

Pau-Loke Show

List of Publications by Year in descending order

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Version: 2024-02-01

599
papers

30,622
citations

5876

81
h-index

11288

136
g-index

616
all docs

616
docs citations

616
times ranked

19436
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae biorefinery: High value products perspectives. <i>Bioresource Technology</i> , 2017, 229, 53-62.	4.8	947
2	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. <i>Journal of Cleaner Production</i> , 2021, 296, 126589.	4.6	628
3	Microalgae: A potential alternative to health supplementation for humans. <i>Food Science and Human Wellness</i> , 2019, 8, 16-24.	2.2	538
4	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021, 82, 100887.	15.8	429
5	Biosequestration of atmospheric CO ₂ and flue gas-containing CO ₂ by microalgae. <i>Bioresource Technology</i> , 2015, 184, 190-201.	4.8	417
6	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020, 400, 122961.	6.5	358
7	A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. <i>Journal of Hazardous Materials</i> , 2021, 409, 124413.	6.5	309
8	Recent developments in physical, biological, chemical, and hybrid treatment techniques for removing emerging contaminants from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 416, 125912.	6.5	300
9	Waste to bioenergy: a review on the recent conversion technologies. <i>BMC Energy</i> , 2019, 1, .	6.3	285
10	Recent developments on algal biochar production and characterization. <i>Bioresource Technology</i> , 2017, 246, 2-11.	4.8	281
11	Green synthesis of zinc oxide nanoparticles using <i>Phoenix dactylifera</i> waste as bioreductant for effective dye degradation and antibacterial performance in wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 402, 123560.	6.5	276
12	Mango leaf extract incorporated chitosan antioxidant film for active food packaging. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 1234-1243.	3.6	264
13	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. <i>Journal of Cleaner Production</i> , 2021, 305, 127143.	4.6	252
14	A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils. <i>Chemosphere</i> , 2022, 287, 132369.	4.2	246
15	Sustainable approaches for algae utilisation in bioenergy production. <i>Renewable Energy</i> , 2018, 129, 838-852.	4.3	241
16	A state-of-the-art review on thermochemical conversion of biomass for biofuel production: A TG-FTIR approach. <i>Energy Conversion and Management</i> , 2020, 209, 112634.	4.4	238
17	New Prospects for Modified Algae in Heavy Metal Adsorption. <i>Trends in Biotechnology</i> , 2019, 37, 1255-1268.	4.9	235
18	Enhancement of Food Processes by Ultrasound: A Review. <i>Critical Reviews in Food Science and Nutrition</i> , 2015, 55, 570-594.	5.4	234

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19	Multifaceted roles of microalgae in the application of wastewater biotreatment: A review. <i>Environmental Pollution</i> , 2021, 269, 116236.	3.7	231
20	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. <i>Food and Chemical Toxicology</i> , 2022, 164, 112961.	1.8	231
21	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , 2020, 11, 116-129.	1.4	229
22	Sustainability of the four generations of biofuels – A review. <i>International Journal of Energy Research</i> , 2020, 44, 9266-9282.	2.2	225
23	Potential utilization of bioproducts from microalgae for the quality enhancement of natural products. <i>Bioresource Technology</i> , 2020, 304, 122997.	4.8	224
24	Technologies for Biogas Upgrading to Biomethane: A Review. <i>Bioengineering</i> , 2019, 6, 92.	1.6	218
25	Recent advances in downstream processing of microalgae lipid recovery for biofuel production. <i>Bioresource Technology</i> , 2020, 304, 122996.	4.8	217
26	Torrefaction, pyrolysis and two-stage thermodegradation of hemicellulose, cellulose and lignin. <i>Fuel</i> , 2019, 258, 116168.	3.4	201
27	Recent advances in biorefinery of astaxanthin from <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2019, 288, 121606.	4.8	200
28	Recent advances in the pretreatment of microalgal and lignocellulosic biomass: A comprehensive review. <i>Bioresource Technology</i> , 2020, 298, 122476.	4.8	195
29	Biologically-mediated carbon capture and utilization by microalgae towards sustainable CO ₂ biofixation and biomass valorization – A review. <i>Chemical Engineering Journal</i> , 2022, 427, 130884.	6.6	192
30	The COVID-19 pandemic face mask waste: A blooming threat to the marine environment. <i>Chemosphere</i> , 2021, 272, 129601.	4.2	187
31	Recent advances biodegradation and biosorption of organic compounds from wastewater: Microalgae-bacteria consortium - A review. <i>Bioresource Technology</i> , 2022, 344, 126159.	4.8	185
32	Overview of citric acid production from <i>Aspergillus niger</i> . <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2015, 8, 271-283.	1.1	182
33	Pretreatment methods for lignocellulosic biofuels production: current advances, challenges and future prospects. <i>Biofuel Research Journal</i> , 2020, 7, 1115-1127.	7.2	181
34	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021, 14, 87.	6.2	176
35	Congo red dye removal from aqueous environment by cationic surfactant modified-biomass derived carbon: Equilibrium, kinetic, and thermodynamic modeling, and forecasting via artificial neural network approach. <i>Chemosphere</i> , 2022, 290, 133346.	4.2	175
36	Effects of water culture medium, cultivation systems and growth modes for microalgae cultivation: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 332-344.	2.7	174

