

Prashant Kumar Singh

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,866
citations

331642

21
h-index

276858

41
g-index

86
all docs

86
docs citations

86
times ranked

2060
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nitric oxide alleviates silver nanoparticles (AgNps)-induced phytotoxicity in <i>Pisum sativum</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2017, 110, 167-177. | 5.8 | 291 |
| 2 | Genome Editing in Cotton with the CRISPR/Cas9 System. <i>Frontiers in Plant Science</i> , 2017, 8, 1364. | 3.6 | 183 |
| 3 | Iron homeostasis in plants and its crosstalk with copper, zinc, and manganese. <i>Plant Stress</i> , 2021, 1, 100008. | 5.5 | 100 |
| 4 | A Membrane-Bound NAC-Like Transcription Factor OsNLT5 Represses the Flowering in <i>Oryza sativa</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 555. | 3.6 | 77 |
| 5 | Comparative proteomics unveils cross species variations in <i>Anabaena</i> under salt stress. <i>Journal of Proteomics</i> , 2014, 98, 254-270. | 2.4 | 76 |
| 6 | An investigation on the thermal and wear behavior of polymer based spur gears. <i>Tribology International</i> , 2018, 118, 264-272. | 5.9 | 76 |
| 7 | 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. | 9.3 | 76 |
| 8 | Differential phytotoxic responses of silver nitrate (AgNO ₃) and silver nanoparticle (AgNps) in <i>Cucumis sativus</i> L.. <i>Plant Gene</i> , 2017, 11, 255-264. | 2.3 | 74 |
| 9 | Calcium-dependent protein kinases in cotton: insights into early plant responses to salt stress. <i>BMC Plant Biology</i> , 2018, 18, 15. | 3.6 | 69 |
| 10 | 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, 271-290. | 2.4 | 64 |
| 11 | 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. | 1.8 | 60 |
| 12 | Cadmium toxicity in diazotrophic <i>Anabaena</i> 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, 134-146. | 2.4 | 50 |
| 13 | Macroscopic Transport of Mega-ampere Electron Currents in Aligned Carbon-Nanotube Arrays. <i>Physical Review Letters</i> , 2012, 108, 235005. | 7.8 | 45 |
| 14 | UV-B stress induced metabolic rearrangements explored with comparative proteomics in three <i>Anabaena</i> species. <i>Journal of Proteomics</i> , 2015, 127, 122-133. | 2.4 | 45 |
| 15 | 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. | 5.9 | 43 |
| 16 | Cadmium-mediated morphological, biochemical and physiological tuning in three different <i>Anabaena</i> species. <i>Aquatic Toxicology</i> , 2018, 202, 36-45. | 4.0 | 35 |
| 17 | Serodiagnostic Efficacy of Mycobacterium tuberculosis 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. | 2.3 | 34 |
| 18 | CRISPR/Cas9 edited <i>AtHSFA6a</i> and <i>AtHSFA6b</i> of <i>Arabidopsis thaliana</i> offers ABA and osmotic stress insensitivity by modulation of ROS homeostasis. <i>Plant Signaling and Behavior</i> , 2020, 15, 1816321. | 2.4 | 26 |

