

# Arivalagan Pugazhendhi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6955028/publications.pdf>

Version: 2024-02-01

416  
papers

22,408  
citations

5574

82  
h-index

18647

119  
g-index

425  
all docs

425  
docs citations

425  
times ranked

17012  
citing authors

#	ARTICLE	IF	CITATIONS
1	Holistic utilization of <i>Chlorella pyrenoidosa</i> microalgae for extraction of renewable fuels and value-added biochar through in situ transesterification and pyrolysis reaction process. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5261-5274.	4.6	5
2	Characterization and photocatalytic activity of ZnO nanoflowers synthesized using <i>Bridelia retusa</i> leaf extract. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 493-502.	3.1	22
3	In silico potential of nutraceutical plant of <i>Pithecellobium dulce</i> against GRP78 target protein for breast cancer. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 1737-1749.	3.1	6
4	Extraction, purification and characterization of phenazine from <i>Pseudomonas aeruginosa</i> isolate of wastewater sources: a panacea towards clinical pathogens. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 2365-2378.	3.1	7
5	SARS-CoV-2 and its new variants: a comprehensive review on nanotechnological application insights into potential approaches. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 65-93.	3.1	8
6	Antibacterial activity and photocatalytic dye degradation of copper oxide nanoparticles (CuONPs) using <i>Justicia gendarussa</i> . <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 2295-2302.	3.1	26
7	An endophytic fungus, <i>Penicillium simplicissimum</i> conjugated with C60 fullerene for its potential antimitotic, anti-inflammatory, anticancer and photodegradation activities. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 817-831.	2.2	7
8	<i>Nigella sativa</i> flavonoids surface coated gold NPs (Au-NPs) enhancing antioxidant and anti-diabetic activity. <i>Process Biochemistry</i> , 2022, 114, 193-202.	3.7	17
9	Photocatalytic degradation of caffeine and <i>E. coli</i> inactivation using silver oxide nanoparticles obtained by a facile green co-reduction method. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 1087-1098.	4.1	11
10	Processing of electroplating industry wastewater through dual chambered microbial fuel cells (MFC) for simultaneous treatment of wastewater and green fuel production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37569-37576.	7.1	39
11	Role of nanomaterials in deactivating multiple drug resistance efflux pumps – A review. <i>Environmental Research</i> , 2022, 204, 111968.	7.5	26
12	PM emissions - assessment of combustion energy transfer with <i>Schizochytrium sp.</i> algal biodiesel and blends in IC engine. <i>Science of the Total Environment</i> , 2022, 802, 149750.	8.0	15
13	Spectral and structure characterization of <i>Ferula assafoetida</i> fabricated silver nanoparticles and evaluation of its cytotoxic, and photocatalytic competence. <i>Environmental Research</i> , 2022, 204, 111987.	7.5	53
14	Application of a polymer-magnetic-algae based nano-composite for the removal of methylene blue – Characterization, parametric and kinetic studies. <i>Environmental Pollution</i> , 2022, 292, 118376.	7.5	27
15	Nanomaterials as adsorbents for As(III) and As(V) removal from water: A review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127572.	12.4	32
16	Green route for recycling of low-cost waste resources for the biosynthesis of nanoparticles (NPs) and nanomaterials (NMs)-A review. <i>Environmental Research</i> , 2022, 207, 112202.	7.5	32
17	Engineering interventions in industrial filamentous fungal cell factories for biomass valorization. <i>Bioresource Technology</i> , 2022, 344, 126209.	9.6	24
18	Integrated biorefineries, circular bio-economy, and valorization of organic waste streams with respect to bio-products. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 565-565.	4.6	28

