

Pratyoosh Shukla

List of Publications by Year in descending order

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193
papers

7,314
citations

38742

50
h-index

71685

76
g-index

199
all docs

199
docs citations

199
times ranked

7810
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotics bioremediation: Perspectives on its ecotoxicity and resistance. <i>Environment International</i> , 2019, 124, 448-461.	10.0	377
2	Contemporary enzyme based technologies for bioremediation: A review. <i>Journal of Environmental Management</i> , 2018, 210, 10-22.	7.8	372
3	Gut Microbiota Modulation and Its Relationship with Obesity Using Prebiotic Fibers and Probiotics: A Review. <i>Frontiers in Microbiology</i> , 2017, 8, 563.	3.5	262
4	Bioremediation through microbes: systems biology and metabolic engineering approach. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 79-98.	9.0	206
5	Recent developments in synthetic biology and metabolic engineering in microalgae towards biofuel production. <i>Biotechnology for Biofuels</i> , 2018, 11, 185.	6.2	172
6	Advanced technologies for improved expression of recombinant proteins in bacteria: perspectives and applications. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 1089-1098.	9.0	137
7	Study of algal biomass harvesting using cationic guar gum from the natural plant source as flocculant. <i>Carbohydrate Polymers</i> , 2013, 92, 675-681.	10.2	131
8	Gene Editing and Systems Biology Tools for Pesticide Bioremediation: A Review. <i>Frontiers in Microbiology</i> , 2019, 10, 87.	3.5	131
9	Probiotic Properties of <i>Lactobacillus plantarum</i> RYPR1 from an Indigenous Fermented Beverage Raabadi. <i>Frontiers in Microbiology</i> , 2016, 7, 1683.	3.5	128
10	Thermostable microbial xylanases for pulp and paper industries: trends, applications and further perspectives. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 34.	3.6	112
11	Engineering Thermostable Microbial Xylanases Toward its Industrial Applications. <i>Molecular Biotechnology</i> , 2018, 60, 226-235.	2.4	109
12	Integrated approaches in microbial degradation of plastics. <i>Environmental Technology and Innovation</i> , 2020, 17, 100567.	6.1	108
13	Microbial platform technology for recombinant antibody fragment production: A review. <i>Critical Reviews in Microbiology</i> , 2017, 43, 31-42.	6.1	107
14	Enzyme Based Biosensors for Detection of Environmental Pollutants-A Review. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1773-1781.	2.1	105
15	Nanoengineered cellulosic biohydrogen production via dark fermentation: A novel approach. <i>Biotechnology Advances</i> , 2019, 37, 107384.	11.7	101
16	Alternative Strategies for Microbial Remediation of Pollutants via Synthetic Biology. <i>Frontiers in Microbiology</i> , 2020, 11, 808.	3.5	101
17	Cyanobacterial pigments: Perspectives and biotechnological approaches. <i>Food and Chemical Toxicology</i> , 2018, 120, 616-624.	3.6	100
18	Engineering PGPMOs through Gene Editing and Systems Biology: A Solution for Phytoremediation?. <i>Trends in Biotechnology</i> , 2018, 36, 499-510.	9.3	98

