

Heribert Hirt

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231
papers

28,395
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78
h-index

167
g-index

240
ext. papers

32,715
ext. citations

8.7
avg, IF

7.37
L-index

#	Paper	IF	Citations
231	Reactive oxygen species: metabolism, oxidative stress, and signal transduction. <i>Annual Review of Plant Biology</i> , 2004 , 55, 373-99	30.7	7573
230	Mitogen-activated protein kinase cascades in plants: a new nomenclature. <i>Trends in Plant Science</i> , 2002 , 7, 301-8	13.1	891
229	The MKK2 pathway mediates cold and salt stress signaling in Arabidopsis. <i>Molecular Cell</i> , 2004 , 15, 141-52	27.6	713
228	Complexity, cross talk and integration of plant MAP kinase signalling. <i>Current Opinion in Plant Biology</i> , 2002 , 5, 415-24	9.9	537
227	Emerging MAP kinase pathways in plant stress signalling. <i>Trends in Plant Science</i> , 2005 , 10, 339-46	13.1	535
226	Arabidopsis MAPKs: a complex signalling network involved in multiple biological processes. <i>Biochemical Journal</i> , 2008 , 413, 217-26	3.8	534
225	MAPK cascade signalling networks in plant defence. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 421-6	9.9	515
224	Plant PP2C phosphatases: emerging functions in stress signaling. <i>Trends in Plant Science</i> , 2004 , 9, 236-43	13.1	497
223	OXI1 kinase is necessary for oxidative burst-mediated signalling in Arabidopsis. <i>Nature</i> , 2004 , 427, 858-63	30.4	482
222	Signaling mechanisms in pattern-triggered immunity (PTI). <i>Molecular Plant</i> , 2015 , 8, 521-39	14.4	450
221	Stress signaling in plants: a mitogen-activated protein kinase pathway is activated by cold and drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 11274-9	11.5	433
220	Rapid Avr9- and Cf-9 -dependent activation of MAP kinases in tobacco cell cultures and leaves: convergence of resistance gene, elicitor, wound, and salicylate responses. <i>Plant Cell</i> , 1999 , 11, 273-87	11.6	423
219	The MAP kinase substrate MKS1 is a regulator of plant defense responses. <i>EMBO Journal</i> , 2005 , 24, 2579-89	13.9	388
218	Receptor-mediated activation of a MAP kinase in pathogen defense of plants. <i>Science</i> , 1997 , 276, 2054-7	33.3	341
217	The role of ABA and MAPK signaling pathways in plant abiotic stress responses. <i>Biotechnology Advances</i> , 2014 , 32, 40-52	17.8	339
216	Heavy metal stress. Activation of distinct mitogen-activated protein kinase pathways by copper and cadmium. <i>Plant Physiology</i> , 2004 , 136, 3276-83	6.6	328
215	The membrane-anchored BOTRYTIS-INDUCED KINASE1 plays distinct roles in Arabidopsis resistance to necrotrophic and biotrophic pathogens. <i>Plant Cell</i> , 2006 , 18, 257-73	11.6	315

