

# Prem Lal Kashyap

## List of Publications by Year in descending order

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102  
papers

2,777  
citations

218677

26  
h-index

214800

47  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2488  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan nanoparticle based delivery systems for sustainable agriculture. International Journal of Biological Macromolecules, 2015, 77, 36-51.	7.5	519
2	Bacterial xylanases: biology to biotechnology. 3 Biotech, 2016, 6, 150.	2.2	132
3	Myconanotechnology in agriculture: a perspective. World Journal of Microbiology and Biotechnology, 2013, 29, 191-207.	3.6	106
4	Trichoderma for climate resilient agriculture. World Journal of Microbiology and Biotechnology, 2017, 33, 155.	3.6	86
5	Nanodiagnosics for plant pathogens. Environmental Chemistry Letters, 2017, 15, 7-13.	16.2	76
6	Isolation and characterization of siderophore producing antagonistic rhizobacteria against <i>Rhizoctonia solani</i> . Journal of Basic Microbiology, 2014, 54, 585-597.	3.3	66
7	Diversity and antagonistic potential of <i>Bacillus</i> spp. associated to the rhizosphere of tomato for the management of <i>Rhizoctonia solani</i> . Biocontrol Science and Technology, 2012, 22, 203-217.	1.3	62
8	Multifarious plant growth promoting characteristics of chickpea rhizosphere associated Bacilli help to suppress soil-borne pathogens. Plant Growth Regulation, 2014, 73, 91-101.	3.4	62
9	Rapid detection and quantification of <i>Alternaria solani</i> in tomato. Scientia Horticulturae, 2013, 151, 184-189.	3.6	59
10	Bacterial endophyte mediated plant tolerance to salinity: growth responses and mechanisms of action. World Journal of Microbiology and Biotechnology, 2020, 36, 26.	3.6	57
11	Identification, characterization and phylogenetic analysis of antifungal <i>Trichoderma</i> from tomato rhizosphere. SpringerPlus, 2016, 5, 1939.	1.2	55
12	Plant defense activation and management of tomato root rot by a chitin-fortified <i>Trichoderma/Hypocrea</i> formulation. Phytoparasitica, 2011, 39, 471-481.	1.2	53
13	Deciphering Diversity of Salt-Tolerant Bacilli from Saline Soils of Eastern Indo-gangetic Plains of India. Geomicrobiology Journal, 2015, 32, 170-180.	2.0	51
14	Plant growth promoting and antifungal activity in endophytic <i>Bacillus</i> strains from pearl millet ( <i>Pennisetum glaucum</i> ). Brazilian Journal of Microbiology, 2020, 51, 229-241.	2.0	51
15	Switching to nanonutrients for sustaining agroecosystems and environment: the challenges and benefits in moving up from ionic to particle feeding. Journal of Nanobiotechnology, 2022, 20, 19.	9.1	51
16	Functional characterization of endophytic bacilli from pearl millet ( <i>Pennisetum glaucum</i> ) and their possible role in multiple stress tolerance. Plant Biosystems, 2020, 154, 503-514.	1.6	47
17	Characterization of three new Yr9-virulences and identification of sources of resistance among recently developed Indian bread wheat germplasm. Journal of Plant Pathology, 2019, 101, 955-963.	1.2	46
18	Optimization of media components for chitinase production by chickpea rhizosphere associated <i>Lysinibacillus fusiformis</i> Bâ€CM18. Journal of Basic Microbiology, 2013, 53, 451-460.	3.3	42

