

# Metabolic Engineering of Osmoprotectant Accumulation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Engineering salt tolerance in plants. <i>Current Opinion in Biotechnology</i> , 2002, 13, 146-150.	6.6	361
2	Enhanced formation of flowers in salt-stressed <i>Arabidopsis</i> after genetic engineering of the synthesis of glycine betaine. <i>Plant Journal</i> , 2003, 36, 165-176.	5.7	116
3	Engineering Salt Tolerance in Plants. <i>Biotechnology and Genetic Engineering Reviews</i> , 2003, 20, 261-276.	6.2	23
4	Osmosensor ProP of <i>Escherichia coli</i> Responds to the Concentration, Chemistry, and Molecular Size of Osmolytes in the Proteoliposome Lumen <sup>&lt;sup&gt;, &lt;/sup&gt;</sup> . <i>Biochemistry</i> , 2003, 42, 410-420.	2.5	86
5	Creation of a Fully Functional Cysteine-Less Variant of Osmosensor and Proton-Osmoprotectant Symporter ProP from <i>Escherichia coli</i> and Its Application to Assess the Transporter's Membrane Orientation. <i>Biochemistry</i> , 2003, 42, 11815-11823.	2.5	41
6	Building stress tolerance through over-producing trehalose in transgenic plants. <i>Trends in Plant Science</i> , 2003, 8, 355-357.	8.8	117
7	Î <sup>2</sup> -Alanine N-Methyltransferase of <i>Limonium latifolium</i> . cDNA Cloning and Functional Expression of a Novel N-Methyltransferase Implicated in the Synthesis of the Osmoprotectant Î <sup>2</sup> -Alanine Betaine. <i>Plant Physiology</i> , 2003, 132, 1642-1651.	4.8	35
9	Evidence from Engineering that Decarboxylation of Free Serine is the Major Source of Ethanolamine Moieties in Plants. <i>Plant and Cell Physiology</i> , 2003, 44, 1185-1191.	3.1	51
10	Isolation and Functional Characterization of N-Methyltransferases That Catalyze Betaine Synthesis from Glycine in a Halotolerant Photosynthetic Organism <i>Aphanethece halophytica</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 4932-4942.	3.4	109
11	The effects of salt stress on growth, nitrate reduction and proline and glycine betaine accumulation in <i>Prosopis alba</i> . <i>Brazilian Journal of Plant Physiology</i> , 2004, 16, 39-46.	0.5	142
12	Characterization and Metabolic Function of a Peroxisomal Sarcosine and Pipecolate Oxidase from <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 16947-16953.	3.4	69
13	Engineering of enhanced glycine betaine synthesis improves drought tolerance in maize. <i>Plant Biotechnology Journal</i> , 2004, 2, 477-486.	8.3	301
14	Metabolite profiling as an aid to metabolic engineering in plants. <i>Current Opinion in Plant Biology</i> , 2004, 7, 196-201.	7.1	175
15	Differential antioxidative responses to water stress among five mulberry ( <i>Morus alba</i> L.) cultivars. <i>Environmental and Experimental Botany</i> , 2004, 52, 33-42.	4.2	154
16	Recent Advances in Genetics of Salt Tolerance in Tomato. <i>Plant Cell, Tissue and Organ Culture</i> , 2004, 76, 101-119.	2.3	233
17	When Defense Pathways Collide. The Response of <i>Arabidopsis</i> to a Combination of Drought and Heat Stress. <i>Plant Physiology</i> , 2004, 134, 1683-1696.	4.8	1,438
18	Mechanisms underlying plant resilience to water deficits: prospects for water-saving agriculture. <i>Journal of Experimental Botany</i> , 2004, 55, 2365-2384.	4.8	1,019
19	Stress-induced expression in wheat of the <i>Arabidopsis thaliana</i> DREB1A gene delays water stress symptoms under greenhouse conditions. <i>Genome</i> , 2004, 47, 493-500.	2.0	369

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20	Environmental VOCsâ€“formation and degradation of dimethyl sulfide, methanethiol and related materials. <i>Chemosphere</i> , 2004, 55, 291-317.	8.2	230
