

# Rajinder S Dhindsa

## List of Publications by Year in descending order

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41  
papers

6,942  
citations

257450

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docs citations

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times ranked

5461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leaf Senescence: Correlated with Increased Levels of Membrane Permeability and Lipid Peroxidation, and Decreased Levels of Superoxide Dismutase and Catalase. <i>Journal of Experimental Botany</i> , 1981, 32, 93-101.	4.8	3,264
2	Drought Tolerance in Two Mosses: Correlated with Enzymatic Defence Against Lipid Peroxidation. <i>Journal of Experimental Botany</i> , 1981, 32, 79-91.	4.8	541
3	Early steps in cold sensing by plant cells: the role of actin cytoskeleton and membrane fluidity. <i>Plant Journal</i> , 2000, 23, 785-794.	5.7	459
4	Opposite changes in membrane fluidity mimic cold and heat stress activation of distinct plant MAP kinase pathways. <i>Plant Journal</i> , 2002, 31, 629-638.	5.7	328
5	Cold-activation of <i>Brassica napus</i> BN115 promoter is mediated by structural changes in membranes and cytoskeleton, and requires Ca <sup>2+</sup> influx. <i>Plant Journal</i> , 2001, 27, 1-12.	5.7	225
6	Cloning, Characterization, and Expression of a cDNA Encoding a 50-Kilodalton Protein Specifically Induced by Cold Acclimation in Wheat. <i>Plant Physiology</i> , 1992, 99, 1381-1387.	4.8	218
7	Leaf senescence and lipid peroxidation: Effects of some phytohormones, and scavengers of free radicals and singlet oxygen. <i>Physiologia Plantarum</i> , 1982, 56, 453-457.	5.2	199
8	The induction of kin genes in cold-acclimating <i>Arabidopsis thaliana</i> . Evidence of a role for calcium. <i>Planta</i> , 1997, 203, 442-447.	3.2	176
9	Molecular Cloning and Relationship to Freezing Tolerance of Cold-Acclimation-Specific Genes of Alfalfa. <i>Plant Physiology</i> , 1989, 89, 375-380.	4.8	155
10	Drought Stress, Enzymes of Glutathione Metabolism, Oxidation Injury, and Protein Synthesis in <i>Tortula ruralis</i> . <i>Plant Physiology</i> , 1991, 95, 648-651.	4.8	138
11	Changes in Protein Patterns and Translatable Messenger RNA Populations during Cold Acclimation of Alfalfa. <i>Plant Physiology</i> , 1987, 84, 1172-1176.	4.8	136
12	Abscisic Acid-Regulated Gene Expression in Relation to Freezing Tolerance in Alfalfa. <i>Plant Physiology</i> , 1988, 87, 468-473.	4.8	136
13	Osmoregulation in Cotton Fiber. <i>Plant Physiology</i> , 1975, 56, 394-398.	4.8	123
14	A molecular marker to select for freezing tolerance in Gramineae. <i>Molecular Genetics and Genomics</i> , 1992, 234, 43-48.	2.4	121
15	Low temperature signal transduction during cold acclimation: protein phosphatase 2A as an early target for cold inactivation. <i>Plant Journal</i> , 1998, 13, 653-660.	5.7	121
16	Glutathione Status and Protein Synthesis during Drought and Subsequent Rehydration in <i>Tortula ruralis</i> . <i>Plant Physiology</i> , 1987, 83, 816-819.	4.8	74
17	A heat-activated MAP kinase (HAMK) as a mediator of heat shock response in tobacco cells. <i>Plant, Cell and Environment</i> , 2008, 31, 218-226.	5.7	65
18	Water Stress and Protein Synthesis. <i>Plant Physiology</i> , 1977, 59, 295-300.	4.8	63

