

Ram S Singh

List of Publications by Year in descending order

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78
papers

3,499
citations

172207

29
h-index

143772

57
g-index

78
all docs

78
docs citations

78
times ranked

3486
citing authors

#	ARTICLE	IF	CITATIONS
1	Pullulan: Microbial sources, production and applications. <i>Carbohydrate Polymers</i> , 2008, 73, 515-531.	5.1	565
2	Pullulan: A novel molecule for biomedical applications. <i>Carbohydrate Polymers</i> , 2017, 171, 102-121.	5.1	223
3	Microbial production, immobilization and applications of $\hat{1}^2$ -D-galactosidase. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 530-543.	1.6	214
4	Pullulan and pullulan derivatives as promising biomolecules for drug and gene targeting. <i>Carbohydrate Polymers</i> , 2015, 123, 190-207.	5.1	213
5	Pullulan production from agro-industrial waste and its applications in food industry: A review. <i>Carbohydrate Polymers</i> , 2019, 217, 46-57.	5.1	136
6	Recent insights on applications of pullulan in tissue engineering. <i>Carbohydrate Polymers</i> , 2016, 153, 455-462.	5.1	114
7	Mushroom lectins: Current status and future perspectives. <i>Critical Reviews in Biotechnology</i> , 2010, 30, 99-126.	5.1	113
8	Recent insights in enzymatic synthesis of fructooligosaccharides from inulin. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 565-572.	3.6	110
9	Multifunctional Iron Bound Lactoferrin and Nanomedicinal Approaches to Enhance Its Bioactive Functions. <i>Molecules</i> , 2015, 20, 9703-9731.	1.7	98
10	A panorama of bacterial inulinases: Production, purification, characterization and industrial applications. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 312-322.	3.6	91
11	Production of high fructose syrup from Asparagus inulin using immobilized exoinulinase from <i>Kluyveromyces marxianus</i> YS-1. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007, 34, 649-655.	1.4	77
12	Pullulan in biomedical research and development - A review. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 694-706.	3.6	70
13	Lectins from red algae and their biomedical potential. <i>Journal of Applied Phycology</i> , 2018, 30, 1833-1858.	1.5	68
14	Response Surface Optimization of the Critical Medium Components for Pullulan Production by <i>Aureobasidium pullulans</i> FB-1. <i>Applied Biochemistry and Biotechnology</i> , 2009, 152, 42-53.	1.4	58
15	Algal lectins as promising biomolecules for biomedical research. <i>Critical Reviews in Microbiology</i> , 2015, 41, 77-88.	2.7	54
16	Biocatalytic strategies in the production of galacto-oligosaccharides and its global status. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 667-679.	3.6	51
17	Mushroom Lectins as Promising Anticancer Substances. <i>Current Protein and Peptide Science</i> , 2016, 17, 797-807.	0.7	46
18	Partial purification and characterization of exoinulinase from <i>Kluyveromyces marxianus</i> YS-1 for preparation of high-fructose syrup. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 733-8.	0.9	45

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19	Cyanobacterial lectins characteristics and their role as antiviral agents. International Journal of Biological Macromolecules, 2017, 102, 475-496.	3.6	42
20	Production, Purification, Characterization and Applications of Fungal Inulinases. Current Biotechnology, 2018, 7, 242-260.	0.2	40
21	Hydrolysis of citrus peel naringin by recombinant Î±-L-rhamnosidase from <i>Clostridium stercorarium</i> . Journal of Chemical Technology and Biotechnology, 2010, 85, 1419-1422.	1.6	38
22	Purification and Characterization of a Mucin Specific Mycelial Lectin from <i>Aspergillus gorakhpurensis</i> : Application for Mitogenic and Antimicrobial Activity. PLoS ONE, 2014, 9, e109265.	1.1	37
23	Current trends of lectins from microfungi. Critical Reviews in Biotechnology, 2011, 31, 193-210.	5.1	36
24	Thermostable and halotolerant keratinase from <i>Bacillus aerius</i> NSMk2 with remarkable dehairing and laundry applications. Journal of Basic Microbiology, 2019, 59, 555-568.	1.8	36
25	Chicken Feather Waste Hydrolysate as a Superior Biofertilizer in Agroindustry. Current Microbiology, 2021, 78, 2212-2230.	1.0	36
26	Screening of <i>Aspergillus</i> species for occurrence of lectins and their characterization. Journal of Basic Microbiology, 2008, 48, 112-117.	1.8	33
27	Molecular and biochemical characterization of a new endoinulinase producing bacterial strain of <i>Bacillus safensis</i> AS-08. Biologia (Poland), 2013, 68, 1028-1033.	0.8	33
28	Fructose production from inulin using fungal inulinase immobilized on 3-aminopropyl-triethoxysilane functionalized multiwalled carbon nanotubes. International Journal of Biological Macromolecules, 2019, 125, 41-52.	3.6	33
29	Mushroom lectins in biomedical research and development. International Journal of Biological Macromolecules, 2020, 151, 1340-1350.	3.6	33
30	Protozoa lectins and their role in host-pathogen interactions. Biotechnology Advances, 2016, 34, 1018-1029.	6.0	30
31	Microbial lectins and their prospective mitogenic potential. Critical Reviews in Microbiology, 2014, 40, 329-347.	2.7	29
32	Amoebiasis vaccine development: A snapshot on <i>E. histolytica</i> with emphasis on perspectives of Gal/GalNAc lectin. International Journal of Biological Macromolecules, 2016, 91, 258-268.	3.6	29
33	Development of a stable continuous flow immobilized enzyme reactor for the hydrolysis of inulin. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 777-782.	1.4	28
34	Characteristics of lichen lectins and their role in symbiosis. Symbiosis, 2014, 62, 123-134.	1.2	28
35	Hydrolysis of milk lactose in a packed bed reactor system using immobilized yeast cells. Journal of Chemical Technology and Biotechnology, 2011, 86, 42-46.	1.6	26
36	Endoinulinase production by a new endoinulinase producer <i>Aspergillus tritici</i> BGPUP6 using a low cost substrate. International Journal of Biological Macromolecules, 2016, 92, 1113-1122.	3.6	25

