Sarvajeet S. Gill

List of Publications by Year
in descending order

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107	15,566	101543	79698
papers	citations	36 h-index	73 g-index

254	254	254	15198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arbuscular Mycorrhizal Fungi in Conferring Tolerance to Biotic Stresses in Plants. Journal of Plant Growth Regulation, 2022, 41, 1429-1444.	5.1	51
2	Translational and post-translational regulation of polyamine metabolic enzymes in plants. Journal of Biotechnology, 2022, 344, 1-10.	3.8	5
3	Editorial: Recent Insights Into the Double Role of Hydrogen Peroxide in Plants. Frontiers in Plant Science, 2022, 13, 843274.	3.6	10
4	Comprehensive genomic insight deciphers significance of EF-hand gene family in foxtail millet [Setaria italica (L.) P. Beauv.]. South African Journal of Botany, 2022, 148, 652-665.	2.5	6
5	Balancing reactive oxygen species generation by rebooting gut microbiota. Journal of Applied Microbiology, 2022, 132, 4112-4129.	3.1	26
6	Marker-Free Rice (Oryza sativa L. cv. IR 64) Overexpressing PDH45 Gene Confers Salinity Tolerance by Maintaining Photosynthesis and Antioxidant Machinery. Antioxidants, 2022, 11, 770.	5.1	3
7	Unraveling the importance of EF-hand-mediated calcium signaling in plants. South African Journal of Botany, 2022, 148, 615-633.	2.5	13
8	Abscisic acid signaling and crosstalk with phytohormones in regulation of environmental stress responses. Environmental and Experimental Botany, 2022, 199, 104885.	4.2	40
9	Understanding the role of miRNAs for improvement of tea quality and stress tolerance. Journal of Biotechnology, 2021, 328, 34-46.	3.8	12
10	Comparative genomic analysis reveals evolutionary and structural attributes of MCM gene family in Arabidopsis thaliana and Oryza sativa. Journal of Biotechnology, 2021, 327, 117-132.	3.8	2
11	Genome wide identification and characterization of abiotic stress responsive lncRNAs in Capsicum annuum. Plant Physiology and Biochemistry, 2021, 162, 221-236.	5.8	39
12	Identification and functional analysis of drought responsive lncRNAs in tea plant. Plant Gene, 2021, 27, 100311.	2.3	15
13	Plant-microbe interactions for the sustainable agriculture and food security. Plant Gene, 2021, 28, 100325.	2.3	29
14	Molecular consequences of cadmium toxicity and its regulatory networks in plants. Plant Gene, 2021, 28, 100342.	2.3	13
15	The multifaceted histone chaperone RbAp46/48 in Plasmodium falciparum: structural insights, production, and characterization. Parasitology Research, 2020, 119, 1753-1765.	1.6	1
16	Jasmonic acid and methyl jasmonate modulate growth, photosynthetic activity and expression of photosystem II subunit genes in Brassica oleracea L. Scientific Reports, 2020, 10, 9322.	3.3	57
17	The microbial symbionts: Potential for crop improvement in changing environments. , 2020, , 233-240.		19
18	Reactive oxygen species (ROS) management in engineered plants for abiotic stress tolerance. , 2020, , 241-262.		5

