Heribert Hirt

List of Publications by Year
in descending order

233 papers	36,006 citations	4942 84 h-index	3394 183 g-index
240 all docs	240 docs citations	240 times ranked	27686 citing authors

#	Article	IF	Citations
1	REACTIVE OXYGEN SPECIES: Metabolism, Oxidative Stress, and Signal Transduction. Annual Review of Plant Biology, 2004, 55, 373-399.	8.6	9,281
2	Mitogen-activated protein kinase cascades in plants: a new nomenclature. Trends in Plant Science, 2002, 7, 301-308.	4.3	1,080
3	The MKK2 Pathway Mediates Cold and Salt Stress Signaling in Arabidopsis. Molecular Cell, 2004, 15, 141-152.	4.5	859
4	Signaling Mechanisms in Pattern-Triggered Immunity (PTI). Molecular Plant, 2015, 8, 521-539.	3.9	750
5	<i>Arabidopsis</i> MAPKs: a complex signalling network involved in multiple biological processes. Biochemical Journal, 2008, 413, 217-226.	1.7	652
6	Complexity, Cross Talk and Integration of Plant MAP Kinase Signalling. Current Opinion in Plant Biology, 2002, 5, 415-424.	3.5	650
7	Plant PP2C phosphatases: emerging functions in stress signaling. Trends in Plant Science, 2004, 9, 236-243.	4.3	628
8	Emerging MAP kinase pathways in plant stress signalling. Trends in Plant Science, 2005, 10, 339-346.	4.3	617
9	MAPK cascade signalling networks in plant defence. Current Opinion in Plant Biology, 2009, 12, 421-426.	3.5	612
10	OXI1 kinase is necessary for oxidative burst-mediated signalling in Arabidopsis. Nature, 2004, 427, 858-861.	13.7	556
11	The role of ABA and MAPK signaling pathways in plant abiotic stress responses. Biotechnology Advances, 2014, 32, 40-52.	6.0	528
12	The heatâ€shock protein/chaperone network and multiple stress resistance. Plant Biotechnology Journal, 2017, 15, 405-414.	4.1	513
13	The MAP kinase substrate MKS1 is a regulator of plant defense responses. EMBO Journal, 2005, 24, 2579-2589.	3.5	480
14	Stress signaling in plants: a mitogen-activated protein kinase pathway is activated by cold and drought.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11274-11279.	3.3	462
15	Rapid Avr9- and Cf-9â€“Dependent Activation of MAP Kinases in Tobacco Cell Cultures and Leaves: Convergence of Resistance Gene, Elicitor, Wound, and Salicylate Responses. Plant Cell, 1999, 11, 273-287.	3.1	458
16	The Membrane-Anchored BOTRYTIS-INDUCED KINASE1 Plays Distinct Roles in Arabidopsis Resistance to Necrotrophic and Biotrophic Pathogens. Plant Cell, 2005, 18, 257-273.	3.1	381
17	Heavy Metal Stress. Activation of Distinct Mitogen-Activated Protein Kinase Pathways by Copper and Cadmium. Plant Physiology, 2004, 136, 3276-3283.	2.3	370
18	Receptor-Mediated Activation of a MAP Kinase in Pathogen Defense of Plants. Science, 1997, 276, 2054-2057.	6.0	369

#	Article	IF	Citations
19	The BRI1-Associated Kinase 1, BAK1, Has a Brassinolide-Independent Role in Plant Cell-Death Control. Current Biology, 2007, 17, 1116-1122.	1.8	356
20	Opposite changes in membrane fluidity mimic cold and heat stress activation of distinct plant MAP kinase pathways. Plant Journal, 2002, 31, 629-638.	2.8	328
21	The Role of MAPK Modules and ABA during Abiotic Stress Signaling. Trends in Plant Science, 2016, 21, 677-685.	4.3	326
22	A Mitogen-activated Protein Kinase Kinase Kinase Mediates Reactive Oxygen Species Homeostasis in Arabidopsis. Journal of Biological Chemistry, 2006, 281, 38697-38704.	1.6	311
23	The PP2C-Type Phosphatase AP2C1, Which Negatively Regulates MPK4 and MPK6, Modulates Innate Immunity, Jasmonic Acid, and Ethylene Levels in<i>Arabidopsis</i>. Plant Cell, 2007, 19, 2213-2224.	3.1	302
24	Reactive Oxygen Species Signaling in Plants. Antioxidants and Redox Signaling, 2006, 8, 1757-1764.	2.5	300
25	A MAPK pathway mediates ethylene signaling in plants. EMBO Journal, 2003, 22, 1282-1288.	3.5	288
26	Microbial Elicitors Induce Activation and Dual Phosphorylation of the Arabidopsis thaliana MAPK 6. Journal of Biological Chemistry, 2000, 275, 7521-7526.	1.6	276
27	Multiple roles of MAP kinases in plant signal transduction. Trends in Plant Science, 1997, 2, 11-15.	4.3	270
28	A high quality Arabidopsis transcriptome for accurate transcript-level analysis of alternative splicing. Nucleic Acids Research, 2017, 45, 5061-5073.	6.5	262
29	Trojan Horse Strategy in <i>Agrobacterium</i> Transformation: Abusing MAPK Defense Signaling. Science, 2007, 318, 453-456.	6.0	251
30	A Major Role of the MEKK1â€"MKK1/2â€"MPK4 Pathway in ROS Signalling. Molecular Plant, 2009, 2, 120-137.	3.9	250
31	Hyperosmotic stress stimulates phospholipase D activity and elevates the levels of phosphatidic acid and diacylglycerol pyrophosphate. Plant Journal, 2000, 22, 147-154.	2.8	239
32	An Abscisic Acid-Independent Oxylipin Pathway Controls Stomatal Closure and Immune Defense in Arabidopsis. PLoS Biology, 2013, 11, e1001513.	2.6	239
33	The <i>Arabidopsis</i> Mitogen-Activated Protein Kinase Kinase MKK3 Is Upstream of Group C Mitogen-Activated Protein Kinases and Participates in Pathogen Signaling. Plant Cell, 2007, 19, 3266-3279.	3.1	234
34	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. Plant Molecular Biology, 1996, 32, 1003-1018.	2.0	232
35	Rhizosphere Microbes as Essential Partners for Plant Stress Tolerance. Molecular Plant, 2013, 6, 242-245.	3.9	220
36	MAP KINASE PHOSPHATASE1 and PROTEIN TYROSINE PHOSPHATASE1 Are Repressors of Salicylic Acid Synthesis and SNC1-Mediated Responses in <i>Arabidopsis</i> Â Â. Plant Cell, 2009, 21, 2884-2897.	3.1	216

