

Surender Singh

List of Publications by Year in descending order

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107
papers

2,483
citations

172457

29
h-index

243625

44
g-index

110
all docs

110
docs citations

110
times ranked

2962
citing authors

#	ARTICLE	IF	CITATIONS
1	Haloarchaea Endowed with Phosphorus Solubilization Attribute Implicated in Phosphorus Cycle. <i>Scientific Reports</i> , 2015, 5, 12293.	3.3	138
2	Technological interventions for utilization of crop residues and weedy biomass for second generation bio-ethanol production. <i>Renewable Energy</i> , 2019, 132, 723-741.	8.9	122
3	Thermotolerant fermenting yeasts for simultaneous saccharification fermentation of lignocellulosic biomass. <i>Electronic Journal of Biotechnology</i> , 2016, 21, 82-92.	2.2	114
4	Assessment of bacterial diversity during composting of agricultural byproducts. <i>BMC Microbiology</i> , 2013, 13, 99.	3.3	108
5	Phylogenetic Diversity and Characterization of Novel and Efficient Cellulase Producing Bacterial Isolates from Various Extreme Environments. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1474-1480.	1.3	84
6	A Modified Plate Assay for Rapid Screening of Potassium-Solubilizing Bacteria. <i>Pedosphere</i> , 2016, 26, 768-773.	4.0	66
7	Enhanced biodegradation of PAHs by microbial consortium with different amendment and their fate in in-situ condition. <i>Journal of Environmental Management</i> , 2016, 181, 728-736.	7.8	61
8	Comparative efficiency of different pretreatment methods on enzymatic digestibility of <i>Parthenium</i> sp.. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 55-64.	3.6	59
9	<i>Streptomyces griseorubens</i> mediated delignification of paddy straw for improved enzymatic saccharification yields. <i>Bioresource Technology</i> , 2013, 135, 12-17.	9.6	57
10	Taxonomic and functional annotation of gut bacterial communities of <i>Eisenia foetida</i> and <i>Perionyx excavatus</i> . <i>Microbiological Research</i> , 2015, 175, 48-56.	5.3	54
11	Bioprospecting thermotolerant ethanologenic yeasts for simultaneous saccharification and fermentation from diverse environments. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 342-346.	2.2	54
12	Deciphering the Mechanisms of Endophyte-Mediated Biofortification of Fe and Zn in Wheat. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 174-182.	5.1	53
13	Microorganisms in the Conversion of Agricultural Wastes to Compost. <i>Proceedings of the Indian National Science Academy</i> , 2014, 80, 473.	1.4	50
14	Improving the shelf life of fresh-cut "Royal Delicious"™ apple with edible coatings and anti-browning agents. <i>Journal of Food Science and Technology</i> , 2018, 55, 3767-3778.	2.8	49
15	Arabinofuranosidases: Characteristics, microbial production, and potential in waste valorization and industrial applications. <i>Bioresource Technology</i> , 2020, 304, 123019.	9.6	48
16	Deciphering the biochemical spectrum of novel cyanobacterium-based biofilms for use as inoculants. <i>Biological Agriculture and Horticulture</i> , 2013, 29, 145-158.	1.0	46
17	Optimization of Enzymatic Saccharification of Alkali Pretreated <i>Parthenium</i> sp. Using Response Surface Methodology. <i>Enzyme Research</i> , 2014, 2014, 1-8.	1.8	46
18	Nutritional characterization of apple as a function of genotype. <i>Journal of Food Science and Technology</i> , 2018, 55, 2729-2738.	2.8	45

