Ray A Bressan

List of Publications by Year
in descending order

202 papers	26,387 citations	4370 86 h-index	6454 157 g-index
209 all docs	209 docs citations	209 times ranked	18636 citing authors

#	Article	IF	Citations
1	PLANTCELLULAR ANDMOLECULARRESPONSES TOHIGHSALINITY. Annual Review of Plant Biology, 2000, 51, 463-499.	14.2	3,766
2	Abscisic acid dynamics, signaling, and functions in plants. Journal of Integrative Plant Biology, 2020, 62, 25-54.	4.1	771
3	SIZ1-Mediated Sumoylation of ICE1 Controls CBF3/DREB1A Expression and Freezing Tolerance in Arabidopsis. Plant Cell, 2007, 19, 1403-1414.	3.1	652
4	The Arabidopsis SUMO E3 ligase SIZ1 controls phosphate deficiency responses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7760-7765.	3.3	556
5	The Salt Overly Sensitive (SOS) Pathway: Established and Emerging Roles. Molecular Plant, 2013, 6, 275-286.	3.9	528
6	ABA receptor PYL9 promotes drought resistance and leaf senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1949-1954.	3.3	508
7	Differential expression and function of Arabidopsis thaliana NHX Na+/H+ antiporters in the salt stress response. Plant Journal, 2002, 30, 529-539.	2.8	491
8	Salt Cress. A Halophyte and Cryophyte Arabidopsis Relative Model System and Its Applicability to Molecular Genetic Analyses of Growth and Development of Extremophiles. Plant Physiology, 2004, 135, 1718-1737.	2.3	447
9	Characterization of Osmotin. Plant Physiology, 1987, 85, 529-536.	2.3	446
10	Regulation of protease inhibitors and plant defense. Trends in Plant Science, 1997, 2, 379-384.	4.3	428
11	Does proline accumulation play an active role in stress-induced growth reduction?. Plant Journal, 2002, 31, 699-712.	2.8	357
12	Molecular Aspects of Osmotic Stress in Plants. Critical Reviews in Plant Sciences, 1997, 16, 253-277.	2.7	356
13	The genome of the extremophile crucifer Thellungiella parvula. Nature Genetics, 2011, 43, 913-918.	9.4	318
14	AtHKT1 Facilitates Na+ Homeostasis and K+ Nutrition in Planta. Plant Physiology, 2004, 136, 2500-2511.	2.3	297
15	Involvement of Arabidopsis HOS15 in histone deacetylation and cold tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4945-4950.	3.3	293
16	Mutations in a subfamily of abscisic acid receptor genes promote rice growth and productivity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6058-6063.	3.3	284
17	Molecular Cloning of Osmotin and Regulation of Its Expression by ABA and Adaptation to Low Water Potential. Plant Physiology, 1989, 90, 1096-1101.	2.3	273
18	Salicylic acid-mediated innate immunity in Arabidopsis is regulated by SIZ1 SUMO E3 ligase. Plant Journal, 2006, 49, 79-90.	2.8	271

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19	The AtNHX1 exchanger mediates potassium compartmentation in vacuoles of transgenic tomato. Plant Journal, 2010, 61, 495-506.	2.8	268
20	Salt causes ion disequilibriumâ€induced programmed cell death in yeast and plants. Plant Journal, 2002, 29, 649-659.	2.8	261
21	Loss of Halophytism by Interference with SOS1 Expression. Plant Physiology, 2009, 151, 210-222.	2.3	254
22	Proteins Associated with Adaptation of Cultured Tobacco Cells to NaCl. Plant Physiology, 1985, 79, 126-137.	2.3	252
23	Intracellular Compartmentation of Ions in Salt Adapted Tobacco Cells. Plant Physiology, 1988, 86, 607-614.	2.3	252
24	A Vacuolar Î²-Glucosidase Homolog That Possesses Glucose-Conjugated Abscisic Acid Hydrolyzing Activity Plays an Important Role in Osmotic Stress Responses in Arabidopsis. Plant Cell, 2012, 24, 2184-2199.	3.1	251
25	An Arabidopsis homeodomain transcription factor gene, HOS9, mediates cold tolerance through a CBF-independent pathway. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9873-9878.	3.3	236
26	Metabolic Changes Associated with Adaptation of Plant Cells to Water Stress. Plant Physiology, 1986, 82, 890-903.	2.3	233
27	Antifungal activity of tobacco osmotin has specificity and involves plasma membrane permeabilization. Plant Science, 1996, 118, 11-23.	1.7	232