214	The BRI1-associated kinase 1, BAK1, has a brassinolide-independent role in plant cell-death control. <i>Current Biology</i> , 2007 , 17, 1116-22	6.3	308
213	The heat-shock protein/chaperone network and multiple stress resistance. <i>Plant Biotechnology Journal</i> , 2017 , 15, 405-414	11.6	285
212	A Mitogen-activated protein kinase kinase kinase mediates reactive oxygen species homeostasis in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38697-704	5.4	282
211	Opposite changes in membrane fluidity mimic cold and heat stress activation of distinct plant MAP kinase pathways. <i>Plant Journal</i> , 2002 , 31, 629-38	6.9	263
210	Multiple roles of MAP kinases in plant signal transduction. <i>Trends in Plant Science</i> , 1997 , 2, 11-15	13.1	248
209	Microbial elicitors induce activation and dual phosphorylation of the Arabidopsis thaliana MAPK 6. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7521-6	5.4	248
208	Reactive oxygen species signaling in plants. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1757-64	8.4	242
207	The PP2C-type phosphatase AP2C1, which negatively regulates MPK4 and MPK6, modulates innate immunity, jasmonic acid, and ethylene levels in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 2213-24	11.6	238
206	A MAPK pathway mediates ethylene signaling in plants. <i>EMBO Journal</i> , 2003 , 22, 1282-8	13	232
205	The Role of MAPK Modules and ABA during Abiotic Stress Signaling. <i>Trends in Plant Science</i> , 2016 , 21, 677-685	13.1	214
204	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. <i>Plant Molecular Biology</i> , 1996 , 32, 1003-18	4.6	213
203	Trojan horse strategy in Agrobacterium transformation: abusing MAPK defense signaling. <i>Science</i> , 2007 , 318, 453-6	33.3	211
202	Hyperosmotic stress stimulates phospholipase D activity and elevates the levels of phosphatidic acid and diacylglycerol pyrophosphate. <i>Plant Journal</i> , 2000 , 22, 147-54	6.9	208
201	A major role of the MEKK1-MKK1/2-MPK4 pathway in ROS signalling. <i>Molecular Plant</i> , 2009 , 2, 120-37	14.4	194
200	New insights into an old story: Agrobacterium-induced tumour formation in plants by plant transformation. <i>EMBO Journal</i> , 2010 , 29, 1021-32	13	193
199	An abscisic acid-independent oxylipin pathway controls stomatal closure and immune defense in Arabidopsis. <i>PLoS Biology</i> , 2013 , 11, e1001513	9.7	189
198	The Arabidopsis mitogen-activated protein kinase kinase MKK3 is upstream of group C mitogen-activated protein kinases and participates in pathogen signaling. <i>Plant Cell</i> , 2007 , 19, 3266-79	11.6	189
197	Complementation of a yeast cell cycle mutant by an alfalfa cDNA encoding a protein kinase homologous to p34cdc2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 1636-40	11.5	186

196	Mitogen-activated protein kinases and reactive oxygen species signaling in plants. <i>Plant Physiology</i> , 2006 , 141, 351-6	6.6	181
195	Rhizobium nod factors reactivate the cell cycle during infection and nodule primordium formation, but the cycle is only completed in primordium formation. <i>Plant Cell</i> , 1994 , 6, 1415-26	11.6	178
194	SIMKK, a mitogen-activated protein kinase (MAPK) kinase, is a specific activator of the salt stress-induced MAPK, SIMK. <i>Plant Cell</i> , 2000 , 12, 2247-58	11.6	174
193	Wounding Induces the Rapid and Transient Activation of a Specific MAP Kinase Pathway. <i>Plant Cell</i> , 1997 , 9, 75-83	11.6	171
192	MAP kinase phosphatase1 and protein tyrosine phosphatase1 are repressors of salicylic acid synthesis and SNC1-mediated responses in Arabidopsis. <i>Plant Cell</i> , 2009 , 21, 2884-97	11.6	170
191	Distinct osmo-sensing protein kinase pathways are involved in signalling moderate and severe hyper-osmotic stress. <i>Plant Journal</i> , 1999 , 20, 381-8	6.9	169
190	A MAP Kinase Is Activated Late in Plant Mitosis and Becomes Localized to the Plane of Cell Division. <i>Plant Cell</i> , 1999 , 11, 101-113	11.6	163
189	Rhizosphere microbes as essential partners for plant stress tolerance. <i>Molecular Plant</i> , 2013 , 6, 242-5	14.4	162
188	MP2C, a plant protein phosphatase 2C, functions as a negative regulator of mitogen-activated protein kinase pathways in yeast and plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 1938-43	11.5	161
187	Auxin efflux by PIN-FORMED proteins is activated by two different protein kinases, D6 PROTEIN KINASE and PINOID. <i>ELife</i> , 2014 , 3,	8.9	146
186	A high quality Arabidopsis transcriptome for accurate transcript-level analysis of alternative splicing. <i>Nucleic Acids Research</i> , 2017 , 45, 5061-5073	20.1	138
185	The MAP kinase MPK4 is required for cytokinesis in Arabidopsis thaliana. <i>Plant Cell</i> , 2010 , 22, 3778-90	11.6	138
184	Involvement of the mitogen-activated protein kinase SIMK in regulation of root hair tip growth. <i>EMBO Journal</i> , 2002 , 21, 3296-306	13	136
183	Plant Growth Promoting Rhizobacteria and Silicon Synergistically Enhance Salinity Tolerance of Mung Bean. <i>Frontiers in Plant Science</i> , 2016 , 7, 876	6.2	131
182	Stress-induced protein phosphatase 2C is a negative regulator of a mitogen-activated protein kinase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18945-52	5.4	128
181	Alfalfa cyclins: differential expression during the cell cycle and in plant organs. <i>Plant Cell</i> , 1992 , 4, 1531-8	11.6	127
180	OMTK1, a novel MAPKKK, channels oxidative stress signaling through direct MAPK interaction. <i>Journal of Biological Chemistry</i> , 2004 , 279, 26959-66	5.4	125
179	Constitutively active mitogen-activated protein kinase versions reveal functions of Arabidopsis MPK4 in pathogen defense signaling. <i>Plant Cell</i> , 2012 , 24, 4281-93	11.6	124

