

Balasubramanian Paramasivan

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84
papers

1,250
citations

20
h-index

32
g-index

87
ext. papers

1,805
ext. citations

5.6
avg, IF

5.93
L-index

#	Paper	IF	Citations
84	The potential of lignocellulosic biomass precursors for biochar production: Performance, mechanism and wastewater application. A review. <i>Industrial Crops and Products</i> , 2019 , 128, 405-423	5.9	127
83	Biosorption characteristics of methylene blue and malachite green from simulated wastewater onto <i>Carica papaya</i> wood biosorbent. <i>Surfaces and Interfaces</i> , 2018 , 10, 197-215	4.1	105
82	Biosensor for detection of dissolved chromium in potable water: A review. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 589-604	11.8	78
81	Characteristics, performances, equilibrium and kinetic modeling aspects of heavy metal removal using algae. <i>Bioresource Technology Reports</i> , 2019 , 5, 261-279	4.1	56
80	Adsorption behaviors of hazardous methylene blue and hexavalent chromium on novel materials derived from <i>Pterospermum acerifolium</i> shells. <i>Journal of Molecular Liquids</i> , 2018 , 254, 433-445	6	50
79	An overview of extraction and purification techniques of seaweed dietary fibers for immunomodulation on gut microbiota. <i>Trends in Food Science and Technology</i> , 2019 , 92, 46-64	15.3	43
78	Bioprocess engineering principles of microalgal cultivation for sustainable biofuel production. <i>Bioresource Technology Reports</i> , 2019 , 5, 297-316	4.1	41
77	Algal biodiesel production with engineered biochar as a heterogeneous solid acid catalyst. <i>Bioresource Technology</i> , 2020 , 310, 123392	11	39
76	Biosynthesis of magnesium oxide (MgO) nanoflakes by using leaf extract of <i>Bauhinia purpurea</i> and evaluation of its antibacterial property against <i>Staphylococcus aureus</i> . <i>Materials Science and Engineering C</i> , 2018 , 91, 436-444	8.3	39
75	Biotrickling filtration of VOC emissions from pharmaceutical industries. <i>Chemical Engineering Journal</i> , 2012 , 209, 102-112	14.7	37
74	Dietary fiber from Indian edible seaweeds and its in-vitro prebiotic effect on the gut microbiota. <i>Food Hydrocolloids</i> , 2019 , 96, 343-353	10.6	35
73	Predicting algal biochar yield using eXtreme Gradient Boosting (XGB) algorithm of machine learning methods. <i>Algal Research</i> , 2020 , 50, 102006	5	33
72	Biotrickling filtration of complex pharmaceutical VOC emissions along with chloroform. <i>Bioresource Technology</i> , 2012 , 114, 149-59	11	32
71	Natural plant extracts as an economical and ecofriendly alternative for harvesting microalgae. <i>Bioresource Technology</i> , 2019 , 283, 45-52	11	28
70	Biodegradation of chlorinated and non-chlorinated VOCs from pharmaceutical industries. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 163, 497-518	3.2	24
69	Biophysical model and techno-economic assessment of carbon sequestration by microalgal ponds in Indian coal based power plants. <i>Journal of Cleaner Production</i> , 2019 , 221, 587-597	10.3	23
68	Efficacy of microalgal extracts as biostimulants through seed treatment and foliar spray for tomato cultivation. <i>Industrial Crops and Products</i> , 2020 , 151, 112453	5.9	21

