Dirk K Hincha

List of Publications by Year
in descending order

146 papers	11,285 citations	24978 57 h-index	32761 100 g-index
174 all docs	174 docs citations	174 times ranked	10806 citing authors

#	Article	IF	Citations
1	LEA (Late Embryogenesis Abundant) proteins and their encoding genes in Arabidopsis thaliana. BMC Genomics, 2008, 9, 118.	1.2	818
2	Metabolomics of temperature stress. Physiologia Plantarum, 2008, 132, 220-235.	2.6	439
3	A Global Survey of Gene Regulation during Cold Acclimation in Arabidopsis thaliana. PLoS Genetics, 2005, 1, e26.	1.5	409
4	Natural Genetic Variation of Freezing Tolerance in Arabidopsis. Plant Physiology, 2006, 142, 98-112.	2.3	407
5	Priming and memory of stress responses in organisms lacking a nervous system. Biological Reviews, 2016, 91, 1118-1133.	4.7	388
6	Fructan and its relationship to abiotic stress tolerance in plants. Cellular and Molecular Life Sciences, 2009, 66, 2007-2023.	2.4	361
7	Disruption of the Arabidopsis Circadian Clock Is Responsible for Extensive Variation in the Cold-Responsive Transcriptome Â Â Â. Plant Physiology, 2008, 147, 263-279.	2.3	234
8	Flavonoids are determinants of freezing tolerance and cold acclimation in Arabidopsis thaliana. Scientific Reports, 2016, 6, 34027.	1.6	209
9	Expression profiling of rice cultivars differing in their tolerance to long-term drought stress. Plant Molecular Biology, 2009, 69, 133-153.	2.0	207
10	Specific effects of fructo- and gluco-oligosaccharides in the preservation of liposomes during drying. Glycobiology, 2002, 12, 103-110.	1.3	182
11	The role of raffinose in the cold acclimation response ofArabidopsis thaliana. FEBS Letters, 2004, 576, 169-173.	1.3	177
12	AtMyb41 Regulates Transcriptional and Metabolic Responses to Osmotic Stress in Arabidopsis Â. Plant Physiology, 2009, 149, 1761-1772.	2.3	176
13	Stabilization of model membranes during drying by compatible solutes involved in the stress tolerance of plants and microorganisms. Biochemical Journal, 2004, 383, 277-283.	1.7	174
14	Differential remodeling of the lipidome during cold acclimation in natural accessions of <i>Arabidopsis thaliana</i>. Plant Journal, 2012, 72, 972-982.	2.8	171
15	Metabolic and transcriptomic signatures of rice floral organs reveal sugar starvation as a factor in reproductive failure under heat and drought stress. Plant, Cell and Environment, 2015, 38, 2171-2192.	2.8	164
16	The preservation of liposomes by raffinose family oligosaccharides during drying is mediated by effects on fusion and lipid phase transitions. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1612, 172-177.	1.4	159
17	LEA proteins: IDPs with versatile functions in cellular dehydration tolerance. Biochemical Society Transactions, 2012, 40, 1000-1003.	1.6	158
18	A mitochondrial late embryogenesis abundant protein stabilizes model membranes in the dry state. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1926-1933.	1.4	146

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19	Interaction with Diurnal and Circadian Regulation Results in Dynamic Metabolic and Transcriptional Changes during Cold Acclimation in Arabidopsis. PLoS ONE, 2010, 5, e14101.	1.1	146
20	Heterosis in the freezing tolerance of crosses between twoArabidopsis thalianaaccessions (Columbia-0 and C24) that show differences in non-acclimated and acclimated freezing tolerance. Plant Journal, 2004, 38, 790-799.	2.8	145
21	Clinal variation in the nonâ€acclimated and coldâ€acclimated freezing tolerance of <i>Arabidopsis thaliana</i> accessions. Plant, Cell and Environment, 2012, 35, 1860-1878.	2.8	145