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19	Insights into the resources generation from pulp and paper industry wastes: Challenges, perspectives and innovations. <i>Bioresource Technology</i> , 2020, 297, 122496.	9.6	94
20	Gene editing for cell engineering: trends and applications. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 672-684.	9.0	86
21	VOCs-mediated hormonal signaling and crosstalk with plant growth promoting microbes. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1277-1296.	9.0	85
22	Enhancing production of microalgal biopigments through metabolic and genetic engineering. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 391-405.	10.3	83
23	Pulp and paper industry-based pollutants, their health hazards and environmental risks. <i>Current Opinion in Environmental Science and Health</i> , 2019, 12, 48-56.	4.1	82
24	Plant Microbe Interactions in Post Genomic Era: Perspectives and Applications. <i>Frontiers in Microbiology</i> , 2016, 7, 1488.	3.5	79
25	Thermozymes: Adaptive strategies and tools for their biotechnological applications. <i>Bioresource Technology</i> , 2019, 278, 372-382.	9.6	79
26	Bioprospecting of functional cellulases from metagenome for second generation biofuel production: a review. <i>Critical Reviews in Microbiology</i> , 2018, 44, 244-257.	6.1	76
27	Recent Developments in Systems Biology and Metabolic Engineering of Plant-Microbe Interactions. <i>Frontiers in Plant Science</i> , 2016, 7, 1421.	3.6	73
28	Xylanase production from <i>Thermomyces lanuginosus</i> VAPS-24 using low cost agro-industrial residues via hybrid optimization tools and its potential use for saccharification. <i>Bioresource Technology</i> , 2017, 243, 1009-1019.	9.6	73
29	Gene editing and genetic engineering approaches for advanced probiotics: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2018, 58, 1735-1746.	10.3	73
30	Metabolic Engineering of Microalgal Based Biofuel Production: Prospects and Challenges. <i>Frontiers in Microbiology</i> , 2016, 7, 432.	3.5	70
31	An Alkaline Protease from <i>Bacillus pumilus</i> MP 27: Functional Analysis of Its Binding Model toward Its Applications As Detergent Additive. <i>Frontiers in Microbiology</i> , 2016, 7, 1195.	3.5	70
32	Improved biobleaching of mixed hardwood pulp and process optimization using novel GA-ANN and GA-ANFIS hybrid statistical tools. <i>Bioresource Technology</i> , 2019, 271, 274-282.	9.6	70
33	Microbial Nanotechnology for Bioremediation of Industrial Wastewater. <i>Frontiers in Microbiology</i> , 2020, 11, 590631.	3.5	70
34	Futuristic biosensors for cardiac health care: an artificial intelligence approach. <i>3 Biotech</i> , 2018, 8, 358.	2.2	68
35	Current Trends in Protein Engineering: Updates and Progress. <i>Current Protein and Peptide Science</i> , 2019, 20, 398-407.	1.4	68
36	Potential prebiotics and their transmission mechanisms: Recent approaches. <i>Journal of Food and Drug Analysis</i> , 2019, 27, 649-656.	1.9	66

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37	Improvements in algal lipid production: a systems biology and gene editing approach. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 369-385.	9.0	65
38	Current Technological Improvements in Enzymes toward Their Biotechnological Applications. <i>Frontiers in Microbiology</i> , 2016, 7, 965.	3.5	64
39	Glycosylation control technologies for recombinant therapeutic proteins. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 10457-10468.	3.6	64
40	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , 2014, 151, 6-11.	9.6	62
41	Computational tools for modern vaccine development. <i>Human Vaccines and Immunotherapeutics</i> , 2020, 16, 723-735.	3.3	61
42	Effects of nanofertilizers on soil and plant-associated microbial communities: Emerging trends and perspectives. <i>Chemosphere</i> , 2022, 287, 132107.	8.2	61
43	Antimicrobial Peptides: Recent Insights on Biotechnological Interventions and Future Perspectives. <i>Protein and Peptide Letters</i> , 2019, 26, 79-87.	0.9	60
44	Engineering disease resistant plants through CRISPR-Cas9 technology. <i>GM Crops and Food</i> , 2021, 12, 125-144.	3.8	60
45	Study of polyacrylamide grafted starch based algal flocculation towards applications in algal biomass harvesting. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 456-461.	7.5	59
46	Molecular screening for identification of blast resistance genes in North East and Eastern Indian rice germplasm (<i>Oryza sativa</i> L.) with PCR based makers. <i>Euphytica</i> , 2014, 196, 199-211.	1.2	59
47	An overview of advanced technologies for selection of probiotics and their expediency: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 3233-3242.	10.3	59
48	Engineering microbes for direct fermentation of cellulose to bioethanol. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1089-1105.	9.0	55
49	Simultaneous biohydrogen production from dark fermentation of duckweed and waste utilization for microalgal lipid production. <i>Bioresource Technology</i> , 2020, 302, 122879.	9.6	53
50	Metabolic engineering of CHO cells for the development of a robust protein production platform. <i>PLoS ONE</i> , 2017, 12, e0181455.	2.5	53
51	Cell Line Techniques and Gene Editing Tools for Antibody Production: A Review. <i>Frontiers in Pharmacology</i> , 2018, 9, 630.	3.5	51
52	Lignocellulosic Biomass for the Synthesis of Nanocellulose and Its Eco-Friendly Advanced Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 601256.	3.6	51
53	Vaccine and antibody production in plants: developments and computational tools. <i>Briefings in Functional Genomics</i> , 2018, 17, 295-307.	2.7	49
54	Sophisticated Cloning, Fermentation, and Purification Technologies for an Enhanced Therapeutic Protein Production: A Review. <i>Frontiers in Pharmacology</i> , 2017, 8, 419.	3.5	48

