

Sudhir P Singh

List of Publications by Year in descending order

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87
papers

1,997
citations

218592

26
h-index

302012

39
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98
all docs

98
docs citations

98
times ranked

2038
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial bioprocesses for production of nutraceuticals and functional foods. , 2022, , 1-29.		1
2	Characterization of native lactic acid bacteria from traditionally fermented chhurpi of Sikkim Himalayan region for the production of chhurpi cheese with enhanced antioxidant effect. LWT - Food Science and Technology, 2022, 154, 112801.	2.5	18
3	Microbial production and transformation of polyphenols. , 2022, , 189-208.		4
4	Transcriptome analysis at mid-stage seed development in litchi with contrasting seed size. 3 Biotech, 2022, 12, 47.	1.1	0
5	Characterization of ACE inhibitory and antioxidant peptides in yak and cow milk hard chhurpi cheese of the Sikkim Himalayan region. Food Chemistry: X, 2022, 13, 100231.	1.8	27
6	Biodegradation of plastics for sustainable environment. Bioresource Technology, 2022, 347, 126697.	4.8	68
7	Molecular dissemination of emerging antibiotic, biocide, and metal co-resistomes in the Himalayan hot springs. Journal of Environmental Management, 2022, 307, 114569.	3.8	8
8	Advancements in Molecular Techniques for the Detection of Foodborne Pathogens. , 2022, , 195-224.		2
9	Peptide candidates for the development of therapeutics and vaccines against \hat{I}^2 -coronavirus infection. Bioengineered, 2022, 13, 9435-9454.	1.4	6
10	A highly alkaline pectate lyase from the Himalayan hot spring metagenome and its bioscouring applications. Process Biochemistry, 2022, 115, 100-109.	1.8	6
11	Production and characterization of bioactive peptides from rice beans using <i>Bacillus subtilis</i> . Bioresource Technology, 2022, 351, 126932.	4.8	19
12	Cold-adaptive traits identified by comparative genomic analysis of a lipase-producing <i>Pseudomonas</i> sp. HS6 isolated from snow-covered soil of Sikkim Himalaya and molecular simulation of lipase for wide substrate specificity. Current Genetics, 2022, , .	0.8	2
13	An acid-tolerant and cold-active \hat{I}^2 -galactosidase potentially suitable to process milk and whey samples. Applied Microbiology and Biotechnology, 2022, 106, 3599-3610.	1.7	7
14	Whey valorization by microbial and enzymatic bioprocesses for the production of nutraceuticals and value-added products. Bioresource Technology Reports, 2022, 19, 101144.	1.5	21
15	Development of a Prebiotic Oligosaccharide Rich Functional Beverage from Sweet Sorghum Stalk Biomass. Waste and Biomass Valorization, 2021, 12, 2001-2012.	1.8	7
16	Biotechnological approaches for the production of designer cheese with improved functionality. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 960-979.	5.9	30
17	A novel cold-active type I pullulanase from a hot-spring metagenome for effective debranching and production of resistant starch. Bioresource Technology, 2021, 320, 124288.	4.8	21
18	Biochemical characterization of a novel thermo- \hat{C} -tolerant GH5 endoglucanase from a thermal spring metagenome. Biotechnology and Bioengineering, 2021, 118, 1531-1544.	1.7	8