#	ARTICLE	IF	CITATIONS
19	Perovskite-based solar cells fabricated from TiO <sub>2</sub> nanoparticles hybridized with biomaterials from mollusc and diatoms. <i>Chemosphere</i> , 2022, 291, 132692.	8.2	7
20	Lignocellulose in future biorefineries: Strategies for cost-effective production of biomaterials and bioenergy. <i>Bioresource Technology</i> , 2022, 344, 126241.	9.6	37
21	Microbial valorization of lignin: Prospects and challenges. <i>Bioresource Technology</i> , 2022, 344, 126240.	9.6	49
22	Effects of oxygenated fuel pertaining to fuel analysis on diesel engine combustion and emission characteristics. <i>Energy</i> , 2022, 239, 122373.	8.8	26
23	Nanocellulose as green material for remediation of hazardous heavy metal contaminants. <i>Journal of Hazardous Materials</i> , 2022, 424, 127516.	12.4	75
24	Production and utilization of pyrolysis oil from solidplastic wastes: A review on pyrolysis process and influence of reactors design. <i>Journal of Environmental Management</i> , 2022, 302, 114046.	7.8	40
25	A critical review of advanced nanotechnology and hybrid membrane based water recycling, reuse, and wastewater treatment processes. <i>Chemosphere</i> , 2022, 289, 132867.	8.2	90
26	A Novel Insight Into the Fabrication of Polyhydroxyalkanoates from Actinobacteria <i>Streptomyces toxytricini</i> D2: Screening, Optimization, and Biopolymer Characterization. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2128-2141.	5.0	3
27	Bio-based algal ( <i>Chlorella vulgaris</i> ) refinery on de-oiled algae biomass cake: A study on biopolymer and biodiesel production. <i>Science of the Total Environment</i> , 2022, 816, 151579.	8.0	18
28	Combined effect of CO <sub>2</sub> concentration and low-cost urea repletion/starvation in <i>Chlorella vulgaris</i> for ameliorating growth metrics, total and non-polar lipid accumulation and fatty acid composition. <i>Science of the Total Environment</i> , 2022, 808, 151969.	8.0	15
29	Ionic liquids in wastewater treatment: A review on pollutant removal and degradation, recovery of ionic liquids, economics and future perspectives. <i>Journal of Molecular Liquids</i> , 2022, 349, 118150.	4.9	42
30	Evaluation of antioxidant, anti-inflammatory, and anti-hyperglycemic effects of <i>Wattakaka volubilis</i> Linn. f. <i>Process Biochemistry</i> , 2022, 112, 183-191.	3.7	5
31	Green Synthesis of Zinc Oxide Nanoparticles (ZnO NPs) for Effective Degradation of Dye, Polyethylene and Antibacterial Performance in Waste Water Treatment. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 614-630.	3.7	18
32	Comparison of cracking activity of the core-shell composite MCM-41/HY & MCM-48/HY catalysts in the synthesis of organic liquid fuel from Mahua oil. <i>Environmental Research</i> , 2022, 205, 112474.	7.5	6
33	Curcumin nanospheres and nanorods: Synthesis, characterization and anticancer activity. <i>Process Biochemistry</i> , 2022, 112, 248-253.	3.7	10
34	Multifunctionalities of mycosynthesized zinc oxide nanoparticles (ZnONPs) from <i>Cladosporium tenuissimum</i> FCBG: Antimicrobial additives for paints coating, functionalized fabrics and biomedical properties. <i>Progress in Organic Coatings</i> , 2022, 163, 106650.	3.9	12
35	An assessment of agricultural waste cellulosic biofuel for improved combustion and emission characteristics. <i>Science of the Total Environment</i> , 2022, 813, 152418.	8.0	16
36	Dark fermentative biohydrogen production from vinicultural biomass without exogenous inoculum in a semi-batch reactor: A kinetic study. <i>Journal of Environmental Management</i> , 2022, 305, 114393.	7.8	3

