

# Renu Deswal

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

1,220  
citations

17  
h-index

34  
g-index

66  
ext. papers

1,389  
ext. citations

3.8  
avg, IF

4.96  
L-index

#	Paper	IF	Citations
61	Differential modulation of S-nitrosoproteome of Brassica juncea by low temperature: change in S-nitrosylation of Rubisco is responsible for the inactivation of its carboxylase activity. <i>Proteomics</i> , <b>2009</b> , 9, 4368-80	4.8	153
60	The molecular biology of the low-temperature response in plants. <i>BioEssays</i> , <b>2005</b> , 27, 1048-59	4.1	123
59	S-nitrosylated proteins of a medicinal CAM plant Kalanchoe pinnata- ribulose-1,5-bisphosphate carboxylase/oxygenase activity targeted for inhibition. <i>FEBS Journal</i> , <b>2008</b> , 275, 2862-72	5.7	106
58	Low temperature stress modulated secretome analysis and purification of antifreeze protein from Hippophae rhamnoides, a Himalayan wonder plant. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 2684-96	5.6	66
57	RuBisCO depletion improved proteome coverage of cold responsive S-nitrosylated targets in Brassica juncea. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 342	6.2	58
56	S-nitrosylation analysis in Brassica juncea apoplast highlights the importance of nitric oxide in cold-stress signaling. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 2599-619	5.6	57
55	Ectopic overexpression of a salt stress-induced pathogenesis-related class 10 protein (PR10) gene from peanut (Arachis hypogaea L.) affords broad spectrum abiotic stress tolerance in transgenic tobacco. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2012</b> , 109, 19-31	2.7	53
54	The glyoxalase system in higher plants: regulation in growth and differentiation. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21, 527-30	5.1	49
53	Antifreeze proteins enable plants to survive in freezing conditions. <i>Journal of Biosciences</i> , <b>2014</b> , 39, 931-44	4.3	41
52	Nitric oxide-cold stress signalling cross-talk, evolution of a novel regulatory mechanism. <i>Proteomics</i> , <b>2013</b> , 13, 1816-35	4.8	41
51	Glyoxalase I from Brassica juncea is a calmodulin stimulated protein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1999</b> , 1450, 460-7	4.9	34
50	Downregulation of terpenoid indole alkaloid biosynthetic pathway by low temperature and cloning of a AP2 type C-repeat binding factor (CBF) from Catharanthus roseus (L). G. Don. <i>Plant Cell Reports</i> , <b>2007</b> , 26, 1869-78	5.1	33
49	Characterization and Functional Validation of Tobacco PLC Delta for Abiotic Stress Tolerance. <i>Plant Molecular Biology Reporter</i> , <b>2012</b> , 30, 488-497	1.7	29
48	Purification and partial characterization of glyoxalase I from a higher plant Brassica juncea. <i>FEBS Letters</i> , <b>1991</b> , 282, 277-80	3.8	28
47	Brassica juncea nitric oxide synthase like activity is stimulated by PKC activators and calcium suggesting modulation by PKC-like kinase. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 60, 157-64	5.4	22
46	Transgenic tobacco expressing Entamoeba histolytica calcium binding protein exhibits enhanced growth and tolerance to salt stress. <i>Plant Science</i> , <b>2002</b> , 162, 41-47	5.3	18
45	Green silver nanoparticles from novel Brassicaceae cultivars with enhanced antimicrobial potential than earlier reported Brassicaceae members. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2018</b> , 47, 1-11	4.1	17

