

Prashant Kumar Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,212

citations

18

h-index

33

g-index

86

ext. papers

1,532

ext. citations

3.3

avg, IF

4.94

L-index

#	Paper	IF	Citations
82	Microbial antagonists in postharvest management of fruit 2022 , 333-346		0
81	Synthetic biology tools: Engineering microbes for biotechnological applications 2022 , 369-398		
80	Cyanobacterial availability for CRISPR-based genome editing: Current and future challenges 2022 , 231-252		
79	Cyanobacteria as biostimulants in the paddy fields 2022 , 281-306		1
78	Cyanobacterial photosynthetic reaction center in wobbly light: Modulation of light energy by orange carotenoid proteins (OCPs) 2022 , 41-60		
77	Tailoring Disease Resilience Crops through CRISPR/Cas 2022 , 187-209		
76	Biochar-based fertilizers and their applications in plant growth promotion and protection. <i>3 Biotech</i> , 2022 , 12,	2.8	0
75	A Comparative Analysis of Transmission Efficiency of Polyamide 66 Spur Gears Meshing with Similar and Dissimilar Gear Material. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 291-297	0.4	
74	Chemical profiling, in vitro antioxidant, membrane stabilizing and antimicrobial properties of wild growing <i>Murraya paniculata</i> from Amarkantak (M.P.). <i>Scientific Reports</i> , 2021 , 11, 9691	4.9	3
73	Sustainability in supply networks: finding the most influential green interventions using interpretive structural modeling technique. <i>International Journal of Sustainable Engineering</i> , 2021 , 14, 293-303	3.1	1
72	Ionospheric and atmospheric perturbations due to two major earthquakes ($M > 7.0$). <i>Journal of Earth System Science</i> , 2021 , 130, 1	1.8	0
71	Evaluation of ethnopharmacologically selected <i>Vitex negundo</i> L. for In vitro antimalarial activity and secondary metabolite profiling. <i>Journal of Ethnopharmacology</i> , 2021 , 275, 114076	5	2
70	Optimizing the performance parameters of injection-molded polymer spur gears. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 717-727	1.3	1
69	Physiological, biochemical, and morphological approaches to mitigate the effects of abiotic stress in plants 2021 , 193-212		
68	Transcription factors: a tool box for countering the effect of abiotic stresses 2021 , 169-192		1
67	Seaweeds: Potential Candidates in Human Colon Cancer Therapy 2021 , 269-301		0
66	Iron homeostasis in plants and its crosstalk with copper, zinc, and manganese. <i>Plant Stress</i> , 2021 , 1, 100008		11

65	Understanding the priorities of designers for an ecodesign support during environmentally sustainable product development. <i>World Journal of Science Technology and Sustainable Development</i> , 2021 , 18, 76-92	1.3	
64	Contrasting processing tomato cultivars unlink yield and pollen viability under heat stress. <i>AoB PLANTS</i> , 2021 , 13, plab046	2.9	0
63	Advancement in bioinformatics and microarray-based technologies for genome sequence analysis and its application in bioremediation of soil and water pollutants 2021 , 209-225		
62	Epigenetics in horticultural crops: consequences and applications in abiotic stress tolerance 2021 , 75-90		
61	A Three-Phase Quality Function Deployment Approach for Conceptualizing a Sustainable Product Life Cycle: Case Study of a Blower Heater. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 869-879	0.5	
60	Identifying and Analyzing the Factors Affecting Disassembly of Products in Remanufacturing Organizations. <i>Procedia CIRP</i> , 2021 , 98, 312-317	1.8	
59	Cyanobacterial genome editing toolboxes: recent advancement and future projections for basic and synthetic biology researches 2020 , 129-149		1
58	Impacts of agrochemicals on soil microbiology and food quality 2020 , 101-116		9
57	Impact of pesticides applications on the growth and function of cyanobacteria 2020 , 151-162		3
56	Cyanobacterial peroxiredoxins and their role in cyanobacterial stress biology 2020 , 249-268		
55	Comparative acetylome analysis of wild-type and fuzzless-lintless mutant ovules of upland cotton (<i>Gossypium hirsutum</i> Cv. Xu142) unveils differential protein acetylation may regulate fiber development. <i>Plant Physiology and Biochemistry</i> , 2020 , 150, 56-70	5.4	5
54	GIS Mapping of Antimalarial Plants Based on Traditional Knowledge in Pushparajgarh Division, District Anuppur, Madhya Pradesh, India. <i>Journal of Herbs, Spices and Medicinal Plants</i> , 2020 , 26, 356-378 ^{0.9}		3
53	Microbes Biology: Microbes in Wetland and Bioprospection of Microbes 2020 , 87-99		0
52	Improvement of Crop Stress Tolerance by Gene Editing CRISPR/CAS9 System 2020 , 557-587		3
51	Molecular Insight of Plant Pathogen Interaction 2020 , 481-511		
50	Nitrogen Deprivation in <i>Fremyella diplosiphon</i> Augments Lipid Production without Affecting Growth. <i>Energies</i> , 2020 , 13, 5769	3.1	2
49	A hybrid multi-criteria decision approach to analyze key factors affecting sustainability in supply chain networks of manufacturing organizations. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 1871-1889	4.3	8
48	CRISPR/Cas9 edited of offers ABA and osmotic stress insensitivity by modulation of ROS homeostasis. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1816321	2.5	9