#	Article	IF	Citations
37	New insights into an old story: Agrobacterium-induced tumour formation in plants by plant transformation. EMBO Journal, 2010, 29, 1021-1032.	3.5	216
38	Auxin efflux by PIN-FORMED proteins is activated by two different protein kinases, D6 PROTEIN KINASE and PINOID. ELife, 2014, 3, .	2.8	205
39	Complementation of a yeast cell cycle mutant by an alfalfa cDNA encoding a protein kinase homologous to p34cdc2.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1636-1640.	3.3	202
40	Mitogen-Activated Protein Kinases and Reactive Oxygen Species Signaling in Plants. Plant Physiology, 2006, 141, 351-356.	2.3	199
41	Plant Immunity: From Signaling to Epigenetic Control of Defense. Trends in Plant Science, 2018, 23, 833-844.	4.3	198
42	Rhizobium nod factors reactivate the cell cycle during infection and nodule primordium formation, but the cycle is only completed in primordium formation.. Plant Cell, 1994, 6, 1415-1426.	3.1	195
43	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. Zoology, 2018, 127, 1-19.	0.6	194
44	Wounding Induces the Rapid and Transient Activation of a Specific MAP Kinase Pathway.. Plant Cell, 1997, 9, 75-83.	3.1	193
45	SIMKK, a Mitogen-Activated Protein Kinase (MAPK) Kinase, Is a Specific Activator of the Salt Stressâ€“Induced MAPK, SIMK. Plant Cell, 2000, 12, 2247-2258.	3.1	187
46	Identification and characterization of an <scp>ABA</scp>â€activated <scp>MAP</scp> kinase cascade in <i>Arabidopsis thaliana</i>. Plant Journal, 2015, 82, 232-244.	2.8	187
47	The MAP Kinase MPK4 Is Required for Cytokinesis in<i>Arabidopsis thaliana</i>Â. Plant Cell, 2010, 22, 3778-3790.	3.1	185
48	Distinct osmo-sensing protein kinase pathways are involved in signalling moderate and severe hyper-osmotic stress. Plant Journal, 1999, 20, 381-388.	2.8	179
49	Plant Growth Promoting Rhizobacteria and Silicon Synergistically Enhance Salinity Tolerance of Mung Bean. Frontiers in Plant Science, 2016, 7, 876.	1.7	178
50	A MAP Kinase Is Activated Late in Plant Mitosis and Becomes Localized to the Plane of Cell Division. Plant Cell, 1999, 11, 101-113.	3.1	175
51	MP2C, a plant protein phosphatase 2C, functions as a negative regulator of mitogen-activated protein kinase pathways in yeast and plants. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 1938-1943.	3.3	170
52	Nuclear Signaling of Plant MAPKs. Frontiers in Plant Science, 2018, 9, 469.	1.7	168
53	Constitutively Active Mitogen-Activated Protein Kinase Versions Reveal Functions of <i>Arabidopsis</i> MPK4 in Pathogen Defense Signaling. Plant Cell, 2012, 24, 4281-4293.	3.1	163
54	Involvement of the mitogen-activated protein kinase SIMK in regulation of root hair tip growth. EMBO Journal, 2002, 21, 3296-3306.	3.5	152