178	Site-specific phosphorylation profiling of Arabidopsis proteins by mass spectrometry and peptide chip analysis. <i>Journal of Proteome Research</i> , 2008 , 7, 2458-70	5.6	122
177	Alfalfa heat shock genes are differentially expressed during somatic embryogenesis. <i>Plant Molecular Biology</i> , 1991 , 16, 999-1007	4.6	122
176	Brassinosteroid-regulated GSK3/Shaggy-like kinases phosphorylate mitogen-activated protein (MAP) kinase kinases, which control stomata development in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2013 , 288, 7519-7527	5.4	120
175	The human growth hormone gene locus: structure, evolution, and allelic variations. <i>DNA and Cell Biology</i> , 1987 , 6, 59-70		119
174	The D-type alfalfa cyclin gene <i>cycMs4</i> complements G1 cyclin-deficient yeast and is induced in the G1 phase of the cell cycle. <i>Plant Cell</i> , 1995 , 7, 1847-57	11.6	118
173	Transgenerational stress memory is not a general response in Arabidopsis. <i>PLoS ONE</i> , 2009 , 4, e5202	3.7	117
172	Differential activation of four specific MAPK pathways by distinct elicitors. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36734-40	5.4	115
171	Phosphatidic acid activates a wound-activated MAPK in Glycine max. <i>Plant Journal</i> , 2001 , 26, 479-86	6.9	114
170	Plant Immunity: From Signaling to Epigenetic Control of Defense. <i>Trends in Plant Science</i> , 2018 , 23, 833-844	8.4	111
169	The dark side of the salad: Salmonella typhimurium overcomes the innate immune response of Arabidopsis thaliana and shows an endopathogenic lifestyle. <i>PLoS ONE</i> , 2008 , 3, e2279	3.7	110
168	Disentangling the complexity of mitogen-activated protein kinases and reactive oxygen species signaling. <i>Plant Physiology</i> , 2009 , 149, 606-15	6.6	105
167	Phosphoproteomics reveals extensive in vivo phosphorylation of Arabidopsis proteins involved in RNA metabolism. <i>Nucleic Acids Research</i> , 2006 , 34, 3267-78	20.1	104
166	Glycogen synthase kinase 3/SHAGGY-like kinases in plants: an emerging family with novel functions. <i>Trends in Plant Science</i> , 2002 , 7, 457-61	13.1	104
165	Mechanosensors in plants. <i>Nature</i> , 1996 , 383, 489-90	50.4	101
164	Identification and characterization of an ABA-activated MAP kinase cascade in Arabidopsis thaliana. <i>Plant Journal</i> , 2015 , 82, 232-44	6.9	100
163	VIP1 response elements mediate mitogen-activated protein kinase 3-induced stress gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18414-9	11.5	100
162	The OXI1 kinase pathway mediates Piriformospora indica-induced growth promotion in Arabidopsis. <i>PLoS Pathogens</i> , 2011 , 7, e1002051	7.6	98
161	Improvement of stress tolerance in plants by genetic manipulation of mitogen-activated protein kinases. <i>Biotechnology Advances</i> , 2013 , 31, 118-28	17.8	96