#	ARTICLE	IF	CITATIONS
37	Extraction methodology of lignin from biomass waste influences the quality of bio-oil obtained by solvothermal depolymerization process. <i>Chemosphere</i> , 2022, 293, 133473.	8.2	6
38	Comparative study of different catalysts mediated FAME conversion from macroalga <i>Padina tetrastromatica</i> biomass and hydrothermal liquefaction facilitated bio-oil production. <i>Chemosphere</i> , 2022, 292, 133485.	8.2	17
39	Microwave assisted biodiesel production from chicken feather meal oil using Bio-Nano Calcium oxide derived from chicken egg shell. <i>Environmental Research</i> , 2022, 205, 112509.	7.5	14
40	In vitro and in vivo efficacy of green synthesized AgNPs against Gram negative and Gram positive bacterial pathogens. <i>Process Biochemistry</i> , 2022, 112, 241-247.	3.7	25
41	Effect of hydrogen on compression-ignition (CI) engine fueled with vegetable oil/biodiesel from various feedstocks: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37648-37667.	7.1	70
42	The pharmaceutical potential of crude ethanol leaf extract of <i>Pedaliium murex</i> (L.). <i>Process Biochemistry</i> , 2022, 112, 234-240.	3.7	12
43	Synthesis of mesoporous SiO <sub>2</sub> nanoparticles and toxicity assessment in early life stages of zebrafish. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111573.	4.4	6
44	Current status of microbes involved in the degradation of pharmaceutical and personal care products (PPCPs) pollutants in the aquatic ecosystem. <i>Environmental Pollution</i> , 2022, 300, 118922.	7.5	62
45	Deciphering the pharmacological potentials of <i>Aganosma cymosa</i> (Roxb.) G. Don using in vitro and computational methods. <i>Process Biochemistry</i> , 2022, 114, 119-133.	3.7	2
46	A study on the feasibility of bergamot peel oil-gasoline blends for spark-ignition engines. <i>Journal of Cleaner Production</i> , 2022, 339, 130515.	9.3	2
47	Performance of simple green synthesized Ag incorporated TiO <sub>2</sub> nanoparticles based photoanodes by doctor-blade coating as working electrodes for dye sensitized solar cells. <i>Progress in Organic Coatings</i> , 2022, 164, 106697.	3.9	7
48	Enhancement of lipid accumulation in microalga <i>Desmodesmus</i> sp. VV2: Response Surface Methodology and Artificial Neural Network modeling for biodiesel production. <i>Chemosphere</i> , 2022, 293, 133477.	8.2	15
49	Fungi fabrication, characterization, and anticancer activity of silver nanoparticles using metals resistant <i>Aspergillus niger</i> . <i>Environmental Research</i> , 2022, 208, 112721.	7.5	13
50	Silver nanoparticles (AgNPs) fabricating potential of aqueous shoot extract of <i>Aristolochia bracteolata</i> and assessed their antioxidant efficiency. <i>Environmental Research</i> , 2022, 208, 112683.	7.5	5
51	Rubikâ€™s cube shaped organic template free hydrothermal synthesis and characterization of zeolite NaA for CO <sub>2</sub> adsorption. <i>Fuel</i> , 2022, 317, 123492.	6.4	6
52	Developments in smart organic coatings for anticorrosion applications: a review. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4683-4699.	4.6	20
53	In vitro efficacy of green synthesized ZnO nanoparticles against biofilm and virulence of <i>Serratia marcescens</i> . <i>Progress in Organic Coatings</i> , 2022, 166, 106781.	3.9	4
54	In vitro anticancer activity of silver nanoparticles phyto-fabricated by <i>Hylocereus undatus</i> peel extracts on human liver carcinoma (HepG2) cell lines. <i>Process Biochemistry</i> , 2022, 116, 17-25.	3.7	19