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19	Role of plant long noncoding RNAs in the regulation of plant metabolism. , 2021, , 313-337.		0
20	d-Allulose 3-epimerase of <i>Bacillus</i> sp. origin manifests profuse heat stability and noteworthy potential of d-fructose epimerization. <i>Microbial Cell Factories</i> , 2021, 20, 60.	1.9	21
21	A Multifunctional Peptide From <i>Bacillus</i> Fermented Soybean for Effective Inhibition of SARS-CoV-2 S1 Receptor Binding Domain and Modulation of Toll Like Receptor 4: A Molecular Docking Study. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 636647.	1.6	26
22	Production, characterization and molecular docking of antioxidant peptides from peptidome of kinema fermented with proteolytic <i>Bacillus</i> spp.. <i>Food Research International</i> , 2021, 141, 110161.	2.9	61
23	A novel β -glucosidase from a hot-spring metagenome shows elevated thermal stability and tolerance to glucose and ethanol. <i>Enzyme and Microbial Technology</i> , 2021, 145, 109764.	1.6	23
24	Biotransformation of hydroquinone into α -arbutin by transglucosylation activity of a metagenomic amylosucrase. <i>3 Biotech</i> , 2021, 11, 362.	1.1	7
25	Study of <i>Triticum aestivum</i> Resistome in Response to Wheat dwarf India Virus Infection. <i>Life</i> , 2021, 11, 955.	1.1	2
26	Novel insight into valorization of potato peel biomass into type III resistant starch and maltooligosaccharide molecules. <i>Environmental Technology and Innovation</i> , 2021, 24, 101827.	3.0	13
27	Biotechnological potential of psychrophilic microorganisms as the source of cold-active enzymes in food processing applications. <i>3 Biotech</i> , 2021, 11, 479.	1.1	16
28	A Novel Trehalose Synthase for the Production of Trehalose and Trehalulose. <i>Microbiology Spectrum</i> , 2021, 9, e0133321.	1.2	9
29	Metagenomics revealing molecular profiling of community structure and metabolic pathways in natural hot springs of the Sikkim Himalaya. <i>BMC Microbiology</i> , 2020, 20, 246.	1.3	32
30	A Potential Peptide From Soy Cheese Produced Using <i>Lactobacillus delbrueckii</i> WS4 for Effective Inhibition of SARS-CoV-2 Main Protease and S1 Glycoprotein. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 601753.	1.6	39
31	Characterization of a novel xylanase from an extreme temperature hot spring metagenome for xylooligosaccharide production. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4889-4901.	1.7	32
32	Comparative genome analysis provides shreds of molecular evidence for reclassification of <i>Leuconostoc mesenteroides</i> MTCC 10508 as a strain of <i>Leu. suionicum</i> . <i>Genomics</i> , 2020, 112, 4023-4031.	1.3	13
33	A Novel α -Allulose 3-Epimerase Gene from the Metagenome of a Thermal Aquatic Habitat and α -Allulose Production by <i>Bacillus subtilis</i> Whole-Cell Catalysis. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	40
34	Enzymatic systems for the development of juice clarification strategies. , 2020, , 397-412.		4
35	An introduction to enzyme structure dynamics and enzyme catalysis. , 2020, , 3-10.		0
36	Enzyme engineering strategies for catalytic activity in wide pH range. , 2020, , 91-101.		0