160	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. <i>Zoology</i> , 2018 , 127, 1-19	1.7	94
159	Connecting oxidative stress, auxin, and cell cycle regulation through a plant mitogen-activated protein kinase pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2405-7	11.5	93
158	The plant homologue of MAP kinase is expressed in a cell cycle-dependent and organ-specific manner. <i>Plant Journal</i> , 1993 , 3, 611-7	6.9	90
157	The MAP kinase kinase MKK2 affects disease resistance in Arabidopsis. <i>Molecular Plant-Microbe Interactions</i> , 2007 , 20, 589-96	3.6	89
156	Conservation of Salmonella infection mechanisms in plants and animals. <i>PLoS ONE</i> , 2011 , 6, e24112	3.7	86
155	Functional analysis of Arabidopsis immune-related MAPKs uncovers a role for MPK3 as negative regulator of inducible defences. <i>Genome Biology</i> , 2014 , 15, R87	18.3	85
154	Nuclear Signaling of Plant MAPKs. <i>Frontiers in Plant Science</i> , 2018 , 9, 469	6.2	84
153	Protein tyrosine phosphorylation in plants: More abundant than expected?. <i>Trends in Plant Science</i> , 2009 , 14, 71-6	13.1	75
152	Convergence and divergence of stress-induced mitogen-activated protein kinase signaling pathways at the level of two distinct mitogen-activated protein kinase kinases. <i>Plant Cell</i> , 2002 , 14, 703-11	11.6	75
151	An alfalfa cDNA encodes a protein with homology to translationally controlled human tumor protein. <i>Plant Molecular Biology</i> , 1992 , 19, 501-3	4.6	71
150	MAP kinases: universal multi-purpose signaling tools. <i>Plant Molecular Biology</i> , 1994 , 24, 407-16	4.6	68
149	LHP1 Regulates H3K27me3 Spreading and Shapes the Three-Dimensional Conformation of the Arabidopsis Genome. <i>PLoS ONE</i> , 2016 , 11, e0158936	3.7	68
148	Plants as alternative hosts for Salmonella. <i>Trends in Plant Science</i> , 2012 , 17, 245-9	13.1	67
147	From signal to cell polarity: mitogen-activated protein kinases as sensors and effectors of cytoskeleton dynamicity. <i>Journal of Experimental Botany</i> , 2004 , 55, 189-98	7	66
146	Plant MAP kinase pathways: how many and what for?. <i>Biology of the Cell</i> , 2001 , 93, 81-7	3.5	66
145	Regulation of the heat stress response in Arabidopsis by MPK6-targeted phosphorylation of the heat stress factor HsfA2. <i>PeerJ</i> , 2013 , 1, e59	3.1	66
144	The BAF60 subunit of the SWI/SNF chromatin-remodeling complex directly controls the formation of a gene loop at FLOWERING LOCUS C in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 538-51	11.6	64
143	A plastid-localized glycogen synthase kinase 3 modulates stress tolerance and carbohydrate metabolism. <i>Plant Journal</i> , 2007 , 49, 1076-90	6.9	62

