

Jun Wei Lim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7256754/publications.pdf>

Version: 2024-02-01

193
papers

8,241
citations

38742

50
h-index

56724

83
g-index

194
all docs

194
docs citations

194
times ranked

7546
citing authors

#	ARTICLE	IF	CITATIONS
1	Microalgae biofuels: A critical review of issues, problems and the way forward. <i>Biotechnology Advances</i> , 2012, 30, 673-690.	11.7	797
2	Current status and challenges on microalgae-based carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 456-469.	4.6	293
3	Renewable and sustainable bioenergies production from palm oil mill effluent (POME): Win-win strategies toward better environmental protection. <i>Biotechnology Advances</i> , 2011, 29, 124-141.	11.7	284
4	A review on microalgae cultivation and harvesting, and their biomass extraction processing using ionic liquids. <i>Bioengineered</i> , 2020, 11, 116-129.	3.2	229
5	Harvesting and pre-treatment of microalgae cultivated in wastewater for biodiesel production: A review. <i>Energy Conversion and Management</i> , 2018, 171, 1416-1429.	9.2	200
6	Third generation biofuels: A nutritional perspective in enhancing microbial lipid production. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 950-961.	16.4	191
7	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021, 14, 87.	6.2	176
8	Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 120-129.	20.2	169
9	Sulfated tin oxide as solid superacid catalyst for transesterification of waste cooking oil: An optimization study. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 134-139.	20.2	168
10	Life cycle evaluation of microalgae biofuels production: Effect of cultivation system on energy, carbon emission and cost balance analysis. <i>Science of the Total Environment</i> , 2019, 688, 112-128.	8.0	162
11	Potential of using organic fertilizer to cultivate <i>Chlorella vulgaris</i> for biodiesel production. <i>Applied Energy</i> , 2012, 94, 303-308.	10.1	138
12	Advanced in developmental organic and inorganic nanomaterial: a review. <i>Bioengineered</i> , 2020, 11, 328-355.	3.2	136
13	Phytochemicals and Biogenic Metallic Nanoparticles as Anticancer Agents. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-15.	4.0	115
14	Cultivation of <i>Chlorella vulgaris</i> using nutrients source from domestic wastewater for biodiesel production: Growth condition and kinetic studies. <i>Renewable Energy</i> , 2017, 103, 197-207.	8.9	115
15	Treatment technologies of palm oil mill effluent (POME) and olive mill wastewater (OMW): A brief review. <i>Environmental Technology and Innovation</i> , 2019, 15, 100377.	6.1	114
16	Algae biopolymer towards sustainable circular economy. <i>Bioresource Technology</i> , 2021, 325, 124702.	9.6	112
17	Anaerobic Co-Digestion of Wastewater Sludge: A Review of Potential Co-Substrates and Operating Factors for Improved Methane Yield. <i>Processes</i> , 2020, 8, 39.	2.8	105
18	Immobilization as a feasible method to simplify the separation of microalgae from water for biodiesel production. <i>Chemical Engineering Journal</i> , 2012, 191, 263-268.	12.7	104

#	ARTICLE	IF	CITATIONS
19	Advances in production of bioplastics by microalgae using food waste hydrolysate and wastewater: A review. <i>Bioresource Technology</i> , 2021, 342, 125947.	9.6	89
20	An overview of heavily polluted landfill leachate treatment using food waste as an alternative and renewable source of activated carbon. <i>Chemical Engineering Research and Design</i> , 2015, 98, 309-318.	5.6	86
21	Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production. <i>Sustainability</i> , 2021, 13, 3247.	3.2	83
22	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.	7.8	82
23	Catalytically active nitrogen-doped porous carbon derived from biowastes for organics removal via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2019, 374, 947-957.	12.7	82
24	In situ nitrogen functionalization of biochar via one-pot synthesis for catalytic peroxymonosulfate activation: Characteristics and performance studies. <i>Separation and Purification Technology</i> , 2020, 241, 116702.	7.9	81
25	Stabilized landfill leachate treatment by sugarcane bagasse derived activated carbon for removal of color, COD and NH ₃ -N – Optimization of preparation conditions by RSM. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1287-1294.	6.7	79
26	A review of organic waste enrichment for inducing palatability of black soldier fly larvae: Wastes to valuable resources. <i>Environmental Pollution</i> , 2020, 267, 115488.	7.5	79
27	Development of high microwave-absorptive bifunctional graphene oxide-based catalyst for biodiesel production. <i>Energy Conversion and Management</i> , 2019, 180, 1013-1025.	9.2	78
28	A sequential treatment of intermediate tropical landfill leachate using a sequencing batch reactor (SBR) and coagulation. <i>Journal of Environmental Management</i> , 2018, 205, 244-252.	7.8	77
29	A review on recent disposal of hazardous sewage sludge via anaerobic digestion and novel composting. <i>Journal of Hazardous Materials</i> , 2022, 423, 126995.	12.4	76
30	Green Pathway in Utilizing CO ₂ via Cycloaddition Reaction with Epoxide – A Mini Review. <i>Processes</i> , 2020, 8, 548.	2.8	68
31	Optimization of self-fermented period of waste coconut endosperm destined to feed black soldier fly larvae in enhancing the lipid and protein yields. <i>Renewable Energy</i> , 2017, 111, 646-654.	8.9	67
32	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.	8.0	65
33	Potential Protein and Biodiesel Sources from Black Soldier Fly Larvae: Insights of Larval Harvesting Instar and Fermented Feeding Medium. <i>Energies</i> , 2019, 12, 1570.	3.1	64
34	Insight review of attached microalgae growth focusing on support material packed in photobioreactor for sustainable biodiesel production and wastewater bioremediation. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110306.	16.4	64
35	Co-cultivation of activated sludge and microalgae for the simultaneous enhancements of nitrogen-rich wastewater bioremediation and lipid production. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 87, 216-224.	5.3	62
36	Catalytic transesterification of high viscosity crude microalgae lipid to biodiesel: Effect of co-solvent. <i>Fuel Processing Technology</i> , 2013, 110, 242-248.	7.2	61