#	Article	IF	Citations
55	Brassinosteroid-regulated GSK3/Shaggy-like Kinases Phosphorylate Mitogen-activated Protein (MAP) Kinase Kinases, Which Control Stomata Development in Arabidopsis thaliana. Journal of Biological Chemistry, 2013, 288, 7519-7527.	1.6	152
56	Stress-induced Protein Phosphatase 2C Is a Negative Regulator of a Mitogen-activated Protein Kinase. Journal of Biological Chemistry, 2003, 278, 18945-18952.	1.6	147
57	Differential Activation of Four Specific MAPK Pathways by Distinct Elicitors. Journal of Biological Chemistry, 2000, 275, 36734-36740.	1.6	142
58	Transgenerational Stress Memory Is Not a General Response in Arabidopsis. PLoS ONE, 2009, 4, e5202.	1.1	142
59	The Dark Side of the Salad: Salmonella typhimurium Overcomes the Innate Immune Response of Arabidopsis thaliana and Shows an Endopathogenic Lifestyle. PLoS ONE, 2008, 3, e2279.	1.1	142
60	OMTK1, a Novel MAPKKK, Channels Oxidative Stress Signaling through Direct MAPK Interaction. Journal of Biological Chemistry, 2004, 279, 26959-26966.	1.6	141
61	Site-Specific Phosphorylation Profiling of <i>Arabidopsis</i> Proteins by Mass Spectrometry and Peptide Chip Analysis. Journal of Proteome Research, 2008, 7, 2458-2470.	1.8	139
62	The Human Growth Hormone Gene Locus: Structure, Evolution, and Allelic Variations. DNA and Cell Biology, 1987, 6, 59-70.	5.1	138
63	Functional analysis of Arabidopsis immune-related MAPKs uncovers a role for MPK3 as negative regulator of inducible defences. Genome Biology, 2014, 15, R87.	13.9	137
64	Phosphatidic acid activates a wound-activated MAPK in Glycine max. Plant Journal, 2001, 26, 479-486.	2.8	135
65	Alfalfa heat shock genes are differentially expressed during somatic embryogenesis. Plant Molecular Biology, 1991, 16, 999-1007.	2.0	133
66	Alfalfa cyclins: differential expression during the cell cycle and in plant organs.. Plant Cell, 1992, 4, 1531-1538.	3.1	133
67	The D-type alfalfa cyclin gene cycMs4 complements G1 cyclin-deficient yeast and is induced in the G1 phase of the cell cycle.. Plant Cell, 1995, 7, 1847-1857.	3.1	131
68	VIP1 response elements mediate mitogen-activated protein kinase 3-induced stress gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18414-18419.	3.3	128
69	The OXI1 Kinase Pathway Mediates Piriformospora indica-Induced Growth Promotion in Arabidopsis. PLoS Pathogens, 2011, 7, e1002051.	2.1	126
70	Phosphoproteomics reveals extensive in vivo phosphorylation of Arabidopsis proteins involved in RNA metabolism. Nucleic Acids Research, 2006, 34, 3267-3278.	6.5	124
71	Improvement of stress tolerance in plants by genetic manipulation of mitogen-activated protein kinases. Biotechnology Advances, 2013, 31, 118-128.	6.0	124
72	Disentangling the Complexity of Mitogen-Activated Protein Kinases and Reactive Oxygen Species Signaling. Plant Physiology, 2009, 149, 606-615.	2.3	120

#	Article	IF	Citations
73	Tailoring plant-associated microbial inoculants in agriculture: a roadmap for successful application. Journal of Experimental Botany, 2020, 71, 3878-3901.	2.4	118
74	Connecting oxidative stress, auxin, and cell cycle regulation through a plant mitogen-activated protein kinase pathway. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2405-2407.	3.3	117
75	Glycogen synthase kinase 3/SHAGGY-like kinases in plants: an emerging family with novel functions. Trends in Plant Science, 2002, 7, 457-461.	4.3	114
76	Conservation of Salmonella Infection Mechanisms in Plants and Animals. PLoS ONE, 2011, 6, e24112.	1.1	114
77	The plant homologue of MAP kinase is expressed in a cell cycle-dependent and organ-specific manner. Plant Journal, 1993, 3, 611-617.	2.8	111
78	The MAP Kinase Kinase MKK2 Affects Disease Resistance in Arabidopsis. Molecular Plant-Microbe Interactions, 2007, 20, 589-596.	1.4	108
79	Modify the Histone to Win the Battle: Chromatin Dynamics in Plantâ€“Pathogen Interactions. Frontiers in Plant Science, 2018, 9, 355.	1.7	106
80	Regulation of the heat stress response in<i>Arabidopsis</i>by MPK6-targeted phosphorylation of the heat stress factor HsfA2. PeerJ, 2013, 1, e59.	0.9	106
81	Mechanosensors in plants. Nature, 1996, 383, 489-490.	13.7	105
82	Wheat chromatin architecture is organized in genome territories and transcription factories. Genome Biology, 2020, 21, 104.	3.8	99
83	Piriformospora indica alters Na+/K+ homeostasis, antioxidant enzymes and LeNHX1 expression of greenhouse tomato grown under salt stress. Scientia Horticulturae, 2019, 256, 108532.	1.7	97
84	LHP1 Regulates H3K27me3 Spreading and Shapes the Three-Dimensional Conformation of the Arabidopsis Genome. PLoS ONE, 2016, 11, e0158936.	1.1	97
85	Ethylene induced plant stress tolerance by Enterobacter sp. SA187 is mediated by 2â€ketoâ€4â€methylthiobutyric acid production. PLoS Genetics, 2018, 14, e1007273.	1.5	95
86	Plants as alternative hosts for Salmonella. Trends in Plant Science, 2012, 17, 245-249.	4.3	92
87	Plant MAP kinase pathways: how many and what for?. Biology of the Cell, 2001, 93, 81-87.	0.7	87
88	Protein tyrosine phosphorylation in plants: more abundant than expected?. Trends in Plant Science, 2009, 14, 71-76.	4.3	87
89	Desert Microbes for Boosting Sustainable Agriculture in Extreme Environments. Frontiers in Microbiology, 2020, 11, 1666.	1.5	87
90	From signal to cell polarity: mitogen-activated protein kinases as sensors and effectors of cytoskeleton dynamicity. Journal of Experimental Botany, 2003, 55, 189-198.	2.4	85