#	ARTICLE	IF	CITATIONS
55	A systematic review on toxicity assessment of persistent emerging pollutants (EPs) and associated microplastics (MPs) in the environment using the Hydra animal model. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022, 256, 109320.	2.6	5
56	A review on graphene / graphene oxide supported electrodes for microbial fuel cell applications: Challenges and prospects. <i>Chemosphere</i> , 2022, 296, 133983.	8.2	23
57	Progress in microalgal mediated bioremediation systems for the removal of antibiotics and pharmaceuticals from wastewater. <i>Science of the Total Environment</i> , 2022, 825, 153895.	8.0	49
58	Impact of nano-ZnO consolidated poly (ether ether sulfone) nano filtration membrane for evacuation of hazardous metal particles. <i>Chemosphere</i> , 2022, 297, 134024.	8.2	4
59	A comprehensive review of thermogravimetric analysis in lignocellulosic and algal biomass gasification. <i>Chemical Engineering Journal</i> , 2022, 445, 136730.	12.7	38
60	Progress in bio-based biodegradable polymer as the effective replacement for the engineering applicators. <i>Journal of Cleaner Production</i> , 2022, 362, 132267.	9.3	10
61	Emerging nanotechnology based advanced techniques for wastewater treatment. <i>Chemosphere</i> , 2022, 303, 135050.	8.2	21
62	TiO <sub>2</sub> /AgO composites by one step photo reduction technique as electron transport layers (ETL) for dye-sensitized solar cells. <i>Chemosphere</i> , 2022, , 134953.	8.2	2
63	Bioremediation competence of <i>Aspergillus flavus</i> DDN on pond water contaminated by mining activities. <i>Chemosphere</i> , 2022, 304, 135250.	8.2	6
64	Bioprocessing of biowaste derived from food supply chain side-streams for extraction of value added bioproducts through biorefinery approach. <i>Food and Chemical Toxicology</i> , 2022, 165, 113184.	3.6	6
65	Green fabrication of silver nanoparticles using <i>Chloroxylon swietenia</i> leaves and their application towards dye degradation and food borne pathogens. <i>Food and Chemical Toxicology</i> , 2022, 165, 113192.	3.6	10
66	Review on wastewater treatment by microalgae in different cultivation systems and its importance in biodiesel production. <i>Fuel</i> , 2022, 324, 124623.	6.4	24
67	Influence of <i>Brevibacillus borestelensis</i> strains on phytoremediation potential and biomolecules contents of <i>Jatropha curcas</i> on diluted chromium sludge soil. <i>Chemosphere</i> , 2022, 305, 135345.	8.2	2
68	Phyto-fabrication of silver nanoparticle using leaf extracts of <i>Aristolochia bracteolata</i> Lam and their mosquito larvicidal potential. <i>Process Biochemistry</i> , 2022, 121, 163-169.	3.7	9
69	Sustainable bioremediation approach to treat the sago industry effluents and evaluate the possibility of yielded biomass as a single cell protein (SCP) using cyanide tolerant <i>Streptomyces tritici</i> D5. <i>Chemosphere</i> , 2022, 304, 135248.	8.2	6
70	A viable bioremediation strategy for treating paper and pulp industry effluents and assessing the prospect of resulted bacterial biomass as single cell protein (SCP) using indigenous bacterial species. <i>Chemosphere</i> , 2022, 304, 135246.	8.2	15
71	Optimization of consolidated bioprocessing by response surface methodology in the conversion of corn stover to bioethanol by thermophilic <i>Geobacillus thermoglucosidasius</i> . <i>Chemosphere</i> , 2022, 304, 135242.	8.2	6
72	An assessment of biochar as a potential amendment to enhance plant nutrient uptake. <i>Environmental Research</i> , 2022, 214, 113909.	7.5	17