44	Sub-proteome S-nitrosylation analysis in Brassica juncea hints at the regulation of Brassicaceae specific as well as other vital metabolic pathway(s) by nitric oxide and suggests post-translational modifications cross-talk. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2014</b> , 43, 97-111	5	17
43	S-Nitrosylation - another biological switch like phosphorylation?. <i>Physiology and Molecular Biology of Plants</i> , <b>2008</b> , 14, 119-30	2.8	17
42	A novel class I Chitinase from Hippophae rhamnoides: Indications for participating in ICE-CBF cold stress signaling pathway. <i>Plant Science</i> , <b>2017</b> , 259, 62-70	5.3	16
41	New evidences about strictosidine synthase (Str) regulation by salinity, cold stress and nitric oxide in Catharanthus roseus. <i>Journal of Plant Biochemistry and Biotechnology</i> , <b>2013</b> , 22, 124-131	1.6	16
40	Refolding of $\beta$ -stranded class I chitinases of Hippophae rhamnoides enhances the antifreeze activity during cold acclimation. <i>PLoS ONE</i> , <b>2014</b> , 9, e91723	3.7	16
39	Biochemical and immunochemical characterization of Brassica juncea glyoxalase I. <i>Phytochemistry</i> , <b>1998</b> , 49, 2245-53	4	16
38	Single pot synthesized gold nanoparticles using Hippophae rhamnoides leaf and berry extract showed shape-dependent differential nanobiotechnological applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2018</b> , 46, 408-418	6.1	15
37	Ectopic expression of PgRab7 in rice plants ( <i>Oryza sativa</i> L.) results in differential tolerance at the vegetative and seed setting stage during salinity and drought stress. <i>Protoplasma</i> , <b>2017</b> , 254, 109-124	3.4	14
36	Analysis of temporally evolved nanoparticle-protein corona highlighted the potential ability of gold nanoparticles to stably interact with proteins and influence the major biochemical pathways in Brassica juncea. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 146, 143-156	5.4	14
35	Single-step purification and characterization of antifreeze proteins from leaf and berry of a freeze-tolerant shrub seabuckthorn ( <i>Hippophae rhamnoides</i> ). <i>Journal of Separation Science</i> , <b>2018</b> , 41, 3938-3945	3.4	13
34	Two ICE isoforms showing differential transcriptional regulation by cold and hormones participate in Brassica juncea cold stress signaling. <i>Gene</i> , <b>2019</b> , 695, 32-41	3.8	11
33	Asada-Halliwell pathway maintains redox status in Dioscorea alata tuber which helps in germination. <i>Plant Science</i> , <b>2016</b> , 250, 20-29	5.3	11
32	Ecophysiological analysis of stress tolerant Himalayan shrub Hippophae rhamnoides shows multifactorial acclimation strategies induced by diverse environmental conditions. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 58-76	4.6	10
31	Boosting the globalization of plant proteomics through INPPO: current developments and future prospects. <i>Proteomics</i> , <b>2012</b> , 12, 359-68	4.8	9
30	Purification and characterization of a PMA-stimulated kinase and identification of PMA-induced phosphorylation of a polypeptide that is dephosphorylated by low temperature in Brassica juncea. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 322, 420-7	3.4	9
29	Identification and In Silico Analysis of Major Redox Modulated Proteins from Brassica juncea Seedlings Using 2D Redox SDS PAGE (2-Dimensional Diagonal Redox Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis). <i>Protein Journal</i> , <b>2017</b> , 36, 64-76	3.9	8
28	Nitric oxide modulates Lycopersicon esculentum C-repeat binding factor 1 (LeCBF1) transcriptionally as well as post-translationally by nitrosylation. <i>Plant Physiology and Biochemistry</i> , <b>2015</b> , 96, 115-23	5.4	8
27	Detection and characterization of calcineurin-like activity in Brassica juncea and its activation by low temperature. <i>Plant Physiology and Biochemistry</i> , <b>2004</b> , 42, 579-84	5.4	8