#	Article	IF	Citations
91	Complete Genome Sequence Analysis of Enterobacter sp. SA187, a Plant Multi-Stress Tolerance Promoting Endophytic Bacterium. Frontiers in Microbiology, 2017, 8, 2023.	1.5	83
92	The BAF60 Subunit of the SWI/SNF Chromatin-Remodeling Complex Directly Controls the Formation of a Gene Loop at <i>FLOWERING LOCUS C</i> in <i>Arabidopsis</i> Â. Plant Cell, 2014, 26, 538-551.	3.1	82
93	Convergence and divergence of stress-induced mitogen-activated protein kinase signaling pathways at the level of two distinct mitogen-activated protein kinase kinases. Plant Cell, 2002, 14, 703-11.	3.1	82
94	Quantitative Phosphoproteomic Analysis Reveals Shared and Specific Targets of Arabidopsis Mitogen-Activated Protein Kinases (MAPKs) MPK3, MPK4, and MPK6. Molecular and Cellular Proteomics, 2018, 17, 61-80.	2.5	80
95	MAP kinases: universal multi-purpose signaling tools. Plant Molecular Biology, 1994, 24, 407-416.	2.0	77
96	An alfalfa cDNA encodes a protein with homology to translationally controlled human tumor protein. Plant Molecular Biology, 1992, 19, 501-503.	2.0	76
97	Desert plant bacteria reveal host influence and beneficial plant growth properties. PLoS ONE, 2018, 13, e0208223.	1.1	76
98	Salmonella enterica Flagellin Is Recognized via FLS2 and Activates PAMP-Triggered Immunity in Arabidopsis thaliana. Molecular Plant, 2014, 7, 657-674.	3.9	75
99	Protein networking: insights into global functional organization of proteomes. Proteomics, 2008, 8, 799-816.	1.3	74
100	cdc2MsB, a cognate cdc2 gene from alfalfa, complements the G1/S but not the G2/M transition of budding yeast cdc28 mutants. Plant Journal, 1993, 4, 61-69.	2.8	73
101	MAPK-triggered chromatin reprogramming by histone deacetylase in plant innate immunity. Genome Biology, 2017, 18, 131.	3.8	73
102	Root endophyte induced plant thermotolerance by constitutive chromatin modification at heat stress memory gene loci. EMBO Reports, 2021, 22, e51049.	2.0	71
103	A plastid-localized glycogen synthase kinaseâ€ƒ3 modulates stress tolerance and carbohydrate metabolism. Plant Journal, 2007, 49, 1076-1090.	2.8	70
104	Review: Mitogen-Activated Protein Kinases in nutritional signaling in Arabidopsis. Plant Science, 2017, 260, 101-108.	1.7	70
105	Plant-Specific Histone Deacetylases HDT1/2 Regulate <i>GIBBERELLIN 2-OXIDASE2</i> Expression to Control Arabidopsis Root Meristem Cell Number. Plant Cell, 2017, 29, 2183-2196.	3.1	69
106	Bioprospecting desert plant Bacillus endophytic strains for their potential to enhance plant stress tolerance. Scientific Reports, 2019, 9, 18154.	1.6	69
107	MAP kinase pathways: molecular plug-and-play chips for the cell. , 2000, 42, 791-806.		67
108	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin.. Plant Cell, 1996, 8, 417-428.	3.1	64