#	ARTICLE	IF	CITATIONS
37	Cultivation of Oily Microalgae for the Production of Third-Generation Biofuels. Sustainability, 2019, 11, 5424.	3.2	61
38	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.	3.2	61
39	Enzymatic pretreatment to enhance anaerobic bioconversion of high strength wastewater to biogas: A review. Science of the Total Environment, 2020, 713, 136373.	8.0	61
40	Investigation of the Relationship between Bacteria Growth and Lipid Production Cultivating of Microalgae <i>Chlorella Vulgaris</i> in Seafood Wastewater. Energies, 2019, 12, 2282.	3.1	59
41	Optimum interaction of light intensity and CO ₂ concentration in bioremediating N-rich real wastewater via assimilation into attached microalgal biomass as the feedstock for biodiesel production. Chemical Engineering Research and Design, 2020, 141, 355-365.	5.6	59
42	Enhanced synchronous photocatalytic 4-chlorophenol degradation and Cr(VI) reduction by novel magnetic separable visible-light-driven Z-scheme CoFe ₂ O ₄ /P-doped BiOBr heterojunction nanocomposites. Environmental Research, 2022, 212, 113394.	7.5	59
43	Modeling to enhance attached microalgal biomass growth onto fluidized beds packed in nutrients-rich wastewater whilst simultaneously biofixing CO ₂ into lipid for biodiesel production. Energy Conversion and Management, 2019, 185, 1-10.	9.2	58
44	Flocculation of <i>Chlorella vulgaris</i> by shell waste-derived bioflocculants for biodiesel production: Process optimization, characterization and kinetic studies. Science of the Total Environment, 2020, 702, 134995.	8.0	58
45	Characterization and Modelling Studies of Activated Carbon Produced from Rubber-Seed Shell Using KOH for CO ₂ Adsorption. Processes, 2019, 7, 855.	2.8	56
46	Palatability of black soldier fly larvae in valorizing mixed waste coconut endosperm and soybean curd residue into larval lipid and protein sources. Journal of Environmental Management, 2019, 231, 129-136.	7.8	56
47	Cultivation of <i>Chlorella vulgaris</i> in a pilot-scale sequential-baffled column photobioreactor for biomass and biodiesel production. Energy Conversion and Management, 2014, 88, 399-410.	9.2	55
48	Semi-continuous cultivation of <i>Chlorella vulgaris</i> using chicken compost as nutrients source: Growth optimization study and fatty acid composition analysis. Energy Conversion and Management, 2018, 164, 363-373.	9.2	55
49	Artificial Neural Network (ANN) for Modelling Adsorption of Lead (Pb (II)) from Aqueous Solution. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	52
50	Simultaneous separation and degradation of surfactants laden in produced water using PVDF/TiO ₂ photocatalytic membrane. Journal of Cleaner Production, 2019, 221, 490-501.	9.3	52
51	Organic Carbonate Production Utilizing Crude Glycerol Derived as By-Product of Biodiesel Production: A Review. Energies, 2020, 13, 1483.	3.1	52
52	Liquid Biphasic System: A Recent Bioseparation Technology. Processes, 2020, 8, 149.	2.8	52
53	Valorization of exo-microbial fermented coconut endosperm waste by black soldier fly larvae for simultaneous biodiesel and protein productions. Environmental Research, 2020, 185, 109458.	7.5	50
54	Pilot-scale semi-continuous cultivation of microalgae <i>Chlorella vulgaris</i> in bubble column photobioreactor (BC-PBR): Hydrodynamics and gas-liquid mass transfer study. Algal Research, 2016, 15, 65-76.	4.6	49