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37	Chimeric enzyme designing for the synthesis of multifunctional biocatalysts. , 2020, , 119-143.		0
38	Role of enzymatic bioprocesses for the production of functional food and nutraceuticals. , 2020, , 309-334.		9
39	Enzyme entrapment approaches and their applications. , 2020, , 191-216.		6
40	Metagenomic Insights Into the Taxonomic and Functional Features of Kinema, a Traditional Fermented Soybean Product of Sikkim Himalaya. <i>Frontiers in Microbiology</i> , 2019, 10, 1744.	1.5	50
41	Alginate-pectin co-encapsulation of dextransucrase and dextranase for oligosaccharide production from sucrose feedstocks. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1681-1693.	1.7	12
42	Characterization of a novel amylosucrase gene from the metagenome of a thermal aquatic habitat, and its use in turanose production from sucrose biomass. <i>Enzyme and Microbial Technology</i> , 2019, 131, 109372.	1.6	15
43	Kinetic characterization of laccase from <i>Bacillus atrophaeus</i> , and its potential in juice clarification in free and immobilized forms. <i>Journal of Microbiology</i> , 2019, 57, 900-909.	1.3	18
44	Catalytic biosynthesis of levan and short-chain fructooligosaccharides from sucrose-containing feedstocks by employing the levansucrase from <i>Leuconostoc mesenteroides</i> MTCC10508. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 486-495.	3.6	48
45	Long noncoding <i>scRNA</i> s and <i>miRNA</i> s regulating terpene and tartaric acid biosynthesis in rose-scented geranium. <i>FEBS Letters</i> , 2019, 593, 2235-2249.	1.3	19
46	The Phytochemical Composition, Biological Effects and Biotechnological Approaches to the Production of High-Value Essential Oil from Geranium. , 2019, , 327-352.		16
47	Basics and Roots of Synthetic Biology. , 2019, , 3-22.		1
48	Wheat TaVIT2D restores phenotype and mediates iron homeostasis during growth of <i>Arabidopsis thaliana</i> in iron-deficient conditions. <i>Plant Physiology Reports</i> , 2019, 24, 24-34.	0.7	1
49	Molecular Approaches in Plant Biology and Environmental Challenges. <i>Energy, Environment, and Sustainability</i> , 2019, , 1-5.	0.6	3
50	Role of Superoxide Dismutases (SODs) in Stress Tolerance in Plants. <i>Energy, Environment, and Sustainability</i> , 2019, , 51-77.	0.6	18
51	An integrated bio-process for production of functional biomolecules utilizing raw and by-products from dairy and sugarcane industries. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1121-1131.	1.7	18
52	Comparative analysis of transcriptome in two wheat genotypes with contrasting levels of drought tolerance. <i>Protoplasma</i> , 2018, 255, 1487-1504.	1.0	23
53	Transcriptome mining and in silico structural and functional analysis of ascorbic acid and tartaric acid biosynthesis pathway enzymes in rose-scented geranium. <i>Molecular Biology Reports</i> , 2018, 45, 315-326.	1.0	19
54	Development of a thermo-stable and recyclable magnetic nanobiocatalyst for bioprocessing of fruit processing residues and D-allulose synthesis. <i>Bioresource Technology</i> , 2018, 247, 633-639.	4.8	43

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55	Synthetic Biology Advances for Enrichment of Bioactive Molecules in Plants. , 2018, , 117-145.		3
56	Metagenomic analysis of geothermal water reservoir sites exploring carbohydrate-related thermozyms. International Journal of Biological Macromolecules, 2018, 119, 882-895.	3.6	63
57	Selective nerve root blocks vs. caudal epidural injection for single level prolapsed lumbar intervertebral disc â€œ A prospective randomized study. Journal of Clinical Orthopaedics and Trauma, 2017, 8, 142-147.	0.6	12
58	De novo transcriptome analysis of rose-scented geranium provides insights into the metabolic specificity of terpene and tartaric acid biosynthesis. BMC Genomics, 2017, 18, 74.	1.2	37
59	Advanced Absorption Correction for 3D Elemental Images Applied to the Analysis of Pearl Millet Seeds Obtained with a Laboratory Confocal Micro X-ray Fluorescence Spectrometer. Analytical Chemistry, 2017, 89, 5453-5460.	3.2	21
60	Recent developments in l-glutaminase production and applications â€œ An overview. Bioresource Technology, 2017, 245, 1766-1774.	4.8	46
61	Prebiotic Oligosaccharides: Special Focus on Fructooligosaccharides, Its Biosynthesis and Bioactivity. Applied Biochemistry and Biotechnology, 2017, 183, 613-635.	1.4	122
62	Engineering Resistance to Plant Viruses. , 2017, , 75-100.		2
63	Improved operational stability of d -psicose 3-epimerase by a novel protein engineering strategy, and d -psicose production from fruit and vegetable residues. Bioresource Technology, 2016, 216, 121-127.	4.8	64
64	A novel approach of integrated bioprocessing of cane molasses for production of prebiotic and functional bioproducts. Bioresource Technology, 2016, 219, 311-318.	4.8	48
65	Transcriptional changes during ovule development in two genotypes of litchi (Litchi chinensis Sonn.) with contrast in seed size. Scientific Reports, 2016, 6, 36304.	1.6	7
66	Grafting Triggers Differential Responses between Scion and Rootstock. PLoS ONE, 2015, 10, e0124438.	1.1	29
67	Spt-Ada-Gcn5-Acetyltransferase (SAGA) Complex in Plants: Genome Wide Identification, Evolutionary Conservation and Functional Determination. PLoS ONE, 2015, 10, e0134709.	1.1	32
68	De novo assembly and characterization of transcriptomes of early-stage fruit from two genotypes of Annona squamosa L. with contrast in seed number. BMC Genomics, 2015, 16, 86.	1.2	14
69	A novel male sterility-fertility restoration system in plants for hybrid seed production. Scientific Reports, 2015, 5, 11274.	1.6	37
70	Cotton leaf curl Burewala virus with intact or mutant transcriptional activator proteins: complexity of cotton leaf curl disease. Archives of Virology, 2015, 160, 1219-1228.	0.9	18
71	Male sterility systems in wheat and opportunities for hybrid wheat development. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	64
72	Spatial X-ray fluorescence micro-imaging of minerals in grain tissues of wheat and related genotypes. Planta, 2014, 240, 277-289.	1.6	40