#	Article	IF	Citations
109	Using phosphoproteomics to reveal signalling dynamics in plants. Trends in Plant Science, 2007, 12, 404-411.	4.3	63
110	MMK2, a novel alfalfa MAP kinase, specifically complements the yeast MPK1 function. Molecular Genetics and Genomics, 1995, 248, 686-694.	2.4	61
111	The cdc2Ms Kinase Is Differently Regulated in the Cytoplasm and in the Nucleus. Plant Physiology, 1997, 113, 841-852.	2.3	61
112	Wounding and Insect Feeding Trigger Two Independent MAPK Pathways with Distinct Regulation and Kinetics. Plant Cell, 2020, 32, 1988-2003.	3.1	61
113	Healthy soils for healthy plants for healthy humans. EMBO Reports, 2020, 21, e51069.	2.0	60
114	Constitutively Active Arabidopsis MAP Kinase 3 Triggers Defense Responses Involving Salicylic Acid and SUMM2 Resistance Protein. Plant Physiology, 2017, 174, 1238-1249.	2.3	57
115	The Arabidopsis SWI/SNF protein BAF60 mediates seedling growth control by modulating DNA accessibility. Genome Biology, 2017, 18, 114.	3.8	53
116	New checkpoints in stomatal defense. Trends in Plant Science, 2013, 18, 295-297.	4.3	52
117	The Polycomb protein <scp>LHP</scp>1 regulates <i>Arabidopsis thaliana</i> stress responses through the repression of the <scp>MYC</scp>2â€dependent branch of immunity. Plant Journal, 2019, 100, 1118-1131.	2.8	52
118	Towards functional phosphoproteomics by mapping differential phosphorylation events in signaling networks. Proteomics, 2008, 8, 4453-4465.	1.3	51
119	A MAP kinase is activated late in plant mitosis and becomes localized to the plane of cell division. Plant Cell, 1999, 11, 101-13.	3.1	51
120	The <i>Arabidopsis</i> protein kinase Ptoâ€interacting 1â€4 is a common target of the oxidative signalâ€inducible 1 and mitogenâ€activated protein kinases. FEBS Journal, 2011, 278, 1126-1136.	2.2	50
121	The role of the kinase <scp>OXI1</scp> in cadmiumâ€and copperâ€induced molecular responses in <i><scp>A</scp>rabidopsis thaliana</i>. Plant, Cell and Environment, 2013, 36, 1228-1238.	2.8	50
122	Phytophthora parasitica Elicitor-Induced Reactions in Cells of Petroselinum Crispum. Plant and Cell Physiology, 2000, 41, 692-701.	1.5	49
123	Wound-Induced Expression and Activation of WIG, a Novel Glycogen Synthase Kinase 3. Plant Cell, 2000, 12, 1467-1475.	3.1	47
124	Stressing the role of MAP kinases in mitogenic stimulation. Plant Molecular Biology, 2000, 43, 705-718.	2.0	46
125	Unsaturated fatty acids inhibit MP2C, a protein phosphatase 2C involved in the wound-induced MAP kinase pathway regulation. Plant Journal, 1999, 20, 343-348.	2.8	45
126	Role of AGC kinases in plant growth and stress responses. Cellular and Molecular Life Sciences, 2012, 69, 3259-3267.	2.4	45

#	Article	IF	Citations
127	Identification of Novel PAMP-Triggered Phosphorylation and Dephosphorylation Events in <i>Arabidopsis thaliana</i> by Quantitative Phosphoproteomic Analysis. Journal of Proteome Research, 2014, 13, 2137-2151.	1.8	44
128	GCN5 modulates salicylic acid homeostasis by regulating H3K14ac levels at the 5â€² and 3â€² ends of its target genes. Nucleic Acids Research, 2020, 48, 5953-5966.	6.5	44
129	Beat the heat: plant- and microbe-mediated strategies for crop thermotolerance. Trends in Plant Science, 2022, 27, 802-813.	4.3	43
130	Activation of members of a MAPK module in Î²-glucan elicitor-mediated non-host resistance of soybean. Planta, 2007, 225, 1559-1571.	1.6	41
131	The Trihelix transcription factor GT2-like 1 (GTL1) promotes salicylic acid metabolism, and regulates bacterial-triggered immunity. PLoS Genetics, 2018, 14, e1007708.	1.5	41
132	Coordinated bacterial and plant sulfur metabolism in <i>Enterobacter</i> sp. SA187â€“induced plant salt stress tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
133	Genome Insights of the Plant-Growth Promoting Bacterium Cronobacter muytjensii JZ38 With Volatile-Mediated Antagonistic Activity Against Phytophthora infestans. Frontiers in Microbiology, 2020, 11, 369.	1.5	39
134	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. PLoS Pathogens, 2020, 16, e1008401.	2.1	38
135	The function of the hypusine-containing proteins of yeast and other eukaryotes is well conserved. Molecular Genetics and Genomics, 1994, 244, 646-652.	2.4	37
136	cycMs3, a Novel B-Type Alfalfa Cyclin Gene, Is Induced in the G 0 -to-G 1 Transition of the Cell Cycle. Plant Cell, 1995, 7, 759.	3.1	37
137	Phosphoproteomics as a tool to unravel plant regulatory mechanisms. Physiologia Plantarum, 2006, 126, 110-119.	2.6	37
138	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. Journal of Experimental Botany, 2014, 65, 2335-2350.	2.4	37
139	Polycomb-dependent differential chromatin compartmentalization determines gene coregulation in <i>Arabidopsis</i>. Genome Research, 2021, 31, 1230-1244.	2.4	36
140	Cadmium-enhanced gene expression in suspension-culture cells of tobacco. Planta, 1989, 179, 414-420.	1.6	35
141	Dual function of MIPS1 as a metabolic enzyme and transcriptional regulator. Nucleic Acids Research, 2013, 41, 2907-2917.	6.5	35
142	Convergence of Multiple MAP3Ks on MKK3 Identifies a Set of Novel Stress MAPK Modules. Frontiers in Plant Science, 2016, 07, 1941.	1.7	35
143	Boosting Alfalfa (Medicago sativa L.) Production With Rhizobacteria From Various Plants in Saudi Arabia. Frontiers in Microbiology, 2018, 9, 477.	1.5	35
144	Evolutionary conservation of transcriptional machinery between yeast and plants as shown by the efficient expression from the CaMV 35S promoter and 35S terminator. Current Genetics, 1990, 17, 473-479.	0.8	34