#	ARTICLE	IF	CITATIONS
55	Lipid for biodiesel production from attached growth <i>Chlorella vulgaris</i> biomass cultivating in fluidized bed bioreactor packed with polyurethane foam material. <i>Bioresource Technology</i> , 2017, 239, 127-136.	9.6	49
56	Novel sequential flow baffled microalgal-bacterial photobioreactor for enhancing nitrogen assimilation into microalgal biomass whilst bioremediating nutrient-rich wastewater simultaneously. <i>Journal of Hazardous Materials</i> , 2021, 409, 124455.	12.4	49
57	Stabilization of heavy metals loaded sewage sludge: Reviewing conventional to state-of-the-art thermal treatments in achieving energy sustainability. <i>Chemosphere</i> , 2021, 277, 130310.	8.2	49
58	Nitrogen removal in moving bed sequencing batch reactor using polyurethane foam cubes of various sizes as carrier materials. <i>Bioresource Technology</i> , 2011, 102, 9876-9883.	9.6	48
59	High biodiesel yield from wet microalgae paste via in-situ transesterification: Effect of reaction parameters towards the selectivity of fatty acid esters. <i>Fuel</i> , 2020, 272, 117718.	6.4	47
60	Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?. <i>Chemosphere</i> , 2022, 287, 132458.	8.2	47
61	The competency of various applied strategies in treating tropical municipal landfill leachate. <i>Desalination and Water Treatment</i> , 2015, 54, 2382-2395.	1.0	45
62	An insight into the remediation of highly contaminated landfill leachate using sea mango based activated bio-char: optimization, isothermal and kinetic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 22244-22257.	1.0	45
63	Strategies in Forward Osmosis Membrane Substrate Fabrication and Modification: A Review. <i>Membranes</i> , 2020, 10, 332.	3.0	45
64	Ameliorating Cu ²⁺ reduction in microbial fuel cell with Z-scheme BiFeO ₃ decorated on flower-like ZnO composite photocathode. <i>Chemosphere</i> , 2022, 287, 132384.	8.2	45
65	Cultivation of <i>Chlorella vulgaris</i> using sequential-flow bubble column photobioreactor: A stress-inducing strategy for lipid accumulation and carbon dioxide fixation. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101226.	6.8	44
66	Performance of branched polyethyleneimine grafted porous rice husk silica in treating nitrate-rich wastewater via adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103235.	6.7	42
67	Comparative Performances of Microalgal-Bacterial Co-Cultivation to Bioremediate Synthetic and Municipal Wastewaters Whilst Producing Biodiesel Sustainably. <i>Processes</i> , 2020, 8, 1427.	2.8	42
68	Microbial Fuel Cell Technology—A Critical Review on Scale-Up Issues. <i>Processes</i> , 2021, 9, 985.	2.8	39
69	Polishing of treated palm oil mill effluent (POME) from ponding system by electrocoagulation process. <i>Water Science and Technology</i> , 2016, 73, 2704-2712.	2.5	38
70	<i>Spirulina platensis</i> based biorefinery for the production of value-added products for food and pharmaceutical applications. <i>Bioresource Technology</i> , 2019, 289, 121727.	9.6	38
71	Simultaneous 4-chlorophenol and nitrogen removal in moving bed sequencing batch reactors packed with polyurethane foam cubes of various sizes. <i>Bioresource Technology</i> , 2013, 129, 485-494.	9.6	37
72	Syngas from catalytic steam reforming of palm oil mill effluent: An optimization study. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9220-9236.	7.1	37