28	Control of DNA methylation and heterochromatic silencing by histone H2B deubiquitination. Nature, 2007, 447, 735-738.	13.7	225
29	Release of SOS2 kinase from sequestration with GIGANTEA determines salt tolerance in Arabidopsis. Nature Communications, 2013, 4, 1352.	5.8	220
30	The SUMO E3 ligase, AtSIZ1, regulates flowering by controlling a salicylic acidâ€mediated floral promotion pathway and through affects on FLC chromatin structure. Plant Journal, 2008, 53, 530-540.	2.8	216
31	Proline Accumulation and the Adaptation of Cultured Plant Cells to Water Stress. Plant Physiology, 1986, 80, 938-945.	2.3	214
32	Reactive oxygen species mediate Na⁺â€inducedSOS1mRNA stability in Arabidopsis. Plant Journal, 2008, 53, 554-565.	2.8	214
33	Coordinate Accumulation of Antifungal Proteins and Hexoses Constitutes a Developmentally Controlled Defense Response during Fruit Ripening in Grape1. Plant Physiology, 1998, 117, 465-472.	2.3	213
34	OSM1/SYP61: A Syntaxin Protein in Arabidopsis Controls Abscisic Acidâ€“Mediated and Non-Abscisic Acidâ€“Mediated Responses to Abiotic Stress. Plant Cell, 2002, 14, 3009-3028.	3.1	204
35	Stress signaling through Ca2+/calmodulin-dependent protein phosphatase calcineurin mediates salt adaptation in plants. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9681-9686.	3.3	202
36	The STT3a Subunit Isoform of the Arabidopsis Oligosaccharyltransferase Controls Adaptive Responses to Salt/Osmotic Stress. Plant Cell, 2003, 15, 2273-2284.	3.1	202

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37	YUCCA6 over-expression demonstrates auxin function in delaying leaf senescence in Arabidopsis thaliana. Journal of Experimental Botany, 2011, 62, 3981-3992.	2.4	195
38	Solutes Contributing to Osmotic Adjustment in Cultured Plant Cells Adapted to Water Stress. Plant Physiology, 1983, 73, 834-843.	2.3	185
39	Learning from the Arabidopsis Experience. The Next Gene Search Paradigm. Plant Physiology, 2001, 127, 1354-1360.	2.3	183
40	Osmotin Is a Homolog of Mammalian Adiponectin and Controls Apoptosis in Yeast through a Homolog of Mammalian Adiponectin Receptor. Molecular Cell, 2005, 17, 171-180.	4.5	179
41	A genomics approach towards salt stress tolerance. Plant Physiology and Biochemistry, 2001, 39, 295-311.	2.8	176
42	Alteration of the Physical and Chemical Structure of the Primary Cell Wall of Growth-Limited Plant Cells Adapted to Osmotic Stress. Plant Physiology, 1989, 91, 39-47.	2.3	174
43	Overexpression of Arabidopsis YUCCA6 in Potato Results in High-Auxin Developmental Phenotypes and Enhanced Resistance to Water Deficit. Molecular Plant, 2013, 6, 337-349.	3.9	174
44	HOS10 encodes an R2R3-type MYB transcription factor essential for cold acclimation in plants. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9966-9971.	3.3	173
45	Ethylene signalling is involved in regulation of phosphate starvationâ€induced gene expression and production of acid phosphatases and anthocyanin in Arabidopsis. New Phytologist, 2011, 189, 1084-1095.	3.5	172
46	Solute Accumulation in Tobacco Cells Adapted to NaCl. Plant Physiology, 1987, 84, 1408-1415.	2.3	168
47	Adaptation of Tobacco Cells to NaCl. Plant Physiology, 1985, 79, 118-125.	2.3	164
48	SIZ1 Small Ubiquitin-Like Modifier E3 Ligase Facilitates Basal Thermotolerance in Arabidopsis Independent of Salicylic Acid. Plant Physiology, 2006, 142, 1548-1558.	2.3	164
49	TsHKT1;2, a HKT1 Homolog from the Extremophile Arabidopsis Relative Thellungiella salsuginea, Shows K+ Specificity in the Presence of NaCl Â Â. Plant Physiology, 2012, 158, 1463-1474.	2.3	161
50	Genes That Are Uniquely Stress Regulated in Salt Overly Sensitive (sos) Mutants. Plant Physiology, 2001, 126, 363-375.	2.3	160
51	Epigenetic switch from repressive to permissive chromatin in response to cold stress. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5400-E5409.	3.3	157