67	Utilization of unconventional lignocellulosic waste biomass for the biosorption of toxic triphenylmethane dye malachite green from aqueous solution. <i>International Journal of Phytoremediation</i> , 2018 , 20, 624-633	3.9	20
66	Performance of novel biosorbents prepared using native and NaOH treated <i>Peltophorum pterocarpum</i> fruit shells for the removal of malachite green. <i>Bioresource Technology Reports</i> , 2018 , 3, 75-81	4.1	20
65	Strategies, challenges and opportunities of enzyme immobilization on porous silicon for biosensing applications. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104266	6.8	20
64	Current challenges, applications and future perspectives of SCOBY cellulose of Kombucha fermentation. <i>Journal of Cleaner Production</i> , 2021 , 295, 126454	10.3	20
63	Investigation on the production of bioethanol from black tea waste biomass in the seawater-based system. <i>Bioresource Technology Reports</i> , 2018 , 4, 209-213	4.1	18
62	Engineering principles and process designs for phosphorus recovery as struvite: A comprehensive review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105579	6.8	18
61	A review of chromite mining in Sukinda Valley of India: impact and potential remediation measures. <i>International Journal of Phytoremediation</i> , 2020 , 22, 804-818	3.9	17
60	Biosorption of hexavalent chromium and malachite green from aqueous effluents, using <i>Cladophora</i> sp.. <i>Chemistry and Ecology</i> , 2018 , 34, 371-390	2.3	16
59	Assessment of hexavalent chromium biosorption using biodiesel extracted seeds of <i>Jatropha</i> sp., <i>Ricinus</i> sp. and <i>Pongamia</i> sp.. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 5707-5724	3.3	16
58	Performance evaluation of hydroponic system for co-cultivation of microalgae and tomato plant. <i>Journal of Cleaner Production</i> , 2020 , 272, 122823	10.3	15
57	Prediction of pyrolytic product composition and yield for various grass biomass feedstocks. <i>Biomass Conversion and Biorefinery</i> , 2020 , 10, 663-674	2.3	15
56	Integrated biomolecular and bioprocess engineering strategies for enhancing the lipid yield from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 148, 111270	16.2	13
55	Biological nutrient recovery from human urine by enriching mixed microalgal consortium for biodiesel production. <i>Journal of Environmental Management</i> , 2020 , 260, 110111	7.9	12
54	Influence of biochar application on growth of <i>Oryza sativa</i> and its associated soil microbial ecology. <i>Biomass Conversion and Biorefinery</i> , 2019 , 9, 341-352	2.3	12
53	Utilization of sea water based media for the production and characterization of cellulase by <i>Fusarium subglutinans</i> MTCC 11891. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016 , 7, 187-192	4.2	11
52	Optimization of process variables on two-step microwave-assisted transesterification of waste cooking oil. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 27244-27255	5.1	11
51	Biophysical modeling of microalgal cultivation in open ponds. <i>Ecological Modelling</i> , 2018 , 388, 61-71	3	11
50	Elimination of Toxic Heavy Metals from Aqueous Systems Using Potential Biosorbents: A Review. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2019 , 291-311	0.4	10

49	Predictive capability evaluation and optimization of sustainable biodiesel production from oleaginous biomass grown on pulp and paper industrial wastewater. <i>Renewable Energy</i> , 2021 , 168, 204-215	8.1	10
48	Thermal behavior and pyrolytic kinetics of palm kernel shells and Indian lignite coal at various blending ratios. <i>Bioresource Technology Reports</i> , 2018 , 4, 88-95	4.1	10
47	Integrated microalgal biorefinery for the production and application of biostimulants in circular bioeconomy. <i>Bioresource Technology</i> , 2021 , 339, 125588	11	10
46	Cytotoxic and pharmacokinetic studies of Indian seaweed polysaccharides for formulating raindrop synbiotic candy. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 557-566	7.9	9
45	Biochar amendments and its impact on soil biota for sustainable agriculture. <i>Biochar</i> , 2020 , 2, 287-305	10	9
44	Challenges and opportunities of nutrient recovery from human urine using biochar for fertilizer applications. <i>Journal of Cleaner Production</i> , 2021 , 304, 127019	10.3	9
43	Microwave assisted carbonization and activation of biochar for energy-environment nexus: A review. <i>Chemosphere</i> , 2022 , 286, 131631	8.4	9
42	Modelling the Effect of Photoinhibition on Microalgal Production Potential in Fixed and Trackable Photobioreactors in Odisha, India. <i>Current Science</i> , 2017 , 113, 272	2.2	8
41	Effect of storage on physicochemical characteristics of urine for phosphate and ammonium recovery as struvite. <i>International Biodeterioration and Biodegradation</i> , 2020 , 153, 105053	4.8	8
40	Colorimetric paper bioassay by horseradish peroxidase for the detection of catechol and resorcinol in aqueous samples. <i>Preparative Biochemistry and Biotechnology</i> , 2020 , 50, 849-856	2.4	7
39	Development of glucose oxidase-chitosan immobilized paper biosensor using screen-printed electrode for amperometric detection of Cr(VI) in water. <i>3 Biotech</i> , 2021 , 11, 183	2.8	7
38	Thermochemical behaviors and co-gasification kinetics of palm kernel shells with bituminous coal. <i>Biomass Conversion and Biorefinery</i> , 2020 , 10, 697-706	2.3	6
37	Evaluating the harvesting efficiency of inorganic coagulants on native microalgal consortium enriched with human urine. <i>Water Science and Technology</i> , 2020 , 82, 1217-1226	2.2	5
36	Inhibition assays of free and immobilized urease for detecting hexavalent chromium in water samples. <i>3 Biotech</i> , 2019 , 9, 124	2.8	4
35	Effect of Geographical Coordinates on Carbon Dioxide Sequestration Potential by Microalgae. <i>International Journal of Environmental Science and Development</i> , 2017 , 8, 147-152	0.4	4
34	Recent advances and future prospects of electrochemical processes for microalgae harvesting. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105875	6.8	4
33	A comparative study of phosphorus recovery as struvite from cow and human urine. <i>Materials Today: Proceedings</i> , 2021 , 47, 391-395	1.4	4
32	Inhibition assays of horseradish peroxidase by hexavalent chromium and other heavy metals. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-13	1.8	3