#	ARTICLE	IF	CITATIONS
73	Enhancing the performance of porous rice husk silica through branched polyethyleneimine grafting for phosphate adsorption. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6682-6695.	4.9	37
74	Enhancement of nitrogen removal in moving bed sequencing batch reactor with intermittent aeration during REACT period. <i>Chemical Engineering Journal</i> , 2012, 197, 199-203.	12.7	35
75	Insight on Extraction and Characterisation of Biopolymers as the Green Coagulants for Microalgae Harvesting. <i>Water (Switzerland)</i> , 2020, 12, 1388.	2.7	35
76	Dual nutrient heterogeneity modes in a continuous flow photobioreactor for optimum nitrogen assimilation to produce microalgal biodiesel. <i>Renewable Energy</i> , 2022, 184, 443-451.	8.9	35
77	Facile synthesis of CaFe ₂ O ₄ for visible light driven treatment of polluting palm oil mill effluent: Photokinetic and scavenging study. <i>Science of the Total Environment</i> , 2019, 661, 522-530.	8.0	33
78	Blended Sewage Sludge + Palm Kernel Expeller to Enhance the Palatability of Black Soldier Fly Larvae for Biodiesel Production. <i>Processes</i> , 2021, 9, 297.	2.8	33
79	Identification of microbial inhibitions and mitigation strategies towards cleaner bioconversions of palm oil mill effluent (POME): A review. <i>Journal of Cleaner Production</i> , 2021, 280, 124346.	9.3	32
80	Shielding immobilized biomass cryogel beads with powdered activated carbon for the simultaneous adsorption and biodegradation of 4-chlorophenol. <i>Journal of Cleaner Production</i> , 2018, 205, 828-835.	9.3	31
81	Mechanistic kinetic models describing impact of early attachment between <i>Chlorella vulgaris</i> and polyurethane foam material in fluidized bed bioreactor on lipid for biodiesel production. <i>Algal Research</i> , 2018, 33, 209-217.	4.6	31
82	In-Situ Yeast Fermentation to Enhance Bioconversion of Coconut Endosperm Waste into Larval Biomass of <i>Hermetia illucens</i> : Statistical Augmentation of Larval Lipid Content. <i>Sustainability</i> , 2020, 12, 1558.	3.2	31
83	Effect of process variables interaction on simultaneous adsorption of phenol and 4-chlorophenol: statistical modeling and optimization using RSM. <i>Applied Water Science</i> , 2017, 7, 2009-2020.	5.6	30
84	Holistic process evaluation of non-conventional palm oil mill effluent (POME) treatment technologies: A conceptual and comparative review. <i>Journal of Hazardous Materials</i> , 2021, 409, 124964.	12.4	27
85	Photocatalytic membranes: a new perspective for persistent organic pollutants removal. <i>Environmental Science and Pollution Research</i> , 2022, 29, 12506-12530.	5.3	27
86	Optimized Use of Ferric Chloride and Sesbania Seed Gum (SSG) as Sustainable Coagulant Aid for Turbidity Reduction in Drinking Water Treatment. <i>Sustainability</i> , 2020, 12, 2273.	3.2	26
87	Application of Biochar as Functional Material for Remediation of Organic Pollutants in Water: An Overview. <i>Catalysts</i> , 2022, 12, 210.	3.5	25
88	Garden cress mucilage as a potential emerging biopolymer for improving turbidity removal in water treatment. <i>Chemical Engineering Research and Design</i> , 2018, 119, 233-241.	5.6	24
89	Insights into the single and binary adsorption of copper(II) and nickel(II) on hexagonal boron nitride: Performance and mechanistic studies. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102872.	6.7	24
90	Syngas from palm oil mill effluent (POME) steam reforming over lanthanum cobaltite: Effects of net-basicity. <i>Renewable Energy</i> , 2020, 148, 349-362.	8.9	23

