

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
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66
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docs citations

66
times ranked

2576
citing authors

#	ARTICLE	IF	CITATIONS
1	Waste-Derived Fuels and Renewable Chemicals for Bioeconomy Promotion: A Sustainable Approach. <i>Bioenergy Research</i> , 2023, 16, 16-32.	3.9	7
2	An Overview of Cellulase Immobilization Strategies for Biofuel Production. <i>Bioenergy Research</i> , 2023, 16, 4-15.	3.9	3
3	Neem extract-blended nanocellulose derived from jackfruit peel for antibacterial packagings. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8977-8986.	5.3	4
4	Updates on high value products from cellulosic biorefinery. <i>Fuel</i> , 2022, 308, 122056.	6.4	44
5	The hazardous threat of Bisphenol A: Toxicity, detection and remediation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127097.	12.4	108
6	Engineering interventions in industrial filamentous fungal cell factories for biomass valorization. <i>Bioresource Technology</i> , 2022, 344, 126209.	9.6	24
7	Lignocellulose in future biorefineries: Strategies for cost-effective production of biomaterials and bioenergy. <i>Bioresource Technology</i> , 2022, 344, 126241.	9.6	37
8	Microbial valorization of lignin: Prospects and challenges. <i>Bioresource Technology</i> , 2022, 344, 126240.	9.6	49
9	Nanocellulose as green material for remediation of hazardous heavy metal contaminants. <i>Journal of Hazardous Materials</i> , 2022, 424, 127516.	12.4	75
10	Synthesis of C2-C4 diols from bioresources: Pathways and metabolic intervention strategies. <i>Bioresource Technology</i> , 2022, 346, 126410.	9.6	1
11	Biorefinery aspects for cost-effective production of nanocellulose and high value-added biocomposites. <i>Fuel</i> , 2022, 311, 122575.	6.4	22
12	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
13	Bacterial biopolymers: From production to applications in biomedicine. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100582.	3.3	14
14	Chrysomycin A inhibits the topoisomerase I of <i>Mycobacterium tuberculosis</i> . <i>Journal of Antibiotics</i> , 2022, 75, 226-235.	2.0	9
15	Active pharmaceutical ingredient (API) chemicals: a critical review of current biotechnological approaches. <i>Bioengineered</i> , 2022, 13, 4309-4327.	3.2	20
16	Bacterial bioactive metabolites as therapeutic agents: From production to action. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 27, 100650.	3.3	4
17	Nanocellulose in tissue engineering and bioremediation: mechanism of action. <i>Bioengineered</i> , 2022, 13, 12823-12833.	3.2	5
18	Myco-biorefinery approaches for food waste valorization: Present status and future prospects. <i>Bioresource Technology</i> , 2022, 360, 127592.	9.6	14

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19	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
20	Enzyme Technology in Food Processing: Recent Developments and Future Prospects. , 2021, , 191-215.		7
21	A green biorefinery platform for cost-effective nanocellulose production: investigation of hydrodynamic properties and biodegradability of thin films. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 861-870.	4.6	20
22	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
23	Thermophilic Chitinases: Structural, Functional and Engineering Attributes for Industrial Applications. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 142-164.	2.9	19
24	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
25	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
26	Bioplastic production from renewable lignocellulosic feedstocks: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 167-187.	8.1	33
27	Engineering interventions in enzyme production: Lab to industrial scale. <i>Bioresource Technology</i> , 2021, 326, 124771.	9.6	31
28	Design of novel enzyme biocatalysts for industrial bioprocess: Harnessing the power of protein engineering, high throughput screening and synthetic biology. <i>Bioresource Technology</i> , 2021, 325, 124617.	9.6	73
29	Development of an eco-friendly biodegradable plastic from jack fruit peel cellulose with different plasticizers and <i>Boswellia serrata</i> as filler. <i>Science of the Total Environment</i> , 2021, 767, 144285.	8.0	30
30	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production. <i>Bioresource Technology</i> , 2021, 327, 124791.	9.6	14
31	Customized yeast cell factories for biopharmaceuticals: from cell engineering to process scale up. <i>Microbial Cell Factories</i> , 2021, 20, 124.	4.0	51
32	Technologies for disinfection of food grains: Advances and way forward. <i>Food Research International</i> , 2021, 145, 110396.	6.2	25
33	Advanced biomaterials for sustainable applications in the food industry: Updates and challenges. <i>Environmental Pollution</i> , 2021, 283, 117071.	7.5	40
34	Nanobiocatalysts: Advancements and applications in enzyme technology. <i>Bioresource Technology</i> , 2021, 337, 125491.	9.6	38
35	Potential of nanocellulose for wastewater treatment. <i>Chemosphere</i> , 2021, 281, 130738.	8.2	43
36	Probiotics and gut microbiome ~ Prospects and challenges in remediating heavy metal toxicity. <i>Journal of Hazardous Materials</i> , 2021, 420, 126676.	12.4	56