31	Sea Water as a Reaction Medium for Bioethanol Production 2018 , 171-192		3
30	Techno-economic Feasibility Assessment of Bacterial Cellulose Biofilm Production during the Kombucha Fermentation Process.. <i>Bioresource Technology</i> , 2021 , 346, 126659	11	3
29	Modeling Biochar Yield and Syngas Production During the Pyrolysis of Agro-Residues. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2019 , 325-336	0.4	3
28	Performance evaluation of bubble column photobioreactor along with CFD simulations for microalgal cultivation using human urine. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104615	6.8	3
27	Theoretical Modeling of Algal Productivity and Carbon Capture Potential in Selected Places of Odisha, India. <i>Journal of the Institution of Engineers (India): Series A</i> , 2020 , 101, 503-512	1	2
26	Quorum Quenching and Biofilm Inhibition: Alternative Imminent Strategies to Control the Disease Cholera 2018 , 63-85		2
25	Inhibition Assays of Urease for Detecting Trivalent Chromium in Drinking Water. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2019 , 313-323	0.4	2
24	Comparative study of pyrolysis and hydrothermal liquefaction of microalgal species: Analysis of product yields with reaction temperature. <i>Fuel</i> , 2022 , 311, 121932	7.1	2
23	Experimental and modelling studies of convective and microwave drying kinetics for microalgae. <i>Bioresource Technology</i> , 2021 , 340, 125721	11	2
22	Uncertainty analysis and stochastic studies of techno-economics of algal carbon sequestration at Indian coal powered plants. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101897	7	2
21	Strategies Behind Biosensors for Food and Waterborne Pathogens 2018 , 107-141		1
20	Biodiesel production from lignocellulosic biomass using <i>Yarrowia lipolytica</i> . <i>Energy Conversion and Management: X</i> , 2022 , 13, 100167	2.5	1
19	Theoretical Estimation of the Microalgal Potential for Biofuel Production and Carbon Dioxide Sequestration in India. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 775-790	0.4	1
18	Evaluation of physicochemical procedures for pigment extraction from mixed microalgal consortium. <i>Bioresource Technology Reports</i> , 2021 , 100775	4.1	1
17	An in-silico Approach for Enhancing the Lipid Productivity in Microalgae by Manipulating the Fatty Acid Biosynthesis. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 877-889	0.4	1
16	Impact of advanced extraction technologies and characterization of freeze-dried brown seaweed polysaccharides. <i>Drying Technology</i> , 2021 , 39, 371-382	2.6	1
15	Characterization of engineered corn cob biochar produced in allothermal pyrolysis reactor. <i>Materials Today: Proceedings</i> , 2021 , 47, 312-317	1.4	1
14	Evaluation of influential factors in microwave assisted pyrolysis of sugarcane bagasse for biochar production. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101939	7	1

13	Hairy Roots as a Source for Phytoremediation 2021 , 29-47		1
12	Research trends and market opportunities of microalgal biorefinery technologies from circular bioeconomy perspectives.. <i>Bioresource Technology</i> , 2022 , 351, 127038	11	1
11	Malachite green removal using algal biochar and its composites with kombucha SCOBY: An integrated biosorption and phycoremediation approach. <i>Surfaces and Interfaces</i> , 2022 , 30, 101880	4.1	1
10	Machine learning prediction of SCOBY cellulose yield from Kombucha tea fermentation. <i>Bioresource Technology Reports</i> , 2022 , 18, 101027	4.1	1
9	Optimization of Etherification Reactions for Recycling of Tea Fungal Biomass Waste into Carboxymethylcellulose. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2019 , 337-346	0.4	0
8	Prospects of utilizing seawater as a reaction medium for pretreatment and saccharification of rice straw.. <i>Chemosphere</i> , 2022 , 293, 133528	8.4	0
7	Potential of keratin loaded activated carbon and aqueous extracts of <i>Allium sativum</i> for the development of antibacterial wound dressing. <i>Materials Today: Proceedings</i> , 2021 , 47, 321-325	1.4	0
6	Effect of coconut shell in gasification kinetics of palm kernel shells at various blending ratios. <i>Environment, Development and Sustainability</i> ,1	4.5	0
5	Evaluating the scientific contributions of biogas technology on rural development through scientometric analysis. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101879	7	0
4	Evolution of struvite research and the way forward in resource recovery of phosphates through scientometric analysis. <i>Journal of Cleaner Production</i> , 2022 , 357, 131737	10.3	0
3	Utilization of Seawater in the Pretreatment and Saccharification of Seaweed. <i>Asian Journal of Water, Environment and Pollution</i> , 2022 , 19, 33-39	0.7	
2	Impact of Hydrochloric Acid on Phase Formation of Titanium Dioxide Nanoparticles 2017 , 153-158		
1	Production Techniques, Mechanism, and Application of Biochar in Remediating Soil Contaminated with Heavy Metals: A Review 2022 , 69-90		