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|----|---|-----|-----------|
| 19 | 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. | 3.3 | 24 |
| 20 | A new arsenate reductase involved in arsenic detoxification in <i>Anabaena</i> sp. PCC7120. <i>Functional and Integrative Genomics</i> , 2013, 13, 43-55. | 3.5 | 23 |
| 21 | 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. | 1.8 | 23 |
| 22 | 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. | 2.0 | 21 |
| 23 | Cooperative behavior of the nuclear receptor superfamily and its deregulation in prostate cancer. <i>Carcinogenesis</i> , 2014, 35, 262-271. | 2.8 | 19 |
| 24 | Impacts of agrochemicals on soil microbiology and food quality. , 2020, , 101-116. | | 18 |
| 25 | Isolation and Characterization of Endophytes Bacterial Strains of <i>Momordica charantia</i> L. and Their Possible Approach in Stress Management. <i>Microorganisms</i> , 2022, 10, 290. | 3.6 | 17 |
| 26 | 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. | 2.8 | 16 |
| 27 | 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. | 3.3 | 16 |
| 28 | 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. | 4.1 | 15 |
| 29 | 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, 248-255. | 2.2 | 14 |
| 30 | 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. | 3.6 | 14 |
| 31 | Comparative proteomics of wild type, An+ahpC and An ⁺ ahpC strains of <i>Anabaena</i> 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. | 2.4 | 14 |
| 32 | Plant growth-promoting rhizobacteria and their functional role in salinity stress management. , 2020, , 151-160. | | 14 |
| 33 | Noise Emission from ABS, POM and HDPE Spur Gears - A Comparative Study. <i>Materials Today: Proceedings</i> , 2018, 5, 18038-18044. | 1.8 | 13 |
| 34 | Biochar-based fertilizers and their applications in plant growth promotion and protection. <i>3 Biotech</i> , 2022, 12, . | 2.2 | 13 |
| 35 | Biosynthesized Nanoparticles and Its Implications in Agriculture. , 2019, , 257-274. | | 12 |
| 36 | Overexpression of AhpC enhances stress tolerance and N ₂ -fixation in <i>Anabaena</i> by upregulating stress responsive genes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2576-2588. | 2.4 | 11 |

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| 37 | A novel alkyl hydroperoxidase (AhpD) of <i>Anabaena</i> PCC7120 confers abiotic stress tolerance in <i>Escherichia coli</i> . <i>Functional and Integrative Genomics</i> , 2015, 15, 77-92. | 3.5 | 10 |
| 38 | Role of initial cell density of algal bioassay of toxic chemicals. <i>Journal of Basic Microbiology</i> , 2016, 56, 812-819. | 3.3 | 10 |
| 39 | <i>Cyanobacteria.</i> , 2020, , 193-202. | | 10 |
| 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. | 4.0 | 9 |
| 41 | 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. | 5.8 | 9 |
| 42 | Repercussion of manufacturing techniques on mechanical and wear peculiarity of zno particulate-filled polyester composites. <i>Polymer Composites</i> , 2018, 39, 654-667. | 4.6 | 8 |
| 43 | 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. | 4.1 | 7 |
| 44 | Algal Metabolites Can Be an Immune Booster against COVID-19 Pandemic. <i>Antioxidants</i> , 2022, 11, 452. | 5.1 | 7 |
| 45 | Eco-design Approaches for Developing Eco-friendly Products: A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 185-192. | 0.4 | 6 |
| 46 | Impact of pesticides applications on the growth and function of cyanobacteria. , 2020, , 151-162. | | 6 |
| 47 | The Tomato <i>ddm1b</i> Mutant Shows Decreased Sensitivity to Heat Stress Accompanied by Transcriptional Alterations. <i>Genes</i> , 2021, 12, 1337. | 2.4 | 5 |
| 48 | Improvement of Crop's Stress Tolerance by Gene Editing CRISPR/CAS9 System. , 2020, , 557-587. | | 5 |
| 49 | Alr2954 of <i>Anabaena</i> sp. PCC 7120 with ADP-ribose pyrophosphatase activity bestows abiotic stress tolerance in <i>Escherichia coli</i> . <i>Functional and Integrative Genomics</i> , 2017, 17, 39-52. | 3.5 | 4 |
| 50 | 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 | 4 |
| 51 | 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> , 2021, 5, 843-857. | 2.6 | 4 |
| 52 | Ionospheric and atmospheric perturbations due to two major earthquakes (M>7.0). <i>Journal of Earth System Science</i> , 2021, 130, 1. | 1.3 | 4 |
| 53 | Contrasting processing tomato cultivars unlink yield and pollen viability under heat stress. <i>AoB PLANTS</i> , 2021, 13, plab046. | 2.3 | 4 |
| 54 | Nitrogen Deprivation in <i>Fremyella diplosiphon</i> Augments Lipid Production without Affecting Growth. <i>Energies</i> , 2020, 13, 5769. | 3.1 | 3 |