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37	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 429-439.	5.3	171
38	Ultrasound-assisted extraction of phenolics from wine lees: Modeling, optimization and stability of extracts during storage. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 706-715.	3.8	170
39	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , 2021, 272, 115986.	3.7	165
40	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. <i>Bioresource Technology</i> , 2016, 215, 346-356.	4.8	162
41	Biological remediation of acid mine drainage: Review of past trends and current outlook. <i>Environmental Science and Ecotechnology</i> , 2020, 2, 100024.	6.7	162
42	Kinetic modeling of ultrasound-assisted extraction of phenolic compounds from grape marc: Influence of acoustic energy density and temperature. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1461-1469.	3.8	156
43	Cultivation in wastewaters for energy: A microalgae platform. <i>Applied Energy</i> , 2016, 179, 609-625.	5.1	156
44	Greenhouse gases utilization: A review. <i>Fuel</i> , 2021, 301, 121017.	3.4	153
45	Microalgae from wastewater treatment to biochar – Feedstock preparation and conversion technologies. <i>Energy Conversion and Management</i> , 2017, 150, 1-13.	4.4	144
46	Bromelain: an overview of industrial application and purification strategies. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7283-7297.	1.7	141
47	Antibiotics: An overview on the environmental occurrence, toxicity, degradation, and removal methods. <i>Bioengineered</i> , 2021, 12, 7376-7416.	1.4	141
48	Overview: Comparison of pretreatment technologies and fermentation processes of bioethanol from microalgae. <i>Energy Conversion and Management</i> , 2018, 173, 81-94.	4.4	134
49	Biopolymers and composites: Properties, characterization and their applications in food, medical and pharmaceutical industries. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105322.	3.3	134
50	Transformation of Biomass Waste into Sustainable Organic Fertilizers. <i>Sustainability</i> , 2019, 11, 2266.	1.6	129
51	Torrefaction of microalgal biochar as potential coal fuel and application as bio-adsorbent. <i>Energy Conversion and Management</i> , 2018, 165, 152-162.	4.4	125
52	Antibacterial activity of quaternized chitosan modified nanofiber membrane. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 569-577.	3.6	125
53	An update on physical health and economic consequences of overweight and obesity. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2018, 12, 1095-1100.	1.8	124
54	Bioflocculation formation of microalgae-bacteria in enhancing microalgae harvesting and nutrient removal from wastewater effluent. <i>Bioresource Technology</i> , 2019, 272, 34-39.	4.8	124