#	ARTICLE	IF	CITATIONS
73	Phycoremediation of textile and tannery industrial effluents using microalgae and their consortium for biodiesel production. <i>Journal of Cleaner Production</i> , 2022, 367, 133100.	9.3	12
74	Phytoremediation potential of <i>Gossypium hirsutum</i> on abandoned polluted chromium sludge soil with the amalgamation of <i>Streptomyces tritici</i> D5. <i>Chemosphere</i> , 2022, 306, 135526.	8.2	4
75	Plant resistance to disease: Using biochar to inhibit harmful microbes and absorb nutrients. <i>Environmental Research</i> , 2022, 214, 113883.	7.5	10
76	Influence of biomass and nanoadditives in dark fermentation for enriched bio-hydrogen production: A detailed mechanistic review on pathway and commercialization challenges. <i>Fuel</i> , 2022, 327, 125112.	6.4	33
77	Enhanced biohydrogen production from sugar industry effluent using nickel oxide and cobalt oxide as cathode nanocatalysts in microbial electrolysis cell. <i>International Journal of Energy Research</i> , 2021, 45, 17431-17439.	4.5	12
78	Facile and low-cost production of <i>Lantana camara</i> stalk-derived porous carbon nanostructures with excellent supercapacitance and adsorption performance. <i>International Journal of Energy Research</i> , 2021, 45, 17440-17449.	4.5	9
79	Bioelectricity generation and analysis of anode biofilm metabolites from septic tank wastewater in microbial fuel cells. <i>International Journal of Energy Research</i> , 2021, 45, 17244-17258.	4.5	10
80	Efficacy of chemical factors on production and extraction of biodiesel by microalgae. <i>International Journal of Energy Research</i> , 2021, 45, 17080-17093.	4.5	9
81	Synthesis of silver nanoparticle from $\gamma$ film and its application in production of biofuel from jatropha oil. <i>International Journal of Energy Research</i> , 2021, 45, 17378-17388.	4.5	18
82	Comparative effect of silver nanoparticles (AgNPs) derived from actinomycetes and henna on biohydrogen production by <i>Clostridium beijerinckii</i> (KTCC1737). <i>International Journal of Energy Research</i> , 2021, 45, 17269-17278.	4.5	12
83	Dark fermentative biohydrogen production from rice mill wastewater. <i>International Journal of Energy Research</i> , 2021, 45, 17233-17243.	4.5	16
84	Microwave assisted solvothermal synthesis of quasi cubic F doped $\text{TiO}_2$ nanostructures and its performance as dye sensitized solar cell photoanode. <i>International Journal of Energy Research</i> , 2021, 45, 17259-17268.	4.5	17
85	Experimental investigation and numerical analysis of energy efficiency building using phase changing material coupled with reflective coating. <i>International Journal of Energy Research</i> , 2021, 45, 17279-17290.	4.5	7
86	UV-aided graphene oxide reduction by $\text{TiO}_2$ towards $\text{TiO}_2$ /reduced graphene oxide composites for dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 17220-17232.	4.5	24
87	Insights about sustainable biodiesel production from microalgae biomass: A review. <i>International Journal of Energy Research</i> , 2021, 45, 17028-17056.	4.5	26
88	Microalgae: A prospective low cost green alternative for nanoparticle synthesis. <i>Current Opinion in Environmental Science and Health</i> , 2021, 20, 100163.	4.1	52
89	Phytoextraction competence of <i>J. curcas</i> L. on ore waste dump of the bauxite mine under the influence of multi potential <i>Bacillus cereus</i> . <i>Environmental Technology and Innovation</i> , 2021, 21, 101221.	6.1	16
90	A review on biochar production techniques and biochar based catalyst for biofuel production from algae. <i>Fuel</i> , 2021, 287, 119411.	6.4	132

#	ARTICLE	IF	CITATIONS
91	Phytoremediation competence of short-term crops on magnesite mine tailing. <i>Chemosphere</i> , 2021, 270, 128641.	8.2	14
92	Effect of reaction temperature on the conversion of algal biomass to bio-oil and biochar through pyrolysis and hydrothermal liquefaction. <i>Fuel</i> , 2021, 285, 119106.	6.4	111
93	Biohydrogen production using horizontal and vertical continuous stirred tank reactor- a numerical optimization. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11305-11312.	7.1	57
94	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021, 751, 141599.	8.0	177
95	Dark fermentative biohydrogen production by <i>Acinetobacter junii</i> -AH4 utilizing various industry wastewaters. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11297-11304.	7.1	21
96	High potential of <i>Rhizopus</i> treated rice bran waste for the nutrient-free anaerobic fermentative biohydrogen production. <i>Bioresource Technology</i> , 2021, 319, 124193.	9.6	23
97	Impact of abiotic factors on biodiesel production by microalgae. <i>Fuel</i> , 2021, 284, 118962.	6.4	45
98	Mechanism and challenges behind algae as a wastewater treatment choice for bioenergy production and beyond. <i>Fuel</i> , 2021, 285, 119093.	6.4	69
99	Technical insights into the production of green fuel from CO <sub>2</sub> sequestered algal biomass: A conceptual review on green energy. <i>Science of the Total Environment</i> , 2021, 755, 142636.	8.0	60
100	Effect of reaction conditions on the lifetime of SAPO-34 catalysts in methanol to olefins process – A review. <i>Fuel</i> , 2021, 283, 118851.	6.4	59
101	Activation strategies for biochar to use as an efficient catalyst in various applications. <i>Fuel</i> , 2021, 285, 119205.	6.4	97
102	Ultrasound-assisted synthesis of mixed calcium magnesium oxide (CaMgO <sub>2</sub> ) nanoflakes for photocatalytic degradation of methylene blue. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 770-778.	9.4	48
103	Transesterification kinetics of waste cooking oil and its diesel engine performance. <i>Fuel</i> , 2021, 285, 119108.	6.4	25
104	<i>Chaetomium globosum</i> extract mediated gold nanoparticle synthesis and potent anti-inflammatory activity. <i>Analytical Biochemistry</i> , 2021, 612, 113970.	2.4	22
105	Cultivation of diatom <i>Pinnularia saprophila</i> for lipid production: A comparison of methods for harvesting the lipid from the cells. <i>Bioresource Technology</i> , 2021, 319, 124129.	9.6	30
106	Bioenergy perspectives of cattails biomass cultivated from municipal wastewater via hydrothermal liquefaction and hydro-deoxygenation. <i>Fuel</i> , 2021, 284, 118963.	6.4	8
107	A realistic scenario on microalgae based biodiesel production: Third generation biofuel. <i>Fuel</i> , 2021, 284, 118965.	6.4	97
108	Hydrothermal liquefaction of <i>Prosopis juliflora</i> biomass for the production of ferulic acid and bio-oil. <i>Bioresource Technology</i> , 2021, 319, 124116.	9.6	30



