

Aravind Madhavan

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,525
citations

218677

26
h-index

206112

48
g-index

66
all docs

66
docs citations

66
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of Microbial Enzymes in Food Industry. Food Technology and Biotechnology, 2018, 56, 16-30.	2.1	430
2	Strategies for design of improved biocatalysts for industrial applications. Bioresource Technology, 2017, 245, 1304-1313.	9.6	175
3	Water hyacinth a potential source for value addition: An overview. Bioresource Technology, 2017, 230, 152-162.	9.6	141
4	Recent advances in the production of value added chemicals and lipids utilizing biodiesel industry generated crude glycerol as a substrate – Metabolic aspects, challenges and possibilities: An overview. Bioresource Technology, 2017, 239, 507-517.	9.6	121
5	The hazardous threat of Bisphenol A: Toxicity, detection and remediation. Journal of Hazardous Materials, 2022, 423, 127097.	12.4	108
6	Metagenome Analysis: a Powerful Tool for Enzyme Bioprospecting. Applied Biochemistry and Biotechnology, 2017, 183, 636-651.	2.9	96
7	Molecular improvements in microbial α -amylases for enhanced stability and catalytic efficiency. Bioresource Technology, 2017, 245, 1740-1748.	9.6	84
8	Nanocellulose-based products for sustainable applications-recent trends and possibilities. Reviews in Environmental Science and Biotechnology, 2020, 19, 779-806.	8.1	79
9	Nanocellulose as green material for remediation of hazardous heavy metal contaminants. Journal of Hazardous Materials, 2022, 424, 127516.	12.4	75
10	Design of novel enzyme biocatalysts for industrial bioprocess: Harnessing the power of protein engineering, high throughput screening and synthetic biology. Bioresource Technology, 2021, 325, 124617.	9.6	73
11	Remodeling agro-industrial and food wastes into value-added bioactives and biopolymers. Industrial Crops and Products, 2020, 154, 112621.	5.2	59
12	Probiotics and gut microbiome – Prospects and challenges in remediating heavy metal toxicity. Journal of Hazardous Materials, 2021, 420, 126676.	12.4	56
13	Customized yeast cell factories for biopharmaceuticals: from cell engineering to process scale up. Microbial Cell Factories, 2021, 20, 124.	4.0	51
14	Microbial valorization of lignin: Prospects and challenges. Bioresource Technology, 2022, 344, 126240.	9.6	49
15	Recent developments in l-glutaminase production and applications – An overview. Bioresource Technology, 2017, 245, 1766-1774.	9.6	46
16	Updates on high value products from cellulosic biorefinery. Fuel, 2022, 308, 122056.	6.4	44
17	Potential of nanocellulose for wastewater treatment. Chemosphere, 2021, 281, 130738.	8.2	43
18	Bacterial nanocellulose: engineering, production, and applications. Bioengineered, 2021, 12, 11463-11483.	3.2	41

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19	Advanced biomaterials for sustainable applications in the food industry: Updates and challenges. Environmental Pollution, 2021, 283, 117071.	7.5	40
20	Nanobiocatalysts: Advancements and applications in enzyme technology. Bioresource Technology, 2021, 337, 125491.	9.6	38
21	Lignocellulose in future biorefineries: Strategies for cost-effective production of biomaterials and bioenergy. Bioresource Technology, 2022, 344, 126241.	9.6	37
22	Bioplastic production from renewable lignocellulosic feedstocks: a review. Reviews in Environmental Science and Biotechnology, 2021, 20, 167-187.	8.1	33
23	Synthetic Biology and Metabolic Engineering Approaches and Its Impact on Non-Conventional Yeast and Biofuel Production. Frontiers in Energy Research, 2017, 5, .	2.3	32
24	Engineering interventions in enzyme production: Lab to industrial scale. Bioresource Technology, 2021, 326, 124771.	9.6	31
25	Non-conventional Yeast cell factories for sustainable bioprocesses. FEMS Microbiology Letters, 2018, 365, .	1.8	30
26	Short chain fatty acids enriched fermentation metabolites of soluble dietary fibre from Musa paradisiaca drives HT29 colon cancer cells to apoptosis. PLoS ONE, 2019, 14, e0216604.	2.5	30
27	Development of an eco-friendly biodegradable plastic from jack fruit peel cellulose with different plasticizers and Boswellia serrata as filler. Science of the Total Environment, 2021, 767, 144285.	8.0	30
28	Valorization of food and kitchen waste: An integrated strategy adopted for the production of poly-3-hydroxybutyrate, bioethanol, pectinase and 2, 3-butanediol. Bioresource Technology, 2020, 310, 123515.	9.6	28
29	Expression system for heterologous protein expression in the filamentous fungus Aspergillus unguis. Bioresource Technology, 2017, 245, 1334-1342.	9.6	27
30	Technologies for disinfection of food grains: Advances and way forward. Food Research International, 2021, 145, 110396.	6.2	25
31	Strategies and advances in the pretreatment of microalgal biomass. Journal of Biotechnology, 2021, 341, 63-75.	3.8	24
32	Engineering interventions in industrial filamentous fungal cell factories for biomass valorization. Bioresource Technology, 2022, 344, 126209.	9.6	24
33	Genetic and metabolic engineering approaches for the production and delivery of L-asparaginases: An overview. Bioresource Technology, 2017, 245, 1775-1781.	9.6	22
34	Biorefinery aspects for cost-effective production of nanocellulose and high value-added biocomposites. Fuel, 2022, 311, 122575.	6.4	22
35	<i>Musa paradisiaca</i> inflorescence induces human colon cancer cell death by modulating cascades of transcriptional events. Food and Function, 2018, 9, 511-524.	4.6	20
36	A green biorefinery platform for cost-effective nanocellulose production: investigation of hydrodynamic properties and biodegradability of thin films. Biomass Conversion and Biorefinery, 2021, 11, 861-870.	4.6	20