22	Heterosis in the freezing tolerance, and sugar and flavonoid contents of crosses between <i>Arabidopsis thaliana</i> accessions of widely varying freezing tolerance. Plant, Cell and Environment, 2008, 31, 813-827.	2.8	142
23	Functional Divergence of Former Alleles in an Ancient Asexual Invertebrate. Science, 2007, 318, 268-271.	6.0	129
24	Natural variation in flavonol and anthocyanin metabolism during cold acclimation in <scp><i>A</i></scp><i>rabidopsis thaliana</i> accessions. Plant, Cell and Environment, 2015, 38, 1658-1672.	2.8	126
25	Chlorophyll fluorescence imaging accurately quantifies freezing damage and cold acclimation responses in Arabidopsis leaves. Plant Methods, 2008, 4, 12.	1.9	125
26	Plant fructans stabilize phosphatidylcholine liposomes during freeze-drying. FEBS Journal, 2000, 267, 535-540.	0.2	120
27	Predicting Arabidopsis Freezing Tolerance and Heterosis in Freezing Tolerance from Metabolite Composition. Molecular Plant, 2010, 3, 224-235.	3.9	120
28	Dissecting Rice Polyamine Metabolism under Controlled Long-Term Drought Stress. PLoS ONE, 2013, 8, e60325.	1.1	120
29	Identification of Drought Tolerance Markers in a Diverse Population of Rice Cultivars by Expression and Metabolite Profiling. PLoS ONE, 2013, 8, e63637.	1.1	119
30	Low Amounts of Sucrose Are Sufficient to Depress the Phase Transition Temperature of Dry Phosphatidylcholine, but Not for Lyoprotection of Liposomes. Biophysical Journal, 2006, 90, 2831-2842.	0.2	108
31	Disordered Cold Regulated15 Proteins Protect Chloroplast Membranes during Freezing through Binding and Folding, But Do Not Stabilize Chloroplast Enzymes in Vivo. Plant Physiology, 2014, 166, 190-201.	2.3	108
32	A Mechanism for Stabilization of Membranes at Low Temperatures by an Antifreeze Protein. Biophysical Journal, 2002, 82, 874-881.	0.2	102
33	<i>ERF105</i> is a transcription factor gene of <i>Arabidopsis thaliana</i> required for freezing tolerance and cold acclimation. Plant, Cell and Environment, 2017, 40, 108-120.	2.8	102
34	Intermolecular Interactions in Dry and Rehydrated Pure and Mixed Bilayers of Phosphatidylcholine and Digalactosyldiacylglycerol: A Fourier Transform Infrared Spectroscopy Study. Biophysical Journal, 2003, 85, 1682-1690.	0.2	100
35	Non-Disaccharide-Based Mechanisms of Protection during Drying. Cryobiology, 2001, 43, 151-167.	0.3	99
36	Interaction of two intrinsically disordered plant stress proteins (COR15A and COR15B) with lipid membranes in the dry state. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1812-1820.	1.4	95

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37	The reduction of seed-specific dehydrins reduces seed longevity in <i>Arabidopsis thaliana</i>. Seed Science Research, 2011, 21, 165-173.	0.8	89
38	Molecular signatures associated with increased freezing tolerance due to low temperature memory in <i>Arabidopsis</i>. Plant, Cell and Environment, 2019, 42, 854-873.	2.8	89
39	High night temperature strongly impacts TCA cycle, amino acid and polyamine biosynthetic pathways in rice in a sensitivity-dependent manner. Journal of Experimental Botany, 2015, 66, 6385-6397.	2.4	86
40	Natural variation in CBF gene sequence, gene expression and freezing tolerance in the Versailles core collection of Arabidopsis thaliana. BMC Plant Biology, 2008, 8, 105.	1.6	84
41	Fructans from oat and rye: Composition and effects on membrane stability during drying. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1611-1619.	1.4	83
42	Membrane Rupture Is the Common Cause of Damage to Chloroplast Membranes in Leaves Injured by Freezing or Excessive Wilting. Plant Physiology, 1987, 83, 251-253.	2.3	77
43	Comparison of freezing tolerance, compatible solutes and polyamines in geographically diverse collections of Thellungiella sp. and Arabidopsis thaliana accessions. BMC Plant Biology, 2012, 12, 131.	1.6	76
