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	DNA methylation in plants and its role in abiotic stress tolerance. , 2022, , 539-564.		0
2	Chloroplast evolution and genome manipulation. , 2022, , 411-440.		1
3	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
4	Epigenetics and transgenerational memory in plants under heat stress. Plant Physiology Reports, 2020, 25, 583-593.	1.5	11
5	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
6	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
7	Chromium: Environmental Pollution, Health Effects and Mode of Action. , 2019, , 624-633.		9
8	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
9	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
10	Molecular and in Silico Characterization of Achaea janata Granulovirus Granulin Gene. Interdisciplinary Sciences, Computational Life Sciences, 2017, 9, 528-539.	3.6	2
11	Developments in Management of Abiotic Stresses in Dryland Agriculture. , 2017, , 121-151.		0
12	Small RNA and drought tolerance in crop plants. Indian Journal of Plant Physiology, 2017, 22, 422-433.	0.8	8
13	Nitrogen Nutrition in Crops and ItsÂImportance in Crop Quality. , 2017, , 175-186.		20
14	RNA-seq Analysis of Irrigated vs. Water Stressed Transcriptomes of Zea mays Cultivar Z59. Frontiers in Plant Science, 2016, 7, 239.	3.6	9
15	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
16	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
17	Genotypic Variation in Physiological Traits Under High Temperature Stress in Maize. Agricultural Research, 2016, 5, 119-126.	1.7	15
18	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

#	Article	IF	Citations
19	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
20	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
21	Drought stress responses in crops. Functional and Integrative Genomics, 2014, 14, 11-22.	3.5	181
22	Overview of Plant Stresses: Mechanisms, Adaptations and Research Pursuit. , 2012, , 1-18.		11
23	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
24	Optimization of Agrobacterium mediated genetic transformation of cotyledonary node explants of Vigna radiata. SpringerPlus, 2012, 1, 59.	1.2	29
25	Crop Stress and its Management: Perspectives and Strategies. , 2012, , .		32
26	Dryland Agriculture: Bringing Resilience to Crop Production Under Changing Climate. , 2012, , 19-44.		16
27	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
28	Abiotic Stress Response in Plants - Physiological, Biochemical and Genetic Perspectives. , 2011, , .		23
29	Abiotic Stress in Plants - Mechanisms and Adaptations. , 2011, , .		62
30	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
31	Osmotic adjustment, drought tolerance and yield in castor (Ricinus communis L.) hybrids. Environmental and Experimental Botany, 2010, 69, 243-249.	4.2	127
32	Chromium interactions in plants: current status and future strategies. Metallomics, 2009, 1, 375.	2.4	102
33	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
34	Countering UV-B Stress in Plants: Does Selenium have a Role?. Plant and Soil, 2006, 282, 21-26.	3.7	40
35	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
36	Phytoaccumulation of chromium by some multipurpose-tree seedlings. Agroforestry Systems, 2005, 64, 83-87.	2.0	37

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37	Selenium â€“ an antioxidative protectant in soybean during senescence. Plant and Soil, 2005, 272, 77-86.	3.7	338
38	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
39	Resource capture and tree-crop interaction inAlbizia procera-based agroforestry system. Archives of Agronomy and Soil Science, 2005, 51, 51-68.	2.6	4
40	Chromium toxicity in plants. Environment International, 2005, 31, 739-753.	10.0	1,546
41	Speciation dependant antioxidative response in roots and leaves of sorghum (Sorghum bicolor (L.)) Tj ETQq1 1 0.784314 rgBT /Overlo	3.7	54
42	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
43	SEASONAL CHANGES IN NITRATE REDUCTASE ACTIVITY AND TOTAL N INALBIZIA AMARABOIVIN. Forests, Trees and Livelihoods, 1999, 10, 101-105.	0.2	0