21	Expression of plant inositol transporters in yeast. <i>Plant Science</i> , 2004, 166, 245-252.	3.6	8
22	Drought-induced responses of photosynthesis and antioxidant metabolism in higher plants. <i>Journal of Plant Physiology</i> , 2004, 161, 1189-1202.	3.5	1,699
23	Osmo-Regulation of Bacterial Transcription via Poised RNA Polymerase. <i>Molecular Cell</i> , 2004, 14, 153-162.	9.7	87
24	Mutations of <i>ousA</i> Alter the Virulence of <i>Erwinia chrysanthemi</i> . <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 150-157.	2.6	15
25	Recent advances in engineering plant tolerance to abiotic stress: achievements and limitations. <i>Current Opinion in Biotechnology</i> , 2005, 16, 123-132.	6.6	1,299
26	Adaptive responses of <i>Populus kangdingensis</i> to drought stress. <i>Physiologia Plantarum</i> , 2005, 123, 445-451.	5.2	112
27	Comparative analysis of trehalose production by <i>Debaryomyces hansenii</i> and <i>Saccharomyces cerevisiae</i> under saline stress. <i>Extremophiles</i> , 2005, 9, 7-16.	2.3	33
28	<i>Sorghum bicolor</i> â€™s Transcriptome Response to Dehydration, High Salinity and ABA. <i>Plant Molecular Biology</i> , 2005, 58, 699-720.	3.9	262
29	Halotolerant Cyanobacterium <i>Aphanothece halophytica</i> Contains NapA-Type Na <sup>+</sup> /H <sup>+</sup> Antiporters with Novel Ion Specificity That Are Involved in Salt Tolerance at Alkaline pH. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4176-4184.	3.1	39
30	Genes for direct methylation of glycine provide high levels of glycinebetaine and abiotic-stress tolerance in <i>Synechococcus</i> and <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1318-1323.	7.1	194
31	Drought resistance, water-use efficiency, and yield potentialâ€“are they compatible, dissonant, or mutually exclusive?. <i>Australian Journal of Agricultural Research</i> , 2005, 56, 1159.	1.5	1,080
32	A Structural Model for the Osmosensor, Transporter, and Osmoregulator ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2005, 44, 5634-5646.	2.5	44
33	Regeneration of cryoresistance of in vitro rumen ciliate cultures. <i>Cryobiology</i> , 2005, 51, 76-84.	0.7	10
34	Cold, salinity and drought stresses: An overview. <i>Archives of Biochemistry and Biophysics</i> , 2005, 444, 139-158.	3.0	2,295
35	Organic compatible solutes of halotolerant and halophilic microorganisms. <i>Saline Systems</i> , 2005, 1, 5.	2.0	565
36	Drought and Salt Tolerance in Plants. <i>Critical Reviews in Plant Sciences</i> , 2005, 24, 23-58.	5.7	2,081
37	Stress Signal Transduction: components, pathways and network integration. , 2006, , 3-29.		11

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38	Metabolite Profiling of Wheat Grains ( <i>Triticum aestivum</i> L.) from Organic and Conventional Agriculture. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 8301-8306.	5.2	98
39	Engineering for biosynthesis of ectoine (2-methyl 4-carboxy tetrahydro pyrimidine) in tobacco chloroplasts leads to accumulation of ectoine and enhanced salinity tolerance. <i>Plant Science</i> , 2006, 170, 291-306.	3.6	10
41	Salt Tolerance. , 2006, , 206-224.		29
42	Solute Accumulation as a Cause for Quality Losses in Sugar Beet Submitted to Continuous and Temporary Drought Stress. <i>Journal of Agronomy and Crop Science</i> , 2006, 192, 17-24.	3.5	32
43	Characterization of salt tolerance in ectoine-transformed tobacco plants ( <i>Nicotiana tabacum</i> ): photosynthesis, osmotic adjustment, and nitrogen partitioning. <i>Plant, Cell and Environment</i> , 2006, 29, 173-182.	5.7	47
