

# Pau-Loke Show

## List of Publications by Year in descending order

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599  
papers

30,622  
citations

6840

81  
h-index

12940

136  
g-index

616  
all docs

616  
docs citations

616  
times ranked

21401  
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 <sub>2</sub> and flue gas-containing CO <sub>2</sub> 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 <sub>2</sub> 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 $\text{SrTiO}_3$ 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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
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