52	Uncoupling the Effects of Abscisic Acid on Plant Growth and Water Relations. Analysis of sto1/nced3, an Abscisic Acid-Deficient but Salt Stress-Tolerant Mutant in Arabidopsis. Plant Physiology, 2004, 136, 3134-3147.	2.3	156
53	Identification of a locus controlling Verticillium disease symptom response in Arabidopsis thaliana. Plant Journal, 2003, 35, 574-587.	2.8	155
54	Arabidopsis Duodecuple Mutant of PYL ABA Receptors Reveals PYL Repression of ABA-Independent SnRK2 Activity. Cell Reports, 2018, 23, 3340-3351.e5.	2.9	153

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55	A Plant Defense Response Effector Induces Microbial Apoptosis. Molecular Cell, 2001, 8, 921-930.	4.5	151
56	Arabidopsis ECERIFERUM9 Involvement in Cuticle Formation and Maintenance of Plant Water Status Â Â. Plant Physiology, 2012, 159, 930-944.	2.3	150
57	C-terminal domain phosphatase-like family members (AtCPLs) differentially regulate Arabidopsis thaliana abiotic stress signaling, growth, and development. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10893-10898.	3.3	146
58	Regulation of miR399f Transcription by AtMYB2 Affects Phosphate Starvation Responses in Arabidopsis Â. Plant Physiology, 2012, 161, 362-373.	2.3	146
59	Intracellular consequences of SOS1 deficiency during salt stress. Journal of Experimental Botany, 2010, 61, 1205-1213.	2.4	139
60	yucca6, a Dominant Mutation in Arabidopsis, Affects Auxin Accumulation and Auxin-Related Phenotypes. Plant Physiology, 2007, 145, 722-735.	2.3	138
61	Repression of stress-responsive genes by FIERY2, a novel transcriptional regulator in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10899-10904.	3.3	137
62	Abscisic Acid Stimulated Osmotic Adjustment and Its Involvement in Adaptation of Tobacco Cells to NaCl. Plant Physiology, 1987, 85, 174-181.	2.3	133
63	An Osmotically Induced Cytosolic Ca2+ Transient Activates Calcineurin Signaling to Mediate Ion Homeostasis and Salt Tolerance of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2002, 277, 33075-33080.	1.6	133
64	An Enhancer Mutant of Arabidopsis salt overly sensitive 3 Mediates both Ion Homeostasis and the Oxidative Stress Response. Molecular and Cellular Biology, 2007, 27, 5214-5224.	1.1	127
65	NRPD4, a protein related to the RPB4 subunit of RNA polymerase II, is a component of RNA polymerases IV and V and is required for RNA-directed DNA methylation. Genes and Development, 2009, 23, 318-330.	2.7	126
66	A comparative study of salt tolerance parameters in 11 wild relatives of Arabidopsis thaliana. Journal of Experimental Botany, 2010, 61, 3787-3798.	2.4	126
67	Abiotic Stress and Plant Genome Evolution. Search for New Models. Plant Physiology, 2005, 138, 127-130.	2.3	124
68	In Defense against Pathogens. Both Plant Sentinels and Foot Soldiers Need to Know the Enemy,. Plant Physiology, 2003, 131, 1580-1590.	2.3	122
69	Osmotin, a Plant Antifungal Protein, Subverts Signal Transduction to Enhance Fungal Cell Susceptibility. Molecular Cell, 1998, 1, 807-817.	4.5	120
70	NaCl Regulation of Tonoplast ATPase 70-Kilodalton Subunit mRNA in Tobacco Cells. Plant Physiology, 1991, 97, 562-568.	2.3	115
71	Plants use calcium to resolve salt stress. Trends in Plant Science, 1998, 3, 411-412.	4.3	113
72	Osmotin Gene Expression Is Posttranscriptionally Regulated. Plant Physiology, 1992, 100, 409-415.	2.3	110

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73	Comparative Analysis of the Regulation of Expression and Structures of Two Evolutionarily Divergent Genes for Î”1-Pyrroline-5-Carboxylate Synthetase from Tomato. Plant Physiology, 1998, 118, 661-674.	2.3	108
74	Arabidopsis C-terminal domain phosphatase-like 1 and 2 are essential Ser-5-specific C-terminal domain phosphatases. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14539-14544.	3.3	108
75	Expressed sequence tags from Thellungiella halophila, a new model to study plant salt-tolerance. Plant Science, 2004, 166, 609-616.	1.7	108