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19	Population distribution and differentiation of <i>Puccinia graminis tritici</i> detected in the Indian subcontinent during 2009–2015. <i>Crop Protection</i> , 2018, 108, 128-136.	2.1	42
20	Biocontrol Potential of Salt-Tolerant <i>Trichoderma</i> and <i>Hypocrea</i> Isolates for the Management of Tomato Root Rot Under Saline Environment. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 160-176.	3.4	41
21	Characterization of antagonistic potential of two <i>Bacillus</i> strains and their biocontrol activity against <i>Rhizoctonia solani</i> in tomato. <i>Journal of Basic Microbiology</i> , 2015, 55, 82-90.	3.3	40
22	Molecular breeding technologies and strategies for rust resistance in wheat ( <i>Triticum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (	2.4	40
23	Identification and Characterization of Microsatellite from <i>Alternaria brassicicola</i> to Assess Cross-Species Transferability and Utility as a Diagnostic Marker. <i>Molecular Biotechnology</i> , 2014, 56, 1049-1059.	2.4	38
24	Enhancement in Plant Growth and Zinc Biofortification of Chickpea ( <i>Cicer arietinum</i> L.) by <i>Bacillus altitudinis</i> . <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 922-935.	3.4	38
25	Comparative analysis of microsatellites in five different antagonistic <i>Trichoderma</i> species for diversity assessment. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 8.	3.6	36
26	Nanotechnology for the Detection and Diagnosis of Plant Pathogens. <i>Sustainable Agriculture Reviews</i> , 2016, , 253-276.	1.1	35
27	Isolation and characterization of halotolerant bacilli from chickpea ( <i>Cicer arietinum</i> L.) rhizosphere for plant growth promotion and biocontrol traits. <i>European Journal of Plant Pathology</i> , 2019, 153, 787-800.	1.7	35
28	Karnal Bunt: A Re-Emerging Old Foe of Wheat. <i>Frontiers in Plant Science</i> , 2020, 11, 569057.	3.6	30
29	Cross-species transferability of microsatellite markers from <i>Fusarium oxysporum</i> for the assessment of genetic diversity in <i>Fusarium udum</i> . <i>Phytoparasitica</i> , 2013, 41, 615-622.	1.2	27
30	Halotolerant <i>Exiguobacterium profundum</i> PHM11 Tolerate Salinity by Accumulating L-Proline and Fine-Tuning Gene Expression Profiles of Related Metabolic Pathways. <i>Frontiers in Microbiology</i> , 2018, 9, 423.	3.5	25
31	Mating type genes and genetic markers to decipher intraspecific variability among <i>Fusarium udum</i> isolates from pigeonpea. <i>Journal of Basic Microbiology</i> , 2015, 55, 846-856.	3.3	24
32	Genetic diversity, mating types and phylogenetic analysis of Indian races of <i>Fusarium oxysporum</i> f. sp. <i>ciceris</i> from chickpea. <i>Archives of Phytopathology and Plant Protection</i> , 2016, 49, 533-553.	1.3	24
33	Isolation and characterization of biosurfactant producing <i>Bacillus</i> sp. from diesel fuel-contaminated site. <i>Microbiology</i> , 2016, 85, 56-62.	1.2	23
34	DNA Barcoding for Diagnosis and Monitoring of Fungal Plant Pathogens. <i>Fungal Biology</i> , 2017, , 87-122.	0.6	23
35	Nanotechnology Scope and Applications for Wheat Production and Quality Enhancement:A Review of Recent Advances. <i>Journal of Cereal Research</i> , 2018, 10, .	0.2	21
36	Population genetic structure of <i>Rhizoctonia solani</i> AG11A from rice field in North India. <i>Phytoparasitica</i> , 2017, 45, 299-316.	1.2	19