44	LEA Proteins: Versatility of Form and Function. Topics in Current Genetics, 2010, , 91-108.	0.7	75
45	Deacclimation after cold acclimationâ€”a crucial, but widely neglected part of plant winter survival. Journal of Experimental Botany, 2019, 70, 4595-4604.	2.4	73
46	Lipid Composition Determines the Effects of Arbutin on the Stability of Membranes. Biophysical Journal, 1999, 77, 2024-2034.	0.2	71
47	Measuring Freezing Tolerance: Electrolyte Leakage and Chlorophyll Fluorescence Assays. Methods in Molecular Biology, 2014, 1166, 15-24.	0.4	71
48	Looking beyond sugars: the role of amphiphilic solutes in preventing adventitious reactions in anhydrobiotes at low water contents. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 131, 515-525.	0.8	69
49	Time-dependent deacclimation after cold acclimation in Arabidopsis thaliana accessions. Scientific Reports, 2015, 5, 12199.	1.6	69
50	Folding of intrinsically disordered plant LEA proteins is driven by glycerolâ€induced crowding and the presence of membranes. FEBS Journal, 2017, 284, 919-936.	2.2	69
51	Changes in free polyamine levels, expression of polyamine biosynthesis genes, and performance of rice cultivars under salt stress: a comparison with responses to drought. Frontiers in Plant Science, 2014, 5, 182.	1.7	68
52	Rapid transcriptional and metabolic regulation of the deacclimation process in cold acclimated Arabidopsis thaliana. BMC Genomics, 2017, 18, 731.	1.2	68
53	Molecular mechanisms of combined heat and drought stress resilience in cereals. Current Opinion in Plant Biology, 2018, 45, 212-217.	3.5	68
54	Metabolite and transcript markers for the prediction of potato drought tolerance. Plant Biotechnology Journal, 2018, 16, 939-950.	4.1	68

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55	The drought response of potato reference cultivars with contrasting tolerance. Plant, Cell and Environment, 2016, 39, 2370-2389.	2.8	66
56	Induced, Imprinted, and Primed Responses to Changing Environments: Does Metabolism Store and Process Information?. Frontiers in Plant Science, 2019, 10, 106.	1.7	63
57	Structural transitions in the intrinsically disordered plant dehydration stress protein LEA7 upon drying are modulated by the presence of membranes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1879-1887.	1.4	61
58	Combined drought and heat stress impact during flowering and grain filling in contrasting rice cultivars grown under field conditions. Field Crops Research, 2018, 229, 66-77.	2.3	61
59	The Effect of Fructan on the Phospholipid Organization in the Dry State. Biophysical Journal, 2003, 85, 3058-3065.	0.2	60
60	Functional characterization of selected LEA proteins from Arabidopsis thaliana in yeast and in vitro. Planta, 2014, 240, 325-336.	1.6	57
61	The effects of chloroplast lipids on the stability of liposomes during freezing and drying. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1368, 150-160.	1.4	54
62	Integrated analysis of rice transcriptomic and metabolomic responses to elevated night temperatures identifies sensitivityâ€•and toleranceâ€•related profiles. Plant, Cell and Environment, 2017, 40, 121-137.	2.8	54
63	Global changes in gene expression, assayed by microarray hybridization and quantitative RT-PCR, during acclimation of three Arabidopsis thaliana accessions to sub-zero temperatures after cold acclimation. Plant Molecular Biology, 2015, 87, 1-15.	2.0	53
64	Metabolic responses of rice cultivars with different tolerance to combined drought and heat stress under field conditions. GigaScience, 2019, 8, .	3.3	52
