

# Arun Kumar Shanker

## List of Publications by Year in descending order

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43  
papers

3,496  
citations

489802

18  
h-index

466096

32  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4808  
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. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 1377-1394.	1.4	3
4	Epigenetics and transgenerational memory in plants under heat stress. <i>Plant Physiology Reports</i> , 2020, 25, 583-593.	0.7	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. <i>New Journal of Chemistry</i> , 2020, 44, 9202-9212.	1.4	13
6	Water Stress Responsive Differential Methylation of Organellar Genomes of &lt;i>Zea mays&/i> Z59. <i>American Journal of Plant Sciences</i> , 2020, 11, 1077-1100.	0.3	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. <i>Journal of Cleaner Production</i> , 2019, 214, 524-535.	4.6	27
9	Seasonal variation in expression pattern of genes in irrigated and water stressed transcriptomes of <i>Zea mays</i> Z59. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2019, 28, 271-279.	0.9	1
10	Molecular and in Silico Characterization of <i>Achaea janata</i> Granulovirus Granulin Gene. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2017, 9, 528-539.	2.2	2
11	Developments in Management of Abiotic Stresses in Dryland Agriculture. , 2017, , 121-151.		0
12	Small RNA and drought tolerance in crop plants. <i>Indian Journal of Plant Physiology</i> , 2017, 22, 422-433.	0.8	8
13	Nitrogen Nutrition in Crops and Its Importance in Crop Quality. , 2017, , 175-186.		20
14	RNA-seq Analysis of Irrigated vs. Water Stressed Transcriptomes of <i>Zea mays</i> Cultivar Z59. <i>Frontiers in Plant Science</i> , 2016, 7, 239.	1.7	9
15	Chlorophyll fluorescence induction kinetics and yield responses in rainfed crops with variable potassium nutrition in K deficient semi-arid alfisols. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 86-95.	1.7	20
16	Net global warming potential and greenhouse gas intensity of conventional and conservation agriculture system in rainfed semi arid tropics of India. <i>Atmospheric Environment</i> , 2016, 145, 239-250.	1.9	56
17	Genotypic Variation in Physiological Traits Under High Temperature Stress in Maize. <i>Agricultural Research</i> , 2016, 5, 119-126.	0.9	15
18	Continuous cropping under elevated CO <sub>2</sub> : Differential effects on C <sub>4</sub> and C <sub>3</sub> crops, soil properties and carbon dynamics in semi-arid alfisols. <i>Agriculture, Ecosystems and Environment</i> , 2016, 218, 73-86.	2.5	22

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19	Predicting Irrigated and Rainfed Rice Yield Under Projected Climate Change Scenarios in the Eastern Region of India. <i>Environmental Modeling and Assessment</i> , 2016, 21, 17-30.	1.2	10
20	Impact of conservation agriculture practices on energy use efficiency and global warming potential in rainfed pigeonpea-castor systems. <i>European Journal of Agronomy</i> , 2015, 66, 30-40.	1.9	93
21	Drought stress responses in crops. <i>Functional and Integrative Genomics</i> , 2014, 14, 11-22.	1.4	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. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2012, 4, 133-141.	2.2	6
24	Optimization of Agrobacterium mediated genetic transformation of cotyledonary node explants of <i>Vigna radiata</i> . <i>SpringerPlus</i> , 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 <i>Pongamia pinnata</i> (L.) Pierre accessions. <i>Trees - Structure and Function</i> , 2011, 25, 725-734.	0.9	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). <i>Journal of Food Science and Technology</i> , 2010, 47, 541-548.	1.4	12
31	Osmotic adjustment, drought tolerance and yield in castor ( <i>Ricinus communis</i> L.) hybrids. <i>Environmental and Experimental Botany</i> , 2010, 69, 243-249.	2.0	127
32	Chromium interactions in plants: current status and future strategies. <i>Metallomics</i> , 2009, 1, 375.	1.0	102
33	Genetic associations, variability and diversity in seed characters, growth, reproductive phenology and yield in <i>Jatropha curcas</i> (L.) accessions. <i>Trees - Structure and Function</i> , 2008, 22, 697-709.	0.9	156
34	Countering UV-B Stress in Plants: Does Selenium have a Role?. <i>Plant and Soil</i> , 2006, 282, 21-26.	1.8	40
35	Rice can acclimate to lethal level of salinity by pretreatment with sublethal level of salinity through osmotic adjustment. <i>Plant and Soil</i> , 2006, 284, 363-373.	1.8	85
36	Phytoaccumulation of chromium by some multipurpose-tree seedlings. <i>Agroforestry Systems</i> , 2005, 64, 83-87.	0.9	37

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37	Selenium " an antioxidative protectant in soybean during senescence. Plant and Soil, 2005, 272, 77-86.	1.8	338
38	Microclimate modifications, growth and yield of intercrops underHardwickia binataRoxb. based agroforestry system. Archives of Agronomy and Soil Science, 2005, 51, 281-291.	1.3	13
39	Resource capture and tree-crop interaction inAlbizia procera-based agroforestry system. Archives of Agronomy and Soil Science, 2005, 51, 51-68.	1.3	4
40	Chromium toxicity in plants. Environment International, 2005, 31, 739-753.	4.8	1,546
41	Speciation dependant antioxidative response in roots and leaves of sorghum (Sorghum bicolor (L.) Tj ETQq1 1 0.784314 rgBT/Overlo	1.8	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.	1.7	259
43	SEASONAL CHANGES IN NITRATE REDUCTASE ACTIVITY AND TOTAL N INALBIZIA AMARABOIVIN. Forests, Trees and Livelihoods, 1999, 10, 101-105.	0.2	0