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|----|--|-----|-----------|
| 55 | 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. | 1.1 | 3 |
| 56 | Transcription factors: a tool box for countering the effect of abiotic stresses. , 2021, , 169-192. | | 3 |
| 57 | 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. | 0.8 | 2 |
| 58 | 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. | 2.2 | 2 |
| 59 | Cyanobacterial Biodiversity and Biotechnology: A Promising Approach for Crop Improvement. , 2018, , 195-219. | | 2 |
| 60 | Cyanobacteria as a source of nanoparticles and their applications. , 2019, , 183-198. | | 2 |
| 61 | 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. | 3.5 | 2 |
| 62 | Tailoring Disease Resilience Crops through CRISPR/Cas. , 2022, , 187-209. | | 2 |
| 63 | Europium activated gadolinium sulfide nanoparticles. <i>RSC Advances</i> , 2016, 6, 108523-108529. | 3.6 | 1 |
| 64 | Cyanobacterial genome editing toolboxes: recent advancement and future projections for basic and synthetic biology researches. , 2020, , 129-149. | | 1 |
| 65 | Cyanobacterial peroxiredoxins and their role in cyanobacterial stress biology. , 2020, , 249-268. | | 1 |
| 66 | 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. | 1.1 | 1 |
| 67 | Seaweeds: Potential Candidates in Human Colon Cancer Therapy. , 2021, , 269-301. | | 1 |
| 68 | 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. | 2.0 | 1 |
| 69 | Epigenetics in horticultural crops: consequences and applications in abiotic stress tolerance. , 2021, , 75-90. | | 1 |
| 70 | Microbes Biology: Microbes in Wetland and Bioprospection of Microbes. , 2020, , 87-99. | | 1 |
| 71 | Molecular Insight of Plant-Pathogen Interaction. , 2020, , 481-511. | | 1 |
| 72 | Cyanobacteria as biostimulants in the paddy fields. , 2022, , 281-306. | | 1 |

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|----|--|-----|-----------|
| 73 | Microbial antagonists in postharvest management of fruit. , 2022, , 333-346. | | 1 |
| 74 | Larvicidal activity of green synthesized zinc oxide nanoparticles from <i>Carica papaya</i> leaf extract. Inorganic and Nano-Metal Chemistry, 2023, 53, 401-411. | 1.6 | 1 |
| 75 | Immunological evaluation of an rsmD-like rRNA methyltransferase from Wolbachia endosymbiont of <i>Brugia malayi</i> . Comparative Immunology, Microbiology and Infectious Diseases, 2016, 44, 41-47. | 1.6 | 0 |
| 76 | Transmission Efficiency of Functionally Graded Material Based HDPE Spur Gears. Materials Today: Proceedings, 2019, 18, 4893-4900. | 1.8 | 0 |
| 77 | Physiological, biochemical, and morphological approaches to mitigate the effects of abiotic stress in plants. , 2021, , 193-212. | | 0 |
| 78 | Advancement in bioinformatics and microarray-based technologies for genome sequence analysis and its application in bioremediation of soil and water pollutants. , 2021, , 209-225. | | 0 |
| 79 | A Three-Phase Quality Function Deployment Approach for Conceptualizing a Sustainable Product Life Cycle: Case Study of a Blower Heater. Smart Innovation, Systems and Technologies, 2021, , 869-879. | 0.6 | 0 |
| 80 | Identifying and Analyzing the Factors Affecting Disassembly of Products in Remanufacturing Organizations. Procedia CIRP, 2021, 98, 312-317. | 1.9 | 0 |
| 81 | A Comparative Analysis of Transmission Efficiency of Polyamide 66 Spur Gears Meshing with Similar and Dissimilar Gear Material. Lecture Notes in Mechanical Engineering, 2021, , 291-297. | 0.4 | 0 |
| 82 | Cyanobacterial availability for CRISPR-based genome editing: Current and future challenges. , 2022, , 231-252. | | 0 |
| 83 | Cyanobacterial photosynthetic reaction center in wobbly light: Modulation of light energy by orange carotenoid proteins (OCPs). , 2022, , 41-60. | | 0 |
| 84 | Synthetic biology tools: Engineering microbes for biotechnological applications. , 2022, , 369-398. | | 0 |