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19	Unraveling CAF-1 family in Plasmodium falciparum: comparative genome-wide identification and phylogenetic analysis among eukaryotes, expression profiling and proteinâ€“protein interaction studies. 3 Biotech, 2020, 10, 143.	2.2	1
20	Phytoremediation of contaminated waters: An eco-friendly technology based on aquatic macrophytes application. Egyptian Journal of Aquatic Research, 2020, 46, 371-376.	2.2	117
21	Unraveling the multifaceted histone chaperone RbAp46/48 in Plasmodium falciparum. International Journal of Infectious Diseases, 2020, 101, 423.	3.3	0
22	Deciphering the chromatin modifier SET domain family in human malarial parasite Plasmodium falciparum. International Journal of Infectious Diseases, 2020, 101, 431.	3.3	0
23	Oxidative Stress Biomarkers and Antioxidant Defense in Plants Exposed to Metallic Nanoparticles. , 2019, , 427-439.		2
24	Integration of Abscisic Acid Signaling with Other Signaling Pathways in Plant Stress Responses and Development. Plants, 2019, 8, 592.	3.5	79
25	Genome-wide analysis and transcriptional expression pattern-assessment of superoxide dismutase (SOD) in rice and Arabidopsis under abiotic stresses. Plant Gene, 2019, 17, 100165.	2.3	34
26	Role of Plant Helicases in Imparting Salinity Stress Tolerance to Plants. , 2019, , 39-52.		4
27	Comparative genome-wide analysis, expression profiling and interaction networks of different Zn finger families in Plasmodium falciparum provide new insights. International Journal of Infectious Diseases, 2018, 73, 94.	3.3	0
28	Down-regulation of arginine decarboxylase gene-expression results in reactive oxygen species accumulation in Arabidopsis. Biochemical and Biophysical Research Communications, 2018, 506, 1071-1077.	2.1	6
29	Editorial: The Brassicaceaeâ€"Agri-Horticultural and Environmental Perspectives. Frontiers in Plant Science, 2018, 9, 1141.	3.6	1
30	Plant-Microbe Interaction and Genome Sequencing: An Evolutionary Insight. , 2018, , 427-449.		0
31	Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops. , 2018, , 151-220.		19
32	Current Understanding of the Role of Jasmonic Acid during Photoinhibition in Plants. , 2018, , 311-327.		0
33	Protective Role of Indoleamines (Serotonin and Melatonin) During Abiotic Stress in Plants. , 2018, , 221-228.		1
34	Isolation, cloning, and characterization of a cuticle collagen gene, Mi-col-5, in Meloidogyne incognita. 3 Biotech, 2017, 7, 64.	2.2	6
35	Role of small RNAs in abiotic stress responses in plants. Plant Gene, 2017, 11, 180-189.	2.3	28
36	Regulatory Role of Mineral Nutrients in Nurturing of Medicinal Legumes Under Salt Stress. , 2017, , 309-334.		7

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37	Hydrogen Peroxide Pretreatment Mitigates Cadmium-Induced Oxidative Stress in Brassica napus L.: An Intrinsic Study on Antioxidant Defense and Glyoxalase Systems. Frontiers in Plant Science, 2017, 8, 115.	3.6	114
38	Simultaneous Expression of PDH45 with EPSPS Gene Improves Salinity and Herbicide Tolerance in Transgenic Tobacco Plants. Frontiers in Plant Science, 2017, 8, 364.	3.6	10
39	RNA Interference: A Novel Source of Resistance to Combat Plant Parasitic Nematodes. Frontiers in Plant Science, 2017, 8, 834.	3.6	68
40	Gel-Based Purification and Biochemical Study of Laccase Isozymes from Ganoderma sp. and Its Role in Enhanced Cotton Callogenesis. Frontiers in Microbiology, 2017, 8, 674.	3.5	33
41	Host Delivered RNAi of Two Cuticle Collagen Genes, Mi-col-1 and Lemmi-5 Hampers Structure and Fecundity in Meloidogyne incognita. Frontiers in Plant Science, 2017, 8, 2266.	3.6	8
42	Non-biological Approaches for Enhancing the Cleanup of Environmental Pollutants: An Introduction. , 2017, , 1-4.		0
43	Piriformospora indica: Potential and Significance in Plant Stress Tolerance. Frontiers in Microbiology, 2016, 7, 332.	3.5	272
44	Reactive Oxygen Species Generation-Scavenging and Signaling during Plant-Arbuscular Mycorrhizal and Piriformospora indica Interaction under Stress Condition. Frontiers in Plant Science, 2016, 7, 1574.	3.6	133
45	In-silico analysis of Chromatin Assembly Factor 1 (CAF-1) family and production of PF3D7_0110700 protein in human malaria parasite Plasmodium falciparum. International Journal of Infectious Diseases, 2016, 45, 362-363.	3.3	0
46	Molecular cloning and production of type III Hsp40 protein co-chaperone PfZRF1 of human malaria parasite Plasmodium falciparum. International Journal of Infectious Diseases, 2016, 45, 355.	3.3	0
47	Genome wide collation of zinc finger family in P. falciparum. International Journal of Infectious Diseases, 2016, 45, 360-361.	3.3	2
48	Intellectual Property Management and Rights, Climate Change, and Food Security. , 2016, , 89-106.		0
49	Catalase and ascorbate peroxidaseâ€"representative H2O2-detoxifying heme enzymes in plants. Environmental Science and Pollution Research, 2016, 23, 19002-19029.	5.3	248
50			1
51	Cyclophilin: A Versatile Chaperone of Biological System. Biochemistry & Molecular Biology Journal, 2015, 01, .	0.3	0
52	Genome-Wide Collation of the Plasmodium falciparum WDR Protein Superfamily Reveals Malarial Parasite-Specific Features. PLoS ONE, 2015, 10, e0128507.	2.5	9
53	Jacks of metal/metalloid chelation trade in plantsÃ¢â‚¬â€an overview. Frontiers in Plant Science, 2015, 6, 192.	3.6	148
54	ATP-sulfurylase, sulfur-compounds, and plant stress tolerance. Frontiers in Plant Science, 2015, 6, 210.	3.6	145