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19	Non-autotrophic CO <sub>2</sub> Fixation during Shoot Formation in Tobacco Callus. <i>Journal of Experimental Botany</i> , 1979, 30, 759-767.	4.8	45
20	Cold Acclimation, Freezing Resistance and Protein Synthesis in Alfalfa ( <i>Medicago sativa</i> L. cv. Saranac). <i>Journal of Experimental Botany</i> , 1987, 38, 1697-1703.	4.8	40
21	In vivo and in vitro activation of temperature-responsive plant map kinases. <i>FEBS Letters</i> , 2002, 531, 561-564.	2.8	37
22	Low temperature perception in plants: effects of cold on protein phosphorylation in cell-free extracts. <i>FEBS Letters</i> , 1997, 410, 206-209.	2.8	33
23	Plant desiccation: polysome loss not due to ribonuclease. <i>Science</i> , 1976, 191, 181-182.	12.6	30
24	Inhibition of protein synthesis by products of lipid peroxidation. <i>Phytochemistry</i> , 1982, 21, 309-313.	2.9	26
25	SARS-CoV2 infectivity is potentially modulated by host redox status. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3705-3711.	4.1	25
26	Protein Synthesis during Rehydration of Rapidly Dried <i>Tortula ruralis</i> . <i>Plant Physiology</i> , 1987, 85, 1094-1098.	4.8	23
27	Altered Gene Expression during Auxin-Induced Root Development from Excised Mung Bean Seedlings. <i>Plant Physiology</i> , 1987, 84, 1148-1153.	4.8	20
28	Alterations in Membrane Protein-Profile during Cold Treatment of Alfalfa. <i>Plant Physiology</i> , 1988, 86, 1005-1007.	4.8	17
29	Hormonal regulation of enzymes of nonautotrophic CO <sub>2</sub> fixation in unfertilized cotton ovules. <i>Zeitschrift für Pflanzenphysiologie</i> , 1978, 89, 355-362.	1.4	15
30	Alfalfa Nuclei Contain Cold-Responsive Phosphoproteins and Accumulate Heat-Stable Proteins during Cold Treatment of Seedlings. <i>Plant and Cell Physiology</i> , 1996, 37, 1204-1210.	3.1	15
31	Hormonal regulation of cotton ovule and fiber growth: Effects of bromodeoxyuridine, AMO-1618 and p-chlorophenoxyisobutyric acid. <i>Planta</i> , 1978, 141, 269-272.	3.2	14
32	Low-Temperature Signal Transduction: Induction of Cold Acclimation-Specific Genes of Alfalfa by Calcium at 25 degrees C. <i>Plant Cell</i> , 1995, 7, 321.	6.6	13
33	Non-Autotrophic CO <sub>2</sub> Fixation and Drought Tolerance in Mosses. <i>Journal of Experimental Botany</i> , 1985, 36, 980-988.	4.8	12
34	Altered protein synthesis during in situ oat leaf senescence. <i>Physiologia Plantarum</i> , 1990, 80, 619-623.	5.2	11
35	Early Events During Low Temperature Signaling. , 2002, , 43-53.		10
36	Altered protein synthesis during in situ oat leaf senescence. <i>Physiologia Plantarum</i> , 1990, 80, 619-623.	5.2	5

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37	Rapid reduction by IAA of malondialdehyde levels in avena coleoptiles, a possible effect on lipid peroxidation. Biochemical and Biophysical Research Communications, 1984, 125, 76-81.	2.1	3
38	Low Temperature Signal Transduction During Cold Acclimation of Alfalfa. , 1997, , 15-28.		3
39	Low Temperature Signal Transduction, Gene Expression, And Cold Acclimation: Multiple Roles of Low Temperature. , 1994, , 501-514.		2
40	Phenol-Extracted Plant Proteins Can Be Renatured and Assayed in Gelfor Protein Kinase Activity. Analytical Biochemistry, 1998, 265, 183-185.	2.4	1
41	Signal Transduction and Gene Expression During Cold Acclimation of Alfalfa. , 2018, , 57-71.		0