

Rameshprabu Ramaraj

List of Publications by Year in descending order

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86
papers

1,754
citations

346980

22
h-index

406436

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86
docs citations

86
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of silver nanoparticles using marine macroalgae <i>Padina</i> sp. and its antibacterial activity towards pathogenic bacteria. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2020, 9, .	0.8	155
2	Fermentation of pineapple fruit peel wastes for bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 761-765.	2.9	81
3	The optimization of oil extraction from macroalgae, <i>Rhizoclonium</i> sp. by chemical methods for efficient conversion into biodiesel. <i>Fuel</i> , 2020, 274, 117841.	3.4	78
4	Bioethanol production from sunflower stalk: application of chemical and biological pretreatments by response surface methodology (RSM). <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1759-1773.	2.9	75
5	Bioethanol production from the comparison between optimization of sorghum stalk and sugarcane leaf for sugar production by chemical pretreatment and enzymatic degradation. <i>Fuel</i> , 2020, 278, 118262.	3.4	59
6	Impact and significance of alkaline-oxidant pretreatment on the enzymatic digestibility of <i>Sphenoclea zeylanica</i> for bioethanol production. <i>Bioresource Technology</i> , 2018, 247, 125-130.	4.8	55
7	The potential of carbon dioxide capture and sequestration with algae. <i>Ecological Engineering</i> , 2017, 98, 17-23.	1.6	54
8	Microalgae cultivation using palm oil mill effluent as growth medium for lipid production with the effect of CO ₂ supply and light intensity. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1555-1563.	2.9	51
9	The immobilization of yeast for fermentation of macroalgae <i>Rhizoclonium</i> sp. for efficient conversion into bioethanol. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 827-835.	2.9	43
10	Carbon dioxide fixation of freshwater microalgae growth on natural water medium. <i>Ecological Engineering</i> , 2015, 75, 86-92.	1.6	40
11	Potential development of compressed bio-methane gas production from pig farms and elephant grass silage for transportation in Thailand. <i>Bioresource Technology</i> , 2014, 155, 438-441.	4.8	38
12	Freshwater microalgae niche of air carbon dioxide mitigation. <i>Ecological Engineering</i> , 2014, 68, 47-52.	1.6	35
13	Sustainability assessment of biogas production from buffalo grass and dung: biogas purification and bio-fertilizer. <i>3 Biotech</i> , 2018, 8, 151.	1.1	35
14	Optimization of pretreatment condition for ethanol production from <i>Cyperus difformis</i> by response surface methodology. <i>3 Biotech</i> , 2019, 9, 218.	1.1	35
15	Growth condition study of algae function in ecosystem for CO ₂ bio-fixation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 107, 27-34.	1.7	34
16	Microalgae cultivation in wastewater effluent from tilapia culture pond for enhanced bioethanol production. <i>Water Science and Technology</i> , 2021, 84, 2686-2694.	1.2	33
17	Sustainability assessment of water hyacinth with swine dung for biogas production, methane enhancement, and biofertilizer. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 849-860.	2.9	32
18	Biotechnological application of sustainable biogas production through dry anaerobic digestion of Napier grass. <i>3 Biotech</i> , 2017, 7, 47.	1.1	28

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19	Environmental management and valorization of cultivated tobacco stalks by combined pretreatment for potential bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	27
20	Raffinose family oligosaccharides in seed of <i>Glycine max</i> cv. Chiang Mai60 and potential source of prebiotic substances. <i>International Journal of Food Science and Technology</i> , 2015, 50, 1750-1756.	1.3	26
21	Impact and significance of pretreatment on the fermentable sugar production from low-grade longan fruit wastes for bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1605-1617.	2.9	26
22	Biohydrogen production using algae: Potentiality, economics and challenges. <i>Bioresource Technology</i> , 2022, 360, 127514.	4.8	26
23	Potential improvement of biogas production from fallen teak leaves with co-digestion of microalgae. <i>3 Biotech</i> , 2018, 8, 123.	1.1	25
24	Methane productivity evaluation of an invasive wetland plant, common reed. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 689-695.	2.9	24
25	Statistical optimization of lipid production by the diatom <i>Gyrosigma</i> sp. grown in industrial wastewater. <i>Journal of Applied Phycology</i> , 2020, 32, 375-387.	1.5	24
26	Chronic ecotoxicology and statistical investigation of ciprofloxacin and ofloxacin to <i>Daphnia magna</i> under extendedly long-term exposure. <i>Environmental Pollution</i> , 2021, 291, 118095.	3.7	24
27	Enhancement of hydrolysis with <i>Trichoderma harzianum</i> for bioethanol production of sonicated pineapple fruit peel. <i>Fuel</i> , 2020, 279, 118437.	3.4	23
28	An exploration of the relationships between microalgae biomass growth and related environmental variables. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 135, 44-47.	1.7	22
29	Carbon dioxide bio-fixation by algae of high rate pond on natural water medium. <i>Ecological Engineering</i> , 2016, 92, 106-110.	1.6	22
30	Exploration of bioactive compounds and antibacterial activity of marine blue-green microalgae (<i>Oscillatoria</i> sp.) isolated from coastal region of west Malaysia. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	22
31	Cellulosic-derived bioethanol from <i>Limnocharis flava</i> utilizing alkaline pretreatment. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1737-1743.	2.9	22
32	Biomass generation and biodiesel production from macroalgae grown in the irrigation canal wastewater. <i>Water Science and Technology</i> , 2021, 84, 2695-2702.	1.2	22
33	Hydrothermal pretreatment and acid hydrolysis of coconut pulp residue for fermentable sugar production. <i>Food and Bioproducts Processing</i> , 2020, 122, 31-40.	1.8	21
34	Comparative analysis of fresh and dry free-floating aquatic plant <i>Pistia stratiotes</i> via chemical pretreatment for second-generation (2G) bioethanol production. <i>Bioresource Technology Reports</i> , 2021, 14, 100651.	1.5	21
35	Bioethanol production from corn stalk juice using <i>Saccharomyces cerevisiae</i> TISTR 5020. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1615-1621.	1.2	20
36	Sustainability and application of corncob-derived biochar for removal of fluoroquinolones. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 913-923.	2.9	20

