Rajeev Arora

List of Publications by Year
in descending order

66	3,978	101384 36	118652 62
papers	citations	h-index	g-index

68	68	68	3241
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Post-translational activation of CBF for inducing freezing tolerance. Trends in Plant Science, 2022, 27, 415-417.	4.3	17
2	Supplemental calcium improves freezing tolerance of spinach (Spinacia oleracea L.) by mitigating membrane and photosynthetic damage, and bolstering anti-oxidant and cell-wall status. Scientia Horticulturae, 2021, 288, 110212.	1.7	6
3	The relationship of cold acclimation and extracellular ice formation to winter thermonasty in two Rhododendron species and their F₁ hybrid. American Journal of Botany, 2021, 108, 1946-1956.	0.8	3
4	Short versus prolonged freezing differentially impacts freezeÂâ€“Âthaw injury in spinach leaves: mechanistic insights through metabolite profiling. Physiologia Plantarum, 2020, 168, 777-789.	2.6	8
5	Factors affecting freezing tolerance: a comparative transcriptomics study between field and artificial cold acclimations in overwintering evergreens. Plant Journal, 2020, 103, 2279-2300.	2.8	29
6	A metabolomics study of ascorbic acidâ€induced in situ freezing tolerance in spinach (Spinacia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	24
7	Repair of sub-lethal freezing damage in leaves of Arabidopsis thaliana. BMC Plant Biology, 2020, 20, 35.	1.6	8
8	Identification and Characterization of Five Cold Stress-Related Rhododendron Dehydrin Genes: Spotlight on a FSK-Type Dehydrin With Multiple F-Segments. Frontiers in Bioengineering and Biotechnology, 2019, 7, 30.	2.0	16
9	Seasonal responses to cold and light stresses by two elevational ecotypes of Rhododendron catawbiense: A comparative study of overwintering strategies. Environmental and Experimental Botany, 2019, 163, 86-96.	2.0	15
10	Mechanism of freeze-thaw injury and recovery: A cool retrospective and warming up to new ideas. Plant Science, 2018, 270, 301-313.	1.7	86
11	Exogenous salicylic acid improves freezing tolerance of spinach (Spinacia oleracea L.) leaves. Cryobiology, 2018, 81, 192-200.	0.3	34
12	Cold Hardiness in Trees: A Mini-Review. Frontiers in Plant Science, 2018, 9, 1394.	1.7	56
13	Salicylic acid-induced freezing tolerance in spinach (Spinacia oleracea L.) leaves explored through metabolite profiling. Environmental and Experimental Botany, 2018, 156, 214-227.	2.0	24
14	Proline accumulation and related gene expression during spring regrowth in three rosaceae species. Horticulture Environment and Biotechnology, 2017, 58, 21-26.	0.7	5
15	Comparative Physiology of Natural Deacclimation in Ten Azalea Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 1451-1457.	0.5	12
16	Proteome dynamics of cold-acclimating Rhododendron species contrasting in their freezing tolerance and thermonasty behavior. PLoS ONE, 2017, 12, e0177389.	1.1	16
17	Increased Risk of Freeze Damage in Woody Perennials VIS-Ã€-VIS Climate Change: Importance of Deacclimation and Dormancy Response. Frontiers in Environmental Science, 2016, 4, .	1.5	38
18	An apple rootstock overexpressing a peach CBF gene alters growth and flowering in the scion but does not impact cold hardiness or dormancy. Horticulture Research, 2016, 3, 16006.	2.9	39