142	Protein networking: insights into global functional organization of proteomes. <i>Proteomics</i> , 2008 , 8, 799-816	8.16	62
141	Tailoring plant-associated microbial inoculants in agriculture: a roadmap for successful application. <i>Journal of Experimental Botany</i> , 2020 , 71, 3878-3901	7	61
140	cdc2MsB, a cognate cdc2 gene from alfalfa, complements the G1/S but not the G2/M transition of budding yeast cdc28 mutants. <i>Plant Journal</i> , 1993 , 4, 61-9	6.9	61
139	Using phosphoproteomics to reveal signalling dynamics in plants. <i>Trends in Plant Science</i> , 2007 , 12, 404-113.1	13.1	60
138	MAP kinase pathways: molecular plug-and-play chips for the cell. <i>Plant Molecular Biology</i> , 2000 , 42, 791-806	8.06	58
137	The cdc2Ms Kinase Is Differently Regulated in the Cytoplasm and in the Nucleus. <i>Plant Physiology</i> , 1997 , 113, 841-852	6.6	57
136	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin.. <i>Plant Cell</i> , 1996 , 8, 417-428	11.6	57
135	Modify the Histone to Win the Battle: Chromatin Dynamics in Plant-Pathogen Interactions. <i>Frontiers in Plant Science</i> , 2018 , 9, 355	6.2	52
134	Ethylene induced plant stress tolerance by <i>Enterobacter</i> sp. SA187 is mediated by 2-keto-4-methylthiobutyric acid production. <i>PLoS Genetics</i> , 2018 , 14, e1007273	6	51
133	Quantitative Phosphoproteomic Analysis Reveals Shared and Specific Targets of Mitogen-Activated Protein Kinases (MAPKs) MPK3, MPK4, and MPK6. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 61-80	7.6	51
132	MAPK-triggered chromatin reprogramming by histone deacetylase in plant innate immunity. <i>Genome Biology</i> , 2017 , 18, 131	18.3	50
131	MMK2, a novel alfalfa MAP kinase, specifically complements the yeast MPK1 function. <i>Molecular Genetics and Genomics</i> , 1995 , 248, 686-94		50
130	Towards functional phosphoproteomics by mapping differential phosphorylation events in signaling networks. <i>Proteomics</i> , 2008 , 8, 4453-65	4.8	49
129	A MAP kinase is activated late in plant mitosis and becomes localized to the plane of cell division. <i>Plant Cell</i> , 1999 , 11, 101-13	11.6	48
128	<i>Piriformospora indica</i> alters Na ⁺ /K ⁺ homeostasis, antioxidant enzymes and LeNHX1 expression of greenhouse tomato grown under salt stress. <i>Scientia Horticulturae</i> , 2019 , 256, 108532	4.1	46
127	Desert plant bacteria reveal host influence and beneficial plant growth properties. <i>PLoS ONE</i> , 2018 , 13, e0208223	3.7	46
126	Wound-induced expression and activation of WIG, a novel glycogen synthase kinase 3. <i>Plant Cell</i> , 2000 , 12, 1467-75	11.6	45
125	Wheat chromatin architecture is organized in genome territories and transcription factories. <i>Genome Biology</i> , 2020 , 21, 104	18.3	44