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55	Lead bioaccumulation mediated by <i>Bacillus cereus</i> BPS-9 from an industrial waste contaminated site encoding heavy metal resistant genes and their transporters. <i>Journal of Hazardous Materials</i> , 2021, 401, 123285.	12.4	47
56	Microalgal bioengineering for sustainable energy development: Recent transgenesis and metabolic engineering strategies. <i>Biotechnology Journal</i> , 2016, 11, 303-314.	3.5	44
57	Improved bioethanol production through simultaneous saccharification and fermentation of lignocellulosic agricultural wastes by <i>Kluyveromyces marxianus</i> 6556. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 1041-1046.	3.6	42
58	Genomic and proteomic insights into the heavy metal bioremediation by cyanobacteria. <i>Journal of Hazardous Materials</i> , 2022, 424, 127609.	12.4	40
59	Extracellular xylanase production from <i>T. lanuginosus</i> VAPS24 at pilot scale and thermostability enhancement by immobilization. <i>Process Biochemistry</i> , 2018, 71, 53-60.	3.7	39
60	Combinatorial Interactions of Biotic and Abiotic Stresses in Plants and Their Molecular Mechanisms: Systems Biology Approach. <i>Molecular Biotechnology</i> , 2018, 60, 636-650.	2.4	38
61	Techniques for improving formulations of bioinoculants. <i>3 Biotech</i> , 2020, 10, 199.	2.2	38
62	Bioinoculants for Bioremediation Applications and Disease Resistance: Innovative Perspectives. <i>Indian Journal of Microbiology</i> , 2019, 59, 129-136.	2.7	37
63	CRISPR-Cas9 system: A genome-editing tool with endless possibilities. <i>Journal of Biotechnology</i> , 2020, 319, 36-53.	3.8	37
64	Dimethyl disulfide exerts antifungal activity against <i>Sclerotinia minor</i> by damaging its membrane and induces systemic resistance in host plants. <i>Scientific Reports</i> , 2020, 10, 6547.	3.3	36
65	Lipid production and molecular dynamics simulation for regulation of <i>accD</i> gene in cyanobacteria under different N and P regimes. <i>Biotechnology for Biofuels</i> , 2017, 10, 94.	6.2	35
66	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
67	Systems biology as an approach for deciphering microbial interactions. <i>Briefings in Functional Genomics</i> , 2015, 14, 166-168.	2.7	33
68	Catalytic Interactions and Molecular Docking of Bile Salt Hydrolase (BSH) from <i>L. plantarum</i> RYPR1 and Its Prebiotic Utilization. <i>Frontiers in Microbiology</i> , 2016, 7, 2116.	3.5	33
69	A multi-objective hybrid machine learning approach-based optimization for enhanced biomass and bioactive phycobiliproteins production in <i>Nostoc</i> sp. CCC-403. <i>Bioresource Technology</i> , 2021, 329, 124908.	9.6	33
70	Bioengineering of Nitrilases Towards Its Use as Green Catalyst: Applications and Perspectives. <i>Indian Journal of Microbiology</i> , 2017, 57, 131-138.	2.7	31
71	High-throughput proteomics and metabolomic studies guide re-engineering of metabolic pathways in eukaryotic microalgae: A review. <i>Bioresource Technology</i> , 2021, 321, 124495.	9.6	31
72	Valorization of wastewater through microalgae as a prospect for generation of biofuel and high-value products. <i>Journal of Cleaner Production</i> , 2022, 362, 132114.	9.3	31