44	Organ-specific adaptation to low precipitation in solute concentration of sugar beet ( <i>Beta vulgaris</i> ) Tj ETQq1 1 0.784314 rgBTJ/Overlock	4.1	26
45	Understanding regulatory networks and engineering for enhanced drought tolerance in plants. <i>Current Opinion in Plant Biology</i> , 2006, 9, 189-195.	7.1	695
46	Tomato QM-Like Protein Protects <i>Saccharomyces cerevisiae</i> Cells against Oxidative Stress by Regulating Intracellular Proline Levels. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4001-4006.	3.1	79
47	Halotolerant Cyanobacterium <i>Aphanothece halophytica</i> Contains a Betaine Transporter Active at Alkaline pH and High Salinity. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6018-6026.	3.1	52
48	Evaluation of the stress-inducible production of choline oxidase in transgenic rice as a strategy for producing the stress-protectant glycine betaine. <i>Journal of Experimental Botany</i> , 2006, 57, 1129-1135.	4.8	150
50	Metabolic engineering of glycinebetaine. , 2006, , 137-151.		31
51	Metabolic Engineering for Betaine Accumulation in Microbes and Plants. <i>Journal of Biological Chemistry</i> , 2007, 282, 34185-34193.	3.4	73
52	Endogenously Synthesized ( $\alpha$ )-D-Quercitol and Glycine Betaine Are Principal Compatible Solutes of <i>Schizochytrium</i> sp. Strain S8 (ATCC 20889) and Three New Isolates of Phylogenetically Related Thraustochytrids. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5848-5856.	3.1	38
53	Choline. , 2007, , .		2
54	Biochemical characterization of early and late bud flushing in common ash ( <i>Fraxinus excelsior</i> L.). <i>Plant Science</i> , 2007, 172, 962-969.	3.6	32
55	Alteration of oxidative and carbohydrate metabolism under abiotic stress in two rice ( <i>Oryza sativa</i> L.) genotypes contrasting in chilling tolerance. <i>Journal of Plant Physiology</i> , 2007, 164, 157-167.	3.5	215
56	Structure and Function of Transmembrane Segment XII in Osmosensor and Osmoprotectant Transporter ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2007, 46, 5647-5655.	2.5	19
57	Current Status Of Breeding Tomatoes For Salt And Drought Tolerance. , 2007, , 669-700.		22

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58	Osmoadaptation of haloalkaliphilic bacteria: Role of osmoregulators and their possible practical application. <i>Microbiology</i> , 2007, 76, 511-522.	1.2	33
59	Roles of glycine betaine and proline in improving plant abiotic stress resistance. <i>Environmental and Experimental Botany</i> , 2007, 59, 206-216.	4.2	3,403
60	Heat tolerance in plants: An overview. <i>Environmental and Experimental Botany</i> , 2007, 61, 199-223.	4.2	2,804
61	Transformed tobacco plants with increased tolerance to drought. <i>South African Journal of Botany</i> , 2007, 73, 505-511.	2.5	46
62	Drought Tolerance and Antioxidant Activities in Lavender Plants Colonized by Native Drought-tolerant or Drought-sensitive <i>Glomus</i> Species. <i>Microbial Ecology</i> , 2007, 54, 543-552.	2.8	182
63	Changes in photosynthesis, xanthophyll cycle, and sugar accumulation in two North Australia tropical species differing in leaf angles. <i>Photosynthetica</i> , 2007, 45, .	1.7	24
64	Expression of TERF1 in rice regulates expression of stress-responsive genes and enhances tolerance to drought and high-salinity. <i>Plant Cell Reports</i> , 2008, 27, 1787-1795.	5.6	85
