

Rajeev Arora

List of Publications by Year in descending order

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66
papers

3,978
citations

101543

36
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118850

62
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68
all docs

68
docs citations

68
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Priming memory invokes seed stress-tolerance. <i>Environmental and Experimental Botany</i> , 2013, 94, 33-45.	4.2	301
2	Deacclimation and reacclimation of cold-hardy plants: Current understanding and emerging concepts. <i>Plant Science</i> , 2006, 171, 3-16.	3.6	287
3	Induction and Release of Bud Dormancy in Woody Perennials: A Science Comes of Age. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2003, 38, 911-921.	1.0	271
4	Overexpression of a <i>Panax ginseng</i> tonoplast aquaporin alters salt tolerance, drought tolerance and cold acclimation ability in transgenic <i>Arabidopsis</i> plants. <i>Planta</i> , 2007, 226, 729-740.	3.2	201
5	Cold Acclimation in Genetically Related (Sibling) Deciduous and Evergreen Peach (<i>Prunus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.8	188
6	Dynamics of the antioxidant system during seed osmopriming, post-priming germination, and seedling establishment in Spinach (<i>Spinacia oleracea</i>). <i>Plant Science</i> , 2011, 180, 212-220.	3.6	158
7	Functional dissection of Hydrophilins during <i>in vitro</i> freeze protection. <i>Plant, Cell and Environment</i> , 2008, 31, 1781-1790.	5.7	125
8	Comparing Gompertz and Richards Functions to Estimate Freezing Injury in <i>Rhododendron</i> Using Electrolyte Leakage. <i>Journal of the American Society for Horticultural Science</i> , 1998, 123, 246-252.	1.0	111
9	Winter survival and deacclimation of perennials under warming climate: physiological perspectives. <i>Physiologia Plantarum</i> , 2013, 147, 75-87.	5.2	102
10	Seasonal patterns of dehydrins and 70-kDa heat-shock proteins in bark tissues of eight species of woody plants. <i>Physiologia Plantarum</i> , 1996, 96, 496-505.	5.2	95
11	Mechanism of freeze-thaw injury and recovery: A cool retrospective and warming up to new ideas. <i>Plant Science</i> , 2018, 270, 301-313.	3.6	86
12	Identification of cold acclimation-responsive <i>Rhododendron</i> genes for lipid metabolism, membrane transport and lignin biosynthesis: importance of moderately abundant ESTs in genomic studies. <i>Plant, Cell and Environment</i> , 2006, 29, 558-570.	5.7	85
13	Chill-responsive dehydrins in blueberry: Are they associated with cold hardiness or dormancy transitions?. <i>Physiologia Plantarum</i> , 1997, 101, 8-16.	5.2	84
14	Comparative analysis of expressed sequence tags from cold-acclimated and non-acclimated leaves of <i>Rhododendron catawbiense</i> Michx. <i>Planta</i> , 2005, 221, 406-416.	3.2	81
15	Isolation and functional characterization of PgTIP1, a hormone-autotrophic cells-specific tonoplast aquaporin in ginseng*. <i>Journal of Experimental Botany</i> , 2007, 58, 947-956.	4.8	79
16	RcDhn5, a cold acclimation-responsive dehydrin from <i>Rhododendron catawbiense</i> rescues enzyme activity from dehydration effects <i>in vitro</i> and enhances freezing tolerance in <i>RcDhn5</i> -overexpressing <i>Arabidopsis</i> plants. <i>Physiologia Plantarum</i> , 2008, 134, 583-597.	5.2	78
17	Seasonal patterns of dehydrins and 70-kDa heat-shock proteins in bark tissues of eight species of woody plants. <i>Physiologia Plantarum</i> , 1996, 96, 496-505.	5.2	77
18	Relative Sensitivity of Photosynthesis and Respiration to Freeze-Thaw Stress in Herbaceous Species. <i>Plant Physiology</i> , 1989, 89, 1372-1379.	4.8	76