#	Article	IF	Citations
145	TheMsKfamily of alfalfa protein kinase genes encodes homologues ofshaggy/glycogen synthase kinase-3and shows differential expression patterns in plant organs and development. Plant Journal, 1993, 3, 847-856.	2.8	34
146	Phylogenetically diverse endophytic bacteria from desert plants induce transcriptional changes of tissue-specific ion transporters and salinity stress in Arabidopsis thaliana. Plant Science, 2019, 280, 228-240.	1.7	33
147	Salmonella enterica induces and subverts the plant immune system. Frontiers in Microbiology, 2014, 5, 141.	1.5	31
148	Plant Immunity: The MTI-ETI Model and Beyond. Current Issues in Molecular Biology, 2019, 30, 39-58.	1.0	31
149	OXI1 and DAD Regulate Light-Induced Cell Death Antagonistically through Jasmonate and Salicylate Levels. Plant Physiology, 2019, 180, 1691-1708.	2.3	30
150	Tyrosine phosphatase signalling in a lower plant: cell-cycle and oxidative stress-regulated expression of the Chlamydomonas eugametos VH-PTP13 gene. Plant Journal, 1995, 7, 981-988.	2.8	27
151	The Salmonella effector protein SpvC, a phosphothreonine lyase is functional in plant cells. Frontiers in Microbiology, 2014, 5, 548.	1.5	27
152	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin. Plant Cell, 1996, 8, 417-28.	3.1	27
153	Evidence for the activation of a MAP kinase upon phosphate-induced cell cycle re-entry in tobacco cells. Physiologia Plantarum, 1998, 102, 532-538.	2.6	26
154	Phosphorylationâ€dependent regulation of plant chromatin and chromatinâ€associated proteins. Proteomics, 2014, 14, 2127-2140.	1.3	26
155	The Lamin-Like LITTLE NUCLEI 1 (LINC1) Regulates Pattern-Triggered Immunity and Jasmonic Acid Signaling. Frontiers in Plant Science, 2019, 10, 1639.	1.7	26
156	A SWI/SNF Chromatin Remodelling Protein Controls Cytokinin Production through the Regulation of Chromatin Architecture. PLoS ONE, 2015, 10, e0138276.	1.1	25
157	Chromatin phosphoproteomics unravels a function for AT-hook motif nuclear localized protein AHL13 in PAMP-triggered immunity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
158	Inflorescence-specific expression of AtK-1, a novel Arabidopsis thaliana homologue of shaggy/glycogen synthase kinase-3. Plant Molecular Biology, 1995, 27, 217-221.	2.0	24
159	Possible involvement of MAP kinase pathways in acquired metal-tolerance induced by heat in plants. Planta, 2008, 228, 499-509.	1.6	24
160	AGC kinases in plant development and defense. Plant Signaling and Behavior, 2011, 6, 1030-1033.	1.2	24
161	Differential distribution of microtubule-associated proteins MAP-1 and MAP-2 in neurons of rat brain and association of MAP-1 with microtubules of neuroblastoma cells (clone N2A). EMBO Journal, 1983, 2, 1915-20.	3.5	24
162	Isolation and characterization of a phosphoprotein phosphatase type 2A gene from alfalfa. Molecular Genetics and Genomics, 1993, 240, 126-131.	2.4	23

#	Article	IF	Citations
163	Involvement of mitogen-activated protein kinases in the symbiosis Bradyrhizobium-Lupinus. Journal of Experimental Botany, 2006, 57, 2735-2742.	2.4	23
164	Isolation and characterization of plant protein complexes by mass spectrometry. Proteomics, 2011, 11, 1824-1833.	1.3	23
165	Linking the proteinsâ€"Elucidation of proteomeâ€scale networks using mass spectrometry. Mass Spectrometry Reviews, 2011, 30, 268-297.	2.8	23
166	Plant MAPK cascades: Just rapid signaling modules?. Plant Signaling and Behavior, 2015, 10, e1062197.	1.2	23
167	MAP 4K4 associates with BIK 1 to regulate plant innate immunity. EMBO Reports, 2019, 20, e47965.	2.0	22
168	Nanofabrication of Isoporous Membranes for Cell Fractionation. Scientific Reports, 2020, 10, 6138.	1.6	22
169	Isolation and sequence determination of the plant homologue of the eukaryotic initiation factor 4D cDNA from alfalfa, Medicago sativa. Plant Molecular Biology, 1991, 17, 927-929.	2.0	21
170	Transcriptional upregulation of signaling pathways: more complex than anticipated?. Trends in Plant Science, 1999, 4, 7-8.	4.3	20
171	Plant-Microbe Interactions and Water Management in Arid and Saline Soils. , 2015, , 265-276.		20
172	In and out of the plant cell cycle. Plant Molecular Biology, 1996, 31, 459-464.	2.0	19
173	The cDNA Sequence Encoding an Annexin from Medicago sativa. Plant Physiology, 1994, 104, 1463-1464.	2.3	18
174	Cell cycle regulation in higher plants. Seminars in Developmental Biology, 1994, 5, 147-154.	1.3	18
175	Proteomic and phosphoproteomic analyses of chromatinâ€associated proteins from <i>Arabidopsis thaliana</i>. Proteomics, 2014, 14, 2141-2155.	1.3	18
176	ROS homeostasis mediated by MPK4 and SUMM2 determines synergid cell death. Nature Communications, 2022, 13, 1746.	5.8	18
177	Salt stress induces changes in amounts and localization of the mitogen-activated protein kinase SIMK in alfalfa roots. Protoplasma, 2000, 212, 262-267.	1.0	17
178	Bioinformatic and Systems Biology Tools to Generate Testable Models of Signaling Pathways and Their Targets. Plant Physiology, 2010, 152, 460-469.	2.3	17
179	Draft Genome Sequence of the Plant Growth-Promoting <i>Cupriavidus gilardii</i> Strain JZ4 Isolated from the Desert Plant <i>Tribulus terrestris</i>. Genome Announcements, 2016, 4, .	0.8	17
180	In silico exploration of Red Sea Bacillus genomes for natural product biosynthetic gene clusters. BMC Genomics, 2018, 19, 382.	1.2	17