65	Effect of CaCl <sub>2</sub> treatment on the changing of drought related physiological and biochemical indexes of <i>Brassica napus</i> . <i>Frontiers of Agriculture in China</i> , 2008, 2, 423-427.	0.2	6
66	Osmoprotectants enhance methane production from the anaerobic digestion of food wastes containing a high content of salt. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1204-1210.	3.2	60
67	Effects of water stress and high temperature on photosynthetic rates of two species of <i>Prosopis</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008, 92, 67-76.	3.8	23
68	Virus infection improves drought tolerance. <i>New Phytologist</i> , 2008, 180, 911-921.	7.3	348
69	Salinity and its effects on the functional biology of legumes. <i>Acta Physiologiae Plantarum</i> , 2008, 30, 595-618.	2.1	284
70	Genetic Engineering for Salinity Stress Tolerance. <i>Advances in Plant Biochemistry and Molecular Biology</i> , 2008, , 347-384.	0.5	13
71	Role of Glu312 in Binding and Positioning of the Substrate for the Hydride Transfer Reaction in Choline Oxidase <sup>&lt;sup&gt;</sup> </sup>. <i>Biochemistry</i> , 2008, 47, 243-256.	2.5	82
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74	Principal Transcriptional Programs Regulating Plant Amino Acid Metabolism in Response to Abiotic Stresses Â Â. <i>Plant Physiology</i> , 2008, 147, 316-330.	4.8	255
75	Accumulation of pinitol and other soluble sugars in waterâ€stressed phyllodes of tropical <i>Acacia auriculiformis</i> in northern Australia. <i>New Zealand Journal of Botany</i> , 2008, 46, 119-126.	1.1	11
76	Wild plant resources for studying molecular mechanisms of drought/strong light stress tolerance. <i>Plant Biotechnology</i> , 2008, 25, 257-263.	1.0	44

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78	Absciscic acid has contrasting effects on salt excretion and polyamine concentrations of an inland and a coastal population of the Mediterranean xero-halophyte species <i>Atriplex halimus</i> . <i>Annals of Botany</i> , 2009, 104, 925-936.	2.9	47
79	Peroxisome Biogenesis and Function. <i>The Arabidopsis Book</i> , 2009, 7, e0123.	0.5	95
80	Functional Characterization of Phospholipid N-Methyltransferases from <i>Arabidopsis</i> and Soybean. <i>Journal of Biological Chemistry</i> , 2009, 284, 15439-15447.	3.4	41
81	A reassessment of the prevalent organic solutes constitutively accumulated and potentially involved in osmotic adjustment in pear leaves. <i>Environmental and Experimental Botany</i> , 2009, 66, 230-241.	4.2	24
82	Recent developments in understanding salinity tolerance. <i>Environmental and Experimental Botany</i> , 2009, 67, 2-9.	4.2	465
83	The osmolyte betaine promotes protein misfolding and disruption of protein aggregates. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 75, 509-517.	2.6	64
84	Preferential accumulation of betaine uncoupled to choline monooxygenase in young leaves of sugar beet – Importance of long-distance translocation of betaine under normal and salt-stressed conditions. <i>Journal of Plant Physiology</i> , 2009, 166, 2058-2070.	3.5	47
85	Recent Advances in Plant Biotechnology. , 2009, , .		16
86	Genotypic differences in plant growth, osmotic and antioxidative defence of <i>Cajanus cajan</i> (L.) Millsp. modulated by salt stress. <i>Archives of Agronomy and Soil Science</i> , 2009, 55, 3-33.	2.6	12
87	Proline metabolism in senescing rose petals ( <i>Rosa hybrida</i> L. – First Red™). <i>Journal of Horticultural Science and Biotechnology</i> , 2009, 84, 536-540.	1.9	11