76	Plant Defense Genes Are Synergistically Induced by Ethylene and Methyl Jasmonate. Plant Cell, 1994, 6, 1077.	3.1	107
77	Enrichment of vitronectin- and fibronectin-like proteins in NaCl-adapted plant cells and evidence for their involvement in plasma membrane-cell wall adhesion. Plant Journal, 1993, 3, 637-646.	2.8	106
78	Cell Walls of Tobacco Cells and Changes in Composition Associated with Reduced Growth upon Adaptation to Water and Saline Stress. Plant Physiology, 1989, 91, 48-53.	2.3	103
79	Crystal structure of osmotin, a plant antifungal protein. Proteins: Structure, Function and Bioinformatics, 2003, 54, 170-173.	1.5	101
80	Activated Calcineurin Confers High Tolerance to Ion Stress and Alters the Budding Pattern and Cell Morphology of Yeast Cells. Journal of Biological Chemistry, 1996, 271, 23061-23067.	1.6	99
81	A plant defensive cystatin (soyacystatin) targets cathepsin L-like digestive cysteine proteinases (DvCALs) in the larval midgut of western corn rootworm (Diabrotica virgifera virgifera). FEBS Letters, 2000, 471, 67-70.	1.3	97
82	The Arabidopsis Tetratricopeptide Repeat-Containing Protein TTL1 Is Required for Osmotic Stress Responses and Abscisic Acid Sensitivity. Plant Physiology, 2006, 142, 1113-1126.	2.3	97
83	Genome Structures and Halophyte-Specific Gene Expression of the Extremophile Thellungiella parvula in Comparison with Thellungiella salsuginea (Thellungiella halophila) and Arabidopsis. Plant Physiology, 2010, 154, 1040-1052.	2.3	97
84	Improved germination under osmotic stress of tobacco plants overexpressing a cell wall peroxidase. FEBS Letters, 1999, 457, 80-84.	1.3	95
85	A Single Amino-Acid Substitution in the Sodium Transporter HKT1 Associated with Plant Salt Tolerance. Plant Physiology, 2016, 171, 2112-2126.	2.3	93
86	The miR165/166 Mediated Regulatory Module Plays Critical Roles in ABA Homeostasis and Response in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006416.	1.5	91
87	Enhanced Net K⁺ Uptake Capacity of NaCl-Adapted Cells. Plant Physiology, 1991, 95, 1265-1269.	2.3	90
88	Abscisic Acid Accelerates Adaptation of Cultured Tobacco Cells to Salt. Plant Physiology, 1985, 79, 138-142.	2.3	89
89	Fungal cell wall phosphomannans facilitate the toxic activity of a plant PR-5 protein. Plant Journal, 2000, 23, 375-383.	2.8	89
90	Induction of a Putative Ca2+-ATPase mRNA in NaCl-Adapted Cells. Plant Physiology, 1992, 100, 1471-1478.	2.3	87

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91	Analysis of structure and transcriptional activation of an osmotin gene. Plant Molecular Biology, 1992, 19, 577-588.	2.0	85
92	Functional characterization of the SIZ/PIASâ€type SUMO E3 ligases, OsSIZ1 and OsSIZ2 in rice. Plant, Cell and Environment, 2010, 33, 1923-1934.	2.8	85
93	Phage display selection can differentiate insecticidal activity of soybean cystatins. Plant Journal, 1998, 14, 371-379.	2.8	84
94	The Phosphate Transporter PHT4;6 Is a Determinant of Salt Tolerance that Is Localized to the Golgi Apparatus of Arabidopsis. Molecular Plant, 2009, 2, 535-552.	3.9	83
95	Auxin-Mediated Ribosomal Biogenesis Regulates Vacuolar Trafficking inArabidopsisÂ. Plant Cell, 2010, 22, 143-158.	3.1	82
96	A novel thiol-reductase activity of Arabidopsis YUC6 confers drought tolerance independently of auxin biosynthesis. Nature Communications, 2015, 6, 8041.	5.8	82
97	Stable NaCl Tolerance of Tobacco Cells Is Associated with Enhanced Accumulation of Osmotin. Plant Physiology, 1989, 91, 855-861.	2.3	78
98	Osmogenetics: Aristotle to Arabidopsis. Plant Cell, 2006, 18, 1542-1557.	3.1	78
99	Role and Functional Differences of HKT1-Type Transporters in Plants under Salt Stress. International Journal of Molecular Sciences, 2019, 20, 1059.	1.8	78
100	Extracellular Polysaccharides and Proteins of Tobacco Cell Cultures and Changes in Composition Associated with Growth-Limiting Adaptation to Water and Saline Stress. Plant Physiology, 1989, 91, 54-61.	2.3	76