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19	Major differences observed in transcript profiles of blueberry during cold acclimation under field and cold room conditions. <i>Planta</i> , 2007, 225, 735-751.	3.2	68
20	Dehydrin variability among rhododendron species: a 25 kDa dehydrin is conserved and associated with cold acclimation across diverse species. <i>New Phytologist</i> , 2004, 161, 773-780.	7.3	67
21	A Loss in the Plasma Membrane ATPase Activity and Its Recovery Coincides with Incipient Freeze-Thaw Injury and Postthaw Recovery in Onion Bulb Scale Tissue. <i>Plant Physiology</i> , 1991, 95, 846-852.	4.8	65
22	Intron-flanking EST-PCR markers: from genetic marker development to gene structure analysis in <i>Rhododendron</i> . <i>Theoretical and Applied Genetics</i> , 2005, 111, 1347-1356.	3.6	63
23	Changes in carbohydrates, ABA and bark proteins during seasonal cold acclimation and deacclimation in <i>Hydrangea</i> species differing in cold hardiness. <i>Physiologia Plantarum</i> , 2008, 134, 473-485.	5.2	63
24	<i>Rhododendron catawbiense</i> plasma membrane intrinsic proteins are aquaporins, and their overexpression compromises constitutive freezing tolerance and cold acclimation ability of transgenic <i>Arabidopsis</i> plants. <i>Plant, Cell and Environment</i> , 2008, 31, 1275-1289.	5.7	57
25	Dehydrin metabolism is altered during seed osmopriming and subsequent germination under chilling and desiccation in <i>Spinacia oleracea</i> L. cv. Bloomsdale: Possible role in stress tolerance. <i>Plant Science</i> , 2012, 183, 27-36.	3.6	56
26	Cold Hardiness in Trees: A Mini-Review. <i>Frontiers in Plant Science</i> , 2018, 9, 1394.	3.6	56
27	In Vivo Perturbation of Membrane-Associated Calcium by Freeze-Thaw Stress in Onion Bulb Cells. <i>Plant Physiology</i> , 1988, 87, 622-628.	4.8	55
28	Identification of quantitative trait loci controlling winter hardiness in an annual-perennial ryegrass interspecific hybrid population. <i>Molecular Breeding</i> , 2007, 19, 125-136.	2.1	54
29	Complementary DNA cloning, sequencing and expression of an unusual dehydrin from blueberry floral buds. <i>Physiologia Plantarum</i> , 1999, 107, 98-109.	5.2	49
30	Deacclimation kinetics and carbohydrate changes in stem tissues of <i>Hydrangea</i> in response to an experimental warm spell. <i>Plant Science</i> , 2011, 180, 140-148.	3.6	48
31	Dehardening Kinetics, Bud Development, and Dehydrin Metabolism in Blueberry Cultivars during Deacclimation at Constant, Warm Temperatures. <i>Journal of the American Society for Horticultural Science</i> , 2004, 129, 667-674.	1.0	48
32	Seasonal changes in photosynthesis, antioxidant systems and ELIP expression in a thermonastic and non-thermonastic <i>Rhododendron</i> species: A comparison of photoprotective strategies in overwintering plants. <i>Plant Science</i> , 2009, 177, 607-617.	3.6	45
33	Frost dehardening and rehardening of floral buds of deciduous azaleas are influenced by genotypic biogeography. <i>Environmental and Experimental Botany</i> , 2007, 59, 264-275.	4.2	44
34	Quantitative and qualitative changes in carbohydrates associated with spring deacclimation in contrasting <i>Hydrangea</i> species. <i>Environmental and Experimental Botany</i> , 2011, 72, 358-367.	4.2	40
35	Effect of short-term versus prolonged freezing on freeze-thaw injury and post-thaw recovery in spinach: Importance in laboratory freeze-thaw protocols. <i>Environmental and Experimental Botany</i> , 2014, 106, 124-131.	4.2	39
36	An apple rootstock overexpressing a peach CBF gene alters growth and flowering in the scion but does not impact cold hardiness or dormancy. <i>Horticulture Research</i> , 2016, 3, 16006.	6.3	39