88	Transgenic <i>Brassica chinensis</i> plants expressing a bacterial <i>codA</i> gene exhibit enhanced tolerance to extreme temperature and high salinity. <i>Journal of Zhejiang University: Science B</i> , 2010, 11, 851-861.	2.8	35
89	Induction of salt tolerance in <i>Azolla microphylla</i> Kaulf through modulation of antioxidant enzymes and ion transport. <i>Protoplasma</i> , 2010, 245, 105-111.	2.1	20
90	Overexpression of osmotin gene confers tolerance to salt and drought stresses in transgenic tomato ( <i>Solanum lycopersicum</i> L.). <i>Protoplasma</i> , 2010, 245, 133-141.	2.1	127
91	Metabolome and water homeostasis analysis of <i>Thellungiella salsuginea</i> suggests that dehydration tolerance is a key response to osmotic stress in this halophyte. <i>Plant Journal</i> , 2010, 64, 215-229.	5.7	174
92	Identification of Phosphomethylethanolamine N-Methyltransferase from <i>Arabidopsis</i> and Its Role in Choline and Phospholipid Metabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 29147-29155.	3.4	33
93	Osmotically induced synthesis of the dipeptide N-acetylglutaminyglutamine amide is mediated by a new pathway conserved among bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12652-12657.	7.1	58
94	Genetic Engineering for Modern Agriculture: Challenges and Perspectives. <i>Annual Review of Plant Biology</i> , 2010, 61, 443-462.	18.7	902

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96	Irrigation restriction effects on water use efficiency and osmotic adjustment in Aloe Vera plants ( <i>Aloe barbadensis</i> Miller). <i>Agricultural Water Management</i> , 2010, 97, 1564-1570.	5.6	36
97	Nitrogen in Relation to Photosynthetic Capacity and Accumulation of Osmoprotectant and Nutrients in Brassica Genotypes Grown Under Salt Stress. <i>Agricultural Sciences in China</i> , 2010, 9, 671-680.	0.6	49
98	MÃ©canismes et stratÃ©gies cellulaires de tolÃ©rance Ã la salinitÃ© (NaCl) chez les plantes. <i>Environmental Reviews</i> , 2011, 19, 121-140.	4.5	14
99	Plants in Extreme Environments. <i>Advances in Botanical Research</i> , 2011, 57, 105-150.	1.1	48
100	Increased salt and drought tolerance by d-ononitol production in transgenic <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 669-674.	2.1	44
101	Drought Tolerance. <i>Advances in Agronomy</i> , 2011, , 249-296.	5.2	124
102	Physiological responses of <i>Chenopodium quinoa</i> to salt stress. <i>International Journal of Plant Physiology and Biochemistry</i> , 2011, 3, .	1.0	5
103	Gas exchange and JIP-test parameters of two Mediterranean maquis species are affected by sea spray and ozone interaction. <i>Environmental and Experimental Botany</i> , 2011, 73, 80-88.	4.2	24
104	Non-protein amino acids: plant, soil and ecosystem interactions. <i>Plant and Soil</i> , 2011, 342, 31-48.	3.7	122
105	Biochemical Effect of Carbaryl on Oxidative stress, Antioxidant enzymes and Osmolytes of <i>Cyanobacterium Calothrix brevissima</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 87, 615-620.	2.7	20
106	Transgenic Strategies Toward the Development of Salt-Tolerant Plants. , 2011, , 235-274.		4
107	Polyols as biomarkers and bioindicators for 21st century plant breeding. <i>Functional Plant Biology</i> , 2011, 38, 934.	2.1	38
108	Sustainable Potato Production: Global Case Studies. , 2012, , .		22
109	Amino Acid Residues Critical for the Specificity for Betaine Aldehyde of the Plant ALDH10 Isoenzyme Involved in the Synthesis of Glycine Betaine Â. <i>Plant Physiology</i> , 2012, 158, 1570-1582.	4.8	45
110	Overexpression ofRab16Agene in indica rice variety for generating enhanced salt tolerance. <i>Plant Signaling and Behavior</i> , 2012, 7, 502-509.	2.4	69