101	Characteristics of Cultured Tomato Cells after Prolonged Exposure to Medium Containing Polyethylene Glycol. Plant Physiology, 1982, 69, 514-521.	2.3	73
102	Carbon Assimilation in Carrot Cells in Liquid Culture. Plant Physiology, 1986, 82, 363-368.	2.3	73
103	Mutants of the Arabidopsis thaliana Cation/H+ Antiporter AtNHX1 Conferring Increased Salt Tolerance in Yeast. Journal of Biological Chemistry, 2009, 284, 14276-14285.	1.6	71
104	Mutations in a Conserved Replication Protein Suppress Transcriptional Gene Silencing in a DNA-Methylation-Independent Manner in Arabidopsis. Current Biology, 2005, 15, 1912-1918.	1.8	68
105	Plasma-membrane H+-ATPase gene expression is regulated by NaCl in cells of the halophyte Atriplex nummularia L.. Planta, 1993, 190, 433-8.	1.6	67
106	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. Nature Communications, 2018, 9, 4547.	5.8	66
107	Identification of plant stress-responsive determinants in arabidopsis by large-scale forward genetic screens. Journal of Experimental Botany, 2006, 57, 1119-1128.	2.4	65
108	Characterization and in situ localization of a salt-induced tomato peroxidase mRNA. Plant Molecular Biology, 1994, 25, 105-114.	2.0	64

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109	Histone hyperacetylation affects meiotic recombination and chromosome segregation in Arabidopsis. Plant Journal, 2010, 62, 796-806.	2.8	62
110	Theglossyhead1Allele ofACC1Reveals a Principal Role for Multidomain Acetyl-Coenzyme A Carboxylase in the Biosynthesis of Cuticular Waxes by Arabidopsis Â Â. Plant Physiology, 2011, 157, 1079-1092.	2.3	62
111	Growth and Water Relations of Cultured Tomato Cells after Adjustment to Low External Water Potentials. Plant Physiology, 1982, 70, 1303-1309.	2.3	60
112	Molecular Aspects of Osmotic Stress in Plants. Critical Reviews in Plant Sciences, 1997, 16, 253-278.	2.7	60
113	Analysis of an osmotically regulated pathogenesis-related osmotin gene promoter. Plant Molecular Biology, 1993, 23, 1117-1128.	2.0	58
114	Rheostatic Control of ABA Signaling through HOS15-Mediated OST1 Degradation. Molecular Plant, 2019, 12, 1447-1462.	3.9	58
115	Elevated Accumulation of Proline in NaCl-Adapted Tobacco Cells Is Not Due to Altered Î”¹-Pyrroline-5-Carboxylate Reductase. Plant Physiology, 1991, 96, 245-250.	2.3	57
116	Review: Unravelling the functional relationship between root anatomy and stress tolerance. Functional Plant Biology, 2001, 28, 999.	1.1	56
117	The ArabidopsisRESURRECTION1Gene Regulates a Novel Antagonistic Interaction in Plant Defense to Biotrophs and Necrotrophs. Plant Physiology, 2009, 151, 290-305.	2.3	56
118	Specific Domain Structures Control Abscisic Acid-, Salicylic Acid-, and Stress-Mediated SIZ1 Phenotypes. Plant Physiology, 2009, 151, 1930-1942.	2.3	55
119	A NaCl-regulated plant gene encoding a brain protein homolog that activates ADP ribosyltransferase and inhibits protein kinase C. Plant Journal, 1994, 6, 729-740.	2.8	54
120	Transgenic sorghum plants obtained after microprojectile bombardment of immature inflorescences. In Vitro Cellular and Developmental Biology - Plant, 1997, 33, 92-100.	0.9	53
121	Resistance to the plant PR-5 protein osmotin in the model fungus Saccharomyces cerevisiae is mediated by the regulatory effects of SSD1 on cell wall composition. Plant Journal, 2001, 25, 271-280.	2.8	53
122	Sodium Stress in the Halophyte Thellungiella halophila and Transcriptional Changes in a thsos1â€RNA Interference Line. Journal of Integrative Plant Biology, 2007, 49, 1484-1496.	4.1	53
123	Control of Plant Water Use by ABA Induction of Senescence and Dormancy: An Overlooked Lesson from Evolution. Plant and Cell Physiology, 2017, 58, 1319-1327.	1.5	51
124	A Nitrilase-Like Protein Interacts with GCC Box DNA-Binding Proteins Involved in Ethylene and Defense Responses. Plant Physiology, 1998, 118, 867-874.	2.3	50