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55	Emerging Importance of Helicases in Plant Stress Tolerance: Characterization of Oryza sativa Repair Helicase XPB2 Promoter and Its Functional Validation in Tobacco under Multiple Stresses. Frontiers in Plant Science, 2015, 6, 1094.	3.6	22
56	DNA Damage and Repair in Plants under Ultraviolet and Ionizing Radiations. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	102
57	Phytoremediation. , 2015, , .		16
58	Abiotic Stress Tolerance and Sustainable Agriculture: A Functional Genomics Perspective. , 2015, , 439-472.		4
59	Phytoremediation of Eutrophic Waters. , 2015, , 41-50.		3
60	Superoxide dismutaseâ€"mentor of abiotic stress tolerance in crop plants. Environmental Science and Pollution Research, 2015, 22, 10375-10394.	5.3	247
61	Modulatory role of jasmonic acid on photosynthetic pigments, antioxidants and stress markers of Glycine maxÂL. under nickel stress. Physiology and Molecular Biology of Plants, 2015, 21, 559-565.	3.1	54
62	Lipids and proteinsâ€"major targets of oxidative modifications in abiotic stressed plants. Environmental Science and Pollution Research, 2015, 22, 4099-4121.	5.3	252
63	Phytoremediation. , 2015, , .		9
64	Synergistic Exposure of Rice Seeds to Different Doses of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi mathvariant="bold-italic">Î³</mml:mi></mml:mrow></mml:math>-Ray and Salinity Stress Resulted in Increased Antioxidant Enzyme Activities and Gene-Specific Modulation of TC-NER Pathway. BioMed Research International, 2014, 2014, 1-15.	1.9	55
65	Genetic engineering of crops: a ray of hope for enhanced food security. Plant Signaling and Behavior, 2014, 9, e28545.	2.4	19
66	Metal/metalloid stress tolerance in plants: role of ascorbate, its redox couple, and associated enzymes. Protoplasma, 2014, 251, 1265-1283.	2.1	121
67	Eutrophication: Causes, Consequences and Control. , 2014, , .		42
68	OsACA6, a P-type 2B Ca2+ ATPase functions in cadmium stress tolerance in tobacco by reducing the oxidative stress load. Planta, 2014, 240, 809-824.	3.2	33
69	Salt Marsh Halophyte Services to Metalâ€"Metalloid Remediation: Assessment of the Processes and Underlying Mechanisms. Critical Reviews in Environmental Science and Technology, 2014, 44, 2038-2106.	12.8	58
70	Pea p68, a DEAD-Box Helicase, Provides Salinity Stress Tolerance in Transgenic Tobacco by Reducing Oxidative Stress and Improving Photosynthesis Machinery. PLoS ONE, 2014, 9, e98287.	2.5	65
71	Piriformospora Indica a Powerful Tool for Crop Improvement. Proceedings of the Indian National Science Academy, 2014, 80, 317.	1.4	20
72	Silver nanoparticles in soilâ€"plant systems. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	144

