

Renu Deswal

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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	Proteomics Approach to Uncover Key Signalling Pathways in Brassica juncea in Abiotic and Biotic Stress. <i>Compendium of Plant Genomes</i> , 2022 , 337-347	0.8	
60	Brassica juncea leaf cuticle proteome analysis shows myrosinase protein, antifreeze activity, and post-translationally modified secretory proteins. <i>Plant Physiology and Biochemistry</i> , 2021 , 161, 234-247	5.4	3
59	Plant RABs: Role in Development and in Abiotic and Biotic Stress Responses. <i>Current Genomics</i> , 2021 , 22, 26-40	2.6	3
58	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> , 2021 , 12, 125	1.8	1
57	Dioscorea Alata Tuber Proteome Analysis Uncovers Differentially Regulated Growth-associated Pathways of Tuber Development. <i>Plant and Cell Physiology</i> , 2021 , 62, 191-204	4.9	1
56	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> , 2020 , 146, 143-156	5.4	14
55	Ecophysiological analysis of stress tolerant Himalayan shrub Hippophae rhamnoides shows multifactorial acclimation strategies induced by diverse environmental conditions. <i>Physiologia Plantarum</i> , 2020 , 168, 58-76	4.6	10
54	Comparative fatty acid profiling of Indian seabuckthorn showed altitudinal gradient dependent species-specific variations. <i>Physiology and Molecular Biology of Plants</i> , 2020 , 26, 41-49	2.8	4
53	Two ICE isoforms showing differential transcriptional regulation by cold and hormones participate in Brassica juncea cold stress signaling. <i>Gene</i> , 2019 , 695, 32-41	3.8	11
52	Phytohormones Regulating the Master Regulators of CBF Dependent Cold Stress Signaling Pathway. <i>Sustainable Development and Biodiversity</i> , 2019 , 249-264	2.1	
51	Nitric Oxide: A Tiny Decoder and Transmitter of Information 2019 , 311-322		
50	Purification of dual-functioning chitinases with hydrolytic and antifreeze activities from Hippophae rhamnoides seedlings. <i>Journal of Proteins and Proteomics</i> , 2019 , 10, 69-81	1.8	3
49	Cold modulated nuclear S-nitrosoproteome analysis indicates redox modulation of novel Brassicaceae specific, myrosinase and napin in Brassica juncea. <i>Environmental and Experimental Botany</i> , 2019 , 161, 312-333	5.9	7
48	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> , 2018 , 46, 408-418	6.1	15
47	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> , 2018 , 47, 1-11	4.1	17
46	Single-step purification and characterization of antifreeze proteins from leaf and berry of a freeze-tolerant shrub seabuckthorn (Hippophae rhamnoides). <i>Journal of Separation Science</i> , 2018 , 41, 3938-3945	3.4	13
45	Current Scenario of NO (S-Nitrosylation) Signaling in Cold Stress 2018 , 329-338		0

44	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> , 2017 , 254, 109-124	3.4	14
43	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> , 2017 , 36, 64-76	3.9	8
42	Dioscorea alata tuber proteome analysis shows over thirty dioscorin isoforms and novel tuber proteins. <i>Plant Physiology and Biochemistry</i> , 2017 , 114, 128-137	5.4	4
41	S-Nitrosylation in Abiotic Stress in Plants and Nitric Oxide Interaction with Plant Hormones 2017 , 399-411		1
40	A novel class I Chitinase from Hippophae rhamnoides: Indications for participating in ICE-CBF cold stress signaling pathway. <i>Plant Science</i> , 2017 , 259, 62-70	5.3	16
39	N-glycoproteome analysis: a small step towards sea buckthorn proteome mining. <i>Physiology and Molecular Biology of Plants</i> , 2016 , 22, 473-484	2.8	3
38	Asada-Halliwell pathway maintains redox status in Dioscorea alata tuber which helps in germination. <i>Plant Science</i> , 2016 , 250, 20-29	5.3	11
37	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> , 2015 , 96, 115-23	5.4	8
36	Stress inducible cytosolic ascorbate peroxidase (Ahcapx) from Arachis hypogaea cell lines confers salinity and drought stress tolerance in transgenic tobacco. <i>Nucleus (India)</i> , 2015 , 58, 3-13	1.7	7
35	Dissecting Nitric Oxide Signalling in Nucleus: Role of S-Nitrosylation in Regulating Nuclear Proteins. <i>Signaling and Communication in Plants</i> , 2015 , 239-266	1	
34	S-nitrosylation analysis in Brassica juncea apoplast highlights the importance of nitric oxide in cold-stress signaling. <i>Journal of Proteome Research</i> , 2014 , 13, 2599-619	5.6	57
33	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> , 2014 , 43, 97-111	5	17
32	Refolding of Estranded class I chitinases of Hippophae rhamnoides enhances the antifreeze activity during cold acclimation. <i>PLoS ONE</i> , 2014 , 9, e91723	3.7	16
31	Antifreeze proteins enable plants to survive in freezing conditions. <i>Journal of Biosciences</i> , 2014 , 39, 931-44		41
30	Plant proteomics in India and Nepal: current status and challenges ahead. <i>Physiology and Molecular Biology of Plants</i> , 2013 , 19, 461-77	2.8	5
29	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> , 2013 , 22, 124-131	1.6	16
28	Nitric Oxide Modulates the Expression of Proteins and Promotes Epiphyllous Bud Differentiation in Kalanchoe pinnata. <i>Journal of Plant Growth Regulation</i> , 2013 , 32, 92-101	4.7	4
27	Nitric oxide-cold stress signalling cross-talk, evolution of a novel regulatory mechanism. <i>Proteomics</i> , 2013 , 13, 1816-35	4.8	41