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55	Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: Insights from the recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2014, 180, 52-65.	1.9	121
56	Genetic engineering of microalgae for enhanced biorefinery capabilities. <i>Biotechnology Advances</i> , 2020, 43, 107554.	6.0	117
57	Preparation and characterization of curdlan/polyvinyl alcohol/ thyme essential oil blending film and its application to chilled meat preservation. <i>Carbohydrate Polymers</i> , 2020, 247, 116670.	5.1	115
58	Fermentation of blueberry and blackberry juices using <i>Lactobacillus plantarum</i> , <i>Streptococcus thermophilus</i> and <i>Bifidobacterium bifidum</i> : Growth of probiotics, metabolism of phenolics, antioxidant capacity in vitro and sensory evaluation. <i>Food Chemistry</i> , 2021, 348, 129083.	4.2	115
59	Bio-processing of algal bio-refinery: a review on current advances and future perspectives. <i>Bioengineered</i> , 2019, 10, 574-592.	1.4	114
60	A Holistic Approach to Managing Microalgae for Biofuel Applications. <i>International Journal of Molecular Sciences</i> , 2017, 18, 215.	1.8	113
61	Algae biopolymer towards sustainable circular economy. <i>Bioresource Technology</i> , 2021, 325, 124702.	4.8	112
62	Natural red pigments from plants and their health benefits: A review. <i>Food Reviews International</i> , 2018, 34, 463-482.	4.3	108
63	Role of biochar surface characteristics in the adsorption of aromatic compounds: Pore structure and functional groups. <i>Chinese Chemical Letters</i> , 2021, 32, 2939-2946.	4.8	107
64	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111852.	8.2	107
65	Enhanced microalgal protein extraction and purification using sustainable microwave-assisted multiphase partitioning technique. <i>Chemical Engineering Journal</i> , 2019, 367, 1-8.	6.6	105
66	Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. <i>Bioresource Technology</i> , 2021, 320, 124299.	4.8	104
67	Progress and perspective on algal plastics – A critical review. <i>Bioresource Technology</i> , 2019, 289, 121700.	4.8	102
68	Date pits activated carbon for divalent lead ions removal. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 88-97.	1.1	101
69	An update on obesity: Mental consequences and psychological interventions. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2019, 13, 155-160.	1.8	100
70	Micro (nano) plastic pollution: The ecological influence on soil-plant system and human health. <i>Science of the Total Environment</i> , 2021, 788, 147815.	3.9	99
71	Biosorption performance of date palm empty fruit bunch wastes for toxic hexavalent chromium removal. <i>Environmental Research</i> , 2020, 187, 109694.	3.7	98
72	Nanomaterials Utilization in Biomass for Biofuel and Bioenergy Production. <i>Energies</i> , 2020, 13, 892.	1.6	97

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73	Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications – A review. <i>Chemosphere</i> , 2021, 271, 129525.	4.2	93
74	Novel approaches of producing bioenergies from microalgae: A recent review. <i>Biotechnology Advances</i> , 2015, 33, 1219-1227.	6.0	92
75	A review of synthesis and morphology of SrTiO_3 for energy and other applications. <i>International Journal of Energy Research</i> , 2019, 43, 5151-5174.	2.2	91
76	Utilization of a double-cross-linked amino-functionalized three-dimensional graphene networks as a monolithic adsorbent for methyl orange removal: Equilibrium, kinetics, thermodynamics and artificial neural network modeling. <i>Environmental Research</i> , 2022, 207, 112156.	3.7	90
77	Food waste compost as an organic nutrient source for the cultivation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2018, 267, 356-362.	4.8	89
78	Recent developments of strontium titanate for photocatalytic water splitting application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14316-14340.	3.8	89
79	Green technology for the industrial production of biofuels and bioproducts from microalgae: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1967-1985.	8.3	89
80	Advances in production of bioplastics by microalgae using food waste hydrolysate and wastewater: A review. <i>Bioresource Technology</i> , 2021, 342, 125947.	4.8	89
81	Algae-mediated antibiotic wastewater treatment: A critical review. <i>Environmental Science and Ecotechnology</i> , 2022, 9, 100145.	6.7	89
82	Analysis of Economic and Environmental Aspects of Microalgae Biorefinery for Biofuels Production: A Review. <i>Biotechnology Journal</i> , 2018, 13, 1700618.	1.8	87
83	Mild cell disruption methods for bio-functional proteins recovery from microalgae – Recent developments and future perspectives. <i>Algal Research</i> , 2018, 31, 506-516.	2.4	87
84	Metal/metal oxide nanocomposites for bactericidal effect: A review. <i>Chemosphere</i> , 2021, 272, 128607.	4.2	87
85	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021, 19, 2891-2904.	8.3	87
86	Microalgae and ammonia: A review on inter-relationship. <i>Fuel</i> , 2021, 303, 121303.	3.4	86
87	Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications. <i>Environmental Research</i> , 2022, 204, 111966.	3.7	86
88	Current applications of different type of aqueous two-phase systems. <i>Bioresources and Bioprocessing</i> , 2015, 2, .	2.0	85
89	Recovery of biotechnological products using aqueous two phase systems. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 273-281.	1.1	83
90	Effects of acids pre-treatment on the microbial fermentation process for bioethanol production from microalgae. <i>Biotechnology for Biofuels</i> , 2019, 12, 191.	6.2	83