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37	Increased Risk of Freeze Damage in Woody Perennials VIS-Å€-VIS Climate Change: Importance of Deacclimation and Dormancy Response. <i>Frontiers in Environmental Science</i> , 2016, 4, .	3.3	38
38	Structural Adaptations in Overwintering Leaves of Thermonastic and Nonthermonastic <i>Rhododendron</i> Species. <i>Journal of the American Society for Horticultural Science</i> , 2008, 133, 768-776.	1.0	37
39	Phylogenetic analysis and seasonal cold acclimation-associated expression of early light-induced protein genes of <i>Rhododendron catawbiense</i> . <i>Physiologia Plantarum</i> , 2007, 132, 071202165636003-???	5.2	34
40	Proteomic changes associated with freeze-thaw injury and post-thaw recovery in onion (<i>Allium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.7	34
41	Exogenous salicylic acid improves freezing tolerance of spinach (<i>Spinacia oleracea</i> L.) leaves. <i>Cryobiology</i> , 2018, 81, 192-200.	0.7	34
42	Selection of Reference Genes for Normalizing Gene Expression During Seed Priming and Germination Using qPCR in <i>Zea mays</i> and <i>Spinacia oleracea</i> . <i>Plant Molecular Biology Reporter</i> , 2012, 30, 478-487.	1.8	33
43	Utility of Blueberry-derived EST-PCR Primers in Related Ericaceae Species. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2003, 38, 1428-1432.	1.0	32
44	Factors affecting freezing tolerance: a comparative transcriptomics study between field and artificial cold acclimations in overwintering evergreens. <i>Plant Journal</i> , 2020, 103, 2279-2300.	5.7	29
45	Understanding the cellular mechanism of recovery from freeze-thaw injury in spinach: possible role of aquaporins, heat shock proteins, dehydrin and antioxidant system. <i>Physiologia Plantarum</i> , 2014, 150, 374-387.	5.2	26
46	Salicylic acid-induced freezing tolerance in spinach (<i>Spinacia oleracea</i> L.) leaves explored through metabolite profiling. <i>Environmental and Experimental Botany</i> , 2018, 156, 214-227.	4.2	24
47	A metabolomics study of ascorbic acid-induced in situ freezing tolerance in spinach (<i>Spinacia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	24
48	Isolation and characterization of three cold acclimation-responsive dehydrin genes from <i>Eucalyptus globulus</i> . <i>Tree Genetics and Genomes</i> , 2012, 8, 149-162.	1.6	21
49	Protoplasmic Swelling as a Symptom of Freezing Injury in Onion Bulb Cells. <i>Plant Physiology</i> , 1986, 82, 625-629.	4.8	19
50	Cold hardiness increases with age in juvenile <i>Rhododendron</i> populations. <i>Frontiers in Plant Science</i> , 2014, 5, 542.	3.6	19
51	Post-translational activation of CBF for inducing freezing tolerance. <i>Trends in Plant Science</i> , 2022, 27, 415-417.	8.8	17
52	Identification and Characterization of Five Cold Stress-Related <i>Rhododendron</i> Dehydrin Genes: Spotlight on a FSK-Type Dehydrin With Multiple F-Segments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 30.	4.1	16
53	Proteome dynamics of cold-acclimating <i>Rhododendron</i> species contrasting in their freezing tolerance and thermonasty behavior. <i>PLoS ONE</i> , 2017, 12, e0177389.	2.5	16
54	Seasonal responses to cold and light stresses by two elevational ecotypes of <i>Rhododendron catawbiense</i> : A comparative study of overwintering strategies. <i>Environmental and Experimental Botany</i> , 2019, 163, 86-96.	4.2	15

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55	Comparative Physiology of Natural Deacclimation in Ten Azalea Cultivars. Hortscience: A Publication of the American Society for Horticultural Science, 2017, 52, 1451-1457.	1.0	12
56	Global patterns of protein abundance during the development of cold hardiness in blueberry. Environmental and Experimental Botany, 2016, 124, 11-21.	4.2	11
57	Inheritance of Cold Hardiness and Dehydrin Genes in Diploid Mapping Populations of Blueberry. Journal of Crop Improvement, 2004, 10, 37-52.	1.7	8
58	Short versus prolonged freezing differentially impacts freeze-thaw injury in spinach leaves: mechanistic insights through metabolite profiling. Physiologia Plantarum, 2020, 168, 777-789.	5.2	8
59	Repair of sub-lethal freezing damage in leaves of Arabidopsis thaliana. BMC Plant Biology, 2020, 20, 35.	3.6	8
60	Is expression of aquaporins (plasma membrane intrinsic protein 2s, PIP2s) associated with thermonasty (leaf-curling) in Rhododendron?. Journal of Plant Physiology, 2013, 170, 1447-1454.	3.5	6
61	Supplemental calcium improves freezing tolerance of spinach (<i>Spinacia oleracea</i> L.) by mitigating membrane and photosynthetic damage, and bolstering anti-oxidant and cell-wall status. Scientia Horticulturae, 2021, 288, 110212.	3.6	6
62	Proline accumulation and related gene expression during spring regrowth in three rosaceae species. Horticulture Environment and Biotechnology, 2017, 58, 21-26.	2.1	5
63	The relationship of cold acclimation and extracellular ice formation to winter thermonasty in two <i>Rhododendron</i> species and their F ₁ hybrid. American Journal of Botany, 2021, 108, 1946-1956.	1.7	3
64	A 27 kDa Rhododendron protein is associated with constitutive freezing tolerance and is related to the ABA / water deficit stress-inducible family of proteins. Journal of Horticultural Science and Biotechnology, 2005, 80, 171-176.	1.9	2
65	Antioxidant enzyme responses of Kentucky bluegrass to simulated athletic traffic stress. Itsrj, 0, , .	0.3	0
66	(435) Physiological Study of Deacclimation and Reacclimation in Deciduous Azalea (<i>Rhododendron</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Science, 2005, 40, 1076E-1077.	1.0	0