#	ARTICLE	IF	CITATIONS
91	Unravelling CO2 capture performance of microalgae cultivation and other technologies via comparative carbon balance analysis. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106519.	6.7	22
92	Enhancement of anaerobic digestibility of waste activated sludge using photo-Fenton pretreatment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27113-27124.	5.3	21
93	Revealing the effect of reaction parameters towards alkyl group distribution in in-situ transesterification of <i>Chlorella vulgaris</i> . <i>Energy Conversion and Management</i> , 2019, 185, 223-231.	9.2	21
94	Biorefinery of <i>Chlorella sorokiniana</i> using ultra sonication assisted liquid triphasic flotation system. <i>Bioresource Technology</i> , 2020, 303, 122931.	9.6	20
95	Finned spacer for enhancing the impact of air bubbles for membrane fouling control in <i>Chlorella vulgaris</i> filtration. <i>Bioresource Technology Reports</i> , 2020, 11, 100429.	2.7	20
96	Performance evaluation and kinetic modeling of down-flow high-rate anaerobic bioreactors for poultry slaughterhouse wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 9529-9541.	5.3	20
97	<i>Rhizopus oligosporus</i> -Assisted Valorization of Coconut Endosperm Waste by Black Soldier Fly Larvae for Simultaneous Protein and Lipid to Biodiesel Production. <i>Processes</i> , 2021, 9, 299.	2.8	20
98	Correlating black soldier fly larvae growths with soluble nutrients derived from thermally pre-treated waste activated sludge. <i>Environmental Research</i> , 2022, 210, 112923.	7.5	20
99	Cultivation of <i>Chlorella vulgaris</i> Using Plant-based and Animal Waste-based Compost: A Comparison Study. <i>Procedia Engineering</i> , 2016, 148, 679-686.	1.2	18
100	Chemical composition and cytotoxic activity of <i>Garcinia atroviridis</i> Griff. ex T. Anders. essential oils in combination with tamoxifen. <i>Natural Product Research</i> , 2018, 32, 854-858.	1.8	18
101	Experimental and Modeling of Dicamba Adsorption in Aqueous Medium Using MIL-101(Cr) Metal-Organic Framework. <i>Processes</i> , 2021, 9, 419.	2.8	18
102	Liquid Polymer Eutectic Mixture for Integrated Extractive-Oxidative Desulfurization of Fuel Oil: An Optimization Study via Response Surface Methodology. <i>Processes</i> , 2020, 8, 848.	2.8	17
103	Simulation and Optimisation of Integrated Anaerobic-Aerobic Bioreactor (IAAB) for the Treatment of Palm Oil Mill Effluent. <i>Processes</i> , 2021, 9, 1124.	2.8	17
104	Recent Developments in Metabolomics Studies of Endophytic Fungi. <i>Journal of Fungi (Basel)</i> , 2021, 7, 17.	3.5	17
105	Residual palm kernel expeller as the support material and alimentation provider in enhancing attached microalgal growth for quality biodiesel production. <i>Journal of Environmental Management</i> , 2022, 316, 115225.	7.8	17
106	Bioregeneration of spent activated carbon: Review of key factors and recent mathematical models of kinetics. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 893-902.	3.5	15
107	Thermophysical Properties and CO2 Absorption of Ammonium-Based Protic Ionic Liquids Containing Acetate and Butyrate Anions. <i>Processes</i> , 2019, 7, 820.	2.8	15
108	Sesquiterpenes rich essential oil from <i>Garcinia celebica</i> L. and its cytotoxic and antimicrobial activities. <i>Natural Product Research</i> , 2020, 34, 3404-3408.	1.8	15

#	ARTICLE	IF	CITATIONS
109	Assuaging Microalgal Harvesting Woes via Attached Growth: A Critical Review to Produce Sustainable Microalgal Feedstock. <i>Sustainability</i> , 2021, 13, 11159.	3.2	15
110	Evaluation of Aeration Strategy in Moving Bed Sequencing Batch Reactor Performing Simultaneous 4-Chlorophenol and Nitrogen Removal. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 831-840.	2.9	14
111	A review on potential of biohydrogen generation through waste decomposition technologies. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8549-8574.	4.6	14
112	Corn starch/PVA bioplasticsâ€™The properties and biodegradability study using <i>Chlorella vulgaris</i> cultivation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2622.	1.5	14
113	Enriched sewage sludge from anaerobic pre-treatment in spurring valorization potential of black soldier fly larvae. <i>Environmental Research</i> , 2022, 212, 113447.	7.5	14
114	Simultaneous Removal of Organic and Inorganic Pollutants From Landfill Leachate Using Sea Mango Derived Activated Carbon via Microwave Induced Activation. <i>International Journal of Chemical Reactor Engineering</i> , 2016, 14, 991-1001.	1.1	13
115	Liquid Biphasic Systems for Oil-Rich Algae Bioproducts Processing. <i>Sustainability</i> , 2019, 11, 4682.	3.2	13
116	A Review on Insights for Green Production of Unconventional Protein and Energy Sources Derived from the Larval Biomass of Black Soldier Fly. <i>Processes</i> , 2020, 8, 523.	2.8	13
117	A Utilization of Choline Chloride-Based Deep Eutectic Solvent Integrated with Alkaline Earth Metal Hexahydrate in the Pretreatment of Oil Palm Fronds. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2011-2026.	3.7	13
118	Green adsorptionâ€™desorption of mixed triclosan, triclocarban, 2-phenylphenol, bisphenol A and 4-tert-octylphenol using MXene encapsulated polypropylene membrane protected micro-solid-phase extraction device in amplifying the HPLC analysis. <i>Microchemical Journal</i> , 2021, 170, 106695.	4.5	13
119	Fungal Fermented Palm Kernel Expeller as Feed for Black Soldier Fly Larvae in Producing Protein and Biodiesel. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 332.	3.5	13
120	Influence of environmental stress on microalgae growth and lipid profile: a systematic review. <i>Phytochemistry Reviews</i> , 2023, 22, 879-901.	6.5	13
121	Microalgae cultivation in offshore floating photobioreactor: State-of-the-art, opportunities and challenges. <i>Aquacultural Engineering</i> , 2022, 98, 102269.	3.1	13
122	Response of low-strength phenol-acclimated activated sludge to shock loading of high phenol concentrations. <i>Water S A</i> , 2013, 39, 695.	0.4	12
123	A Kinetic Approach of DPPH Free Radical Assay of Ferulate-Based Protic Ionic Liquids (PILs). <i>Molecules</i> , 2018, 23, 3201.	3.8	12
124	In-Situ Yeast Fermentation Medium in Fortifying Protein and Lipid Accumulations in the Harvested Larval Biomass of Black Soldier Fly. <i>Processes</i> , 2020, 8, 337.	2.8	12
125	Process Intensification in Bio-Ethanol Productionâ€™Recent Developments in Membrane Separation. <i>Processes</i> , 2021, 9, 1028.	2.8	12
126	Domination of methylene blue over rhodamine B during simultaneous photocatalytic degradation by TiO ₂ nanoparticles in an aqueous binary solution under UV irradiation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022, 135, 511-527.	1.7	12