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37	Liquid hot water extraction as a chemical-free pretreatment approach for biobutanol production from <i>Cassia fistula</i> pods. <i>Fuel</i> , 2020, 279, 118393.	3.4	18
38	Advancement of fermentable sugars from fresh elephant ear plant weed for efficient bioethanol production. <i>Environment, Development and Sustainability</i> , 2022, 24, 7377-7387.	2.7	18
39	Carbon sequestration by alga ecosystems. <i>Ecological Engineering</i> , 2015, 84, 386-389.	1.6	17
40	Optimization of combined pre-treatments on sugarcane leaves for bioethanol production. <i>Maejo International Journal of Energy and Environmental Communication</i> , 2021, 1, 30-39.	0.5	16
41	Biomass of algae growth on natural water medium. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 142, 124-128.	1.7	15
42	Effects of substrate concentration and hydraulic retention time on hydrogen production from common reed by enriched mixed culture in continuous anaerobic bioreactor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14036-14044.	3.8	15
43	A biorefinery approach for the production of bioethanol from alkaline-pretreated, enzymatically hydrolyzed <i>Nicotiana tabacum</i> stalks as feedstock for the bio-based industry. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 891-899.	2.9	14
44	Potential evaluation of biogas production through the exploitation of naturally growing freshwater macroalgae <i>Spirogyra varians</i> . <i>Environment, Development and Sustainability</i> , 0, , .	2.7	13
45	Simultaneous carbon dioxide reduction and methane generation in biogas for rural household use via anaerobic digestion of wetland grass with cow dung. <i>Fuel</i> , 2022, 317, 123487.	3.4	13
46	Bioethanol production from coconut pulp residue using hydrothermal and postalkaline pretreatment. <i>International Journal of Energy Research</i> , 2021, 45, 8140-8150.	2.2	11
47	Fabrication and performance evaluation of dye-sensitized solar cell integrated with natural dye from <i>Strobilanthes cusia</i> under different counter-electrode materials. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 1073-1083.	1.6	11
48	A Method of Short-Circuiting Comparison. <i>Water Resources Management</i> , 2012, 26, 2689-2702.	1.9	10
49	Stimulation of natural enzymes for germination of mimosa weed seeds to enhanced bioethanol production. <i>3 Biotech</i> , 2021, 11, 307.	1.1	10
50	Anthocyanin pigment-based dye-sensitized solar cells with improved pH-dependent photovoltaic properties. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101971.	1.7	10
51	Comparative studies of the longan leaf pigment extraction as a photosensitizer for dye-sensitized solar cells's™ purpose. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1619-1626.	2.9	9
52	Innovative biorefinery concept for biogas-based digestate with rice bran protein-rich feed ingredient for tilapia production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1639-1645.	2.9	9
53	Appropriateness of waste jasmine flower for bioethanol conversion with enzymatic hydrolysis: sustainable development on green fuel production. <i>3 Biotech</i> , 2021, 11, 216.	1.1	9
54	Improvement of fermentable sugar for enhanced bioethanol production from <i>Amorphophallus</i> spp. tuber obtained from northern Thailand. <i>Environment, Development and Sustainability</i> , 2022, 24, 8351-8362.	2.7	9