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73	Plant Acclimation to Environmental Stress. , 2013, , .		13
74	Crop Improvement Under Adverse Conditions. , 2013, , .		12
75	Glutathione and glutathione reductase: A boon in disguise for plant abiotic stress defense operations. Plant Physiology and Biochemistry, 2013, 70, 204-212.	5.8	404
76	A critical review on fungi mediated plant responses with special emphasis to Piriformospora indica on improved production and protection of crops. Plant Physiology and Biochemistry, 2013, 70, 403-410.	5.8	94
77	Climate Change and Abiotic Stress Management in India. , 2013, , 57-78.		2
78	Nanobiotechnology: Scope and Potential for Crop Improvement. , 2013, , 245-269.		15
79	A DESD-box helicase functions in salinity stress tolerance by improving photosynthesis and antioxidant machinery in rice (Oryza sativa L. cv. PB1). Plant Molecular Biology, 2013, 82, 1-22.	3.9	79
80	Mechanism of Cadmium Toxicity and Tolerance in Crop Plants. , 2013, , 361-385.		4
81	Physiological Role of Nitric Oxide in Plants Grown Under Adverse Environmental Conditions. , 2013, , 269-322.		54
82	Importance of nitric oxide in cadmium stress tolerance in crop plants. Plant Physiology and Biochemistry, 2013, 63, 254-261.	5.8	228
83	Genome-wide analysis of glutathione reductase (GR) genes from rice and Arabidopsis. Plant Signaling and Behavior, 2013, 8, e23021.	2.4	54
84	Plant Stress and Biotechnology. BioMed Research International, 2013, 2013, 1-2.	1.9	2
85	Pea DNA helicase 45 promotes salinity stress tolerance in IR64 rice with improved yield. Plant Signaling and Behavior, 2012, 7, 1042-1046.	2.4	40
86	microRNAs as promising tools for improving stress tolerance in rice. Plant Signaling and Behavior, 2012, 7, 1296-1301.	2.4	36
87	Cadmium at high dose perturbs growth, photosynthesis and nitrogen metabolism while at low dose it up regulates sulfur assimilation and antioxidant machinery in garden cress (Lepidium sativum L.). Plant Science, 2012, 182, 112-120.	3.6	293
88	Impact of salinity-tolerant MCM6 transgenic tobacco on soil enzymatic activities and the functional diversity of rhizosphere microbial communities. Research in Microbiology, 2012, 163, 511-517.	2.1	16
89	Improving Growth and Productivity of Oleiferous Brassicas under Changing Environment: Significance of Nitrogen and Sulphur Nutrition, and Underlying Mechanisms. Scientific World Journal, The, 2012, 2012, 1-12.	2.1	53
90	Metal Hyperaccumulation and Tolerance in Alyssum, Arabidopsis and Thlaspi: An Overview. Environmental Pollution, 2012, , 99-137.	0.4	7

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91	Eutrophication: causes, consequences and control. , 2011, , .		78
92	Cadmium stress tolerance in crop plants. Plant Signaling and Behavior, 2011, 6, 215-222.	2.4	311
93	A single subunit MCM6 from pea promotes salinity stress tolerance without affecting yield. Plant Molecular Biology, 2011, 76, 19-34.	3.9	75
94	Unraveling the role of fungal symbionts in plant abiotic stress tolerance. Plant Signaling and Behavior, 2011, 6, 175-191.	2.4	343
95	Differential cadmium stress tolerance in five Indian mustard (Brassica junceaL.) cultivars. Plant Signaling and Behavior, 2011, 6, 293-300.	2.4	124
96	Plant Responses to Abiotic Stresses: Shedding Light on Salt, Drought, Cold and Heavy Metal Stress. , 2011, , 39-64.		25
97	Reactive oxygen species and antioxidant machinery in abiotic stress tolerance in crop plants. Plant Physiology and Biochemistry, 2010, 48, 909-930.	5.8	8,238
98	Polyamines and abiotic stress tolerance in plants. Plant Signaling and Behavior, 2010, 5, 26-33.	2.4	606
99	Aquatic Plant Diversity in Eutrophic Ecosystems. , 2010, , 247-263.		5
100	Eutrophication: Threat to Aquatic Ecosystems. , 2010, , 143-170.		20
101	Photosynthetic Traits and Activities of Antioxidant Enzymes in Blackgram (Vigna mungo L. Hepper) Under Cadmium Stress. American Journal of Plant Physiology, 2009, 5, 31-38.	0.2	0
102	Effects of timing of defoliation on nitrogen assimilation and associated changes in ethylene biosynthesis in mustard (Brassica juncea). Biologia (Poland), 2008, 63, 207-210.	1.5	4
103	The application of ethephon (an ethylene releaser) increases growth, photosynthesis and nitrogen accumulation in mustard (Brassica juncea L.) under high nitrogen levels. Plant Biology, 2008, 10, 534-538.	3.8	78
104	Cadmium effects on carbonic anhydrase, photosynthesis, dry mass and antioxidative enzymes in wheat (Triticum aestivum) under low and sufficient zinc. Journal of Plant Interactions, 2008, 3, 31-37.	2.1	21
105	Activities of Antioxidative Enzymes, Sulphur Assimilation, Photosynthetic Activity and Growth of Wheat (Triticum aestivum) Cultivars Differing in Yield Potential Under Cadmium Stress. Journal of Agronomy and Crop Science, 2007, 193, 435-444.	3.5	192
106	Photosynthetic Traits and Activities of Antioxidant Enzymes in Blackgram (Vigna mungo L. Hepper) Under Cadmium Stress. American Journal of Plant Physiology, 2007, 3, 25-32.	0.2	79
107	In vitro regeneration and plant establishment of Tylophora indica (Burm. F.) Merrill: Petiole callus culture. In Vitro Cellular and Developmental Biology - Plant, 2005, 41, 511-515.	2.1	29