

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

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docs citations

98
times ranked

2038
citing authors

#	ARTICLE	IF	CITATIONS
1	Prebiotic Oligosaccharides: Special Focus on Fructooligosaccharides, Its Biosynthesis and Bioactivity. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 613-635.	1.4	122
2	Association of Satellites with a Mastrevirus in Natural Infection: Complexity of Wheat Dwarf India Virus Disease. <i>Journal of Virology</i> , 2014, 88, 7093-7104.	1.5	73
3	Differential expression of structural genes for the late phase of phytic acid biosynthesis in developing seeds of wheat (<i>Triticum aestivum</i> L.). <i>Plant Science</i> , 2014, 224, 74-85.	1.7	68
4	Biodegradation of plastics for sustainable environment. <i>Bioresource Technology</i> , 2022, 347, 126697.	4.8	68
5	Male sterility systems in wheat and opportunities for hybrid wheat development. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	64
6	Improved operational stability of d -psicose 3-epimerase by a novel protein engineering strategy, and d -psicose production from fruit and vegetable residues. <i>Bioresource Technology</i> , 2016, 216, 121-127.	4.8	64
7	Metagenomic analysis of geothermal water reservoir sites exploring carbohydrate-related thermozymes. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 882-895.	3.6	63
8	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
9	Pattern of iron distribution in maternal and filial tissues in wheat grains with contrasting levels of iron. <i>Journal of Experimental Botany</i> , 2013, 64, 3249-3260.	2.4	58
10	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
11	A novel approach of integrated bioprocessing of cane molasses for production of prebiotic and functional bioproducts. <i>Bioresource Technology</i> , 2016, 219, 311-318.	4.8	48
12	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
13	Recent developments in l-glutaminase production and applications “ An overview. <i>Bioresource Technology</i> , 2017, 245, 1766-1774.	4.8	46
14	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
15	Distinct Role of Core Promoter Architecture in Regulation of Light-Mediated Responses in Plant Genes. <i>Molecular Plant</i> , 2014, 7, 626-641.	3.9	41
16	Spatial X-ray fluorescence micro-imaging of minerals in grain tissues of wheat and related genotypes. <i>Planta</i> , 2014, 240, 277-289.	1.6	40
17	A Novel <scpd>-Allulose 3-Epimerase Gene from the Metagenome of a Thermal Aquatic Habitat and <scpd>-Allulose Production by <i>Bacillus subtilis</i> Whole-Cell Catalysis. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	40
18	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

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19	A novel male sterility-fertility restoration system in plants for hybrid seed production. Scientific Reports, 2015, 5, 11274.	1.6	37
20	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
21	Spt-Ada-Gcn5-Acetyltransferase (SAGA) Complex in Plants: Genome Wide Identification, Evolutionary Conservation and Functional Determination. PLoS ONE, 2015, 10, e0134709.	1.1	32
22	Metagenomics revealing molecular profiling of community structure and metabolic pathways in natural hot springs of the Sikkim Himalaya. BMC Microbiology, 2020, 20, 246.	1.3	32
23	Characterization of a novel xylanase from an extreme temperature hot spring metagenome for xylooligosaccharide production. Applied Microbiology and Biotechnology, 2020, 104, 4889-4901.	1.7	32
24	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
25	Grafting Triggers Differential Responses between Scion and Rootstock. PLoS ONE, 2015, 10, e0124438.	1.1	29
26	BECLIN1 from Arabidopsis thaliana 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
27	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
28	A Multifunctional Peptide From Bacillus Fermented Soybean for Effective Inhibition of SARS-CoV-2 S1 Receptor Binding Domain and Modulation of Toll Like Receptor 4: A Molecular Docking Study. Frontiers in Molecular Biosciences, 2021, 8, 636647.	1.6	26
29	Comparative analysis of transcriptome in two wheat genotypes with contrasting levels of drought tolerance. Protoplasma, 2018, 255, 1487-1504.	1.0	23
30	A novel β -glucosidase from a hot-spring metagenome shows elevated thermal stability and tolerance to glucose and ethanol. Enzyme and Microbial Technology, 2021, 145, 109764.	1.6	23
31	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
32	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
33	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
34	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
35	d-Allulose 3-epimerase of Bacillus sp. origin manifests profuse heat stability and noteworthy potential of d-fructose epimerization. Microbial Cell Factories, 2021, 20, 60.	1.9	21
36	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

