Renu Deswal

List of Publications by Year
in descending order

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61 papers	1,551 citations	361045 20 h-index	315357 38 g-index
66 all docs	66 docs citations	66 times ranked	1763 citing authors

#	Article	IF	Citations
1	Proteomics Approach to Uncover Key Signalling Pathways in Brassica juncea in Abiotic and Biotic Stress. Compendium of Plant Genomes, 2022, , 337-347.	0.3	1
2	Dioscorea Alata Tuber Proteome Analysis Uncovers Differentially Regulated Growth-associated Pathways of Tuber Development. Plant and Cell Physiology, 2021, 62, 191-204.	1.5	5
3	Brassica juncea leaf cuticle proteome analysis shows myrosinase protein, antifreeze activity, and post-translationally modified secretory proteins. Plant Physiology and Biochemistry, 2021, 161, 234-247.	2.8	12
4	Plant RABs: Role in Development and in Abiotic and Biotic Stress Responses. Current Genomics, 2021, 22, 26-40.	0.7	16
5	â€œComparative proteome profiling of seabuckthorn leaves from low altitude â€˜Sikkimâ€™ and high altitude â€˜Himachal Pradeshâ€™ Himalayan region hints towards differential stress adaptive responsesâ€• Journal of Proteins and Proteomics, 2021, 12, 125.	1.0	1
6	Ecophysiolomic analysis of stress tolerant Himalayan shrub Hipppophae rhamnoides shows multifactorial acclimation strategies induced by diverse environmental conditions. Physiologia Plantarum, 2020, 168, 58-76.	2.6	12
7	Comparative fatty acid profiling of Indian seabuckthorn showed altitudinal gradient dependent species-specific variations. Physiology and Molecular Biology of Plants, 2020, 26, 41-49.	1.4	7
8	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. Plant Physiology and Biochemistry, 2020, 146, 143-156.	2.8	23
9	Phytohormones Regulating the Master Regulators of CBF Dependent Cold Stress Signaling Pathway. Sustainable Development and Biodiversity, 2019, , 249-264.	1.4	1
10	Two ICE isoforms showing differential transcriptional regulation by cold and hormones participate in Brassica juncea cold stress signaling. Gene, 2019, 695, 32-41.	1.0	18
11	Purification of dual-functioning chitinases with hydrolytic and antifreeze activities from Hippophae rhamnoides seedlings. Journal of Proteins and Proteomics, 2019, 10, 69-81.	1.0	5
12	Cold modulated nuclear S-nitrosoproteome analysis indicates redox modulation of novel Brassicaceae specific, myrosinase and napin in Brassica juncea. Environmental and Experimental Botany, 2019, 161, 312-333.	2.0	15
13	Nitric Oxide: A Tiny Decoder and Transmitter of Information. , 2019, , 311-322.		0
14	Single pot synthesized gold nanoparticles using Hippophae rhamnoides leaf and berry extract showed shape-dependent differential nanobiotechnological applications. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 408-418.	1.9	19
15	Green silver nanoparticles from novel Brassicaceae cultivars with enhanced antimicrobial potential than earlier reported Brassicaceae members. Journal of Trace Elements in Medicine and Biology, 2018, 47, 1-11.	1.5	24
16	Singleâ€step purification and characterization of antifreeze proteins from leaf and berry of a freezeâ€tolerant shrub seabuckthorn (Hippophae rhamnoides). Journal of Separation Science, 2018, 41, 3938-3945.	1.3	16
17	Current Scenario of NO (S-Nitrosylation) Signaling in Cold Stress. , 2018, , 329-338.		1
18	Ectopic expression of PgRab7 in rice plants (Oryza sativa L.) results in differential tolerance at the vegetative and seed setting stage during salinity and drought stress. Protoplasma, 2017, 254, 109-124.	1.0	29

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19	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) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
20	Dioscorea alata tuber proteome analysis shows over thirty dioscorin isoforms and novel tuber proteins. Plant Physiology and Biochemistry, 2017, 114, 128-137.	2.8	10
21	A novel class I Chitinase from Hippophae rhamnoides: Indications for participating in ICE-CBF cold stress signaling pathway. Plant Science, 2017, 259, 62-70.	1.7	26
22	Hippophae rhamnoides N-glycoproteome analysis: a small step towards sea buckthorn proteome mining. Physiology and Molecular Biology of Plants, 2016, 22, 473-484.	1.4	6
23	Asada-Halliwell pathway maintains redox status in Dioscorea alata tuber which helps in germination. Plant Science, 2016, 250, 20-29.	1.7	18
24	Plant-based Foods: Seed, Nutrition and Human Health. Proteomics, 2015, 15, 1638-1638.	1.3	2
25	Nitric oxide modulates Lycopersicon esculentum C-repeat binding factor 1 (LeCBF1) transcriptionally as well as post-translationally by nitrosylation. Plant Physiology and Biochemistry, 2015, 96, 115-123.	2.8	11
26	Stress inducible cytosolic ascorbate peroxidase (Ahcapx) from Arachis hypogaea cell lines confers salinity and drought stress tolerance in transgenic tobacco. Nucleus (India), 2015, 58, 3-13.	0.9	7
27	Dissecting Nitric Oxide Signalling in Nucleus: Role of S-Nitrosylation in Regulating Nuclear Proteins. Signaling and Communication in Plants, 2015, , 239-266.	0.5	0
28	Refolding of Î²-Stranded Class I Chitinases of Hippophae rhamnoides Enhances the Antifreeze Activity during Cold Acclimation. PLoS ONE, 2014, 9, e91723.	1.1	18
29	Antifreeze proteins enable plants to survive in freezing conditions. Journal of Biosciences, 2014, 39, 931-944.	0.5	62
30	S-Nitrosylation Analysis in Brassica juncea Apoplast Highlights the Importance of Nitric Oxide in Cold-Stress Signaling. Journal of Proteome Research, 2014, 13, 2599-2619.	1.8	81
31	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. Nitric Oxide - Biology and Chemistry, 2014, 43, 97-111.	1.2	19
32	Plant proteomics in India and Nepal: current status and challenges ahead. Physiology and Molecular Biology of Plants, 2013, 19, 461-477.	1.4	7
33	New evidences about strictosidine synthase (Str) regulation by salinity, cold stress and nitric oxide in Catharanthus roseus. Journal of Plant Biochemistry and Biotechnology, 2013, 22, 124-131.	0.9	21
34	Nitric Oxide Modulates the Expression of Proteins and Promotes Epiphyllous Bud Differentiation in Kalanchoe pinnata. Journal of Plant Growth Regulation, 2013, 32, 92-101.	2.8	5
35	Nitric oxide-cold stress signalling cross-talk, evolution of a novel regulatory mechanism. Proteomics, 2013, 13, 1816-1835.	1.3	46
36	CBF-Dependent Cold Stress Signaling Relevant Post Translational Modifications. , 2013, , 105-122.		1