#	ARTICLE	IF	CITATIONS
127	Anaerobic Co-Digestion of Food Waste with Sewage Sludge: Simulation and Optimization for Maximum Biogas Production. <i>Water (Switzerland)</i> , 2022, 14, 1075.	2.7	12
128	Simulation and Optimization of Anaerobic Co-Digestion of Food Waste with Palm Oil Mill Effluent for Biogas Production. <i>Sustainability</i> , 2021, 13, 13665.	3.2	12
129	Inhibitory effect of 2,4-dichlorophenol on nitrogen removal in a sequencing batch reactor. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 886-890.	2.7	11
130	Performance of phenol-acclimated activated sludge in the presence of various phenolic compounds. <i>Applied Water Science</i> , 2013, 3, 515-525.	5.6	11
131	A Sugarcane-Bagasse-Based Adsorbent Employed for Mitigating Eutrophication Threats and Producing Biodiesel Simultaneously. <i>Processes</i> , 2019, 7, 572.	2.8	11
132	Green bioprocessing of protein from <i>Chlorella vulgaris</i> microalgae towards circular bioeconomy. <i>Bioresource Technology</i> , 2021, 333, 125197.	9.6	11
133	Alternative solid carbon source from dried attached-growth biomass for nitrogen removal enhancement in intermittently aerated moving bed sequencing batch reactor. <i>Environmental Science and Pollution Research</i> , 2014, 21, 485-494.	5.3	10
134	Central Composite Design (CCD) applied for statistical optimization of glucose and sucrose binary carbon mixture in enhancing the denitrification process. <i>Applied Water Science</i> , 2017, 7, 3719-3727.	5.6	10
135	Volatile Constituents of the Leaf Essential Oil of <i>Crinum asiaticum</i> and their Antimicrobial and Cytotoxic Activities. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2019, 22, 947-954.	1.9	10
136	Black Soldier Fly Larval Valorization Benefitting from Ex-Situ Fungal Fermentation in Reducing Coconut Endosperm Waste. <i>Processes</i> , 2021, 9, 275.	2.8	10
137	Enhancing the Permeate Flux of Direct Contact Membrane Distillation Modules with Inserting 3D Printing Turbulence Promoters. <i>Membranes</i> , 2021, 11, 266.	3.0	10
138	Mechanism of CaO catalyst deactivation with unconventional monitoring method for glycerol carbonate production via transesterification of glycerol with dimethyl carbonate. <i>International Journal of Energy Research</i> , 2022, 46, 1646-1658.	4.5	10
139	Environment impact and bioenergy analysis on the microwave pyrolysis of WAS from food industry: Comparison of CO_2 and N_2 atmosphere. <i>Journal of Environmental Management</i> , 2022, 319, 115665.	7.8	10
140	Reassessment of adsorption–reduction mechanism of hexavalent chromium in attaining practicable mechanistic kinetic model. <i>Chemical Engineering Research and Design</i> , 2016, 102, 98-105.	5.6	9
141	Adsorptive removal of hexavalent chromium using sawdust: Enhancement of biosorption and bioreduction. <i>Separation Science and Technology</i> , 2017, 52, 1707-1716.	2.5	9
142	Chemical Composition of Essential Oil of <i>Garcinia gummi-gutta</i> and Its Antimicrobial and Cytotoxic Activities. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2020, 23, 832-842.	1.9	9
143	Biocompatible chitin-encapsulated CdS quantum dots: Fabrication and antibacterial screening. <i>Carbohydrate Polymers</i> , 2021, 260, 117806.	10.2	9
144	ADSORPTION OF MALACHITE GREEN DYE USING SPENT COFFEE GROUND BIOCHAR: OPTIMISATION USING RESPONSE SURFACE METHODOLOGY. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2020, 83, 27-36.	0.4	9