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37	Genetic engineering approaches to enhance oil content in oilseed crops. <i>Plant Growth Regulation</i> , 2017, 83, 207-222.	3.4	19
38	Nanomaterials for Postharvest Management of Insect Pests: Current State and Future Perspectives. <i>Frontiers in Nanotechnology</i> , 2022, 3, .	4.8	19
39	Nanopesticides: Current status and scope for their application in agriculture. <i>Plant Protection Science</i> , 2021, 58, 1-17.	1.4	19
40	Identifying some additional rust resistance genes in Indian wheat varieties using robust markers. <i>Cereal Research Communications</i> , 2017, 45, 633-646.	1.6	17
41	Temporal Transcriptional Changes in SAR and Sugar Transport-Related Genes During Wheat and Leaf Rust Pathogen Interactions. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 826-839.	5.1	17
42	Deciphering rhizosphere microbiome for the development of novel bacterial consortium and its evaluation for salt stress management in solanaceous crops in India. <i>Indian Phytopathology</i> , 2019, 72, 479-488.	1.2	17
43	Computational Mining and Genome Wide Distribution of Microsatellite in <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> . <i>Notulae Scientia Biologicae</i> , 2012, 4, 127-131.	0.4	16
44	Draft genome sequence of a cold-adapted phosphorous-solubilizing <i>Pseudomonas koreensis</i> P2 isolated from Sela Lake, India. <i>3 Biotech</i> , 2019, 9, 256.	2.2	16
45	Stage-specific reprogramming of defense responsive genes during Lr24-mediated leaf rust resistance in wheat. <i>Journal of Plant Pathology</i> , 2019, 101, 283-293.	1.2	16
46	A rapid colorimetric LAMP assay for detection of <i>Rhizoctonia solani</i> AG-1 IA causing sheath blight of rice. <i>Scientific Reports</i> , 2020, 10, 22022.	3.3	16
47	New and emerging technologies for detecting <i>Magnaporthe oryzae</i> causing blast disease in crop plants. <i>Crop Protection</i> , 2021, 143, 105473.	2.1	15
48	Wheat endophytes and their potential role in managing abiotic stress under changing climate. <i>Journal of Applied Microbiology</i> , 2022, 132, 2501-2520.	3.1	14
49	Biotechnological Approaches for Host Plant Resistance to Insect Pests. <i>Frontiers in Genetics</i> , 0, 13, .	2.3	14
50	Phylogeography and Population Structure Analysis Reveal Diversity by Gene Flow and Mutation in <i>Ustilago segetum</i> (Pers.) Roussel tritici Causing Loose Smut of Wheat. <i>Frontiers in Microbiology</i> , 2019, 10, 1072.	3.5	13
51	Nanosensors for Plant Disease Diagnosis: Current Understanding and Future Perspectives. , 2019, , 189-205.		13
52	Molecular detection and in silico characterization of cold shock protein coding gene ( <i>cspA</i> ) from cold adaptive <i>Pseudomonas koreensis</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 2019, 28, 405-413.	1.7	12
53	Molecular Diagnostic Assay for Rapid Detection of Flag Smut Fungus ( <i>Urocystis agropyri</i> ) in Wheat Plants and Field Soil. <i>Frontiers in Plant Science</i> , 2020, 11, 1039.	3.6	12
54	Physiologic Specialization and Genetic Differentiation of <i>Puccinia triticina</i> Causing Leaf Rust of Wheat on the Indian Subcontinent During 2016 to 2019. <i>Plant Disease</i> , 2021, 105, 1992-2000.	1.4	12