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19	Spatial distribution and identification of bacteria in stressed environments capable to weather potassium aluminosilicate mineral. <i>Brazilian Journal of Microbiology</i> , 2020, 51, 751-764.	2.0	42
20	Biological delignification of paddy straw and <i>Parthenium</i> sp. using a novel micromycete <i>Myrothecium roridum</i> LG7 for enhanced saccharification. <i>Bioresource Technology</i> , 2013, 135, 7-11.	9.6	40
21	Immobilization of indigenous holocellulase on iron oxide (Fe ₂ O ₃) nanoparticles enhanced hydrolysis of alkali pretreated paddy straw. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 538-549.	7.5	39
22	Modulating rhizosphere colonisation, plant growth, soil nutrient availability and plant defense enzyme activity through <i>Trichoderma viride</i> - <i>Azotobacter chroococcum</i> biofilm inoculation in chickpea. <i>Plant and Soil</i> , 2017, 421, 157-174.	3.7	38
23	Production, purification and characterization of neutral phytase from thermotolerant <i>Aspergillus flavus</i> ITCC 6720. <i>International Biodeterioration and Biodegradation</i> , 2015, 99, 15-22.	3.9	37
24	The Contrivance of Plant Growth Promoting Microbes to Mitigate Climate Change Impact in Agriculture. <i>Microorganisms</i> , 2021, 9, 1841.	3.6	37
25	Effects of transgenic Bt cotton on soil fertility and biology under field conditions in subtropical inceptisol. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 485-495.	2.7	35
26	Bioprospecting of novel thermostable β -glucosidase from <i>Bacillus subtilis</i> RA10 and its application in biomass hydrolysis. <i>Biotechnology for Biofuels</i> , 2017, 10, 246.	6.2	35
27	Effect of paddy straw burning on soil microbial dynamics in sandy loam soil of Indo-Gangetic plains. <i>Environmental Technology and Innovation</i> , 2019, 16, 100469.	6.1	35
28	Prospecting the Potential of Agroresidues as Substrate for Microbial Flavor Production. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	35
29	Prospecting <i>Parthenium</i> sp. pretreated with <i>Trametes hirsuta</i> , as a potential bioethanol feedstock. <i>Biocatalysis and Agricultural Biotechnology</i> , 2013, 2, 152-158.	3.1	31
30	Cold active holocellulase cocktail from <i>Aspergillus niger</i> SH3: process optimization for production and biomass hydrolysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 56, 57-66.	5.3	30
31	<i>Malbranchea cinnamomea</i> : A thermophilic fungal source of catalytically efficient lignocellulolytic glycosyl hydrolases and metal dependent enzymes. <i>Bioresource Technology</i> , 2016, 200, 55-63.	9.6	30
32	Soil metaproteomics as a tool for monitoring functional microbial communities: promises and challenges. <i>Reviews in Environmental Science and Biotechnology</i> , 2020, 19, 73-102.	8.1	30
33	Evaluation of secretome of highly efficient lignocellulolytic <i>Penicillium</i> sp. Dal 5 isolated from rhizosphere of conifers. <i>Bioresource Technology</i> , 2016, 216, 958-967.	9.6	28
34	Current Perspectives on Chitinolytic Enzymes and Their Agro-Industrial Applications. <i>Biology</i> , 2021, 10, 1319.	2.8	28
35	Attractancy potential of culturable bacteria from the gut of peach fruit fly, <i>Bactrocera zonata</i> (Saunders). <i>Phytoparasitica</i> , 2014, 42, 691-698.	1.2	27
36	Aqueous ozone controls decay and maintains quality attributes of strawberry (<i>Fragaria</i> sp. 'Ananassa') Tj ETQq0 0 0 rgBT /Overl	2.8	26