65	Effects of Cholesterol on Dry Bilayers: Interactions between Phosphatidylcholine Unsaturation and Glycolipid or Free Sugar. Biophysical Journal, 2007, 93, 1204-1214.	0.2	51
66	Natural Variation of Cold Deacclimation Correlates with Variation of Cold-Acclimation of the Plastid Antioxidant System in Arabidopsis thaliana Accessions. Frontiers in Plant Science, 2016, 7, 305.	1.7	51
67	Intrinsically Disordered Stress Protein COR15A Resides at the Membrane Surface during Dehydration. Biophysical Journal, 2017, 113, 572-579.	0.2	51
68	Both cold and sub-zero acclimation induce cell wall modification and changes in the extracellular proteome in Arabidopsis thaliana. Scientific Reports, 2019, 9, 2289.	1.6	51
69	Interactions of arbutin with dry and hydrated bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1370, 87-97.	1.4	50
70	The intrinsically disordered protein LEA7 from Arabidopsis thaliana protects the isolated enzyme lactate dehydrogenase and enzymes in a soluble leaf proteome during freezing and drying. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1517-1525.	1.1	50
71	Monosaccharide composition, chain length and linkage type influence the interactions of oligosaccharides with dry phosphatidylcholine membranes. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 680-691.	1.4	49
72	The effect of arbutin on membrane integrity during drying is mediated by stabilization of the lamellar phase in the presence of nonbilayer-forming lipids. Chemistry and Physics of Lipids, 2001, 111, 37-57.	1.5	48

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73	Effects of Î±â€tocopherol (vitamin E) on the stability and lipid dynamics of model membranes mimicking the lipid composition of plant chloroplast membranes. FEBS Letters, 2008, 582, 3687-3692.	1.3	48
74	The intrinsically disordered late embryogenesis abundant protein LEA18 from Arabidopsis thaliana modulates membrane stability through binding and folding. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 446-453.	1.4	48
75	Mapping quantitative trait loci for freezing tolerance in a recombinant inbred line population of <i><scp>A</scp>rabidopsis thaliana</i> accessions Tenela and <scp>C24</scp> reveals <scp>REVEILLE1</scp> as negative regulator of cold acclimation. Plant, Cell and Environment, 2013, 36, 1256-1267.	2.8	48
76	Cryoprotectin: a plant lipidâ€"transfer protein homologue that stabilizes membranes during freezing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 909-916.	1.8	47
77	The lytic activity of the bee venom peptide melittin is strongly reduced by the presence of negatively charged phospholipids or chloroplast galactolipids in the membranes of phosphatidylcholine large unilamellar vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1284, 162-170.	1.4	46
78	Differential physiological responses of different rice (Oryza sativa) cultivars to elevated night temperature during vegetative growth. Functional Plant Biology, 2014, 41, 437.	1.1	45
79	Cabbage Cryoprotectin Is a Member of the Nonspecific Plant Lipid Transfer Protein Gene Family. Plant Physiology, 2001, 125, 835-846.	2.3	44
80	Effects of calcium-induced aggregation on the physical stability of liposomes containing plant glycolipids. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1611, 180-186.	1.4	44
81	Target of Rapamycin Inhibition in <i>Chlamydomonas reinhardtii</i> Triggers de Novo Amino Acid Synthesis by Enhancing Nitrogen Assimilation. Plant Cell, 2018, 30, 2240.1-2254.	3.1	44
82	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase <scp>XTH19</scp> influences freezing tolerance after cold and subâ€zero acclimation. Plant, Cell and Environment, 2021, 44, 915-930.	2.8	43