26	Stress inducible cytosolic ascorbate peroxidase (Ahcpx) from <i>Arachis hypogaea</i> cell lines confers salinity and drought stress tolerance in transgenic tobacco. <i>Nucleus (India)</i> , <b>2015</b> , 58, 3-13	1.7	7
25	Cold modulated nuclear S-nitrosoproteome analysis indicates redox modulation of novel Brassicaceae specific, myrosinase and napin in <i>Brassica juncea</i> . <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 312-333	5.9	7
24	Plant proteomics in India and Nepal: current status and challenges ahead. <i>Physiology and Molecular Biology of Plants</i> , <b>2013</b> , 19, 461-77	2.8	5
23	<i>Dioscorea alata</i> tuber proteome analysis shows over thirty dioscorin isoforms and novel tuber proteins. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 114, 128-137	5.4	4
22	Nitric Oxide Modulates the Expression of Proteins and Promotes Epiphyllous Bud Differentiation in <i>Kalanchoe pinnata</i> . <i>Journal of Plant Growth Regulation</i> , <b>2013</b> , 32, 92-101	4.7	4
21	Identification of immunodominant regions of <i>Brassica juncea</i> glyoxalase I as potential antitumor immunomodulation targets. <i>Peptides</i> , <b>2005</b> , 26, 395-404	3.8	4
20	Comparative fatty acid profiling of Indian seabuckthorn showed altitudinal gradient dependent species-specific variations. <i>Physiology and Molecular Biology of Plants</i> , <b>2020</b> , 26, 41-49	2.8	4
19	N-glycoproteome analysis: a small step towards sea buckthorn proteome mining. <i>Physiology and Molecular Biology of Plants</i> , <b>2016</b> , 22, 473-484	2.8	3
18	A novel protein kinase from <i>Brassica juncea</i> stimulated by a protozoan calcium binding protein. Purification and partial characterization. <i>FEBS Journal</i> , <b>2000</b> , 267, 3181-9		3
17	<i>Brassica juncea</i> leaf cuticle proteome analysis shows myrosinase protein, antifreeze activity, and post-translationally modified secretory proteins. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 161, 234-247	5.4	3
16	Plant RABs: Role in Development and in Abiotic and Biotic Stress Responses. <i>Current Genomics</i> , <b>2021</b> , 22, 26-40	2.6	3
15	Purification of dual-functioning chitinases with hydrolytic and antifreeze activities from <i>Hippophae rhamnoides</i> seedlings. <i>Journal of Proteins and Proteomics</i> , <b>2019</b> , 10, 69-81	1.8	3
14	Calcium Signaling: Downstream Components in Plants <b>2001</b> , 125-136		2
13	S-Nitrosylation in Abiotic Stress in Plants and Nitric Oxide Interaction with Plant Hormones <b>2017</b> , 399-411		1
12	CBF-Dependent Cold Stress Signaling Relevant Post Translational Modifications <b>2013</b> , 105-122		1
11	Posttranslational Modifications of Proteins by Nitric Oxide: A New Tool of Metabolome Regulation <b>189-201</b>		1
10	Antisense expression of a gene encoding a calcium-binding protein in transgenic tobacco leads to altered morphology and enhanced chlorophyll. <i>Journal of Biosciences</i> , <b>2007</b> , 32, 251-60	2.3	1
9	Comparative proteome profiling of seabuckthorn leaves from low altitude Bikkim and high altitude Himachal Pradesh-Himalayan region hints towards differential stress adaptive responses <i>Journal of Proteins and Proteomics</i> , <b>2021</b> , 12, 125	1.8	1

8	Dioscorea Alata Tuber Proteome Analysis Uncovers Differentially Regulated Growth-associated Pathways of Tuber Development. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 191-204	4.9	1
7	Current Scenario of NO (S-Nitrosylation) Signaling in Cold Stress <b>2018</b> , 329-338		0
6	Phytohormones Regulating the Master Regulators of CBF Dependent Cold Stress Signaling Pathway. <i>Sustainable Development and Biodiversity</i> , <b>2019</b> , 249-264	2.1	
5	INPPO Actions and Recognition as a Driving Force for Progress in Plant Proteomics: Change of Guard, INPPO Update, and Upcoming Activities. <i>Proteomics</i> , <b>2013</b> , 13, 3093-3100	4.8	
4	Nitric Oxide: A Tiny Decoder and Transmitter of Information <b>2019</b> , 311-322		
3	Dissecting Nitric Oxide Signalling in Nucleus: Role of S-Nitrosylation in Regulating Nuclear Proteins. <i>Signaling and Communication in Plants</i> , <b>2015</b> , 239-266		1
2	Nitric Oxide, S-Nitrosoproteome and Abiotic Stress Signaling in Plants <b>2011</b> , 133-142		
1	Proteomics Approach to Uncover Key Signalling Pathways in Brassica juncea in Abiotic and Biotic Stress. <i>Compendium of Plant Genomes</i> , <b>2022</b> , 337-347		0.8