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37	Investigating aqueous phase separation of pullulan from <i>Aureobasidium pullulans</i> and its characterization. <i>Carbohydrate Polymers</i> , 2019, 223, 115103.	5.1	25
38	Screening of <i>Penicillium</i> species for occurrence of lectins and their characterization. <i>Journal of Basic Microbiology</i> , 2009, 49, 471-476.	1.8	24
39	Carbamoyl ethyl pullulan: QbD based synthesis, characterization and corneal wound healing potential. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 2245-2255.	3.6	24
40	Purification and characterization of two isoforms of exoinulinase from <i>Penicillium oxalicum</i> BGPUP-4 for the preparation of high fructose syrup from inulin. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1974-1983.	3.6	23
41	Carbamoyl ethyl locust bean gum: Synthesis, characterization and evaluation of its film forming potential. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 348-358.	3.6	23
42	Chicken feather waste-derived protein hydrolysate as a potential biostimulant for cultivation of mung beans. <i>Biologia (Poland)</i> , 2021, 76, 1807-1815.	0.8	22
43	Purification and characterization of a mucin-binding mycelial lectin from <i>Aspergillus nidulans</i> with potent mitogenic activity. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 547-554.	1.7	21
44	Functionalization of multiwalled carbon nanotubes for enzyme immobilization. <i>Methods in Enzymology</i> , 2020, 630, 25-38.	0.4	21
45	Solid-State Fermentation of Carrot Pomace for the Production of Inulinase by <i>Penicillium oxalicum</i> BGPUP-4. <i>Food Technology and Biotechnology</i> , 2018, 56, .	0.9	21
46	Response surface optimization of solid state fermentation for inulinase production from <i>Penicillium oxalicum</i> using corn bran. <i>Journal of Food Science and Technology</i> , 2018, 55, 2533-2540.	1.4	20
47	Further screening of <i>Aspergillus</i> species for occurrence of lectins and their partial characterization. <i>Journal of Basic Microbiology</i> , 2010, 50, 90-97.	1.8	19
48	Immunomodulatory and Therapeutic Potential of a Mycelial Lectin from <i>Aspergillus nidulans</i> . <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 624-638.	1.4	19
49	Antimicrobial activity and carbohydrate specificity of new mycelial lectins from <i>Fusarium</i> sp.. <i>Biologia (Poland)</i> , 2014, 69, 1295-1302.	0.8	19
50	New lectins from aspergilli and their carbohydrate specificity. <i>Biologia (Poland)</i> , 2014, 69, 15-23.	0.8	19
51	Purification, Characterization, and Mitogenic Potential of a Mucin-Specific Mycelial Lectin from <i>Aspergillus sparsus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 1938-1947.	1.4	18
52	Purification and characterization of a mitogenic lectin from <i>Penicillium duclauxii</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 116, 426-433.	3.6	18
53	Enhanced production of recombinant aspartase of <i>Aeromonas media</i> NFB-5 in a stirred tank reactor. <i>Bioresource Technology</i> , 2013, 145, 217-223.	4.8	17
54	Immunomodulatory and therapeutic potential of a mucin-specific mycelial lectin from <i>Aspergillus panamensis</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 96, 241-248.	3.6	17