125	Tissue-specific activation of the osmotin gene by ABA, C2H4 and NaCl involves the same promoter region. Plant Molecular Biology, 1997, 34, 393-402.	2.0	48
126	HOS3, an ELO-Like Gene, Inhibits Effects of ABA and Implicates a S-1-P/Ceramide Control System for Abiotic Stress Responses in Arabidopsis thaliana. Molecular Plant, 2009, 2, 138-151.	3.9	48

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127	Heterotrimeric G-proteins of a filamentous fungus regulate cell wall composition and susceptibility to a plant PR-5 protein. Plant Journal, 2000, 22, 61-69.	2.8	45
128	Protease inhibitors from several classes work synergistically against Callosobruchus maculatus. Journal of Insect Physiology, 2007, 53, 734-740.	0.9	45
129	Isolation and Partial Characterization of a Seed Lectin from Tepary Bean that Delays Bruchid Beetle Development. Plant Physiology, 1990, 93, 1453-1459.	2.3	42
130	Photoautotrophic potato cells: Transition from heterotrophic to autotrophic growth. Physiologia Plantarum, 1984, 61, 279-286.	2.6	41
131	Overexpression of a cell wall glycoprotein in Fusarium oxysporum increases virulence and resistance to a plant PR-5 protein. Plant Journal, 2003, 36, 390-400.	2.8	41
132	Arabidopsis Carboxyl-Terminal Domain Phosphatase-Like Isoforms Share Common Catalytic and Interaction Domains But Have Distinct in Planta Functions. Plant Physiology, 2006, 142, 586-594.	2.3	41
133	Reduced Cell Expansion and Changes in Cell Walls of Plant Cells Adapted to NaCl. , 1990, , 137-171.		40
134	Identification of Regions of the Tomato Î³-Glutamyl Kinase That Are Involved in Allosteric Regulation by Proline. Journal of Biological Chemistry, 2003, 278, 14203-14210.	1.6	39
135	Identification and Molecular Properties of SUMO-Binding Proteins in Arabidopsis. Molecules and Cells, 2011, 32, 143-152.	1.0	39
136	BONZAI Proteins Control Global Osmotic Stress Responses in Plants. Current Biology, 2020, 30, 4815-4825.e4.	1.8	39
137	Unraveling salt tolerance in crops. Nature Genetics, 2005, 37, 1029-1030.	9.4	38
138	Clonal Variation for Tolerance to Polyethylene Glycol-Induced Water Stress in Cultured Tomato Cells. Plant Physiology, 1983, 72, 645-653.	2.3	37
139	Expression of Osmotin-Like Genes in the Halophyte Atriplex nummularia L.. Plant Physiology, 1992, 99, 329-337.	2.3	37
140	Control of osmotin gene expression by ABA and osmotic stress in vegetative tissues of wild-type and ABA-deficient mutants of tomato. Physiologia Plantarum, 1995, 93, 498-504.	2.6	36
141	Stress-adapted extremophiles provide energy without interference with food production. Food Security, 2011, 3, 93-105.	2.4	36
142	Adiponectin and Plant-Derived Mammalian Adiponectin Homolog Exert a Protective Effect in Murine Colitis. Digestive Diseases and Sciences, 2011, 56, 2818-2832.	1.1	33
143	In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix. Plant Science, 1996, 121, 123-131.	1.7	32
144	Bioengineering mint crop improvement. Plant Cell, Tissue and Organ Culture, 2001, 64, 133-144.	1.2	32

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145	The Role of the Epigenome in Gene Expression Control and the Epimark Changes in Response to the Environment. Critical Reviews in Plant Sciences, 2014, 33, 64-87.	2.7	31
146	AtPR5K2, a PR5-Like Receptor Kinase, Modulates Plant Responses to Drought Stress by Phosphorylating Protein Phosphatase 2Cs. Frontiers in Plant Science, 2019, 10, 1146.	1.7	31
147	The Arabidopsis Kinase-Associated Protein Phosphatase Regulates Adaptation to Na⁺ Stress. Plant Physiology, 2008, 146, 612-622.	2.3	30
148	Cuticular Waxes on Arabidopsis thaliana Close Relatives Thellungiella halophila and Thellungiella parvula. International Journal of Plant Sciences, 2002, 163, 309-315.	0.6	29
149	Itâ€™s Hard to Avoid Avoidance: Uncoupling the Evolutionary Connection between Plant Growth, Productivity and Stress â€œToleranceâ€• International Journal of Molecular Sciences, 2018, 19, 3671.	1.8	29
150	Title is missing!. Molecular Breeding, 2001, 8, 109-118.	1.0	28