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73	Molecular Modeling and Docking of Microbial Inulinases Towards Perceptive Enzyme-Substrate Interactions. Indian Journal of Microbiology, 2012, 52, 373-380.	2.7	30
74	Effectiveness of gamification for the rehabilitation of neurodegenerative disorders. Chaos, Solitons and Fractals, 2020, 140, 110192.	5.1	30
75	A comparative analysis of heavy metal bioaccumulation and functional gene annotation towards multiple metal resistant potential by Ochrobactrum intermedium BPS-20 and Ochrobactrum ciceri BPS-26. Bioresource Technology, 2021, 320, 124330.	9.6	30
76	Biosynthesis and biotechnological interventions for commercial production of microalgal pigments: A review. Bioresource Technology, 2022, 352, 127071.	9.6	30
77	Efficient engineered probiotics using synthetic biology approaches: A review. Biotechnology and Applied Biochemistry, 2020, 67, 22-29.	3.1	29
78	Prospecting prebiotics, innovative evaluation methods, and their health applications: a review. 3 Biotech, 2019, 9, 187.	2.2	28
79	Microbial Interactions in Plants: Perspectives and Applications of Proteomics. Current Protein and Peptide Science, 2017, 18, 956-965.	1.4	28
80	Cost effective characterization process and molecular dynamic simulation of detergent compatible alkaline protease from Bacillus pumilus strain MP27. Process Biochemistry, 2017, 58, 199-203.	3.7	27
81	Probiotics of Diverse Origin and Their Therapeutic Applications: A Review. Journal of the American College of Nutrition, 2020, 39, 469-479.	1.8	27
82	Pathobionts: mechanisms of survival, expansion, and interaction with host with a focus on <i>Clostridioides difficile</i> . Gut Microbes, 2021, 13, 1979882.	9.8	26
83	Novel cold temperature active β -glucosidase from Pseudomonas lutea BG8 suitable for simultaneous saccharification and fermentation. RSC Advances, 2014, 4, 58108-58115.	3.6	25
84	Functional analysis of the binding model of microbial inulinases using docking and molecular dynamics simulation. Journal of Molecular Modeling, 2016, 22, 69.	1.8	25
85	In Silico Analog Design for Terbinafine Against Trichophyton rubrum: A Preliminary Study. Indian Journal of Microbiology, 2015, 55, 333-340.	2.7	24
86	Enhanced bioremediation of pulp effluents through improved enzymatic treatment strategies: A greener approach. Renewable and Sustainable Energy Reviews, 2021, 152, 111664.	16.4	24
87	Effluents detoxification from pulp and paper industry using microbial engineering and advanced oxidation techniques. Journal of Hazardous Materials, 2020, 398, 122998.	12.4	24
88	Strategies to Improve Saccharomyces cerevisiae: Technological Advancements and Evolutionary Engineering. Indian Journal of Microbiology, 2017, 57, 378-386.	2.7	23
89	Metabolic Engineering for Probiotics and their Genome-Wide Expression Profiling. Current Protein and Peptide Science, 2017, 19, 68-74.	1.4	23
90	Recombinant Approaches for Microbial Xylanases: Recent Advances and Perspectives. Current Protein and Peptide Science, 2017, 19, 87-99.	1.4	23