83	Natural genetic variation in acclimation capacity at sub-zero temperatures after cold acclimation at 4 Â°C in different Arabidopsis thaliana accessions. Cryobiology, 2008, 57, 104-112.	0.3	41
84	Characterisation of the ERF102 to ERF105 genes of Arabidopsis thaliana and their role in the response to cold stress. Plant Molecular Biology, 2020, 103, 303-320.	2.0	41
85	Antifreeze proteins differentially affect model membranes during freezing. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1511, 255-263.	1.4	40
86	Influence of drying on the secondary structure of intrinsically disordered and globular proteins. Biochemical and Biophysical Research Communications, 2012, 417, 122-128.	1.0	39
87	Plant Temperature Acclimation and Growth Rely on Cytosolic Ribosome Biogenesis Factor Homologs. Plant Physiology, 2018, 176, 2251-2276.	2.3	39
88	Antibodies against individual thylakoid membrane proteins as molecular probes to study chemical and mechanical freezing damage in vitro. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 809, 337-344.	0.5	37
89	Chapter 6 Effects of Sugars on the Stability and Structure of Lipid Membranes During Drying. Behavior Research Methods, 2006, 3, 189-217.	2.3	37
90	Transcriptome sequencing and microarray design for functional genomics in the extremophile Arabidopsis relative Thellungiella salsuginea (Eutrema salsugineum). BMC Genomics, 2013, 14, 793.	1.2	37

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91	A mechanistic model of COR15 protein function in plant freezing tolerance: integration of structural and functional characteristics. Plant Signaling and Behavior, 2014, 9, e977722.	1.2	36
92	The solute permeability of thylakoid membranes is reduced by low concentrations of trehalose as a co-solute. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1189, 38-44.	1.4	34
93	Rootstock Sub-Optimal Temperature Tolerance Determines Transcriptomic Responses after Long-Term Root Cooling in Rootstocks and Scions of Grafted Tomato Plants. Frontiers in Plant Science, 2017, 8, 911.	1.7	32
94	Natural variation in the freezing tolerance of Arabidopsis thaliana: Effects of RNAi-induced CBF depletion and QTL localisation vary among accessions. Plant Science, 2011, 180, 12-23.	1.7	31
95	Differential destabilization of membranes by tryptophan and phenylalanine during freezing: the roles of lipid composition and membrane fusion. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1561, 109-118.	1.4	30
96	Utilizing PacBio Iso-Seq for Novel Transcript and Gene Discovery of Abiotic Stress Responses in Oryza sativa L.. International Journal of Molecular Sciences, 2020, 21, 8148.	1.8	30
97	Cryoprotectin protects thylakoids during a freezeâ€"thaw cycle by a mechanism involving stable membrane binding. Cryobiology, 2003, 47, 191-203.	0.3	29
98	Interactions between the circadian clock and cold-response in Arabidopsis. Plant Signaling and Behavior, 2008, 3, 593-594.	1.2	29
99	Evaluation of Seven Different RNA-Seq Alignment Tools Based on Experimental Data from the Model Plant Arabidopsis thaliana. International Journal of Molecular Sciences, 2020, 21, 1720.	1.8	29
100	Cryoprotective Leaf Proteins: Assay Methods and Heat Stability. Journal of Plant Physiology, 1992, 140, 236-240.	1.6	27
101	Assessment of drought tolerance and its potential yield penalty in potato. Functional Plant Biology, 2015, 42, 655.	1.1	26
102	Transcriptional and Post-Transcriptional Regulation and Transcriptional Memory of Chromatin Regulators in Response to Low Temperature. Frontiers in Plant Science, 2020, 11, 39.	1.7	26
103	Rapid induction of frost hardiness in spinach seedlings under salt stress. Planta, 1994, 194, 274-278.	1.6	25