#	ARTICLE	IF	CITATIONS
145	Antimicrobial activity of silver sulfide quantum dots functionalized with highly conjugated Schiff bases in a one-step synthesis. <i>RSC Advances</i> , 2022, 12, 3136-3146.	3.6	9
146	Artificial Neural Network (ANN) Modelling for Biogas Production in Pre-Commercialized Integrated Anaerobic-Aerobic Bioreactors (IAAB). <i>Water (Switzerland)</i> , 2022, 14, 1410.	2.7	9
147	Bioremediation of wastewaters containing various phenolic compounds by phenol-acclimated activated sludge. <i>Desalination and Water Treatment</i> , 2013, 51, 7018-7024.	1.0	8
148	Liminal presence of exo-microbes inoculating coconut endosperm waste to enhance black soldier fly larval protein and lipid. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24574-24581.	5.3	8
149	Robust Design of PC/ABS Filled with Nano Carbon Black for Electromagnetic Shielding Effectiveness and Surface Resistivity. <i>Processes</i> , 2020, 8, 616.	2.8	8
150	Catalytic Hydrotreating of Crude Pongamia pinnata Oil to Bio-Hydrogenated Diesel over Sulfided NiMo Catalyst. <i>Energies</i> , 2022, 15, 1547.	3.1	8
151	Tailoring the substrate of thin film reverse osmosis membrane through a novel FeOOH nanorods templating strategy: An insight into the effects on interfacial polymerization of polyamide. <i>Journal of Membrane Science</i> , 2022, 657, 120706.	8.2	8
152	Bioelectrochemical system for landfill leachate treatment – challenges, opportunities, and recommendations. <i>Geosystem Engineering</i> , 2016, 19, 337-345.	1.4	7
153	Preparation of Palm Oil Mill Effluent Sludge Biochar for the Treatment of Landfill Leachate. <i>MATEC Web of Conferences</i> , 2017, 103, 06008.	0.2	7
154	pH optimization to promote attached growth of microalgae biomass onto polyurethane foam material. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
155	Process and Energy Intensification of Glycerol Carbonate Production from Glycerol and Dimethyl Carbonate in the Presence of Eggshell-Derived CaO Heterogeneous Catalyst. <i>Energies</i> , 2021, 14, 4249.	3.1	7
156	The potential of attached growth of microalgae on solid surface for biomass and lipid production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 965, 012001.	0.6	7
157	Enhancement of o-cresol removal using PAC and acclimated biomass immobilized in polyvinyl alcohol hydrogel beads. <i>Desalination and Water Treatment</i> , 2014, 52, 7951-7956.	1.0	6
158	Insect-based lipid for biodiesel production. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
159	Removal of malachite green by sugarcane bagasse biochar using response surface methodology. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	6
160	Simultaneous Enhancement of Photocatalytic Bactericidal Activity and Strength Properties of Acrylonitrile-Butadiene-Styrene Plastic Via a Facile Preparation with Silane/TiO ₂ . <i>Polymers</i> , 2020, 12, 917.	4.5	6
161	Substitution Garden and Polyethylene Terephthalate (PET) Plastic Waste as Refused Derived Fuel (RDF). <i>International Journal of Renewable Energy Development</i> , 2022, 11, 523-532.	2.4	6
162	Development of β -cyclodextrin crosslinked citric acid encapsulated in polypropylene membrane protected- β -solid-phase extraction device for enhancing the separation and preconcentration of endocrine disruptor compounds. <i>Chemosphere</i> , 2022, 303, 135075.	8.2	6