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37	Novel cold temperature active β -glucosidase from <i>Pseudomonas lutea</i> BG8 suitable for simultaneous saccharification and fermentation. <i>RSC Advances</i> , 2014, 4, 58108-58115.	3.6	25
38	Phosphate-Solubilizing Microorganisms. <i>Soil Biology</i> , 2011, , 65-84.	0.8	23
39	Molecular Detection and Environment-Specific Diversity of Glycosyl Hydrolase Family 1 β -Glucosidase in Different Habitats. <i>Frontiers in Microbiology</i> , 2016, 7, 1597.	3.5	22
40	Laccase Production by a Novel White-Rot Fungus <i>Pseudolagarobasidium acaciicola</i> LA 1 Through Solid-State Fermentation of <i>Parthenium</i> Biomass and Its Application in Dyes Decolorization. <i>Waste and Biomass Valorization</i> , 2016, 7, 1427-1435.	3.4	22
41	Influence of Endosulfan on Microbial Biomass and Soil Enzymatic Activities of a Tropical Alfisol. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 351-356.	2.7	21
42	Harnessing the hydrolytic potential of phytopathogenic fungus <i>Phoma exigua</i> ITCC 2049 for saccharification of lignocellulosic biomass. <i>Bioresource Technology</i> , 2013, 150, 228-234.	9.6	21
43	Bioactive compounds and antioxidant activity of selected Indian pummelo (<i>Citrus grandis</i> L. Osbeck) germplasm. <i>Scientia Horticulturae</i> , 2018, 233, 446-454.	3.6	20
44	Feather degrading, phytostimulating, and biocontrol potential of native actinobacteria from North Eastern Indian Himalayan Region. <i>Journal of Basic Microbiology</i> , 2018, 58, 730-738.	3.3	18
45	Single cell oil production by a novel yeast <i>Trichosporon mycotoxinivorans</i> for complete and ecofriendly valorization of paddy straw. <i>Electronic Journal of Biotechnology</i> , 2020, 44, 60-68.	2.2	18
46	Production, optimization and evaluation of multicomponent holocellulase produced by <i>Streptomyces</i> sp. ssr-198. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2379-2386.	5.3	17
47	Biodegradation of dimethyl phthalate by an entomopathogenic nematode symbiont <i>Xenorhabdus indica</i> strain KB-3. <i>International Biodeterioration and Biodegradation</i> , 2014, 89, 23-28.	3.9	17
48	Enrichment and isolation of endosulfan-degrading microorganism from tropical acid soil. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2009, 44, 663-672.	1.5	16
49	Elucidating the interactions and phytotoxicity of zinc oxide nanoparticles with agriculturally beneficial bacteria and selected crop plants. <i>Folia Microbiologica</i> , 2017, 62, 253-262.	2.3	16
50	Statistical Optimization of Media Components for Production of Fibrinolytic Alkaline Metalloproteases from <i>Xenorhabdus indica</i> KB-3. <i>Biotechnology Research International</i> , 2014, 2014, 1-11.	1.4	15
51	Unwrapping the hydrolytic system of the phytopathogenic fungus <i>Phoma exigua</i> by secretome analysis. <i>Process Biochemistry</i> , 2014, 49, 1630-1636.	3.7	15
52	Do cultural conditions induce differential protein expression: Profiling of extracellular proteome of <i>Aspergillus terreus</i> CM20. <i>Microbiological Research</i> , 2016, 192, 73-83.	5.3	15
53	Co-production of gamma amino butyric acid (GABA) and lactic acid using <i>Lactobacillus plantarum</i> LP-9 from agro-residues. <i>Environmental Technology and Innovation</i> , 2021, 23, 101650.	6.1	15
54	Polycyclic aromatic hydrocarbons (PAHs) degradation potential, surfactant production, metal resistance and enzymatic activity of two novel cellulose-degrading bacteria isolated from koala faeces. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	14