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91	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
92	Bioinoculant capability enhancement through metabolomics and systems biology approaches. <i>Briefings in Functional Genomics</i> , 2018, 18, 159-168.	2.7	22
93	Synthetic Biology Perspectives of Microbial Enzymes and Their Innovative Applications. <i>Indian Journal of Microbiology</i> , 2019, 59, 401-409.	2.7	22
94	Quest for cardiovascular interventions: precise modeling and 3D printing of heart valves. <i>Journal of Biological Engineering</i> , 2019, 13, 12.	4.7	22
95	Biotherapeutic potential and mechanisms of action of colchicine. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1038-1047.	9.0	21
96	Proteomic approaches in microalgae: perspectives and applications. <i>3 Biotech</i> , 2017, 7, 197.	2.2	21
97	Deciphering the Potential of <i>Rhizobium pusense</i> MB-17a, a Plant Growth-Promoting Root Endophyte, and Functional Annotation of the Genes Involved in the Metabolic Pathway. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 617034.	4.1	21
98	Characterization, cloning and functional expression of novel xylanase from <i>Thermomyces lanuginosus</i> SS-8 isolated from self-heating plant wreckage material. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 2407-2415.	3.6	20
99	Phylogenetic analysis and biological characteristic tests of marine bacteria isolated from Southern Ocean (Indian sector) water. <i>Acta Oceanologica Sinica</i> , 2015, 34, 73-82.	1.0	20
100	Nitrogen and phosphorus removals by the agar-immobilized <i>Chlorella saccharophila</i> with long-term preservation at room temperature. <i>Chemosphere</i> , 2020, 251, 126406.	8.2	20
101	Recent metabolomics and gene editing approaches for synthesis of microbial secondary metabolites for drug discovery and development. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 166.	3.6	19
102	Xylanolytic Enzymes in Pulp and Paper Industry: New Technologies and Perspectives. <i>Molecular Biotechnology</i> , 2022, 64, 130-143.	2.4	19
103	Microalgae harvesting techniques: updates and recent technological interventions. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 342-368.	9.0	19
104	Molecular identification and virulence analysis of AVR genes in rice blast pathogen, <i>Magnaporthe oryzae</i> from Eastern India. <i>Euphytica</i> , 2015, 206, 21-31.	1.2	18
105	Phycobiliproteins from <i>Anabaena variabilis</i> CCC421 and its production enhancement strategies using combinatory evolutionary algorithm approach. <i>Bioresource Technology</i> , 2020, 309, 123347.	9.6	18
106	Multi-efficient thermostable endoxylanase from <i>Bacillus velezensis</i> AG20 and its production of xylooligosaccharides as efficient prebiotics with anticancer activity. <i>Process Biochemistry</i> , 2021, 109, 59-71.	3.7	18
107	Multilevel algorithms and evolutionary hybrid tools for enhanced production of arginine deiminase from <i>Pseudomonas furukawaii</i> RS3. <i>Bioresource Technology</i> , 2019, 290, 121789.	9.6	17
108	Purification and preliminary characterization of a xylanase from <i>Thermomyces lanuginosus</i> strain SS-8. <i>3 Biotech</i> , 2011, 1, 255-259.	2.2	16