47	Cyanobacteria: potential and role for environmental remediation 2020 , 193-202		4
46	Plant growth promoting rhizobacteria and their functional role in salinity stress management 2020 , 151-160		7
45	A framework based on fuzzy Delphi and DEMATEL for sustainable product development: A case of Indian automotive industry. <i>Journal of Cleaner Production</i> , 2020 , 246, 118991	10.3	37
44	A framework based on fuzzy AHP-TOPSIS for prioritizing solutions to overcome the barriers in the implementation of ecodesign practices in SMEs. <i>International Journal of Sustainable Development and World Ecology</i> , 2019 , 26, 506-521	3.8	28
43	Eco-design Approaches for Developing Eco-friendly Products: A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 185-192	0.4	3
42	A Comparative Study for Transmission Efficiency of ABS, POM, and HDPE Spur Gears. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 269-277	0.4	3
41	Overview of Insecticidal Genes Used in Crop Improvement Program 2019 , 19-53		
40	Alr2321, a multiple stress inducible glyoxalase I of <i>Anabaena</i> sp. PCC7120 detoxifies methylglyoxal and reactive species oxygen. <i>Aquatic Toxicology</i> , 2019 , 214, 105238	5.1	7
39	Cyanobacteria as a source of nanoparticles and their applications 2019 , 183-198		1
38	Biosynthesized Nanoparticles and Its Implications in Agriculture 2019 , 257-274		8
37	Transmission Efficiency of Functionally Graded Material Based HDPE Spur Gears. <i>Materials Today: Proceedings</i> , 2019 , 18, 4893-4900	1.4	
36	Calcium-dependent protein kinases in cotton: insights into early plant responses to salt stress. <i>BMC Plant Biology</i> , 2018 , 18, 15	5.3	54
35	Repercussion of manufacturing techniques on mechanical and wear peculiarity of zno particulate-filled polyester composites. <i>Polymer Composites</i> , 2018 , 39, 654-667	3	6
34	Evaluation of Mechanical and Erosive wear Characteristics of TiO ₂ and ZnO Filled Bi-Directional E-glass Fiber Based Vinyl Ester Composites. <i>Silicon</i> , 2018 , 10, 309-327	2.4	16
33	Polymer spur gears behaviors under different loading conditions: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018 , 232, 210-228	1.4	36
32	An investigation on the thermal and wear behavior of polymer based spur gears. <i>Tribology International</i> , 2018 , 118, 264-272	4.9	41
31	Cadmium-mediated morphological, biochemical and physiological tuning in three different <i>Anabaena</i> species. <i>Aquatic Toxicology</i> , 2018 , 202, 36-45	5.1	30
30	A Membrane-Bound NAC-Like Transcription Factor OsNTL5 Represses the Flowering in. <i>Frontiers in Plant Science</i> , 2018 , 9, 555	6.2	42