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55	Valorization of jute (<i>Corchorus</i> sp.) biomass for bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5209-5220.	4.6	14
56	A biorefinery approach for the production of ferulic acid from agroresidues through ferulic acid esterase of lactic acid bacteria. <i>3 Biotech</i> , 2020, 10, 367.	2.2	14
57	Proteomic analysis of <i>Streptomyces</i> sp. ssn198 grown on paddy straw. <i>Journal of Basic Microbiology</i> , 2015, 55, 790-797.	3.3	13
58	Notable mixed substrate fermentation by native <i>Kodamaea ohmeri</i> strains isolated from <i>Lagenaria siceraria</i> flowers and ethanol production on paddy straw hydrolysates. <i>Chemistry Central Journal</i> , 2018, 12, 8.	2.6	13
59	Multifarious activities of cellulose degrading bacteria from Koala (<i>Phascolarctos cinereus</i>) faeces. <i>Journal of Animal Science and Technology</i> , 2015, 57, 23.	2.5	12
60	Two-step statistical optimization for cold active β -glucosidase production from <i>Pseudomonas lutea</i> BG8 and its application for improving saccharification of paddy straw. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 659-668.	3.1	12
61	Phytofabricated zinc oxide nanoparticles as a nanofungicide for management of <i>Alternaria</i> blight of <i>Brassica</i> . <i>BioMetals</i> , 2021, 34, 1275-1293.	4.1	12
62	Magnetic Nanoparticle Immobilized Cellulase Enzyme for Saccharification of Paddy Straw. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 7, 881-893.	0.1	12
63	Optimization of fermentation condition for co-production of ethanol and 2,3-butanediol (2,3-BD) from hemicellulosic hydrolysates by <i>Klebsiella oxytoca</i> XF7. <i>Chemical Engineering Communications</i> , 2018, 205, 402-410.	2.6	11
64	Efficient two-step lactic acid production from cassava biomass using thermostable enzyme cocktail and lactic acid bacteria: insights from hydrolysis optimization and proteomics analysis. <i>3 Biotech</i> , 2020, 10, 409.	2.2	11
65	Taxonomic and functional diversity of the culturable microbiomes of epigeic earthworms and their prospects in agriculture. <i>Journal of Basic Microbiology</i> , 2016, 56, 1009-1020.	3.3	10
66	Simultaneous saccharification and fermentation of alkali-pretreated corncob under optimized conditions using cold-tolerant indigenous holocellulase. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 773-780.	2.7	10
67	Complementary effect of thermotolerant yeast and cold active cellulase on simultaneous saccharification and fermentation for bioethanol production from rice straw. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	2.0	9
68	Construction and screening of metagenomic library derived from soil for β -1, 4-endoglucanase gene. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 5, 186-192.	3.1	8
69	Augmenting Pentose Utilization and Ethanol Production of Native <i>Saccharomyces cerevisiae</i> LN Using Medium Engineering and Response Surface Methodology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 132.	4.1	8
70	Restoration of heavy metal-contaminated soil and water through biosorbents: A review of current understanding and future challenges. <i>Physiologia Plantarum</i> , 2021, 173, 394-417.	5.2	8
71	Extracellular Novel Metalloprotease from <i>Xenorhabdus indica</i> and Its Potential as an Insecticidal Agent. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1536-1543.	2.1	8
72	Bioethanol Production Scenario in India: Potential and Policy Perspective. , 2017, , 21-37.		7

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73	Mesta (<i>Hibiscus</i> spp.) – a potential feedstock for bioethanol production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2024, 42, 2664-2677.	2.3	7
74	Improved control on decay and postharvest quality deterioration of strawberry by microbial antagonists. <i>Indian Journal of Horticulture</i> , 2019, 76, 502.	0.1	7
75	A new spectrophotometric method for quantification of potassium solubilized by bacterial cultures. <i>Indian Journal of Experimental Biology</i> , 2014, 52, 261-6.	0.0	7
76	Bioaugmentation and Biovalorization of Agro-Food and Beverage Industry Effluents. <i>Soil Biology</i> , 2011, , 85-106.	0.8	6
77	Evaluation of α -1,4-Endoglucanases Produced by Bacilli Isolated from Paper and Pulp Mill Effluents Irrigated Soil. <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 1073-1080.	2.1	6
78	Effect of Irrigation Scheduling and Nitrogen Application on Yield, Grain Quality and Soil Microbial Activities in Direct-Seeded Rice. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2017, 6, 2855-2860.	0.1	6
79	Potent γ -amino butyric acid producing probiotic <i>Lactococcus lactis</i> LP-68 from non-rhizospheric soil of <i>Syzygium cumini</i> (Black plum). <i>Archives of Microbiology</i> , 2022, 204, 82.	2.2	6
80	Microbes in Agrowaste Management for Sustainable Agriculture. , 2012, , 127-151.		5
81	Cellulose as Potential Feedstock for Cellulase Enzyme Production: Versatility and Properties of Various Cellulosic Biomasses. , 2019, , 11-27.		5
82	Saccharification of biopretreated paddy straw with indigenous holocellulase and fermentation with <i>Saccharomyces cerevisiae</i> LN1 under optimized conditions. <i>Energy, Ecology and Environment</i> , 2016, 1, 419-429.	3.9	4
83	Rhizospheric Microbial Communities: Occurrence, Distribution, and Functions. , 2021, , 239-271.		4
84	Municipal solid waste biorefinery for sustainable production of bioenergy. , 2021, , 207-233.		4
85	An iTRAQ Based Comparative Proteomic Profiling of Thermotolerant <i>Saccharomyces cerevisiae</i> JRC6 in Response to High Temperature Fermentation. <i>Current Proteomics</i> , 2019, 16, 289-296.	0.3	4
86	Improving Yeast Strains for Pentose Hexose Co-fermentation: Successes and Hurdles. <i>Springer Proceedings in Energy</i> , 2016, , 23-41.	0.3	3
87	Thermophilic Fungi and Their Enzymes for Biorefineries. , 2019, , 479-502.		3
88	Halophilic bacteria mediated poly- γ -hydroxybutyrate production using paddy straw as a substrate. <i>Bioresource Technology Reports</i> , 2022, 17, 100915.	2.7	3
89	Production of ethanol, lipid and lactic acid from mixed agrowastes hydrolysate. <i>Natural Product Research</i> , 2023, 37, 2575-2582.	1.8	3
90	Fungal consortium and nitrogen supplementation stimulates soil microbial communities to accelerate in situ degradation of paddy straw. <i>Environmental Sustainability</i> , 2022, 5, 161-171.	2.8	3