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37	Strategies and advances in the pretreatment of microalgal biomass. <i>Journal of Biotechnology</i> , 2021, 341, 63-75.	3.8	24
38	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
39	Bacterial nanocellulose: engineering, production, and applications. <i>Bioengineered</i> , 2021, 12, 11463-11483.	3.2	41
40	Nanocellulose-based products for sustainable applications-recent trends and possibilities. <i>Reviews in Environmental Science and Biotechnology</i> , 2020, 19, 779-806.	8.1	79
41	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
42	Remodeling agro-industrial and food wastes into value-added bioactives and biopolymers. <i>Industrial Crops and Products</i> , 2020, 154, 112621.	5.2	59
43	Valorization of food and kitchen waste: An integrated strategy adopted for the production of poly-3-hydroxybutyrate, bioethanol, pectinase and 2, 3-butanediol. <i>Bioresource Technology</i> , 2020, 310, 123515.	9.6	28
44	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
45	Short chain fatty acids enriched fermentation metabolites of soluble dietary fibre from <i>Musa paradisiaca</i> drives HT29 colon cancer cells to apoptosis. <i>PLoS ONE</i> , 2019, 14, e0216604.	2.5	30
46	<i>Musa paradisiaca</i> inflorescence induces human colon cancer cell death by modulating cascades of transcriptional events. <i>Food and Function</i> , 2018, 9, 511-524.	4.6	20
47	Advances and Tools in Engineering Yeast for Pharmaceutical Production. <i>Energy, Environment, and Sustainability</i> , 2018, , 29-49.	1.0	1
48	Non-conventional Yeast cell factories for sustainable bioprocesses. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	30
49	Applications of Microbial Enzymes in Food Industry. <i>Food Technology and Biotechnology</i> , 2018, 56, 16-30.	2.1	430
50	Water hyacinth a potential source for value addition: An overview. <i>Bioresource Technology</i> , 2017, 230, 152-162.	9.6	141
51	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. <i>Bioresource Technology</i> , 2017, 239, 507-517.	9.6	121
52	Strategies for design of improved biocatalysts for industrial applications. <i>Bioresource Technology</i> , 2017, 245, 1304-1313.	9.6	175
53	Molecular improvements in microbial α -amylases for enhanced stability and catalytic efficiency. <i>Bioresource Technology</i> , 2017, 245, 1740-1748.	9.6	84
54	Genetic and metabolic engineering approaches for the production and delivery of L-asparaginases: An overview. <i>Bioresource Technology</i> , 2017, 245, 1775-1781.	9.6	22

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55	Recent developments in l-glutaminase production and applications – An overview. <i>Bioresource Technology</i> , 2017, 245, 1766-1774.	9.6	46
56	Expression system for heterologous protein expression in the filamentous fungus <i>Aspergillus unguis</i> . <i>Bioresource Technology</i> , 2017, 245, 1334-1342.	9.6	27
57	Metagenome Analysis: a Powerful Tool for Enzyme Bioprospecting. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 636-651.	2.9	96
58	Synthetic Biology and Metabolic Engineering Approaches and Its Impact on Non-Conventional Yeast and Biofuel Production. <i>Frontiers in Energy Research</i> , 2017, 5, .	2.3	32
59	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
60	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
61	Enzyme Technologies: Current and Emerging Technologies for Development of Novel Enzyme Catalysts. , 2015, , 39-66.		1
62	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
63	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