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37	Active pharmaceutical ingredient (API) chemicals: a critical review of current biotechnological approaches. <i>Bioengineered</i> , 2022, 13, 4309-4327.	3.2	20
38	Thermophilic Chitinases: Structural, Functional and Engineering Attributes for Industrial Applications. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 142-164.	2.9	19
39	Promoter and signal sequence from filamentous fungus can drive recombinant protein production in the yeast <i>Kluyveromyces lactis</i> . <i>Bioresource Technology</i> , 2014, 165, 302-308.	9.6	17
40	Sugarcane bagasse derived nanocellulose reinforced with frankincense (<i>Boswellia serrata</i>): Physicochemical properties, biodegradability and antimicrobial effect for controlling microbial growth for food packaging application. <i>Environmental Technology and Innovation</i> , 2021, 21, 101335.	6.1	15
41	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production. <i>Bioresource Technology</i> , 2021, 327, 124791.	9.6	14
42	Bacterial biopolymers: From production to applications in biomedicine. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100582.	3.3	14
43	Myco-biorefinery approaches for food waste valorization: Present status and future prospects. <i>Bioresource Technology</i> , 2022, 360, 127592.	9.6	14
44	Acetylation of Isoniazid Is a Novel Mechanism of Isoniazid Resistance in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	3.2	13
45	Secreted expression of an active human interferon-beta (HuIFN β) in <i>Kluyveromyces lactis</i> . <i>Engineering in Life Sciences</i> , 2016, 16, 379-385.	3.6	11
46	Tailoring of microbes for the production of high value plant-derived compounds: From pathway engineering to fermentative production. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140262.	2.3	11
47	Promising eco-friendly biomaterials for future biomedicine: Cleaner production and applications of Nanocellulose. <i>Environmental Technology and Innovation</i> , 2021, 24, 101855.	6.1	10
48	Signal peptides from filamentous fungi efficiently mediate the secretion of recombinant proteins in <i>Kluyveromyces lactis</i> . <i>Biochemical Engineering Journal</i> , 2015, 102, 31-37.	3.6	9
49	Chrysomycin A inhibits the topoisomerase I of <i>Mycobacterium tuberculosis</i> . <i>Journal of Antibiotics</i> , 2022, 75, 226-235.	2.0	9
50	Chlorpyrifos induced proteome remodelling of <i>Pseudomonas nitroreducens</i> AR-3 potentially aid efficient degradation of the pesticide. <i>Environmental Technology and Innovation</i> , 2021, 21, 101307.	6.1	8
51	Enzyme Technology in Food Processing: Recent Developments and Future Prospects. , 2021, , 191-215.		7
52	Transcription Repressor Protein ZBTB25 Associates with HDAC1-Sin3a Complex in <i>Mycobacterium tuberculosis</i> -Infected Macrophages, and Its Inhibition Clears Pathogen by Autophagy. <i>MSphere</i> , 2021, 6, .	2.9	7
53	Waste-Derived Fuels and Renewable Chemicals for Bioeconomy Promotion: A Sustainable Approach. <i>Bioenergy Research</i> , 2023, 16, 16-32.	3.9	7
54	Chili post-harvest residue-derived nanocellulose composite as a matrix for in vitro cell culture and <i>Hemigraphis colorata</i> blended nanocellulose extends antimicrobial potential. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100584.	3.3	6

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55	Nanocellulose in tissue engineering and bioremediation: mechanism of action. <i>Bioengineered</i> , 2022, 13, 12823-12833.	3.2	5
56	Microbial engineering for the production and application of phytases to the treatment of the toxic pollutants: A review. <i>Environmental Pollution</i> , 2022, 308, 119703.	7.5	5
57	Bacterial bioactive metabolites as therapeutic agents: From production to action. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 27, 100650.	3.3	4
58	Neem extractâ€blended nanocellulose derived from jackfruit peel for antibacterial packagings. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8977-8986.	5.3	4
59	An Overview of Cellulase Immobilization Strategies for Biofuel Production. <i>Bioenergy Research</i> , 2023, 16, 4-15.	3.9	3
60	Microbial production of nutraceuticals: Metabolic engineering interventions in phenolic compounds, poly unsaturated fatty acids and carotenoids synthesis. <i>Journal of Food Science and Technology</i> , 0, , .	2.8	2
61	Advances and Tools in Engineering Yeast for Pharmaceutical Production. <i>Energy, Environment, and Sustainability</i> , 2018, , 29-49.	1.0	1
62	Enzyme Technologies: Current and Emerging Technologies for Development of Novel Enzyme Catalysts. , 2015, , 39-66.		1
63	Synthesis of C2-C4 diols from bioresources: Pathways and metabolic intervention strategies. <i>Bioresource Technology</i> , 2022, 346, 126410.	9.6	1