104	Effects of flavonol glycosides on liposome stability during freezing and drying. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 3050-3060.	1.4	25
105	Structural properties and enzyme stabilization function of the intrinsically disordered LEA_4 protein TdLEA3 from wheat. Scientific Reports, 2019, 9, 3720.	1.6	25
106	Identification of two hydrophilins that contribute to the desiccation and freezing tolerance of yeast (Saccharomyces cerevisiae) cells. Cryobiology, 2011, 62, 188-193.	0.3	24
107	Effects of the sugar headgroup of a glycoglycerolipid on the phase behavior of phospholipid model membranes in the dry state. Glycobiology, 2005, 15, 1150-1155.	1.3	23
108	Thermotropic phase behavior and headgroup interactions of the nonbilayer lipids phosphatidylethanolamine and monogalactosyldiacylglycerol in the dry state. BMC Biophysics, 2011, 4, 11.	4.4	23

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109	Introduction: Plant Cold Acclimation and Freezing Tolerance. Methods in Molecular Biology, 2014, 1166, 1-6.	0.4	23
110	Chapter 4 Freeze-thaw damage to thylakoid membranes: Specific protection by sugars and proteins. Advances in Low-temperature Biology, 1996, , 141-183.	1.0	23
111	Molecular dynamics simulations and CD spectroscopy reveal hydration-induced unfolding of the intrinsically disordered LEA proteins COR15A and COR15B from Arabidopsis thaliana. Physical Chemistry Chemical Physics, 2016, 18, 25806-25816.	1.3	21
112	Impact of seasonal warming on overwintering and spring phenology of blackcurrant. Environmental and Experimental Botany, 2017, 140, 96-109.	2.0	21
113	Folding and Lipid Composition Determine Membrane Interaction of the Disordered Protein COR15A. Biophysical Journal, 2018, 115, 968-980.	0.2	21
114	Season Affects Yield and Metabolic Profiles of Rice (Oryza sativa) under High Night Temperature Stress in the Field. International Journal of Molecular Sciences, 2020, 21, 3187.	1.8	21
115	Specific interactions of tryptophan with phosphatidylcholine and digalactosyldiacylglycerol in pure and mixed bilayers in the dry and hydrated state. Chemistry and Physics of Lipids, 2004, 132, 171-184.	1.5	19
116	Substantial reprogramming of the Eutrema salsugineum (Thellungiella salsuginea) transcriptome in response to UV and silver nitrate challenge. BMC Plant Biology, 2015, 15, 137.	1.6	18
117	Introduction: Plant Cold Acclimation and Winter Survival. Methods in Molecular Biology, 2020, 2156, 1-7.	0.4	18
118	The concentration of cryoprotective lectins in mistletoe (Viscum album L.) leaves is correlated with leaf frost hardiness. Planta, 1997, 203, 140-144.	1.6	17
119	Release of Two Peripheral Proteins from Chloroplast Thylakoid Membranes in the Presence of a Hofmeister Series of Chaotropic Anions. Archives of Biochemistry and Biophysics, 1998, 358, 385-390.	1.4	17
120	High concentrations of the compatible solute glycinebetaine destabilize model membranes under stress conditions. Cryobiology, 2006, 53, 58-68.	0.3	17
121	Salt stress responses in a geographically diverse collection of Eutrema/Thellungiella spp. accessions. Functional Plant Biology, 2016, 43, 590.	1.1	17
122	Time- and temperature-dependent solute loading of isolated thylakoids during freezing. Cryobiology, 1992, 29, 607-615.	0.3	16
123	Natural Variation in Freezing Tolerance and Cold Acclimation Response in Arabidopsis thaliana and Related Species. Advances in Experimental Medicine and Biology, 2018, 1081, 81-98.	0.8	16
124	Sucrose influx and mechanical damage by osmotic stress to thylakoid membranes during an in vitro freeze-thaw cycle. Biochimica Et Biophysica Acta - Biomembranes, 1986, 861, 152-158.	1.4	15