124	New checkpoints in stomatal defense. <i>Trends in Plant Science</i> , 2013 , 18, 295-7	13.1	44
123	Phytophthora parasitica elicitor-induced reactions in cells of Petroselinum crispum. <i>Plant and Cell Physiology</i> , 2000 , 41, 692-701	4.9	43
122	Complete Genome Sequence Analysis of sp. SA187, a Plant Multi-Stress Tolerance Promoting Endophytic Bacterium. <i>Frontiers in Microbiology</i> , 2017 , 8, 2023	5.7	42
121	Salmonella enterica flagellin is recognized via FLS2 and activates PAMP-triggered immunity in Arabidopsis thaliana. <i>Molecular Plant</i> , 2014 , 7, 657-74	14.4	42
120	Short communication: unsaturated fatty acids inhibit MP2C, a protein phosphatase 2C involved in the wound-induced MAP kinase pathway regulation. <i>Plant Journal</i> , 1999 , 20, 343-8	6.9	42
119	The role of the kinase OX11 in cadmium- and copper-induced molecular responses in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2013 , 36, 1228-38	8.4	40
118	Plant-Specific Histone Deacetylases HDT1/2 Regulate Expression to Control Arabidopsis Root Meristem Cell Number. <i>Plant Cell</i> , 2017 , 29, 2183-2196	11.6	38
117	The Arabidopsis protein kinase Pto-interacting 1-4 is a common target of the oxidative signal-inducible 1 and mitogen-activated protein kinases. <i>FEBS Journal</i> , 2011 , 278, 1126-36	5.7	37
116	Stressing the role of MAP kinases in mitogenic stimulation. <i>Plant Molecular Biology</i> , 2000 , 43, 705-18	4.6	37
115	Constitutively Active Arabidopsis MAP Kinase 3 Triggers Defense Responses Involving Salicylic Acid and SUMM2 Resistance Protein. <i>Plant Physiology</i> , 2017 , 174, 1238-1249	6.6	36
114	Phosphoproteomics as a tool to unravel plant regulatory mechanisms. <i>Physiologia Plantarum</i> , 2006 , 126, 110-119	4.6	36
113	The function of the hypusine-containing proteins of yeast and other eukaryotes is well conserved. <i>Molecular Genetics and Genomics</i> , 1994 , 244, 646-52		35
112	Review: Mitogen-Activated Protein Kinases in nutritional signaling in Arabidopsis. <i>Plant Science</i> , 2017 , 260, 101-108	5.3	34
111	Role of AGC kinases in plant growth and stress responses. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 3259-67	10.3	34
110	Cadmium-enhanced gene expression in suspension-culture cells of tobacco. <i>Planta</i> , 1989 , 179, 414-20	4.7	33
109	Identification of novel PAMP-triggered phosphorylation and dephosphorylation events in Arabidopsis thaliana by quantitative phosphoproteomic analysis. <i>Journal of Proteome Research</i> , 2014 , 13, 2137-51	5.6	32
108	The Arabidopsis SWI/SNF protein BAF60 mediates seedling growth control by modulating DNA accessibility. <i>Genome Biology</i> , 2017 , 18, 114	18.3	30
107	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014 , 65, 2335-50	7	29

106	Dual function of MIPS1 as a metabolic enzyme and transcriptional regulator. <i>Nucleic Acids Research</i> , 2013 , 41, 2907-17	20.1	29
105	cycMs3, a Novel B-Type Alfalfa Cyclin Gene, Is Induced in the G 0 -to-G 1 Transition of the Cell Cycle. <i>Plant Cell</i> , 1995 , 7, 759	11.6	29
104	The MsK family of alfalfa protein kinase genes encodes homologues of shaggy/glycogen synthase kinase-3 and shows differential expression patterns in plant organs and development. <i>Plant Journal</i> , 1993 , 3, 847-56	6.9	28
103	Evolutionary conservation of transcriptional machinery between yeast and plants as shown by the efficient expression from the CaMV 35S promoter and 35S terminator. <i>Current Genetics</i> , 1990 , 17, 473-9	2.9	28
102	Root endophyte induced plant thermotolerance by constitutive chromatin modification at heat stress memory gene loci. <i>EMBO Reports</i> , 2021 , 22, e51049	6.5	27
101	Activation of members of a MAPK module in beta-glucan elicitor-mediated non-host resistance of soybean. <i>Planta</i> , 2007 , 225, 1559-71	4.7	26
100	Bioprospecting desert plant Bacillus endophytic strains for their potential to enhance plant stress tolerance. <i>Scientific Reports</i> , 2019 , 9, 18154	4.9	26
99	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin. <i>Plant Cell</i> , 1996 , 8, 417-28	11.6	25
98	Desert Microbes for Boosting Sustainable Agriculture in Extreme Environments. <i>Frontiers in Microbiology</i> , 2020 , 11, 1666	5.7	25
97	Boosting Alfalfa (L.) Production With Rhizobacteria From Various Plants in Saudi Arabia. <i>Frontiers in Microbiology</i> , 2018 , 9, 477	5.7	24
96	Tyrosine phosphatase signalling in a lower plant: cell-cycle and oxidative stress-regulated expression of the Chlamydomonas eugametos VH-PTP13 gene. <i>Plant Journal</i> , 1995 , 7, 981-8	6.9	24
95	The Polycomb protein LHP1 regulates Arabidopsis thaliana stress responses through the repression of the MYC2-dependent branch of immunity. <i>Plant Journal</i> , 2019 , 100, 1118-1131	6.9	23
94	A SWI/SNF Chromatin Remodelling Protein Controls Cytokinin Production through the Regulation of Chromatin Architecture. <i>PLoS ONE</i> , 2015 , 10, e0138276	3.7	23
93	Salmonella enterica induces and subverts the plant immune system. <i>Frontiers in Microbiology</i> , 2014 , 5, 141	5.7	22
92	Isolation and characterization of a phosphoprotein phosphatase type 2A gene from alfalfa. <i>Molecular Genetics and Genomics</i> , 1993 , 240, 126-31		22
91	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). <i>EMBO Journal</i> , 1983 , 2, 1915-20	13	22
90	Linking the proteins--elucidation of proteome-scale networks using mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2011 , 30, 268-97	11	21
89	AGC kinases in plant development and defense. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1030-3	2.5	21