151	Mutation in SUMO E3 ligase, SIZ1, Disrupts the Mature Female Gametophyte in Arabidopsis. PLoS ONE, 2012, 7, e29470.	1.1	28
152	Induction of pathogen resistance and pathogenesis-related genes in tobacco by a heat-stable Trichoderma mycelial extract and plant signal messengers. Physiologia Plantarum, 1997, 100, 341-352.	2.6	27
153	Control of osmotin gene expression by ABA and osmotic stress in vegetative tissues of wild-type and ABA-deficient mutants of tomato. Physiologia Plantarum, 1995, 93, 498-504.	2.6	26
154	Inorganic Cations Mediate Plant PR5 Protein Antifungal Activity through Fungal Mnn1- and Mnn4-Regulated Cell Surface Glycans. Molecular Plant-Microbe Interactions, 2004, 17, 780-788.	1.4	26
155	Estimation of Growth Yield and Maintenance Coefficient of Plant Cell Suspensions. Biotechnology and Bioengineering, 1991, 38, 1131-1136.	1.7	25
156	Identification ofN-acetylglucosamine binding residues inGriffonia simplicifolialectin II. FEBS Letters, 1996, 390, 271-274.	1.3	25
157	Interactions between the kernel N sink, grain yield and protein nutritional quality of maize. Journal of the Science of Food and Agriculture, 1983, 34, 255-263.	1.7	24
158	Moderately increased constitutive proline does not alter osmotic stress tolerance. Physiologia Plantarum, 1997, 101, 240-246.	2.6	24
159	Biotechnology for mechanisms that counteract salt stress in extremophile species: a genome-based view. Plant Biotechnology Reports, 2013, 7, 27-37.	0.9	24
160	Metabolic Adjustment of Arabidopsis Root Suspension Cells During Adaptation to Salt Stress and Mitotic Stress Memory. Plant and Cell Physiology, 2019, 60, 612-625.	1.5	24
161	Phage display selection of hairpin loop soyacystatin variants that mediate high affinity inhibition of a cysteine proteinase. Plant Journal, 2001, 27, 383-391.	2.8	23
162	The ascorbic acid cycle mediates signal transduction leading to stress-induced stomatal closure. Functional Plant Biology, 2002, 29, 845.	1.1	23

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163	Regulation of the Osmotin Gene Promoter. Plant Cell, 1992, 4, 513.	3.1	22
164	Carbon Use Efficiency and Cell Expansion of NaCl-Adapted Tobacco Cells. Plant Physiology, 1990, 93, 384-388.	2.3	21
165	Genotypic diversity enhances recovery of hybrids and fertile backcrosses of Phaseolus vulgaris L. ï¿½ P. acutifolius A. Gray. Euphytica, 1985, 34, 329-334.	0.6	20
166	Fine structure and function of the osmotin gene promoter. Plant Molecular Biology, 1995, 29, 1015-1026.	2.0	20
167	Alterations in cell membrane structure and expression of a membrane-associated protein after adaptation to osmotic stress. Physiologia Plantarum, 1996, 98, 505-516.	2.6	20
168	Tobacco and Arabidiopsis SLT1 mediate salt tolerance of yeast. Plant Molecular Biology, 2001, 45, 489-500.	2.0	19
169	Soyacystatin N Inhibits Proteolysis of Wheat Î±-Amylase Inhibitor and Potentiates Toxicity Against Cowpea Weevil. Journal of Economic Entomology, 2004, 97, 2095-2100.	0.8	19
170	Use of the Plant Defense Protein Osmotin To Identify Fusarium oxysporum Genes That Control Cell Wall Properties. Eukaryotic Cell, 2010, 9, 558-568.	3.4	19
171	Alterations in cell membrane structure and expression of a membrane-associated protein after adaptation to osmotic stress. Physiologia Plantarum, 1996, 98, 505-516.	2.6	18
172	SOS1 and Halophytism. Plant Signaling and Behavior, 2009, 4, 1081-1083.	1.2	18
173	Chapter 11 Unexpected Turns and Twists in Structure/Function of PR-Proteins that Connect Energy Metabolism and Immunity. Advances in Botanical Research, 2009, 51, 439-489.	0.5	18
174	Modification of Proton Transport Kinetics of the Plasma Membrane H+-ATPase after Adaptation of Tobacco Cells to NaCl. Journal of Plant Physiology, 1993, 142, 312-318.	1.6	15
175	The effect of genomics on weed management in the 21st century. Weed Science, 2001, 49, 282-289.	0.8	15
176	Regulation of Plant Innate Immunity by SUMO E3 Ligase. Plant Signaling and Behavior, 2007, 2, 253-254.	1.2	14