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19	Global patterns of protein abundance during the development of cold hardiness in blueberry. Environmental and Experimental Botany, 2016, 124, 11-21.	2.0	11
20	Cold hardiness increases with age in juvenile Rhododendron populations. Frontiers in Plant Science, 2014, 5, 542.	1.7	19
21	Understanding the cellular mechanism of recovery from freezeâ€“thaw injury in spinach: possible role of aquaporins, heat shock proteins, dehydrin and antioxidant system. Physiologia Plantarum, 2014, 150, 374-387.	2.6	26
22	Effect of short-term versus prolonged freezing on freezeâ€“thaw injury and post-thaw recovery in spinach: Importance in laboratory freezeâ€“thaw protocols. Environmental and Experimental Botany, 2014, 106, 124-131.	2.0	39
23	Winter survival and deacclimation of perennials under warming climate: physiological perspectives. Physiologia Plantarum, 2013, 147, 75-87.	2.6	102
24	Priming memory invokes seed stress-tolerance. Environmental and Experimental Botany, 2013, 94, 33-45.	2.0	301
25	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.	1.6	6
26	Proteomic changes associated with freezeâ€thaw injury and postâ€thaw recovery in onion (Allium) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	34
27	Dehydrin metabolism is altered during seed osmopriming and subsequent germination under chilling and desiccation in Spinacia oleracea L. cv. Bloomsdale: Possible role in stress tolerance. Plant Science, 2012, 183, 27-36.	1.7	56
28	Selection of Reference Genes for Normalizing Gene Expression During Seed Priming and Germination Using qPCR in Zea mays and Spinacia oleracea. Plant Molecular Biology Reporter, 2012, 30, 478-487.	1.0	33
29	Isolation and characterization of three cold acclimation-responsive dehydrin genes from Eucalyptus globulus. Tree Genetics and Genomes, 2012, 8, 149-162.	0.6	21
30	Deacclimation kinetics and carbohydrate changes in stem tissues of Hydrangea in response to an experimental warm spell. Plant Science, 2011, 180, 140-148.	1.7	48
31	Dynamics of the antioxidant system during seed osmopriming, post-priming germination, and seedling establishment in Spinach (Spinacia oleracea). Plant Science, 2011, 180, 212-220.	1.7	158
32	Quantitative and qualitative changes in carbohydrates associated with spring deacclimation in contrasting Hydrangea species. Environmental and Experimental Botany, 2011, 72, 358-367.	2.0	40
33	Seasonal changes in photosynthesis, antioxidant systems and ELIP expression in a thermonastic and non-thermonastic Rhododendron species: A comparison of photoprotective strategies in overwintering plants. Plant Science, 2009, 177, 607-617.	1.7	45
34	Changes in carbohydrates, ABA and bark proteins during seasonal cold acclimation and deacclimation in Hydrangea species differing in cold hardiness. Physiologia Plantarum, 2008, 134, 473-485.	2.6	63
35	RcDhn5, a cold acclimationâ€responsive dehydrin from Rhododendron catawbiense rescues enzyme activity from dehydration effects in vitro and enhances freezing tolerance in RcDhn5â€overexpressing Arabidopsis plants. Physiologia Plantarum, 2008, 134, 583-597.	2.6	78
36	Rhododendron catawbiense plasma membrane intrinsic proteins are aquaporins, and their overâ€expression compromises constitutive freezing tolerance and cold acclimation ability of transgenic Arabidopsis plants. Plant, Cell and Environment, 2008, 31, 1275-1289.	2.8	57

