutathione on Abscisic Acid- and Methyl Jasmonate-Induced Stomatal Closure in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2032-2037.	0.6	24

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109	Optimisation of hydrolysis of purple sea urchin ( <i>Strongylocentrotus nudus</i> ) gonad by response surface methodology and evaluation of <i>in vitro</i> antioxidant activity of the hydrolysate. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1694-1701.	1.7	24
110	Endogenous abscisic acid is involved in methyl jasmonate-induced reactive oxygen species and nitric oxide production but not in cytosolic alkalization in <i>Arabidopsis</i> guard cells. <i>Journal of Plant Physiology</i> , 2013, 170, 1212-1215.	1.6	24
111	Effects of krill oil intake on plasma cholesterol and glucose levels in rats fed a high-cholesterol diet. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2669-2675.	1.7	23
112	Allyl isothiocyanate induces stomatal closure in <i>Vicia faba</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 1737-1742.	0.6	23
113	Calcium and ethylene glycol tetraacetic acid mitigate toxicity and alteration of gene expression associated with cadmium stress in chickpea ( <i>Cicer arietinum</i> L.) shoots. <i>Protoplasma</i> , 2021, 258, 849-861.	1.0	23
114	Negative correlation between the ratio of $K^{+}$ to $Na^{+}$ and proline accumulation in tobacco suspension cells. <i>Soil Science and Plant Nutrition</i> , 2002, 48, 753-757.	0.8	22
115	Purification and partial characterization of an acid phosphatase from the body wall of sea cucumber <i>Stichopus japonicus</i> . <i>Process Biochemistry</i> , 2009, 44, 875-879.	1.8	22
116	Octanol/Water Partition Coefficient of Ortho-Substituted Aromatic Solutes. <i>Journal of Pharmaceutical Sciences</i> , 1993, 82, 776-781.	1.6	21
117	The Roles of CATALASE2 in Abscisic Acid Signaling in <i>Arabidopsis</i> Guard Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 2034-2036.	0.6	21
118	Changes of collagen in sea cucumber ( <i>Stichopus japonicus</i> ) during cooking. <i>Food Science and Biotechnology</i> , 2011, 20, 1137-1141.	1.2	21
119	Extraction, structural characterization and antioxidant activity of polyhydroxylated 1,4-naphthoquinone pigments from spines of sea urchin <i>Glyptocidaris crenularis</i> and <i>Strongylocentrotus intermedius</i> . <i>European Food Research and Technology</i> , 2013, 237, 331-339.	1.6	21
120	Reactive Carbonyl Species Mediate Methyl Jasmonate-Induced Stomatal Closure. <i>Plant and Cell Physiology</i> , 2020, 61, 1788-1797.	1.5	21
121	( $\alpha$ )-Epigallocatechin-3-gallate induces up-regulation of Th1 and Th2 cytokine genes in Jurkat T cells. <i>Archives of Biochemistry and Biophysics</i> , 2009, 483, 99-105.	1.4	20
122	FIA functions as an early signal component of abscisic acid signal cascade in <i>Vicia faba</i> guard cells. <i>Journal of Experimental Botany</i> , 2012, 63, 1357-1365.	2.4	20
123	Antifungal activity of the fermentation product of herbs by lactic acid bacteria against tinea. <i>Journal of Bioscience and Bioengineering</i> , 2002, 94, 401-405.	1.1	19
124	3,4-Dihydroxyphenylacetic acid is a potential aldehyde dehydrogenase inducer in murine hepatoma Hepa1c7 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1978-1983.	0.6	19
125	Reduction of Noise-stress-induced Physiological Damage by Radices of <i>Astragalus</i> and <i>Rhodiola</i> : Glycogen, Lactic Acid and Cholesterol Contents in Liver of the Rat. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1930-1936.	0.6	18
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128	EXTRACTION OF LIPID FROM ABALONE ( <i>HALIOTIS DISCUS HANNAI</i> INO) GONAD BY SUPERCRITICAL CARBON DIOXIDE AND ENZYME-ASSISTED ORGANIC SOLVENT METHODS. <i>Journal of Food Processing and Preservation</i> , 2012, 36, 126-132.	0.9	18
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