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91	Integrated ultrasound-assisted liquid biphasic flotation for efficient extraction of astaxanthin from <i>Haematococcus pluvialis</i> . <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105052.	3.8	83
92	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , 2021, 47, 107684.	6.0	83
93	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. <i>Sustainability</i> , 2021, 13, 3247.	1.6	83
94	Combining various wall materials for encapsulation of blueberry anthocyanin extracts: Optimization by artificial neural network and genetic algorithm and a comprehensive analysis of anthocyanin powder properties. <i>Powder Technology</i> , 2017, 311, 77-87.	2.1	82
95	Enhancing biomass and lipid productions of microalgae in palm oil mill effluent using carbon and nutrient supplementation. <i>Energy Conversion and Management</i> , 2018, 164, 188-197.	4.4	82
96	Impact of various microalgal-bacterial populations on municipal wastewater bioremediation and its energy feasibility for lipid-based biofuel production. <i>Journal of Environmental Management</i> , 2019, 249, 109384.	3.8	82
97	Pollutants inducing epigenetic changes and diseases. <i>Environmental Chemistry Letters</i> , 2020, 18, 325-343.	8.3	81
98	Simultaneous removal of toxic ammonia and lettuce cultivation in aquaponic system using microwave pyrolysis biochar. <i>Journal of Hazardous Materials</i> , 2020, 396, 122610.	6.5	81
99	Effects of high hydrostatic pressure processing on the physicochemical and sensorial properties of a red wine. <i>Innovative Food Science and Emerging Technologies</i> , 2012, 16, 409-416.	2.7	79
100	Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies. <i>Environmental Research</i> , 2021, 195, 110857.	3.7	79
101	Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105410.	3.8	79
102	Recovery of lipase derived from <i>Burkholderia cenocepacia</i> ST8 using sustainable aqueous two-phase flotation composed of recycling hydrophilic organic solvent and inorganic salt. <i>Separation and Purification Technology</i> , 2013, 110, 112-118.	3.9	77
103	Effective treatment of dye polluted wastewater using nanoporous CaCl ₂ modified polyethersulfone membrane. <i>Chemical Engineering Research and Design</i> , 2019, 124, 266-278.	2.7	77
104	Biodiesel production using immobilized lipase: feasibility and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 896-916.	1.9	76
105	Recent Advances in Protein Extraction Using Ionic Liquid-based Aqueous Two-phase Systems. <i>Separation and Purification Reviews</i> , 2017, 46, 291-304.	2.8	76
106	The effect of stress environment towards lipid accumulation in microalgae after harvesting. <i>Renewable Energy</i> , 2020, 154, 1083-1091.	4.3	76
107	Extractive fermentation for improved production and recovery of lipase derived from <i>Burkholderia cepacia</i> using a thermoseparating polymer in aqueous two-phase systems. <i>Bioresource Technology</i> , 2012, 116, 226-233.	4.8	75
108	Sustainable utilization of biowaste compost for renewable energy and soil amendments. <i>Environmental Pollution</i> , 2020, 267, 115662.	3.7	75