#	Article	IF	Citations
181	INDETERMINATE-DOMAIN 4 (IDD4) coordinates immune responses with plant-growth in Arabidopsis thaliana. PLoS Pathogens, 2019, 15, e1007499.	2.1	17
182	A Chimeric IDD4 Repressor Constitutively Induces Immunity in Arabidopsis via the Modulation of Salicylic Acid and Jasmonic Acid Homeostasis. Plant and Cell Physiology, 2019, 60, 1536-1555.	1.5	17
183	The plant transcription factor TGA1 stimulates expression of the CaMV 35S promoter in Saccharomyces cerevisiae. Plant Molecular Biology, 1994, 25, 323-328.	2.0	16
184	The SAM kinase pathway: An integrated circuit for stress signaling in plants. Journal of Plant Research, 1998, 111, 339-344.	1.2	16
185	Automated Phosphopeptide Identification Using Multiple MS/MS Fragmentation Modes. Journal of Proteome Research, 2012, 11, 5695-5703.	1.8	16
186	The <i>Arabidopsis</i> homolog of human G3BP1 is a key regulator of stomatal and apoplastic immunity. Life Science Alliance, 2018, 1, e201800046.	1.3	16
187	The cauliflower mosaic virus 35S promoter is regulated by cAMP in Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1992, 235, 365-372.	2.4	15
188	Aquaporins Link ROS Signaling to Plant Immunity. Plant Physiology, 2016, 171, 1540-1540.	2.3	15
189	Complete Genome Sequence of Paenibacillus sp. JZ16, a Plant Growth Promoting Root Endophytic Bacterium of the Desert Halophyte Zygophyllum Simplex. Current Microbiology, 2020, 77, 1097-1103.	1.0	15
190	Constitutive activity of the Arabidopsis MAP Kinase 3 confers resistance to Pseudomonas syringae and drives robust immune responses. Plant Signaling and Behavior, 2017, 12, e1356533.	1.2	14
191	Draft Genome Sequence of Halomonas elongata Strain K4, an Endophytic Growth-Promoting Bacterium Enhancing Salinity Tolerance <i>In Planta</i>. Genome Announcements, 2016, 4, .	0.8	13
192	The Seed Development Factors TT2 and MYB5 Regulate Heat Stress Response in Arabidopsis. Genes, 2021, 12, 746.	1.0	13
193	A novel method for in situ screening of yeast colonies with the ?-glucuronidase reporter gene. Current Genetics, 1991, 20, 437-439.	0.8	12
194	Isolation and characterization of phosphoprotein phosphatase 1 from alfalfa. Molecular Genetics and Genomics, 1994, 244, 176-182.	2.4	12
195	Challenges Faced in Field Application of Phosphate-Solubilizing Bacteria. , 2017, , 125-143.		12
196	Draft Genome Sequence of Plant Growthâ€“Promoting Micrococcus luteus Strain K39 Isolated from <i>Cyperus conglomeratus</i> in Saudi Arabia. Genome Announcements, 2017, 5, .	0.8	11
197	A new blueprint for plant pathogen resistance. Nature Biotechnology, 2002, 20, 450-451.	9.4	10
198	Multiple strategies of plant colonization by beneficial endophytic <scp><i>Enterobacter</i></scp> sp. <scp>SA187</scp>. Environmental Microbiology, 2021, 23, 6223-6240.	1.8	10