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55	Exploitation of Multifarious Abiotic Stresses, Antagonistic Activity and Plant Growth Promoting Attributes of <i>Bacillus amyloliquefaciens</i> AH53 for Sustainable Agriculture Production. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 7, 751-763.	0.1	12
56	Tillage Intensity Influences Insect-Pest and Predator Dynamics of Wheat Crop Grown under Different Conservation Agriculture Practices in Rice-Wheat Cropping System of Indo-Gangetic Plain. <i>Agronomy</i> , 2021, 11, 1087.	3.0	11
57	Draft Genome Sequence of Halotolerant Bacterium <i>Chromohalobacter salexigens</i> ANJ207, Isolated from Salt Crystal Deposits in Pipelines. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	10
58	Nanotechnology in Wheat Production and Protection. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 165-194.	0.5	10
59	Genes of Microorganisms: Paving Way to Tailor Next Generation Fungal Disease Resistant Crop Plants. <i>Notulae Scientia Biologicae</i> , 2011, 3, 147-157.	0.4	9
60	Identification and characterization of ethanol utilizing fungal flora of oil refinery contaminated soil. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 705-714.	3.6	9
61	Deciphering the salinity adaptation mechanism in <i>Penicillium clavariiformis</i> AP, a rare salt tolerant fungus from mangrove. <i>Journal of Basic Microbiology</i> , 2016, 56, 779-791.	3.3	9
62	Induction of systemic tolerance to <i>Tilletia indica</i> in wheat by plant defence activators. <i>Archives of Phytopathology and Plant Protection</i> , 2018, 51, 1-13.	1.3	9
63	First <i>De Novo</i> Draft Genome Sequence of the Pathogenic Fungus <i>Fusarium udum</i> F02845, Associated with Pigeonpea ( <i>Cajanus cajan</i> L. Millspaugh) Wilt. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	9
64	noxB-based marker for <i>Alternaria</i> spp.: a new diagnostic marker for specific and early detection in crop plants. <i>3 Biotech</i> , 2019, 9, 249.	2.2	9
65	Zinc-Solubilizing Microbes for Sustainable Crop Production: Current Understanding, Opportunities, and Challenges. , 2020, , 281-298.		9
66	RNA interference- a novel approach for plant disease management. <i>Journal of Applied and Natural Science</i> , 2017, 9, 1612-1618.	0.4	9
67	Comparison of molecular and phenetic typing methods to assess diversity of selected members of the genus <i>Bacillus</i> . <i>Microbiology</i> , 2015, 84, 236-246.	1.2	8
68	Morphological characterization and screening for sheath blight resistance using Indian isolates of <i>Rhizoctonia solani</i> AG11A. <i>Indian Phytopathology</i> , 2019, 72, 107-124.	1.2	8
69	Identification of Novel Microsatellite Markers to Assess the Population Structure and Genetic Differentiation of <i>Ustilago hordei</i> Causing Covered Smut of Barley. <i>Frontiers in Microbiology</i> , 2020, 10, 2929.	3.5	8
70	Editorial: Plant Microbiome: Interactions, Mechanisms of Action, and Applications. <i>Frontiers in Microbiology</i> , 2021, 12, 706049.	3.5	8
71	Virulence and molecular diversity among <i>Puccinia striiformis</i> f. sp. <i>tritici</i> pathotypes identified in India between 2015 and 2019. <i>Crop Protection</i> , 2021, 148, 105717.	2.1	8
72	Detection and Diagnosis of Seed-Borne Viruses and Virus-Like Pathogens. , 2020, , 169-199.		8