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109	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. <i>Journal of Hazardous Materials</i> , 2020, 400, 123156.	6.5	75
110	Cellulose acetate-based membranes by interfacial engineering and integration of ZIF-62 glass nanoparticles for CO ₂ separation. <i>Journal of Hazardous Materials</i> , 2021, 415, 125639.	6.5	75
111	Contacting ultrasound enhanced hot-air convective drying of garlic slices: Mass transfer modeling and quality evaluation. <i>Journal of Food Engineering</i> , 2018, 235, 79-88.	2.7	74
112	Sustainable Waste-to-Energy Development in Malaysia: Appraisal of Environmental, Financial, and Public Issues Related with Energy Recovery from Municipal Solid Waste. <i>Processes</i> , 2019, 7, 676.	1.3	74
113	Augmented biohydrogen production from rice mill wastewater through nano-metal oxides assisted dark fermentation. <i>Bioresource Technology</i> , 2021, 319, 124243.	4.8	74
114	Modified mesoporous HMS supported Ni for deoxygenation of triolein into hydrocarbon-biofuel production. <i>Energy Conversion and Management</i> , 2018, 165, 495-508.	4.4	73
115	Microalgae cultivation in palm oil mill effluent (POME) for lipid production and pollutants removal. <i>Energy Conversion and Management</i> , 2018, 174, 430-438.	4.4	73
116	Applications of water blanching, surface contacting ultrasound-assisted air drying, and their combination for dehydration of white cabbage: Drying mechanism, bioactive profile, color and rehydration property. <i>Ultrasonics Sonochemistry</i> , 2019, 53, 192-201.	3.8	73
117	Microalgal-Bacterial Consortia as Future Prospect in Wastewater Bioremediation, <i>Environmental Management and Bioenergy Production</i> . <i>Indian Journal of Microbiology</i> , 2021, 61, 262-269.	1.5	73
118	Direct recovery of lipase derived from <i>Burkholderia cepacia</i> in recycling aqueous two-phase flotation. <i>Separation and Purification Technology</i> , 2011, 80, 577-584.	3.9	72
119	Development of polyhydroxyalkanoates production from waste feedstocks and applications. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 282-292.	1.1	71
120	In vitro gastrointestinal digestion and fecal fermentation reveal the effect of different encapsulation materials on the release, degradation and modulation of gut microbiota of blueberry anthocyanin extract. <i>Food Research International</i> , 2020, 132, 109098.	2.9	71
121	Effects of anaerobic digestion of food waste on biogas production and environmental impacts: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2921-2939.	8.3	71
122	Synthesis of biodiesel from non-edible (<i>Brachychiton populneus</i>) oil in the presence of nickel oxide nanocatalyst: Parametric and optimisation studies. <i>Chemosphere</i> , 2021, 278, 130469.	4.2	71
123	Optimizing real swine wastewater treatment efficiency and carbohydrate productivity of newly microalga <i>Chlamydomonas</i> sp. QWY37 used for cell-displayed bioethanol production. <i>Bioresource Technology</i> , 2020, 305, 123072.	4.8	70
124	CO ₂ mitigation and phycoremediation of industrial flue gas and wastewater via microalgae-bacteria consortium: Possibilities and challenges. <i>Chemical Engineering Journal</i> , 2021, 425, 131436.	6.6	70
125	Biochar production from microalgae cultivation through pyrolysis as a sustainable carbon sequestration and biorefinery approach. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2047-2055.	2.1	69
126	Recent advances in algae biodiesel production: From upstream cultivation to downstream processing. <i>Bioresource Technology Reports</i> , 2019, 7, 100227.	1.5	69