29	Cyanobacterial Biodiversity and Biotechnology: A Promising Approach for Crop Improvement 2018 , 195-219	1
28	Decoding the role of hypothetical protein All3255 of Anabaena PCC7120 in heavy metal stress management in Escherichia coli. <i>Archives of Microbiology</i> , 2018 , 200, 463-471	3 2
27	Noise Emission from ABS, POM and HDPE Spur Gears - A Comparative Study. <i>Materials Today: Proceedings</i> , 2018 , 5, 18038-18044	1.4 4
26	Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in Pisum sativum seedlings. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 167-177	5.4 228
25	An investigation on the effects of the various techniques over the performance and durability of polymer gears. <i>Materials Today: Proceedings</i> , 2017 , 4, 1606-1614	1.4 12
24	Differential phytotoxic responses of silver nitrate (AgNO ₃) and silver nanoparticle (AgNps) in Cucumis sativus L.. <i>Plant Gene</i> , 2017 , 11, 255-264	3.1 58
23	Alr2954 of Anabaena sp. PCC 7120 with ADP-ribose pyrophosphatase activity bestows abiotic stress tolerance in Escherichia coli. <i>Functional and Integrative Genomics</i> , 2017 , 17, 39-52	3.8 4
22	Ectodomain of plasmodesmata-localized protein 5 in Arabidopsis: expression, purification, crystallization and crystallographic analysis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017 , 73, 532-535	1.1 2
21	Genome Editing in Cotton with the CRISPR/Cas9 System. <i>Frontiers in Plant Science</i> , 2017 , 8, 1364	6.2 115
20	S-Nanoparticle/SDS: an efficient and recyclable catalytic system for synthesis of substituted 4H-pyrido[1,2-a]pyrimidines in aqueous admicellar medium. <i>RSC Advances</i> , 2016 , 6, 73924-73932	3.7 11
19	Europium activated gadolinium sulfide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 108523-108529	3.7 1
18	Comparative proteomics of wild type, An+ahpC and An Δ ahpC strains of Anabaena sp. PCC7120 demonstrates AhpC mediated augmentation of photosynthesis, N ₂ -fixation and modulation of regulatory network of antioxidative proteins. <i>Journal of Proteomics</i> , 2016 , 140, 81-99	3.9 10
17	Immunological evaluation of an rsmD-like rRNA methyltransferase from Wolbachia endosymbiont of Brugia malayi. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , 2016 , 44, 41-7	2.6
16	ZnO nanoparticle β -cyclodextrin: a recyclable heterogeneous catalyst for the synthesis of 3-aryl-4H-benzo[1,4]thiazin-2-amine in water. <i>New Journal of Chemistry</i> , 2016 , 40, 6819-6824	3.6 12
15	Role of initial cell density of algal bioassay of toxic chemicals. <i>Journal of Basic Microbiology</i> , 2016 , 56, 812-9	2.7 7
14	Overexpression of AhpC enhances stress tolerance and N ₂ -fixation in Anabaena by upregulating stress responsive genes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 2576-2588	4 9
13	Cadmium toxicity in diazotrophic Anabaena spp. adjudged by hasty up-accumulation of transporter and signaling and severe down-accumulation of nitrogen metabolism proteins. <i>Journal of Proteomics</i> , 2015 , 127, 134-46	3.9 38
12	A novel alkyl hydroperoxidase (AhpD) of Anabaena PCC7120 confers abiotic stress tolerance in Escherichia coli. <i>Functional and Integrative Genomics</i> , 2015 , 15, 77-92	3.8 9

11	UV-B stress induced metabolic rearrangements explored with comparative proteomics in three <i>Anabaena</i> species. <i>Journal of Proteomics</i> , 2015 , 127, 122-33	3.9	39
10	Cooperative behavior of the nuclear receptor superfamily and its deregulation in prostate cancer. <i>Carcinogenesis</i> , 2014 , 35, 262-71	4.6	18
9	Comparative proteomics unveils cross species variations in <i>Anabaena</i> under salt stress. <i>Journal of Proteomics</i> , 2014 , 98, 254-70	3.9	68
8	Comparative proteomics reveals association of early accumulated proteins in conferring butachlor tolerance in three N(2)-fixing <i>Anabaena</i> spp. <i>Journal of Proteomics</i> , 2014 , 96, 271-90	3.9	55
7	A new arsenate reductase involved in arsenic detoxification in <i>Anabaena</i> sp. PCC7120. <i>Functional and Integrative Genomics</i> , 2013 , 13, 43-55	3.8	22
6	alr0882 encoding a hypothetical protein of <i>Anabaena</i> PCC7120 protects <i>Escherichia coli</i> from nutrient starvation and abiotic stresses. <i>Gene</i> , 2012 , 511, 248-55	3.8	14
5	Macroscopic transport of mega-ampere electron currents in aligned carbon-nanotube arrays. <i>Physical Review Letters</i> , 2012 , 108, 235005	7.4	34
4	Highly Stabilized Monodispersed Citric Acid Capped ZnO:Cu^{2+} Nanoparticles: Synthesis and Characterization for Their Applications in White Light Generation From UV LEDs. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 163-169	2.6	19
3	Serodiagnostic efficacy of <i>Mycobacterium tuberculosis</i> 30/32-kDa mycolyl transferase complex, ESAT-6, and CFP-10 in patients with active tuberculosis. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2010 , 58, 57-65	4	30
2	A Multi-Criteria Decision Approach to Select Contract Manufacturer for Sustainable Development of Automotive Products: an Integrated Framework. <i>Process Integration and Optimization for Sustainability</i> , 1	2	0
1	Larvicidal activity of green synthesized zinc oxide nanoparticles from <i>Carica papaya</i> leaf extract. <i>Inorganic and Nano-Metal Chemistry</i> , 1-11	1.2	0