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109	Designing synthetic microbial communities for effectual bioremediation: A review. <i>Biocatalysis and Biotransformation</i> , 2020, 38, 405-414.	2.0	16
110	Metabolic systems biology and multi-omics of cyanobacteria: Perspectives and future directions. <i>Bioresource Technology</i> , 2022, 343, 126007.	9.6	16
111	Molecular Diversity and Mating Type Distribution of the Rice Blast Pathogen <i>Magnaporthe oryzae</i> in North-East and Eastern India. <i>Indian Journal of Microbiology</i> , 2015, 55, 108-113.	2.7	15
112	Recent systems biology approaches for probiotics use in health aspects: a review. <i>3 Biotech</i> , 2019, 9, 448.	2.2	15
113	Futuristic avenues of metabolic engineering techniques in bioremediation. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 51-60.	3.1	15
114	Editorial: "Futuristic Protein Engineering: Developments and Avenues"™. <i>Current Protein and Peptide Science</i> , 2017, 19, 3-4.	1.4	14
115	Combinatory biotechnological intervention for gut microbiota. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3615-3625.	3.6	14
116	Computational approaches in epitope design using DNA binding proteins as vaccine candidate in <i>Mycobacterium tuberculosis</i> . <i>Infection, Genetics and Evolution</i> , 2020, 83, 104357.	2.3	14
117	Identification of Rice Blast Resistance Gene Pi9 from Indian Rice Land Races with STS Marker and Its Verification by Virulence Analysis. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2013, 83, 499-504.	1.0	13
118	Integrated Artificial Intelligence Approaches for Disease Diagnostics. <i>Indian Journal of Microbiology</i> , 2018, 58, 252-255.	2.7	13
119	Systems Biology Approaches for Therapeutics Development Against COVID-19. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 560240.	3.9	13
120	A Simple Novel Agar Diffusion Method for Isolation of Indigenous Microalgae <i>Chlamydomonas</i> sp. CRP7 and <i>Chlorella</i> sp. CB4 from Operational Swampy Top Soil. <i>Indian Journal of Microbiology</i> , 2012, 52, 710-712.	2.7	12
121	Two-step statistical optimization for cold active α -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
122	Microbial Enzyme Engineering: Applications and Perspectives. , 2017, , 259-273.		12
123	Effectual Bioprocess Development for Protein Production. , 2019, , 203-227.		12
124	Sigma Factor Modulation for Cyanobacterial Metabolic Engineering. <i>Trends in Microbiology</i> , 2021, 29, 266-277.	7.7	12
125	Improved deinking and biobleaching efficiency of enzyme consortium from <i>Thermomyces lanuginosus</i> VAPS25 using genetic Algorithm-Artificial neural network based tools. <i>Bioresource Technology</i> , 2022, 349, 126846.	9.6	12
126	Probiotic potential of <i>Weissella paramesenteroides</i> MYP5.1 isolated from customary dairy products and its therapeutic application. <i>3 Biotech</i> , 2022, 12, 9.	2.2	12

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127	Over-expression of a Codon Optimized Yeast Cytosolic Pyruvate Carboxylase (PYC2) in CHO Cells for an Augmented Lactate Metabolism. <i>Frontiers in Pharmacology</i> , 2017, 8, 463.	3.5	11
128	Carbon bio-fixation, effect of physicochemical factors and carbon supply strategies by <i>Nannochloropsis</i> sp. using flue gas and fertilizer. <i>Biomass and Bioenergy</i> , 2019, 125, 95-104.	5.7	11
129	Synthetic Biology and Biocomputational Approaches for Improving Microbial Endoglucanases toward Their Innovative Applications. <i>ACS Omega</i> , 2021, 6, 6055-6063.	3.5	11
130	Bioengineering for Microbial Inulinases: Trends and Applications. <i>Current Protein and Peptide Science</i> , 2017, 18, 966-972.	1.4	11
131	Probiotics for Human Health: Current Progress and Applications. , 2017, , 133-147.		10
132	Lignocellulosic pretreatment-mediated phenolic by-products generation and their effect on the inhibition of an α -D-1,4-xylanase from <i>Thermomyces lanuginosus</i> VAPS-24. <i>3 Biotech</i> , 2020, 10, 349.	2.2	10
133	Endo-xylanase induced xylooligosaccharide production from corn cobs, its structural features, and concentration-dependent antioxidant activities. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5707-5717.	4.6	10
134	Explication of interactions between HMGCR isoform 2 and various statins through In silico modeling and docking. <i>Computers in Biology and Medicine</i> , 2012, 42, 156-163.	7.0	9
135	New-Generation Probiotics. , 2019, , 417-424.		9
136	Tissue Regeneration through Cyber-Physical Systems and Microbots. <i>Advanced Functional Materials</i> , 2021, 31, 2009663.	14.9	9
137	Emerging tools and strategies in cyanobacterial omics. <i>Trends in Biotechnology</i> , 2022, 40, 4-7.	9.3	9
138	Computational Strategies Towards Improved Protein Function Prophecy of Xylanases from <i>Thermomyces lanuginosus</i> . <i>SpringerBriefs in Systems Biology</i> , 2012, , .	0.3	9
139	Artificial Intelligence Integration for Neurodegenerative Disorders. , 2019, , 77-89.		8
140	Artificial intelligence and synthetic biology approaches for human gut microbiome. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, , 1-19.	10.3	8
141	Low-cost media engineering for phosphate and IAA production by <i>Kosakonia pseudosacchari</i> TCPS-4 using Multi-objective Genetic Algorithm (MOGA) statistical tool. <i>3 Biotech</i> , 2021, 11, 158.	2.2	8
142	Molecular Analysis of Indian Rice Germplasm Accessions with Resistance to Blast Pathogen. <i>Journal of Crop Improvement</i> , 2014, 28, 729-739.	1.7	7
143	Exploring Prospects of Monooxygenase-Based Biocatalysts in Xenobiotics. , 2014, , 577-614.		7
144	Enzyme Technology, Functional Proteomics, and Systems Biology Toward Unraveling Molecular Basis for Functionality and Interactions in Biotechnological Processes. , 2016, , 207-212.		7

