Arun Kumar Shanker

List of Publications by Year
in descending order

43 papers	3,496 citations	430874 18 h-index	414414 32 g-index
57 all docs	57 docs citations	57 times ranked	4283 citing authors

#	Article	IF	Citations
1	Chromium toxicity in plants. Environment International, 2005, 31, 739-753.	10.0	1,546
2	Selenium â€“ an antioxidative protectant in soybean during senescence. Plant and Soil, 2005, 272, 77-86.	3.7	338
3	Differential antioxidative response of ascorbate glutathione pathway enzymes and metabolites to chromium speciation stress in green gram ((L.) R.Wilczek. cv CO 4) roots. Plant Science, 2004, 166, 1035-1043.	3.6	259
4	Drought stress responses in crops. Functional and Integrative Genomics, 2014, 14, 11-22.	3.5	181
5	Genetic associations, variability and diversity in seed characters, growth, reproductive phenology and yield in Jatropha curcas (L.) accessions. Trees - Structure and Function, 2008, 22, 697-709.	1.9	156
6	Osmotic adjustment, drought tolerance and yield in castor (Ricinus communis L.) hybrids. Environmental and Experimental Botany, 2010, 69, 243-249.	4.2	127
7	Chromium interactions in plants: current status and future strategies. Metallomics, 2009, 1, 375.	2.4	102
8	Impact of conservation agriculture practices on energy use efficiency and global warming potential in rainfed pigeonpeaâ€“castor systems. European Journal of Agronomy, 2015, 66, 30-40.	4.1	93
9	Rice can acclimate to lethal level of salinity by pretreatment with sublethal level of salinity through osmotic adjustment. Plant and Soil, 2006, 284, 363-373.	3.7	85
10	Abiotic Stress in Plants - Mechanisms and Adaptations. , 2011, , .		62
11	Net global warming potential and greenhouse gas intensity of conventional and conservation agriculture system in rainfed semi arid tropics of India. Atmospheric Environment, 2016, 145, 239-250.	4.1	56
12	Speciation dependant antioxidative response in roots and leaves of sorghum (Sorghum bicolor (L.)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.7	54
13	Countering UV-B Stress in Plants: Does Selenium have a Role?. Plant and Soil, 2006, 282, 21-26.	3.7	40
14	Phytoaccumulation of chromium by some multipurpose-tree seedlings. Agroforestry Systems, 2005, 64, 83-87.	2.0	37
15	Crop Stress and its Management: Perspectives and Strategies. , 2012, , .		32
16	Optimization of Agrobacterium mediated genetic transformation of cotyledonary node explants of Vigna radiata. SpringerPlus, 2012, 1, 59.	1.2	29
17	Identification of environment friendly tillage implement as a strategy for energy efficiency and mitigation of climate change in semiarid rainfed agro ecosystems. Journal of Cleaner Production, 2019, 214, 524-535.	9.3	27
18	Abiotic Stress Response in Plants - Physiological, Biochemical and Genetic Perspectives. , 2011, , .		23

#	Article	IF	Citations
19	Continuous cropping under elevated CO2: Differential effects on C4 and C3 crops, soil properties and carbon dynamics in semi-arid alfisols. Agriculture, Ecosystems and Environment, 2016, 218, 73-86.	5.3	22
20	Chlorophyll fluorescence induction kinetics and yield responses in rainfed crops with variable potassium nutrition in K deficient semi-arid alfisols. Journal of Photochemistry and Photobiology B: Biology, 2016, 160, 86-95.	3.8	20
21	Nitrogen Nutrition in Crops and ItsÂImportance in Crop Quality. , 2017, , 175-186.		20
22	Diversity and variability in seed characters and growth of Pongamia pinnata (L.) Pierre accessions. Trees - Structure and Function, 2011, 25, 725-734.	1.9	19
23	Dryland Agriculture: Bringing Resilience to Crop Production Under Changing Climate. , 2012, , 19-44.		16
24	Genotypic Variation in Physiological Traits Under High Temperature Stress in Maize. Agricultural Research, 2016, 5, 119-126.	1.7	15
25	Microclimate modifications, growth and yield of intercrops underHardwickia binataRoxb. based agroforestry system. Archives of Agronomy and Soil Science, 2005, 51, 281-291.	2.6	13
26	Whole-genome sequence analysis and homology modelling of the main protease and non-structural protein 3 of SARS-CoV-2 reveal an aza-peptide and a lead inhibitor with possible antiviral properties. New Journal of Chemistry, 2020, 44, 9202-9212.	2.8	13
27	Effect of open air drying, LPG based drier and pretreatments on the quality of Indian gooseberry (aonla). Journal of Food Science and Technology, 2010, 47, 541-548.	2.8	12
28	Overview of Plant Stresses: Mechanisms, Adaptations and Research Pursuit. , 2012, , 1-18.		11
29	Epigenetics and transgenerational memory in plants under heat stress. Plant Physiology Reports, 2020, 25, 583-593.	1.5	11
30	Predicting Irrigated and Rainfed Rice Yield Under Projected Climate Change Scenarios in the Eastern Region of India. Environmental Modeling and Assessment, 2016, 21, 17-30.	2.2	10
31	RNA-seq Analysis of Irrigated vs. Water Stressed Transcriptomes of Zea mays Cultivar Z59. Frontiers in Plant Science, 2016, 7, 239.	3.6	9
32	Chromium: Environmental Pollution, Health Effects and Mode of Action. , 2019, , 624-633.		9
33	Small RNA and drought tolerance in crop plants. Indian Journal of Plant Physiology, 2017, 22, 422-433.	0.8	8
34	In silico targeted genome mining and comparative modelling reveals a putative protein similar to an Arabidopsis drought tolerance DNA binding transcription factor in Chromosome 6 of Sorghum bicolor genome. Interdisciplinary Sciences, Computational Life Sciences, 2012, 4, 133-141.	3.6	6
35	Resource capture and tree-crop interaction inAlbizia procera-based agroforestry system. Archives of Agronomy and Soil Science, 2005, 51, 51-68.	2.6	4
36	Tolerance mechanisms in maize identified through phenotyping and transcriptome analysis in response to water deficit stress. Physiology and Molecular Biology of Plants, 2021, 27, 1377-1394.	3.1	3

#	Article	IF	Citations
37	Water Stress Responsive Differential Methylation of Organellar Genomes of <i>Zea mays</i> Z59. American Journal of Plant Sciences, 2020, 11, 1077-1100.	0.8	3
38	Molecular and in Silico Characterization of Achaea janata Granulovirus Granulin Gene. Interdisciplinary Sciences, Computational Life Sciences, 2017, 9, 528-539.	3.6	2
39	Seasonal variation in expression pattern of genes in irrigated and water stressed transcriptomes of Zea mays Z59. Journal of Plant Biochemistry and Biotechnology, 2019, 28, 271-279.	1.7	1
40	Chloroplast evolution and genome manipulation. , 2022, , 411-440.		1
41	SEASONAL CHANGES IN NITRATE REDUCTASE ACTIVITY AND TOTAL N INALBIZIA AMARABOIVIN. Forests, Trees and Livelihoods, 1999, 10, 101-105.	0.2	0
42	Developments in Management of Abiotic Stresses in Dryland Agriculture. , 2017, , 121-151.		0
43	DNA methylation in plants and its role in abiotic stress tolerance. , 2022, , 539-564.		0