#	ARTICLE	IF	CITATIONS
163	Alteration of moving bed sequencing batch reactor operational strategies for the enhancement of nitrogen removal from stabilized landfill leachate. <i>Desalination and Water Treatment</i> , 2016, 57, 15979-15988.	1.0	5
164	Potential of protein and lipid productions from black soldier fly larvae fed with mixture of waste coconut endosperm and soybean curd residue. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5
165	Effect of MgO Loading on the Production of Biodiesel from Jatropha Oil in the Presence of MgO/MCM-22 Catalyst. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2018, 97, 191-199.	0.2	5
166	Self-setting \hat{I}^2 -tricalcium phosphate granular cement at physiological body condition: effect of citric acid concentration as an inhibitor. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 687.	1.9	5
167	Photocatalytic Reduction of CO ₂ to Methanol Using a Copper-Zirconia Imidazolate Framework. <i>Catalysts</i> , 2021, 11, 346.	3.5	5
168	Hydrolysis kinetics for solubilizing waste activated sludge at low temperature thermal treatment derived from multivariate non-linear model. <i>Chemosphere</i> , 2022, 292, 133478.	8.2	5
169	Pelletizing of Various Municipal Solid Waste: Effect of Hardness and Density into Caloric Value. <i>Ecological Engineering and Environmental Technology</i> , 2022, 23, 122-128.	0.7	5
170	Lignocellulosic Waste Pretreatment Solely via Biocatalysis as a Partial Simultaneous Lignino-Holocellulolysis Process. <i>Catalysts</i> , 2021, 11, 668.	3.5	4
171	Oxidative Extractive Desulfurization System for Fuel Oil Using Acidic Eutectic-Based Ionic Liquid. <i>Processes</i> , 2021, 9, 1050.	2.8	4
172	Comprehensive Review on Potential Contamination in Fuel Ethanol Production with Proposed Specific Guideline Criteria. <i>Energies</i> , 2022, 15, 2986.	3.1	4
173	Spent coffee grounds-based activated carbon preparation for sequestering of malachite green. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3
174	Augmenting CO ₂ Absorption Flux through a Gas-Liquid Membrane Module by Inserting Carbon-Fiber Spacers. <i>Membranes</i> , 2020, 10, 302.	3.0	3
175	Ancillary palm oil fuel ash (POFA) in sequencing batch reactor for enhancing recalcitrant pollutants removal from domestic wastewater. <i>Chemosphere</i> , 2021, 265, 129050.	8.2	3
176	Bioresources and biofuels—From classical to perspectives and trends. , 2022, , 165-220.		3
177	Synthesis of Ce/MgO Catalysts for Direct Oxidation of Hibiscus cannabinus Stalks to Vanillin. <i>Catalysts</i> , 2021, 11, 1449.	3.5	3
178	Feasibility of Bio-Coal Production from Hydrothermal Carbonization (HTC) Technology Using Food Waste in Malaysia. <i>Sustainability</i> , 2022, 14, 4534.	3.2	3
179	Characterization Sludge from Drying Area and Sludge Drying Bed in Sludge Treatment Plant Surabaya City for Waste to Energy Approach. <i>Journal of Ecological Engineering</i> , 2022, 23, 268-275.	1.1	3
180	Conjugated Mass Transfer of CO ₂ Absorption through Concentric Circular Gas-Liquid Membrane Contactors. <i>Processes</i> , 2021, 9, 1580.	2.8	2

#	ARTICLE	IF	CITATIONS
181	Theoretical and Experimental Studies of CO ₂ Absorption in Double-Unit Flat-Plate Membrane Contactors. <i>Membranes</i> , 2022, 12, 370.	3.0	2
182	Impact of limited feed medium and different lipid extraction solvents in dealing with black soldier fly larvae. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
183	Physical and Thermal Studies of Carbon-Enriched Silicon Oxycarbide Synthesized from Floating Plants. <i>Processes</i> , 2019, 7, 794.	2.8	1
184	Decolourization of chicken compost derived liquid fertilizer via synergic ultraviolet (UV) irradiation and ozonation for enhanced microalgae cultivation. <i>E3S Web of Conferences</i> , 2021, 287, 04013.	0.5	1
185	Determination of Three Endocrine Disruptors in Water Samples by Ultrasound-Assisted Salt-Induced Liquid-Liquid Microextraction (UA-SI-LLME) and High-Performance Liquid Chromatography “ Diode Array Detection (HPLC-DAD). <i>Analytical Letters</i> , 2022, 55, 132-145.	1.8	1
186	Systematic Performance Comparison of Fe ³⁺ /FeO/Peroxymonosulfate and Fe ³⁺ /FeO/Peroxydisulfate Systems for Organics Removal. <i>Materials</i> , 2021, 14, 5284.	2.9	1
187	Converting solid biomass waste into nanomaterial for the treatment of hazardous waste. <i>Chemosphere</i> , 2021, 285, 131461.	8.2	1
188	Raman Spectroscopy of TiO ₂ Nanoparticles Synthesized by Hydrolysis of TiCl ₄ : Effect of Sulfate Ions Concentration. <i>Springer Proceedings in Complexity</i> , 2021, , 85-95.	0.3	1
189	Distillate Flux Enhancement of Direct Contact Membrane Distillation Modules with Inserting Cross-Diagonal Carbon-Fiber Spacers. <i>Membranes</i> , 2021, 11, 973.	3.0	1
190	<i>Nepenthes mirabilis</i> Fractionated Pitcher Fluid Use for Mixed Agro-Waste Pretreatment: Advocacy for Non-Chemical Use in Biorefineries. <i>Catalysts</i> , 2022, 12, 726.	3.5	1
191	Cellulase pretreated palm decanter cake for feeding of black soldier fly larvae in triggering bioaccumulation of protein and lipid into biodiesel productions. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102485.	2.7	1
192	Modifications of sugarcane bagasse-derived adsorbents to enhance the adsorption of microalgae biomass in easing harvesting process. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
193	Special Issue on “Sustainable Modellings, Processes and Applications for Societal Development”. <i>Processes</i> , 2022, 10, 1153.	2.8	0