111	Influence of salt stress on growth, pigments, soluble sugars and ion accumulation in three pistachio cultivars. <i>Journal of Medicinal Plants Research</i> , 2012, 6, .	0.4	22
112	Engineering of betaine biosynthesis and transport for abiotic stress tolerance in plants. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2012, 21, 58-62.	1.7	10

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113	Metabolic and Phenotypic Responses of Greenhouse-Grown Maize Hybrids to Experimentally Controlled Drought Stress. <i>Molecular Plant</i> , 2012, 5, 401-417.	8.3	251
114	Targeting metabolic pathways for genetic engineering abiotic stress-tolerance in crops. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 186-194.	1.9	122
115	Transgenic plants for abiotic stress tolerance: current status. <i>Archives of Agronomy and Soil Science</i> , 2012, 58, 693-721.	2.6	31
116	Anabaena sp. PCC7120 transformed with glycine methylation genes from <i>Aphanethece halophytica</i> synthesized glycine betaine showing increased tolerance to salt. <i>Archives of Microbiology</i> , 2012, 194, 909-914.	2.2	25
120	Responses and Management of Heat Stress in Plants. , 2012, , 135-157.		23
121	Water Deficit Condition Affecting Rice Production – Challenges and Prospects. , 0, , .		2
122	The studying effect of drought stress on germination, proline, sugar, lipid, protein and chlorophyll content in purslane ( <i>Portulaca oleracea</i> L.) leaves. <i>Journal of Medicinal Plants Research</i> , 2012, 6, .	0.4	21
123	Abiotic Stress Responses in Plants: Present and Future. , 2012, , 1-19.		111
124	Overexpression of serine hydroxymethyltransferase from halotolerant cyanobacterium in <i>Escherichia coli</i> results in increased accumulation of choline precursors and enhanced salinity tolerance. <i>FEMS Microbiology Letters</i> , 2012, 333, 46-53.	1.8	23
125	Metabolite profiling of the moss <i>Physcomitrella patens</i> reveals evolutionary conservation of osmoprotective substances. <i>Plant Cell Reports</i> , 2012, 31, 427-436.	5.6	78
126	Role of Secondary Metabolites and Brassinosteroids in Plant Defense Against Environmental Stresses. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 216-232.	5.1	334
127	Plant Acclimation to Environmental Stress. , 2013, , .		13
128	Expression dynamics and genome distribution of osmoprotectants in soybean: identifying important components to face abiotic stress. <i>BMC Bioinformatics</i> , 2013, 14, S7.	2.6	32
129	A chemical complementation approach reveals genes and interactions of flavonoids with other pathways. <i>Plant Journal</i> , 2013, 74, 383-397.	5.7	74
130	Effect of genotype, environment and genotype-by-environment interaction on metabolite profiling in durum wheat ( <i>Triticum durum</i> Desf.) grain. <i>Journal of Cereal Science</i> , 2013, 57, 183-192.	3.7	63
131	Potentials and limitations of biomethane and phosphorus recovery from sludges of brackish/marine aquaculture recirculation systems: A review. <i>Journal of Environmental Management</i> , 2013, 131, 44-54.	7.8	37
132	Enhanced tolerance of transgenic potato plants expressing choline oxidase in chloroplasts against water stress. , 2013, 54, 30.		34
133	Insights into genomics of salt stress response in rice. <i>Rice</i> , 2013, 6, 27.	4.0	210



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134	Metabolomic Profiling in <i>Selaginella lepidophylla</i> at Various Hydration States Provides New Insights into the Mechanistic Basis of Desiccation Tolerance. <i>Molecular Plant</i> , 2013, 6, 369-385.	8.3	117