#	Article	IF	Citations
199	Involvement of MAP kinase SIMK and actin cytoskeleton in the regulation of root hair tip growth. Cell Biology International, 2003, 27, 257-259.	1.4	9
200	Draft Genome Sequence of the Phosphate-Solubilizing Bacterium Pseudomonas argentinensis Strain SA190 Isolated from the Desert Plant <i>Indigofera argentea</i>. Genome Announcements, 2016, 4, .	0.8	9
201	Draft Genome Sequence of the Plant Growthâ€“Promoting Pseudomonas punonensis Strain D1-6 Isolated from the Desert Plant <i>Erodium hirtum</i> in Jordan. Genome Announcements, 2017, 5, .	0.8	9
202	Effects of Cadmium on Tobacco: Synthesis and Regulation of Cadmium-binding Peptides. Biochemie Und Physiologie Der Pflanzen, 1990, 186, 153-163.	0.5	8
203	An alfalfa cDNA encodes a protein with similarity to human snRNP-E. Nucleic Acids Research, 1992, 20, 613-613.	6.5	8
204	Vicia faba germination: Synchronized cell growth and localization of nucleolin and Î±-tubulin.. Seed Science Research, 1999, 9, 297-304.	0.8	8
205	Complete genome sequence of the endophytic bacterium Cellulosimicrobium sp. JZ28 isolated from the root endosphere of the perennial desert tussock grass Panicum turgidum. Archives of Microbiology, 2020, 202, 1563-1569.	1.0	8
206	Stomatal regulation: Role of H2S-induced persulfidation in ABA signaling. Molecular Plant, 2021, 14, 858-860.	3.9	8
207	Constitutively active MPK4 helps to clarify its role in plant immunity. Plant Signaling and Behavior, 2013, 8, e22991.	1.2	7
208	Phosphorylation regulates the activity of INDETERMINATE-DOMAIN (IDD/BIRD) proteins in response to diverse environmental conditions. Plant Signaling and Behavior, 2019, 14, e1642037.	1.2	7
209	Mining biosynthetic gene clusters in Virgibacillus genomes. BMC Genomics, 2019, 20, 696.	1.2	7
210	CATION-CHLORIDE CO-TRANSPORTER 1 (CCC1) Mediates Plant Resistance against <i>Pseudomonas syringae</i>. Plant Physiology, 2020, 182, 1052-1065.	2.3	7
211	A cDNA from Medicago sativa Encodes a Protein Homologous to Small GTP-Binding Proteins. Plant Physiology, 1995, 107, 263-264.	2.3	6
212	Mechanism of MAPK-targeted gene expression unraveled in plants. Cell Cycle, 2010, 9, 18-19.	1.3	6
213	Comparative genomics study reveals Red Sea Bacillus with characteristics associated with potential microbial cell factories (MCFs). Scientific Reports, 2019, 9, 19254.	1.6	6
214	G3BPs in Plant Stress. Frontiers in Plant Science, 2021, 12, 680710.	1.7	6
215	In vivo identification of putative CPK5 substrates in Arabidopsis thaliana. Plant Science, 2022, 314, 111121.	1.7	6
216	Analysis of the Arabidopsis<i>coilin</i>mutant reveals a positive role of AtCOILIN in plant immunity. Plant Physiology, 2022, 190, 745-761.	2.3	6

#	Article	IF	Citations
217	Interview with Heribert Hirt. Trends in Plant Science, 2016, 21, 1-2.	4.3	5
218	Draft Genome Sequence of the Plant Growthâ€"Promoting Rhizobacterium Acinetobacter radioresistens Strain SA188 Isolated from the Desert Plant Indigofera argentea. Genome Announcements, 2017, 5, .	0.8	5
219	Draft Genome Sequence of Ochrobactrum intermedium Strain SA148, a Plant Growth-Promoting Desert Rhizobacterium. Genome Announcements, 2017, 5, .	0.8	5
220	Draft Genome Sequence of <i>Enterobacter</i> sp. Sa187, an Endophytic Bacterium Isolated from the Desert Plant <i>Indigofera argentea</i>. Genome Announcements, 2017, 5, .	0.8	5
221	Complete Genome Sequence of Cellulomonas sp. JZ18, a Root Endophytic Bacterium Isolated from the Perennial Desert Tussock-Grass Panicum turgidum. Current Microbiology, 2021, 78, 1135-1141.	1.0	4
222	Bacterial Rhizosphere Biodiversity from Several Pioneer Desert Sand Plants Near Jizan, Saudi Arabia. The Open Conference Proceedings Journal, 2016, 7, 70-79.	0.6	4
223	The Lysâ€motif receptor <scp><i>LYK4</i></scp> mediates <i>Enterobacter</i> sp. <scp>SA187</scp> triggered salt tolerance in <i>Arabidopsis thaliana</i>. Environmental Microbiology, 2022, 24, 223-239.	1.8	4
224	Protein Complexes Characterization in Arabidopsis thaliana by Tandem Affinity Purification Coupled to Mass Spectrometry Analysis. Methods in Molecular Biology, 2014, 1171, 237-250.	0.4	3
225	Quantification of Root Colonizing Bacteria. Bio-protocol, 2018, 8, .	0.2	3
226	Development, validation, and application of an HPLC-MS/MS method for quantification of oxidized fatty acids in plants. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1186, 123006.	1.2	2
227	Alfalfa Cyclins: Differential Expression during the Cell Cycle and in Plant Organs. Plant Cell, 1993, 5, 715-715.	3.1	1
228	Protein Phosphorylation and Cellular Information Transfer: Signaling by MAP Kinase Cascades. Monatshefte FÃ¼r Chemie, 2003, 134, 1481-1487.	0.9	0
229	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. , 2020, 16, e1008401.		0
230	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. , 2020, 16, e1008401.		0
231	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. , 2020, 16, e1008401.		0
232	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. , 2020, 16, e1008401.		0
233	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. , 2020, 16, e1008401.		0