125	A Cryoprotective Lectin Reduces the Solute Permeability and Lipid Fluidity of Thylakoid Membranes. Cryobiology, 1997, 34, 193-199.	0.3	15
126	Trehalose Increases Freezeâ€“Thaw Damage in Liposomes Containing Chloroplast Glycolipids. Cryobiology, 1998, 36, 245-249.	0.3	15

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127	Protection of liposomes against fusion during drying by oligosaccharides is not predicted by the calorimetric glass transition temperatures of the dry sugars. European Biophysics Journal, 2008, 37, 503-508.	1.2	14
128	Metabolic responses of rice source and sink organs during recovery from combined drought and heat stress in the field. GigaScience, 2019, 8, .	3.3	14
129	Natural Variation among Arabidopsis Accessions in the Regulation of Flavonoid Metabolism and Stress Gene Expression by Combined UV Radiation and Cold. Plant and Cell Physiology, 2021, 62, 502-514.	1.5	14
130	A quality-controlled microarray method for gene expression profiling. Analytical Biochemistry, 2005, 346, 217-224.	1.1	13
131	The effect of hydrophobic analogues of the type I winter flounder antifreeze protein on lipid bilayers. FEBS Letters, 2003, 551, 13-19.	1.3	12
132	Similar Yet Differentâ€"Structural and Functional Diversity among Arabidopsis thaliana LEA_4 Proteins. International Journal of Molecular Sciences, 2020, 21, 2794.	1.8	12
133	Characterization of the Heat-Stable Proteome during Seed Germination in Arabidopsis with Special Focus on LEA Proteins. International Journal of Molecular Sciences, 2021, 22, 8172.	1.8	12
134	Unravelling Differences in Candidate Genes for Drought Tolerance in Potato (Solanum tuberosum L.) by Use of New Functional Microsatellite Markers. Genes, 2021, 12, 494.	1.0	11
135	Conformational selection of the intrinsically disordered plant stress protein COR15A in response to solution osmolarity â€" an X-ray and light scattering study. Physical Chemistry Chemical Physics, 2019, 21, 18727-18740.	1.3	10
136	Genome-Wide Approach to Identify Quantitative Trait Loci for Drought Tolerance in Tetraploid Potato (Solanum tuberosum L.). International Journal of Molecular Sciences, 2021, 22, 6123.	1.8	9
137	Measuring Freezing Tolerance of Leaves and Rosettes: Electrolyte Leakage and Chlorophyll Fluorescence Assays. Methods in Molecular Biology, 2020, 2156, 9-21.	0.4	9
138	Ecotype-Dependent Response of Bacterial Communities Associated with <i>Arabidopsis</i> to Cold Acclimation. Phytobiomes Journal, 2018, 2, 3-13.	1.4	8
139	Transcriptome analysis reveals potential roles of a barley ASR gene that confers stress tolerance in transgenic rice. Journal of Plant Physiology, 2019, 238, 29-39.	1.6	8
140	Can Metabolite- and Transcript-Based Selection for Drought Tolerance in Solanum tuberosum Replace Selection on Yield in Arid Environments?. Frontiers in Plant Science, 2020, 11, 1071.	1.7	8
141	Repair of sub-lethal freezing damage in leaves of Arabidopsis thaliana. BMC Plant Biology, 2020, 20, 35.	1.6	8
142	Stabilization of Dry Sucrose Glasses by Four LEA_4 Proteins from Arabidopsis thaliana. Biomolecules, 2021, 11, 615.	1.8	8
143	Interactions of the amphiphiles arbutin and tryptophan with phosphatidylcholine and phosphatidylethanolamine bilayers in the dry state. BMC Biophysics, 2013, 6, 9.	4.4	7
144	Conducting Molecular Biomarker Discovery Studies in Plants. Methods in Molecular Biology, 2012, 918, 127-150.	0.4	6

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145	The Function and Evolution of Closely Related COR/LEA (Cold-Regulated/Late Embryogenesis Abundant) Proteins in Arabidopsis thaliana. , 2013, , 89-105.		5
146	Analysis of Changes in Plant Cell Wall and Structure During Cold Acclimation. Methods in Molecular Biology, 2020, 2156, 255-268.	0.4	4