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55	Advancements of fermentable sugar yield by pretreatment and steam explosion during enzymatic saccharification of <i>Amorphophallus</i> sp. starchy tuber for bioethanol production. <i>Fuel</i> , 2022, 323, 124406.	3.4	9
56	Physical pretreatment and algal enzyme hydrolysis of dried low-grade and waste longan fruits to enhance its fermentable sugar production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1669-1677.	2.9	8
57	Development of sustainable approaches for converting the agro-weeds <i>Ludwigia hyssopifolia</i> to biogas production. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	8
58	Sustainable valorization of water primrose with cow dung for enhanced biogas production. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1647-1655.	2.9	8
59	Sustainable development of feed formulation for farmed tilapia enriched with fermented pig manure to reduce production costs. <i>Science of the Total Environment</i> , 2021, 801, 149614.	3.9	8
60	Adsorption performances of corn cob-derived biochar in saturated and semi-saturated vertical-flow constructed wetlands for nutrient removal under erratic oxygen supply. <i>Environmental Chemistry and Ecotoxicology</i> , 2022, 4, 155-163.	4.6	8
61	Grass Silage for Biogas Production. , 0, , .		7
62	Modeling and implementing the use of aeration to increase water temperature and dissolved oxygen in greenhouse aquaculture cages. <i>Aquacultural Engineering</i> , 2020, 91, 102119.	1.4	7
63	Natural dyes extracted from <i>Inthanin bok</i> leaves as light-harvesting units for dye-sensitized solar cells. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 391-403.	1.6	7
64	Valorization and biorefinery of kaffir lime peels waste for antifungal activity and sustainable control of mango fruit anthracnose. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10735-10749.	2.9	7
65	<i>Spirogyra</i> cultured in fishpond wastewater for biomass generation. <i>Maejo International Journal of Energy and Environmental Communication</i> , 2021, 2, 58-65.	0.5	7
66	Physiological response of <i>Simocephalus vetulus</i> to five antibiotics and their mixture under 48-h acute exposure. <i>Science of the Total Environment</i> , 2022, 829, 154585.	3.9	7
67	Effects of Co-substrate Concentrations on the Anaerobic Co-Digestion of Common Reed and Cow Dung. <i>AJARCADE Asian Journal of Applied Research for Community Development and Empowerment</i> , 2019, 3, 28-32.	0.0	5
68	Enhanced fermentable sugar production from low grade and damaged longan fruits using cellulase with algal enzymes for bioethanol production. <i>Emergent Life Sciences Research</i> , 2020, 06, 26-31.	0.0	5
69	EXTRACTION OF ANTHOCYANIN PIGMENTS FROM MALABAR SPINACH FRUITS AS A POTENTIAL PHOTOSENSITIZER FOR DYE-SENSITIZED SOLAR CELL. , 2020, , 5-9.		5
70	POTENTIAL EVALUATION OF YELLOW COTTON (<i>COCHLOSPERMUM REGIUM</i>) PIGMENTS FOR DYE SENSITIZED SOLAR CELLS APPLICATION. , 2020, , 16-21.		5
71	Effect of hot water extraction process on schizophyllan from split gill mushroom. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1017-1026.	2.9	5
72	The effect of various pretreatments conditions on the distribution of fermentable sugar from dried elephant ear plant. <i>Fuel</i> , 2022, 324, 124624.	3.4	5

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73	Assessment of the effects of anaerobic co-digestion of water primrose and cow dung with swine manure on biogas yield and biodegradability. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	4
74	Ethanol production from corn stalk juice by <i>Saccharomyces cerevisiae</i> immobilized yeast using a green method. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	4
75	Effect of biogas sludge meal supplement in feed on growth performance molting period and production cost of giant freshwater prawn culture. <i>Chemosphere</i> , 2022, 301, 134638.	4.2	4
76	Optimization of ethanol precipitation of schizophyllan from <i>Schizophyllum commune</i> by applied statistical modelling. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 2707-2719.	2.9	3
77	Muntingia calabura fruits as sources of bioactive compounds and fermentative ethanol production. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4703-4714.	2.9	3
78	Role of sulphide reduction by magnesium hydroxide on the sediment of the eutrophic closed bay. <i>Aquaculture Research</i> , 2018, 49, 462-470.	0.9	2
79	Antimicrobial Study of Algal Enzymes Extracted from Microalgae by Ultrasonication. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
80	THE EFFECTS OF MAGNESIUM HYDROXIDE FOR THE MICROBIAL COMMUNITY IN THE SEDIMENTS OF A EUTROPHIC CLOSED BAY. <i>International Journal of GEOMATE</i> , 2018, 14, .	0.1	2
81	Effect of blue light intensity and photoperiods on the growth of diatom <i>Thalassiosira pseudonana</i> . <i>Bioresource Technology Reports</i> , 2022, 19, 101152.	1.5	2
82	A method of short-circuiting comparison with mixing indexes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2011, 60, 502-510.	0.6	1
83	BIOMETHANE POTENTIAL OF INVASIVE AQUATIC WEED WATER PRIMROSE. , 2021, , 1-5.		1
84	THERMOCHEMICAL PRETREATMENT METHOD FOLLOWED BY ENZYME HYDROLYSIS OF TOBACCO STALKS FOR BIOETHANOL PRODUCTION. , 2021, , 6-10.		0
85	IMPROVEMENT OF BIOETHANOL PRODUCTION FROM LOW GRADE AND DAMAGED LONGAN FRUITS WITH THERMAL PRETREATMENT AND DIFFERENT TYPES OF THE ENZYMATIC HYDROLYSIS. , 2020, , 6-11.		0
86	Enhancement of Fermentable Sugars Obtained from <i>Amorphophallus</i> Spp. Tuber for Bioethanol Production by Optimizing Temperature and Pretreatment Concentration. <i>Materials Science Forum</i> , 0, 1056, 185-190.	0.3	0