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37	RuBisCO depletion improved proteome coverage of cold responsive S-nitrosylated targets in Brassica juncea. Frontiers in Plant Science, 2013, 4, 342.	1.7	70
38	INPPO Actions and Recognition as a Driving Force for Progress in Plant Proteomics: Change of Guard, INPPO Update, and Upcoming Activities. Proteomics, 2013, 13, 3093-3100.	1.3	0
39	Brassica juncea nitric oxide synthase like activity is stimulated by PKC activators and calcium suggesting modulation by PKC-like kinase. Plant Physiology and Biochemistry, 2012, 60, 157-164.	2.8	23
40	Boosting the Globalization of Plant Proteomics through INPPO: Current Developments and Future Prospects. Proteomics, 2012, 12, 359-368.	1.3	10
41	Low Temperature Stress Modulated Secretome Analysis and Purification of Antifreeze Protein from Hippophae rhamnoides, a Himalayan Wonder Plant. Journal of Proteome Research, 2012, 11, 2684-2696.	1.8	82
42	Characterization and Functional Validation of Tobacco PLC Delta for Abiotic Stress Tolerance. Plant Molecular Biology Reporter, 2012, 30, 488-497.	1.0	39
43	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. Plant Cell, Tissue and Organ Culture, 2012, 109, 19-31.	1.2	60
44	Nitric Oxide, S-Nitrosoproteome and Abiotic Stress Signaling in Plants. , 2011, , 133-142.		0
45	Differential modulation of Sâ€nitrosoproteome of Brassica juncea by low temperature: Change in Sâ€nitrosylation of Rubisco is responsible for the inactivation of its carboxylase activity. Proteomics, 2009, 9, 4368-4380.	1.3	184
46	S-Nitrosylation â€" another biological switch like phosphorylation?. Physiology and Molecular Biology of Plants, 2008, 14, 119-130.	1.4	20
47	Sâ€nitrosylated proteins of a medicinal CAM plant Kalanchoeâ€ƒpinnataâ€" ribuloseâ€1,5â€bisphosphate carboxylase/oxygenase activity targeted for inhibition. FEBS Journal, 2008, 275, 2862-2872.	2.2	118
48	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. Plant Cell Reports, 2007, 26, 1869-1878.	2.8	42
49	Antisense expression of a gene encoding a calcium-binding protein in transgenic tobacco leads to altered morphology and enhanced chlorophyll. Journal of Biosciences, 2007, 32, 251-260.	0.5	4
50	The molecular biology of the low-temperature response in plants. BioEssays, 2005, 27, 1048-1059.	1.2	148
51	Identification of immunodominant regions of Brassica juncea glyoxalase I as potential antitumor immunomodulation targets. Peptides, 2005, 26, 395-404.	1.2	5
52	Detection and characterization of calcineurin-like activity in Brassica juncea and its activation by low temperature. Plant Physiology and Biochemistry, 2004, 42, 579-584.	2.8	9
53	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. Biochemical and Biophysical Research Communications, 2004, 322, 420-427.	1.0	9
54	Transgenic tobacco expressing Entamoeba histolytica calcium binding protein exhibits enhanced growth and tolerance to salt stress. Plant Science, 2002, 162, 41-47.	1.7	22

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55	Calcium Signaling: Downstream Components in Plants. , 2001, , 125-136.		2
56	A novel protein kinase from Brassicaâ€ƒjuncea stimulated by a protozoan calcium binding protein. FEBS Journal, 2000, 267, 3181-3189.	0.2	3
57	Glyoxalase I from Brassica juncea is a calmodulin stimulated protein. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1450, 460-467.	1.9	40
58	Biochemical and immunochemical characterization of Brassica juncea glyoxalase I. Phytochemistry, 1998, 49, 2245-2253.	1.4	17
59	The glyoxalase system in higher plants: Regulation in growth and differentiation. Biochemical Society Transactions, 1993, 21, 527-530.	1.6	53
60	Purification and partial characterization of glyoxalase I from a higher plantBrassica juncea. FEBS Letters, 1991, 282, 277-280.	1.3	30
61	Posttranslational Modifications of Proteins by Nitric Oxide: A New Tool of Metabolome Regulation. , 0, , 189-201.		1