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37	Functional dissection of Hydrophilins during in vitro freeze protection. Plant, Cell and Environment, 2008, 31, 1781-1790.	2.8	125
38	Structural Adaptations in Overwintering Leaves of Thermonastic and Nonthermonastic Rhododendron Species. Journal of the American Society for Horticultural Science, 2008, 133, 768-776.	0.5	37
39	Isolation and functional characterization of PgTIP1, a hormone-autotrophic cells-specific tonoplast aquaporin in ginseng*. Journal of Experimental Botany, 2007, 58, 947-956.	2.4	79
40	Phylogenetic analysis and seasonal cold acclimation-associated expression of early light-induced protein genes of Rhododendron catawbiense. Physiologia Plantarum, 2007, 132, 071202165636003-???.	2.6	34
41	Frost dehardening and rehardening of floral buds of deciduous azaleas are influenced by genotypic biogeography. Environmental and Experimental Botany, 2007, 59, 264-275.	2.0	44
42	Identification of quantitative trait loci controlling winter hardiness in an annualÂÃ—Âperennial ryegrass interspecific hybrid population. Molecular Breeding, 2007, 19, 125-136.	1.0	54
43	Major differences observed in transcript profiles of blueberry during cold acclimation under field and cold room conditions. Planta, 2007, 225, 735-751.	1.6	68
44	Overexpression of a Panax ginseng tonoplast aquaporin alters salt tolerance, drought tolerance and cold acclimation ability in transgenic Arabidopsis plants. Planta, 2007, 226, 729-740.	1.6	201
45	Deacclimation and reacclimation of cold-hardy plants: Current understanding and emerging concepts. Plant Science, 2006, 171, 3-16.	1.7	287
46	Identification of cold acclimation-responsive Rhododendron genes for lipid metabolism, membrane transport and lignin biosynthesis: importance of moderately abundant ESTs in genomic studies. Plant, Cell and Environment, 2006, 29, 558-570.	2.8	85
47	A 27 kDaRhododendronprotein 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.	0.9	2
48	Intron-flanking ESTâ€"PCR markers: from genetic marker development to gene structure analysis in Rhododendron. Theoretical and Applied Genetics, 2005, 111, 1347-1356.	1.8	63
49	Comparative analysis of expressed sequence tags from cold-acclimated and non-acclimated leaves of Rhododendron catawbiense Michx. Planta, 2005, 221, 406-416.	1.6	81
50	(435) Physiological Study of Deacclimation and Reacclimation in Deciduous Azalea (Rhododendron) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Science, 2005, 40, 1076E-1077.	0.5	0
51	Inheritance of Cold Hardiness and Dehydrin Genes in Diploid Mapping Populations of Blueberry. Journal of Crop Improvement, 2004, 10, 37-52.	0.9	8
52	Dehydrin variability among rhododendron species: a 25â€kDa dehydrin is conserved and associated with cold acclimation across diverse species. New Phytologist, 2004, 161, 773-780.	3.5	67
53	Dehardening Kinetics, Bud Development, and Dehydrin Metabolism in Blueberry Cultivars during Deacclimation at Constant, Warm Temperatures. Journal of the American Society for Horticultural Science, 2004, 129, 667-674.	0.5	48
54	Induction and Release of Bud Dormancy in Woody Perennials: A Science Comes of Age. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 911-921.	0.5	271

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55	Utility of Blueberry-derived EST-PCR Primers in Related Ericaceae Species. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 1428-1432.	0.5	32
56	Complementary DNA cloning, sequencing and expression of an unusual dehydrin from blueberry floral buds. Physiologia Plantarum, 1999, 107, 98-109.	2.6	49
57	Comparing Gompertz and Richards Functions to Estimate Freezing Injury in Rhododendron Using Electrolyte Leakage. Journal of the American Society for Horticultural Science, 1998, 123, 246-252.	0.5	111
58	Chill-responsive dehydrins in blueberry: Are they associated with cold hardiness or dormancy transitions?. Physiologia Plantarum, 1997, 101, 8-16.	2.6	84
59	Seasonal patterns of dehydrins and 70-kDa heat-shock proteins in bark tissues of eight species of woody plants. Physiologia Plantarum, 1996, 96, 496-505.	2.6	95
60	Seasonal patterns of dehydrins and 70-kDa heat-shock proteins in bark tissues of eight species of woody plants. Physiologia Plantarum, 1996, 96, 496-505.	2.6	77
61	Cold Acclimation in Genetically Related (Sibling) Deciduous and Evergreen Peach (<i>Prunus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.3	188
62	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. Plant Physiology, 1991, 95, 846-852.	2.3	65
63	Relative Sensitivity of Photosynthesis and Respiration to Freeze-Thaw Stress in Herbaceous Species. Plant Physiology, 1989, 89, 1372-1379.	2.3	76
64	In Vivo Perturbation of Membrane-Associated Calcium by Freeze-Thaw Stress in Onion Bulb Cells. Plant Physiology, 1988, 87, 622-628.	2.3	55
65	Protoplasmic Swelling as a Symptom of Freezing Injury in Onion Bulb Cells. Plant Physiology, 1986, 82, 625-629.	2.3	19
66	Antioxidant enzyme responses of Kentucky bluegrass to simulated athletic traffic stress. Itsrj, 0, , .	0.1	0