135	Osmoprotectants: Potential for Crop Improvement Under Adverse Conditions. , 2013, , 197-232.		60
136	The freshwater cyanobacterium <i>Anabaena doliolum</i> transformed with ApGSMT-DMT exhibited enhanced salt tolerance and protection to nitrogenase activity, but became halophilic. <i>Microbiology (United Kingdom)</i> , 2013, 159, 641-648.	1.8	21
137	Role of DREB-Like Proteins in Improving Stress Tolerance of Transgenic Crops. , 2013, , 147-161.		3
138	Photosynthesis in Nature: A New Look. <i>Environmental Science and Engineering</i> , 2013, , 561-686.	0.2	6
139	Effect of plant growth promoting substances from rhizo- and cyano-bacteria on sugarbeet growth, yield and yield quality in saline soil. <i>International Journal of Academic Research</i> , 2013, 5, 58-65.	0.1	1
140	Changes in Secondary Metabolite Production in <i>Jatropha curcas</i> Calluses Treated with NaCl. <i>Analytical Chemistry Letters</i> , 2013, 3, 359-369.	1.0	1
141	Strategies of Salt Tolerance in the Rhizobia-Legume Symbiosis. , 2013, , 99-121.		6
142	Phytotoxicity of Sodium Chloride Towards Common Duckweed ( <i>Lemna Minor</i> L.) and Yellow Lupin ( <i>Lupinus Luteus</i> L.). <i>Archives of Environmental Protection</i> , 2013, 39, 117-128.	1.1	22
143	Efficiency of yeast in enhancement of the oxidative defense system in salt-stressed flax seedlings. <i>Acta Biologica Hungarica</i> , 2013, 64, 118-130.	0.7	4
144	Detection of drought tolerant sugarcane genotypes ( <i>Saccharum officinarum</i> ) using lipid peroxidation, antioxidant activity, glycine-betaine and proline contents. <i>Journal of Soil Science and Plant Nutrition</i> , 2014, , 0-0.	3.4	22
145	De novo assembly and characterization of stress transcriptome and regulatory networks under temperature, salt and hormone stresses in <i>Lilium lancifolium</i> . <i>Molecular Biology Reports</i> , 2014, 41, 8231-8245.	2.3	27
146	Seed halopriming outdo hydropriming in enhancing seedling vigor and osmotic stress tolerance potential of rice varieties. <i>Journal of Crop Science and Biotechnology</i> , 2014, 17, 209-219.	1.5	26
147	Osmolyte Dynamics. , 2014, , 405-430.		7
148	Breeding and Transgenic Approaches for Development of Abiotic Stress Tolerance in Rice. , 2014, , 153-190.		1
149	Targeting of Metabolic Pathways for Genetic Engineering to Combat Abiotic Stress Tolerance in Crop Plants. , 2014, , 23-37.		3
150	Influence of abiotic stresses on plant proteome and metabolome changes. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 1-19.	2.1	263
151	Ascorbate metabolism in rice genotypes differing in zinc efficiency. <i>Planta</i> , 2014, 239, 367-379.	3.2	33

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152	Physiological Mechanisms and Adaptation Strategies in Plants Under Changing Environment. , 2014, , .		13
153	Improvement of Crops in the Era of Climatic Changes. , 2014, , .		12
154	Gamma radiation, in vitro selection for salt (NaCl) tolerance, and characterization of mutants in sugarcane ( <i>Saccharum officinarum</i> L.). In <i>Vitro Cellular and Developmental Biology - Plant</i> , 2014, 50, 766-776.	2.1	27
155	Effect of Nitrogen Nutrition on Solute Accumulation and Ion Contents of Maize under Sodium Chloride Stress. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 86-100.	1.4	2
156	Trehalose Metabolism-Related Genes in Maize. <i>Journal of Plant Growth Regulation</i> , 2014, 33, 256-271.	5.1	20
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