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37	A novel mastrevirus infecting wheat in India. <i>Archives of Virology</i> , 2012, 157, 2031-2034.	0.9	20
38	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
39	Long noncoding <i>scp</i> RNA and <i>mi</i> RNA regulating terpene and tartaric acid biosynthesis in rose-scented geranium. <i>FEBS Letters</i> , 2019, 593, 2235-2249.	1.3	19
40	Production and characterization of bioactive peptides from rice beans using <i>Bacillus subtilis</i> . <i>Bioresource Technology</i> , 2022, 351, 126932.	4.8	19
41	Cotton leaf curl Burewala virus with intact or mutant transcriptional activator proteins: complexity of cotton leaf curl disease. <i>Archives of Virology</i> , 2015, 160, 1219-1228.	0.9	18
42	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
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	Role of Superoxide Dismutases (SODs) in Stress Tolerance in Plants. <i>Energy, Environment, and Sustainability</i> , 2019, , 51-77.	0.6	18
45	Characterization of native lactic acid bacteria from traditionally fermented chhurpi of Sikkim Himalayan region for the production of chhurpi cheese with enhanced antioxidant effect. <i>LWT - Food Science and Technology</i> , 2022, 154, 112801.	2.5	18
46	Virus-induced gene silencing using a modified betasatellite: a potential candidate for functional genomics of crops. <i>Archives of Virology</i> , 2014, 159, 2109-2113.	0.9	16
47	The Phytochemical Composition, Biological Effects and Biotechnological Approaches to the Production of High-Value Essential Oil from Geranium. , 2019, , 327-352.		16
48	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
49	A new betasatellite associated with cotton leaf curl Burewala virus infecting tomato in India: influence on symptoms and viral accumulation. <i>Archives of Virology</i> , 2013, 158, 1349-1353.	0.9	15
50	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
51	ΨC1 is a pathogenicity determinant: not only for begomoviruses but also for a mastrevirus. <i>Archives of Virology</i> , 2014, 159, 3071-3076.	0.9	14
52	De novo assembly and characterization of transcriptomes of early-stage fruit from two genotypes of <i>Annona squamosa</i> L. with contrast in seed number. <i>BMC Genomics</i> , 2015, 16, 86.	1.2	14
53	Amplified Fragment Length Polymorphism Fingerprinting to Identify Genetic Relatedness among Lychee Cultivars and Markers Associated with Small-seeded Cultivars. <i>Journal of the American Society for Horticultural Science</i> , 2014, 139, 657-668.	0.5	14
54	Molecular characterization and pathogenicity of a carrot (<i>Daucus carota</i>) infecting begomovirus and associated betasatellite from India. <i>Virus Research</i> , 2013, 178, 478-485.	1.1	13

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55	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
56	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
57	Selective nerve root blocks vs. caudal epidural injection for single level prolapsed lumbar intervertebral disc – A prospective randomized study. <i>Journal of Clinical Orthopaedics and Trauma</i> , 2017, 8, 142-147.	0.6	12
58	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
59	Role of enzymatic bioprocesses for the production of functional food and nutraceuticals. , 2020, , 309-334.		9
60	A Novel Trehalose Synthase for the Production of Trehalose and Trehalulose. <i>Microbiology Spectrum</i> , 2021, 9, e0133321.	1.2	9
61	Detection and characterization of a new betasatellite: variation in disease symptoms of tomato leaf curl Pakistan virus-India due to associated betasatellite. <i>Archives of Virology</i> , 2013, 158, 257-261.	0.9	8
62	Biochemical characterization of a novel thermo-tolerant GH5 endoglucanase from a thermal spring metagenome. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1531-1544.	1.7	8
63	Molecular dissemination of emerging antibiotic, biocide, and metal co-resistomes in the Himalayan hot springs. <i>Journal of Environmental Management</i> , 2022, 307, 114569.	3.8	8
64	Transcriptional changes during ovule development in two genotypes of litchi (<i>Litchi chinensis</i> Sonn.) with contrast in seed size. <i>Scientific Reports</i> , 2016, 6, 36304.	1.6	7
65	Development of a Prebiotic Oligosaccharide Rich Functional Beverage from Sweet Sorghum Stalk Biomass. <i>Waste and Biomass Valorization</i> , 2021, 12, 2001-2012.	1.8	7
66	Biotransformation of hydroquinone into β -arbutin by transglucosylation activity of a metagenomic amylosucrase. <i>3 Biotech</i> , 2021, 11, 362.	1.1	7
67	An acid-tolerant and cold-active β -galactosidase potentially suitable to process milk and whey samples. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3599-3610.	1.7	7
68	Enzyme entrapment approaches and their applications. , 2020, , 191-216.		6
69	Peptide candidates for the development of therapeutics and vaccines against β -coronavirus infection. <i>Bioengineered</i> , 2022, 13, 9435-9454.	1.4	6
70	A highly alkaline pectate lyase from the Himalayan hot spring metagenome and its bioscouring applications. <i>Process Biochemistry</i> , 2022, 115, 100-109.	1.8	6
71	Enzymatic systems for the development of juice clarification strategies. , 2020, , 397-412.		4
72	Microbial production and transformation of polyphenols. , 2022, , 189-208.		4

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73	Synthetic Biology Advances for Enrichment of Bioactive Molecules in Plants. , 2018, , 117-145.		3
74	Molecular Approaches in Plant Biology and Environmental Challenges. Energy, Environment, and Sustainability, 2019, , 1-5.	0.6	3
75	Engineering Resistance to Plant Viruses. , 2017, , 75-100.		2
76	Study of Triticum aestivum Resistome in Response to Wheat dwarf India Virus Infection. Life, 2021, 11, 955.	1.1	2
77	Advancements in Molecular Techniques for the Detection of Foodborne Pathogens. , 2022, , 195-224.		2
78	Cold-adaptive traits identified by comparative genomic analysis of a lipase-producing Pseudomonas 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
79	Basics and Roots of Synthetic Biology. , 2019, , 3-22.		1
80	Wheat TaVIT2D restores phenotype and mediates iron homeostasis during growth of Arabidopsis thaliana in iron-deficient conditions. Plant Physiology Reports, 2019, 24, 24-34.	0.7	1
81	Microbial bioprocesses for production of nutraceuticals and functional foods. , 2022, , 1-29.		1
82	Molecules and Methods for the Control of Biotic Stress Especially the Insect Pests " Present Scenario and Future Perspective. , 0, , .		0
83	An introduction to enzyme structure dynamics and enzyme catalysis. , 2020, , 3-10.		0
84	Enzyme engineering strategies for catalytic activity in wide pH range. , 2020, , 91-101.		0
85	Chimeric enzyme designing for the synthesis of multifunctional biocatalysts. , 2020, , 119-143.		0
86	Role of plant long noncoding RNAs in the regulation of plant metabolism. , 2021, , 313-337.		0
87	Transcriptome analysis at mid-stage seed development in litchi with contrasting seed size. 3 Biotech, 2022, 12, 47.	1.1	0