26	CBF-Dependent Cold Stress Signaling Relevant Post Translational Modifications 2013 , 105-122		1
25	RuBisCO depletion improved proteome coverage of cold responsive S-nitrosylated targets in Brassica juncea. <i>Frontiers in Plant Science</i> , 2013 , 4, 342	6.2	58
24	INPPO Actions and Recognition as a Driving Force for Progress in Plant Proteomics: Change of Guard, INPPO Update, and Upcoming Activities. <i>Proteomics</i> , 2013 , 13, 3093-3100	4.8	
23	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> , 2012 , 60, 157-64	5.4	22
22	Boosting the globalization of plant proteomics through INPPO: current developments and future prospects. <i>Proteomics</i> , 2012 , 12, 359-68	4.8	9
21	Low temperature stress modulated secretome analysis and purification of antifreeze protein from Hippophae rhamnoides, a Himalayan wonder plant. <i>Journal of Proteome Research</i> , 2012 , 11, 2684-96	5.6	66
20	Characterization and Functional Validation of Tobacco PLC Delta for Abiotic Stress Tolerance. <i>Plant Molecular Biology Reporter</i> , 2012 , 30, 488-497	1.7	29
19	Ectopic overexpression of a salt stress-induced pathogenesis-related class 10 protein (PR10) gene from peanut (<i>Arachis hypogaea</i> L.) affords broad spectrum abiotic stress tolerance in transgenic tobacco. <i>Plant Cell, Tissue and Organ Culture</i> , 2012 , 109, 19-31	2.7	53
18	Nitric Oxide, S-Nitrosoproteome and Abiotic Stress Signaling in Plants 2011 , 133-142		
17	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> , 2009 , 9, 4368-80	4.8	153
16	S-Nitrosylation - another biological switch like phosphorylation?. <i>Physiology and Molecular Biology of Plants</i> , 2008 , 14, 119-30	2.8	17
15	S-nitrosylated proteins of a medicinal CAM plant <i>Kalanchoe pinnata</i> - ribulose-1,5-bisphosphate carboxylase/oxygenase activity targeted for inhibition. <i>FEBS Journal</i> , 2008 , 275, 2862-72	5.7	106
14	Downregulation of terpenoid indole alkaloid biosynthetic pathway by low temperature and cloning of a AP2 type C-repeat binding factor (CBF) from <i>Catharanthus roseus</i> (L). G. Don. <i>Plant Cell Reports</i> , 2007 , 26, 1869-78	5.1	33
13	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> , 2007 , 32, 251-60	2.3	1
12	Identification of immunodominant regions of Brassica juncea glyoxalase I as potential antitumor immunomodulation targets. <i>Peptides</i> , 2005 , 26, 395-404	3.8	4
11	The molecular biology of the low-temperature response in plants. <i>BioEssays</i> , 2005 , 27, 1048-59	4.1	123
10	Detection and characterization of calcineurin-like activity in Brassica juncea and its activation by low temperature. <i>Plant Physiology and Biochemistry</i> , 2004 , 42, 579-84	5.4	8
9	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> , 2004 , 322, 420-7	3.4	9

8	Transgenic tobacco expressing <i>Entamoeba histolytica</i> calcium binding protein exhibits enhanced growth and tolerance to salt stress. <i>Plant Science</i> , 2002 , 162, 41-47	5.3	18
7	Calcium Signaling: Downstream Components in Plants 2001 , 125-136		2
6	A novel protein kinase from <i>Brassica juncea</i> stimulated by a protozoan calcium binding protein. Purification and partial characterization. <i>FEBS Journal</i> , 2000 , 267, 3181-9		3
5	Glyoxalase I from <i>Brassica juncea</i> is a calmodulin stimulated protein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1999 , 1450, 460-7	4.9	34
4	Biochemical and immunochemical characterization of <i>Brassica juncea</i> glyoxalase I. <i>Phytochemistry</i> , 1998 , 49, 2245-53	4	16
3	The glyoxalase system in higher plants: regulation in growth and differentiation. <i>Biochemical Society Transactions</i> , 1993 , 21, 527-30	5.1	49
2	Purification and partial characterization of glyoxalase I from a higher plant <i>Brassica juncea</i> . <i>FEBS Letters</i> , 1991 , 282, 277-80	3.8	28
1	Posttranslational Modifications of Proteins by Nitric Oxide: A New Tool of Metabolome Regulation 189-201		1