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127	Experimental and modeling studies of ultrasound-assisted release of phenolics from oak chips into model wine. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1839-1848.	3.8	68
128	Power ultrasound as a pretreatment to convective drying of mulberry (<i>Morus alba</i> L.) leaves: Impact on drying kinetics and selected quality properties. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 310-318.	3.8	68
129	Economic and environmental analysis of PHAs production process. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1941-1953.	2.1	68
130	Green Pathway in Utilizing CO ₂ via Cycloaddition Reaction with Epoxide—A Mini Review. <i>Processes</i> , 2020, 8, 548.	1.3	68
131	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. <i>Bioresource Technology</i> , 2021, 342, 126021.	4.8	68
132	Kinetics study on hydrolytic dehydrogenation of alkaline sodium borohydride catalyzed by Mo-modified Co—B nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7308-7317.	3.8	67
133	Optimization of Hydrolysis-Acidogenesis Phase of Swine Manure for Biogas Production Using Two-Stage Anaerobic Fermentation. <i>Processes</i> , 2021, 9, 1324.	1.3	66
134	Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism. <i>Environmental Research</i> , 2022, 212, 113140.	3.7	66
135	A practical approach for synthesis of biodiesel via non-edible seeds oils using trimetallic based montmorillonite nano-catalyst. <i>Bioresource Technology</i> , 2021, 328, 124859.	4.8	65
136	Anaerobic digestate as a low-cost nutrient source for sustainable microalgae cultivation: A way forward through waste valorization approach. <i>Science of the Total Environment</i> , 2022, 803, 150070.	3.9	65
137	Extraction of natural astaxanthin from <i>Haematococcus pluvialis</i> using liquid biphasic flotation system. <i>Bioresource Technology</i> , 2019, 290, 121794.	4.8	64
138	Bioformulation of biochar as a potential inoculant carrier for sustainable agriculture. <i>Environmental Technology and Innovation</i> , 2020, 20, 101168.	3.0	64
139	Prospects of Bioenergy Production From Organic Waste Using Anaerobic Digestion Technology: A Mini Review. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	64
140	Resource recovery from industrial effluents through the cultivation of microalgae: A review. <i>Bioresource Technology</i> , 2021, 337, 125461.	4.8	64
141	Liquid biphasic flotation for the purification of C-phycoerythrin from <i>Spirulina platensis</i> microalga. <i>Bioresource Technology</i> , 2019, 288, 121519.	4.8	63
142	Feasibility assessment of removal of heavy metals and soluble microbial products from aqueous solutions using eggshell wastes. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 773-786.	2.1	63
143	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16734-16750.	3.8	63
144	Biochar production via pyrolysis of citrus peel fruit waste as a potential usage as solid biofuel. <i>Chemosphere</i> , 2022, 294, 133671.	4.2	63

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145	Integration of 3D Printing and Industry 4.0 into Engineering Teaching. Sustainability, 2018, 10, 3960.	1.6	62
146	Novel, energy efficient and green cloud point extraction: technology and applications in food processing. Journal of Food Science and Technology, 2019, 56, 524-534.	1.4	62
147	Sorption of ionized dyes on high-salinity microalgal residue derived biochar: Electron acceptor-donor and metal-organic bridging mechanisms. Journal of Hazardous Materials, 2020, 393, 122435.	6.5	62
148	A preliminary study about the influence of high hydrostatic pressure processing in parallel with oak chip maceration on the physicochemical and sensory properties of a young red wine. Food Chemistry, 2016, 194, 545-554.	4.2	61
149	Single-step disruption and protein recovery from <i>Chlorella vulgaris</i> using ultrasonication and ionic liquid buffer aqueous solutions as extractive solvents. Biochemical Engineering Journal, 2017, 124, 26-35.	1.8	61
150	Improving cell disruption efficiency to facilitate protein release from microalgae using chemical and mechanical integrated method. Biochemical Engineering Journal, 2018, 135, 83-90.	1.8	61
151	Cultivation of Oily Microalgae for the Production of Third-Generation Biofuels. Sustainability, 2019, 11, 5424.	1.6	61
152	Enhancing microalga <i>Chlorella sorokiniana</i> CY-1 biomass and lipid production in palm oil mill effluent (POME) using novel-designed photobioreactor. Bioengineered, 2020, 11, 61-69.	1.4	61
153	Techniques of lipid extraction from microalgae for biofuel production: a review. Environmental Chemistry Letters, 2021, 19, 231-251.	8.3	61
154	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. Chemosphere, 2021, 281, 130886.	4.2	61
155	Recent Progress in Nanomaterials Modified Electrochemical Biosensors for the Detection of MicroRNA. Micromachines, 2021, 12, 1409.	1.4	61
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