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91	The Role and Applications of Xyloglucan Hydrolase in Biomass Degradation/Bioconversion. Biofuel and Biorefinery Technologies, 2016, , 231-248.	0.3	2
92	Deciphering the mode of interactions of nanoparticles with mung bean (<i>Vigna radiata</i> L.). Israel Journal of Plant Sciences, 2017, , 1-9.	0.5	2
93	Bioprospecting of Xylanolytic Fungi Isolated from Degraded Corn Cobs for Xylooligosaccharides (XOs) Production. Journal of Pure and Applied Microbiology, 2016, 10, 2687-2696.	0.9	2
94	One-pot microbial bioconversion of wheat bran ferulic acid to biovanillin. 3 Biotech, 2021, 11, 462.	2.2	2
95	Identification and Quantification of Physicochemical and Bioactive Components from Sugar Baby Variety of Watermelon (<i>Citrullus lanatus</i>). Agricultural Research, 0, , 1.	1.7	1
96	Lactic Acid Bacteria for Production of Platform Chemicals: A Dark Horse in the Field of Industrial Biotechnology. Environmental and Microbial Biotechnology, 2021, , 3-25.	0.7	1
97	Effect of Pasteurization Methods on Enzyme Activities, Microbial and Sensory Evaluations in Ready to Serve Watermelon Juice (<i>Citrullus lanatus</i>). International Journal of Current Microbiology and Applied Sciences, 2019, 8, 2708-2717.	0.1	1
98	Effect of Irrigation Scheduling and Nitrogen Application on Yield, Grain Quality and Soil Microbial Activities in Directâ€“Seeded Rice. International Journal of Current Microbiology and Applied Sciences, 2017, 6, 130-135.	0.1	1
99	Green lactic acid production using low-cost renewable sources and potential applications. , 2022, , 345-365.		1
100	Microbial Biofuels: Renewable Source of Energy. , 2020, , 181-192.		1
101	Anthocyaninâ€“rich fruit vinegar from <i>Grewia</i> and Cantaloupe fruit blends. International Journal of Food Science and Technology, 2022, 57, 4566-4574.	2.7	1
102	Running Head: Bioprospecting for Biomass Hydrolysing Fungi Bioprospecting for Superior Biomass Hydrolysing Fungi from Diverse Habitats. Journal of Biodiversity Bioprospecting and Development, 2015, 02, .	0.4	0
103	Sustainable Production of Biofuels from Weedy Biomass and Other Unconventional Lignocellulose Wastes. , 2018, , 83-116.		0
104	Bacterial consortium for efficient degradation of di-ethyl phthalate in soil microcosm. Environmental Sustainability, 0, , 1.	2.8	0
105	Screening and Biochemical Studies on Grape Genotypes for Powdery Mildew Infection under Sub-Tropical Conditions. Indian Journal of Agricultural Biochemistry, 2015, 28, 178.	0.0	0
106	Pretreatment and Designing Energy Crops: Technological Innovations and Prospects. Research Journal of Microbiology, 2015, 10, 557-570.	0.2	0
107	Effect of Organic and Inorganic Sources of Fertilizer on Corm Yield and Nutrient Uptake of <i>Gladiolus</i> . International Journal of Current Microbiology and Applied Sciences, 2019, 8, 2628-2633.	0.1	0