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55	Investigating the potential of carboxymethyl pullulan for protecting the rabbit eye from systematically induced precorneal tear film damage. <i>Experimental Eye Research</i> , 2019, 184, 91-100.	1.2	17
56	Purification and characterization of a mycelial mucin specific lectin from <i>Aspergillus panamensis</i> with potent mitogenic and antibacterial activity. <i>Process Biochemistry</i> , 2015, 50, 2251-2258.	1.8	16
57	Structural aspects and biomedical applications of microfungus lectins. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 1097-1107.	3.6	16
58	Optimization of culture conditions and characterization of a new lectin from <i>Aspergillus niger</i> . <i>Indian Journal of Microbiology</i> , 2009, 49, 219-222.	1.5	14
59	Immobilization of Inulinase on Aminated Multiwalled Carbon Nanotubes by Glutaraldehyde Cross-Linking for the Production of Fructose. <i>Catalysis Letters</i> , 2019, 149, 2718-2727.	1.4	14
60	Nutritional Enhancement of Chicken Feather Waste by <i>Bacillus aerius</i> NSMk2. <i>Indian Journal of Microbiology</i> , 2020, 60, 518-525.	1.5	14
61	New mycelial lectins from penicilli with complex carbohydrate specificity. <i>Biologia (Poland)</i> , 2016, 71, 388-395.	0.8	11
62	Purification and characterization of a heterodimeric mycelial lectin from <i>Penicillium proteolyticum</i> with potent mitogenic activity. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 124-131.	3.6	11
63	Purification and Characterization of a Novel Thermostable Mycelial Lectin from <i>Aspergillus terreicola</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1339-1349.	1.4	10
64	Lectin activity in mycelial extracts of <i>Fusarium</i> species. <i>Brazilian Journal of Microbiology</i> , 2016, 47, 775-780.	0.8	10
65	Single-Step Purification and Characterization of Recombinant Aspartase of <i>Aeromonas media</i> NFB-5. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 991-1001.	1.4	9
66	Modulation of immunocyte functions by a mucin-specific lectin from <i>Aspergillus gorakhpurensis</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 101, 172-178.	3.6	9
67	Sequential statistical optimization of lactose-based medium and process variables for inulinase production from <i>Penicillium oxalicum</i> BGPUP-4. <i>3 Biotech</i> , 2018, 8, 38.	1.1	9
68	Optimization and validation of keratinase production by <i>Bacillus aerius</i> NSMk2 in a stirred tank reactor using response surface methodology. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	7
69	Downstream processing and structural confirmation of pullulan - A comprehensive review. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 553-564.	3.6	7
70	Purification and characterization of a thermostable mycelial lectin from basidiomycete <i>Lentinus squarrosulus</i> . <i>Biologia (Poland)</i> , 2013, 68, 1034-1040.	0.8	6
71	Purification and characterisation of a xylose-specific mitogenic lectin from <i>Fusarium sambucinum</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 152, 393-402.	3.6	4
72	Solid-State Fermentation of Carrot Pomace for the Production of Inulinase by BGPUP-4. <i>Food Technology and Biotechnology</i> , 2018, 56, 31-39.	0.9	2

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73	Methane enhancement by the co-digestion of thermochemical alkali solubilized rice husk and cow manure: Lignocellulosics decomposition perspectives. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 13963-13975.	2.9	2
74	Synthesis of 1-(4-hydroxy-3-methoxyphenyl)-2,3,4,9-tetrahydro-1H- β -carboline-3-carboxylic acid derivatives as mast cell stabilizers. <i>Medicinal Chemistry Research</i> , 2020, 29, 1400-1412.	1.1	1
75	Methane Refinement by Iron Oxide, Packed Column Water Scrubbing, and Activated Charcoal Scrubbing Techniques. <i>Waste and Biomass Valorization</i> , 2022, 13, 2295-2307.	1.8	1
76	Co-digestion of chicken manure with goose manure and thermo-oxidative-treated wheat straw in CSTR: co-digestion synergistics and OLR optimization through kinetic modeling. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4165-4176.	2.9	1
77	Purification of a potent mitogenic homodimeric <i>Penicillium griseoroseum</i> lectin and its characterisation. <i>Journal of Basic Microbiology</i> , 2019, 59, 1238-1247.	1.8	0
78	Assessing the viability of carbamoyl ethyl pullulan-g-stearic acid based smart polymeric micelles for tumor targeting of raloxifene. <i>Drug Development and Industrial Pharmacy</i> , 2021, 47, 1986-1997.	0.9	0