177	Growth Yields and Maintenance Coefficients of Unadapted and NaCl-Adapted Tobacco Cells Grown in Semicontinuous Culture. Plant Physiology, 1991, 96, 1289-1293.	2.3	13
178	Osmotin gene expression is controlled by elicitor synergism. Physiologia Plantarum, 1995, 95, 620-626.	2.6	13
179	Efficient plant regeneration of native spearmint (Mentha spicata L.). In Vitro Cellular and Developmental Biology - Plant, 1999, 35, 333-338.	0.9	13
180	Genetic Engineering for Salinity Stress Tolerance. Advances in Plant Biochemistry and Molecular Biology, 2008, , 347-384.	0.5	13

#	Article	IF	Citations
181	NKS1, Na+- and K+-sensitive 1, regulates ion homeostasis in an SOS-independent pathway in Arabidopsis. Phytochemistry, 2011, 72, 330-336.	1.4	12
182	A Saccharomyces cerevisiae Assay System to Investigate Ligand/AdipoR1 Interactions That Lead to Cellular Signaling. PLoS ONE, 2013, 8, e65454.	1.1	12
183	Osmotin gene expression is controlled by elicitor synergism. Physiologia Plantarum, 1995, 95, 620-626.	2.6	11
184	Soyacystatin N Inhibits Proteolysis of Wheat Î±-Amylase Inhibitor and Potentiates Toxicity Against Cowpea Weevil. Journal of Economic Entomology, 2004, 97, 2095-2100.	0.8	11
185	Structure, Regulation and Function of the Osmotin Gene. , 1994, , 381-414.		11
186	Highly efficient in vitro adventitious shoot regeneration of peppermint (Mentha x piperita L.) using internodal explants. In Vitro Cellular and Developmental Biology - Plant, 2009, 45, 435-440.	0.9	10
187	Structural and functional studies of SIZ1, a PIAS-type SUMO E3 ligase fromArabidopsis. Plant Signaling and Behavior, 2010, 5, 567-569.	1.2	10
188	The Long and Winding Road to Halotolerance Genes. , 2002, , 505-533.		10
189	Using Arabidopsis-Related Model Species (ARMS): Growth, Genetic Transformation, and Comparative Genomics. Methods in Molecular Biology, 2014, 1062, 27-51.	0.4	8
190	PHYSIOLOGICAL AND HERITABLE CHANGES IN CYCLIC AMP LEVELS ASSOCIATED WITH CHANGES IN FLAGELLAR FORMATION IN CHLAMYDOMONAS REINHARDTII (CHLOROPHYTA)1. Journal of Phycology, 1991, 27, 587-591.	1.0	7
191	Quantitative mRNA-PCR for expression analysis of low-abundance transcripts. Plant Molecular Biology Reporter, 1993, 11, 237-248.	1.0	7
192	Non-CG DNA methylation-deficiency mutations enhance mutagenesis rates during salt adaptation in cultured Arabidopsis cells. Stress Biology, 2021, 1, 1.	1.5	7
193	Transcription profiling of laser microdissected microsporocytes in an Arabidopsis mutant (Atmcc1) with enhanced histone acetylation. Journal of Plant Biology, 2012, 55, 281-289.	0.9	6
194	Pathogen Associated Molecular Pattern (PAMP)-Triggered Immunity Is Compromised under C-Limited Growth. Molecules and Cells, 2015, 38, 40-50.	1.0	6
195	An In-Gel Assay of a Recombinant Western Corn Rootworm (Diabrotica virgifera virgifera) Cysteine Proteinase Expressed in Yeast. Analytical Biochemistry, 2000, 282, 153-155.	1.1	5
196	Can the Quest for Drought Tolerant Crops AvoidArabidopsisAny Longer?. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2003, 7, 99-129.	0.4	4
197	Comparison of Chemical Characteristics of Three Soybean Cysteine Proteinase Inhibitors. Journal of Agricultural and Food Chemistry, 2005, 53, 1591-1597.	2.4	4
198	Consequences of SOS1 deficiency. Plant Signaling and Behavior, 2010, 5, 766-768.	1.2	4

#	Article	IF	Citations
199	Large quantities of recombinant PR-5 proteins from the extracellular matrix of tobacco: Rapid production of microbial-recalcitrant proteins. Plant Molecular Biology Reporter, 1996, 14, 249-260.	1.0	3
200	Identification of a novel DNA-binding protein to osmotin promoter. Science in China Series C: Life Sciences, 1998, 41, 657-663.	1.3	3
201	Occurrence of cyclic adenosine 3?,5?-monophosphate in the phytopathogenic fungi Alternaria solani and Phymatotrichum omnivorum. Archives of Microbiology, 1983, 135, 125-129.	1.0	1
202	The scope of things to come. , 2012, , 19-34.		1