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73	Transcriptome Analysis to Understand Salt Stress Regulation Mechanism of Chromohalobacter salexigens ANJ207. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	8
74	Genome analysis of <i>Exiguobacterium</i> reveals species delineation and genomic similarity with <i>Exiguobacterium profundum</i> PHM 11. <i>Environmental Microbiology Reports</i> , 2020, 12, 639-650.	2.4	7
75	Microbes for Cold Stress Resistance in Plants: Mechanism, Opportunities, and Challenges. <i>Rhizosphere Biology</i> , 2020, , 269-292.	0.6	7
76	Genome-Wide Analysis of Microsatellites in <i>Alternaria arborescens</i> and Elucidation of the Function of Polyketide Synthase (Pks). <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018, 10, 813-822.	3.6	6
77	Antibiotic gene specific characterization and ARDRA analysis of native isolates of <i>Pseudomonas</i> spp. from Jammu, India. <i>Indian Phytopathology</i> , 2018, 71, 225-233.	1.2	6
78	Impact of climate change on insect pests of rice-wheat cropping system: recent trends and mitigation strategies. , 2021, , 225-239.		6
79	Analysis of Biosynthetic Gene Clusters, Secretory, and Antimicrobial Peptides Reveals Environmental Suitability of <i>Exiguobacterium profundum</i> PHM11. <i>Frontiers in Microbiology</i> , 2021, 12, 785458.	3.5	6
80	Characterization of five new pathotypes of <i>Puccinia triticina</i> identified from Northeast India, Nepal, and Bangladesh. <i>Australasian Plant Pathology</i> , 2022, 51, 315-325.	1.0	6
81	Difenoconazole: A new seed dressing molecule for effective management of flag smut ( <i>Urocystis</i> ) Tj ETQq1 1 0.784314 rgBT <sub>3</sub> Overlo	0.2	6
82	Phyllosphere microbiome: modern prospectus and application. , 2021, , 345-366.		4
83	Resistance inducers and their role in reinforcing wheat defense system against fungal pathogens. <i>Journal of Cereal Research</i> , 2022, 13, .	0.1	4
84	Virulence and molecular analysis of atypical pathotypes of yellow rust pathogen in India. <i>Indian Phytopathology</i> , 2019, 72, 187-194.	1.2	3
85	Development and characterization of novel microsatellite markers in <i>Puccinia striiformis</i> f.sp. <i>tritici</i> and their transferability in <i>Puccinia</i> species. <i>Journal of Phytopathology</i> , 2020, 168, 120-128.	1.0	3
86	A review of advances in bioremediation of heavy metals by microbes and plants. <i>Journal of Natural Resource Conservation and Management</i> , 2021, 2, 65.	0.3	3
87	Effect of weather variables on the incidence of yellow stem borer ( <i>Scirpophaga incertulas</i> W.) and leaf folder ( <i>Cnaphalocrocis medinalis</i> G.) in rice. <i>Journal of Cereal Research</i> , 2019, 11, .	0.2	3
88	Mycorrhizal fungi and its importance in plant health amelioration. , 2021, , 205-223.		2
89	Plant virome: current understanding, mechanisms, and role in phytobiome. , 2021, , 53-81.		2
90	Disease Spectrum in Wheat and Barley Under Different Agro-Ecological Conditions in India and Management Strategies. , 2020, , 57-79.		2

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91	Nanotechnology for Wheat and Barley Health Management: Current Scenario and Future Prospectus. , 2022, , 337-363.		2
92	Development and evaluation of high yielding, multiple disease resistant bread wheat variety - Karan Vandana (DBW187). Journal of Cereal Research, 2020, 12, .	0.1	1
93	Population Biology of Wheat Blast Pathogen. , 2020, , 19-34.		1
94	DBW222 (Karan Narendra): A new high-yielding, lodging-tolerant wheat variety for North Western plains of India. Crop Breeding and Applied Biotechnology, 2020, 20, .	0.4	1
95	Induced Resistance for Sustainable Management of Wheat Diseases. Advances in Environmental Engineering and Green Technologies Book Series, 2022, , 385-408.	0.4	1
96	Field screening and identification of stable resistance sources in wheat germplasm against loose smut disease caused by Ustilago segetum var. tritici. Journal of Cereal Research, 2022, 14, .	0.1	1
97	Ecology, Population Biology and Management of Chilli Anthracnose. Sustainable Agriculture Reviews, 2018, , 361-388.	1.1	0
98	Identification of multiple rust resistant bread wheat genotypes. Journal of Cereal Research, 2021, 13, .	0.1	0
99	Evolution, Adaptation, and Host Selection by Plant Viruses: Current Understanding and Future Perspectives. , 2017, , 221-258.		0
100	Efficacy of few selected insecticides for the management of foliar aphid complex in barley. Journal of Cereal Research, 2019, 10, .	0.2	0
101	Identification and Diagnosis of Wheat Blast. , 2020, , 35-52.		0
102	Editorial: Plant Microbiome: Interactions, Mechanisms of Action, and Applications, Volume II. Frontiers in Microbiology, 2022, 13, .	3.5	0