88	Healthy soils for healthy plants for healthy humans: How beneficial microbes in the soil, food and gut are interconnected and how agriculture can contribute to human health. <i>EMBO Reports</i> , 2020 , 21, e51069	6.5	21
87	Isolation and characterization of plant protein complexes by mass spectrometry. <i>Proteomics</i> , 2011 , 11, 1824-33	4.8	20
86	Evidence for the activation of a MAP kinase upon phosphate-induced cell cycle re-entry in tobacco cells. <i>Physiologia Plantarum</i> , 1998 , 102, 532-538	4.6	20
85	Possible involvement of MAP kinase pathways in acquired metal-tolerance induced by heat in plants. <i>Planta</i> , 2008 , 228, 499-509	4.7	20
84	Involvement of mitogen-activated protein kinases in the symbiosis Bradyrhizobium-Lupinus. <i>Journal of Experimental Botany</i> , 2006 , 57, 2735-42	7	20
83	Isolation and sequence determination of the plant homologue of the eukaryotic initiation factor 4D cDNA from alfalfa, <i>Medicago sativa</i> . <i>Plant Molecular Biology</i> , 1991 , 17, 927-9	4.6	20
82	Phosphorylation-dependent regulation of plant chromatin and chromatin-associated proteins. <i>Proteomics</i> , 2014 , 14, 2127-40	4.8	19
81	Inflorescence-specific expression of AtK-1, a novel Arabidopsis thaliana homologue of shaggy/glycogen synthase kinase-3. <i>Plant Molecular Biology</i> , 1995 , 27, 217-21	4.6	19
80	Phylogenetically diverse endophytic bacteria from desert plants induce transcriptional changes of tissue-specific ion transporters and salinity stress in Arabidopsis thaliana. <i>Plant Science</i> , 2019 , 280, 228-240	5.3	19
79	Plant MAPK cascades: Just rapid signaling modules?. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1062197	2.5	18
78	GCN5 modulates salicylic acid homeostasis by regulating H3K14ac levels at the 5' and 3' ends of its target genes. <i>Nucleic Acids Research</i> , 2020 , 48, 5953-5966	20.1	18
77	Wounding and Insect Feeding Trigger Two Independent MAPK Pathways with Distinct Regulation and Kinetics. <i>Plant Cell</i> , 2020 , 32, 1988-2003	11.6	18
76	The Salmonella effector protein SpvC, a phosphothreonine lyase is functional in plant cells. <i>Frontiers in Microbiology</i> , 2014 , 5, 548	5.7	18
75	Transcriptional upregulation of signaling pathways: more complex than anticipated?. <i>Trends in Plant Science</i> , 1999 , 4, 7-8	13.1	18
74	The Trihelix transcription factor GT2-like 1 (GTL1) promotes salicylic acid metabolism, and regulates bacterial-triggered immunity. <i>PLoS Genetics</i> , 2018 , 14, e1007708	6	18
73	In and out of the plant cell cycle. <i>Plant Molecular Biology</i> , 1996 , 31, 459-64	4.6	17
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