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73	Virus-induced gene silencing using a modified betasatellite: a potential candidate for functional genomics of crops. Archives of Virology, 2014, 159, 2109-2113.	0.9	16
74	ΨC1 is a pathogenicity determinant: not only for begomoviruses but also for a mastrevirus. Archives of Virology, 2014, 159, 3071-3076.	0.9	14
75	Distinct Role of Core Promoter Architecture in Regulation of Light-Mediated Responses in Plant Genes. Molecular Plant, 2014, 7, 626-641.	3.9	41
76	Differential expression of structural genes for the late phase of phytic acid biosynthesis in developing seeds of wheat (<i>Triticum aestivum</i> L.). Plant Science, 2014, 224, 74-85.	1.7	68
77	Association of Satellites with a Mastrevirus in Natural Infection: Complexity of Wheat Dwarf India Virus Disease. Journal of Virology, 2014, 88, 7093-7104.	1.5	73
78	Comparative Transcriptional Profiling of Two Wheat Genotypes, with Contrasting Levels of Minerals in Grains, Shows Expression Differences during Grain Filling. PLoS ONE, 2014, 9, e111718.	1.1	23
79	Amplified Fragment Length Polymorphism Fingerprinting to Identify Genetic Relatedness among Lychee Cultivars and Markers Associated with Small-seeded Cultivars. Journal of the American Society for Horticultural Science, 2014, 139, 657-668.	0.5	14
80	A new betasatellite associated with cotton leaf curl Burewala virus infecting tomato in India: influence on symptoms and viral accumulation. Archives of Virology, 2013, 158, 1349-1353.	0.9	15
81	Detection and characterization of a new betasatellite: variation in disease symptoms of tomato leaf curl Pakistan virus-India due to associated betasatellite. Archives of Virology, 2013, 158, 257-261.	0.9	8
82	Molecular characterization and pathogenicity of a carrot (<i>Daucus carota</i>) infecting begomovirus and associated betasatellite from India. Virus Research, 2013, 178, 478-485.	1.1	13
83	Pattern of iron distribution in maternal and filial tissues in wheat grains with contrasting levels of iron. Journal of Experimental Botany, 2013, 64, 3249-3260.	2.4	58
84	A novel mastrevirus infecting wheat in India. Archives of Virology, 2012, 157, 2031-2034.	0.9	20
85	BECLIN1 from <i>Arabidopsis thaliana</i> under the generic control of regulated expression systems, a strategy for developing male sterile plants. Plant Biotechnology Journal, 2010, 8, 1005-1022.	4.1	28
86	Interactions between upstream and core promoter sequences determine gene expression and nucleosome positioning in tobacco PR-1a promoter. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2008, 1779, 634-644.	0.9	22
87	Molecules and Methods for the Control of Biotic Stress Especially the Insect Pests " Present Scenario and Future Perspective. , 0, , .		0