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145	Multi-Objective Optimization Through Machine Learning Modeling for Production of Xylooligosaccharides from Alkali-Pretreated Corn-Cob Xylan Via Enzymatic Hydrolysis. Indian Journal of Microbiology, 2021, 61, 458-466.	2.7	7
146	Allele Mining and Selective Patterns of Pi9 Gene in a Set of Rice Landraces from India. Frontiers in Plant Science, 2016, 7, 1846.	3.6	6
147	Functional Aspects of Xylanases Toward Industrial Applications. , 2016, , 157-165.		6
148	Synthetic Organic Compounds From Paper Industry Wastes: Integrated Biotechnological Interventions. Frontiers in Bioengineering and Biotechnology, 2020, 8, 592939.	4.1	6
149	Understanding the Xylooligosaccharides Utilization Mechanism of Lactobacillus brevis and Bifidobacterium adolescentis: Proteins Involved and Their Conformational Stabilities for Effectual Binding. Molecular Biotechnology, 2022, 64, 75-89.	2.4	6
150	The Interaction of the Microtubule Targeting Anticancer Drug Colchicine with Human Glutathione Transferases. Current Pharmaceutical Design, 2020, 26, 5205-5212.	1.9	6
151	Production of Lipase by Hyper-lipolytic Rhizopus oryzaeKG-10 on Low-value Oil Emulsions. Research Journal of Microbiology, 2007, 2, 671-677.	0.2	6
152	Lindane bioremediation by Paenibacillus dendritiformis SJPS-4, its metabolic pathway analysis and functional gene annotation. Environmental Technology and Innovation, 2022, 27, 102433.	6.1	6
153	Biohydrogen as Biofuel: Future Prospects and Avenues for Improvements. , 2013, , 301-315.		5
154	Protein Engineering for Improved Health: Technological Perspectives. Current Protein and Peptide Science, 2019, 20, 856-860.	1.4	5
155	Smart diagnostics devices through artificial intelligence and mechanobiological approaches. 3 Biotech, 2020, 10, 351.	2.2	5
156	Molecular Analysis of Disease-Responsive Genes Revealing the Resistance Potential Against Fusarium Wilt (Fusarium udum Butler) Dependent on Genotype Variability in the Leguminous Crop Pigeonpea. Frontiers in Genetics, 2020, 11, 862.	2.3	5
157	Tryptic Mapping Based Structural Insights of Endo-1, 4- β -Xylanase from Thermomyces lanuginosus VAPS-24. Indian Journal of Microbiology, 2020, 60, 392-395.	2.7	5
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