#	ARTICLE	IF	CITATIONS
109	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. <i>Fuel</i> , 2021, 285, 119117.	6.4	121
110	Phytochemical composition, antioxidant and antimicrobial activities of <i>Plecosperrum spinosum</i> Trecul.. <i>Process Biochemistry</i> , 2021, 100, 107-116.	3.7	16
111	Enhancement of biobutanol production using mixotrophic culture of <i>Oscillatoria</i> sp. in cheese whey water. <i>Fuel</i> , 2021, 284, 119008.	6.4	19
112	Performance and emission evaluation of dual fuel CI engine using preheated biogas-air mixture. <i>Science of the Total Environment</i> , 2021, 754, 142389.	8.0	30
113	Simultaneous bioelectricity generation and water desalination using <i>Oscillatoria</i> sp. as biocatalyst in photosynthetic microbial desalination cell. <i>Science of the Total Environment</i> , 2021, 754, 142215.	8.0	34
114	Experimental investigation of nanofluid based photovoltaic thermal (PV/T) system for superior electrical efficiency and hydrogen production. <i>Fuel</i> , 2021, 286, 119422.	6.4	61
115	Recent developments and strategies in genome engineering and integrated fermentation approaches for biobutanol production from microalgae. <i>Fuel</i> , 2021, 285, 119052.	6.4	49
116	Impact of cultivation conditions on the biomass and lipid in microalgae with an emphasis on biodiesel. <i>Fuel</i> , 2021, 284, 119058.	6.4	98
117	Characterization of polyurethane coating on high performance concrete reinforced with chemically treated <i>Ananas erectifolius</i> fiber. <i>Progress in Organic Coatings</i> , 2021, 150, 105977.	3.9	21
118	Mesoporous ferromagnetic manganese ferrite nanoparticles for enhanced visible light mineralization of azoic dye into nontoxic by-products. <i>Science of the Total Environment</i> , 2021, 765, 142707.	8.0	30
119	A review on the pyrolysis of algal biomass for biochar and bio-oil “ Bottlenecks and scope. <i>Fuel</i> , 2021, 283, 119190.	6.4	178
120	Parametric optimization of biogas potential in anaerobic co-digestion of biomass wastes. <i>Fuel</i> , 2021, 288, 119574.	6.4	24
121	Synthesis, biological and environmental applications of hydroxyapatite and its composites with organic and inorganic coatings. <i>Progress in Organic Coatings</i> , 2021, 151, 106056.	3.9	43
122	In vitro analysis of green fabricated silver nanoparticles (AgNPs) against <i>Pseudomonas aeruginosa</i> PA14 biofilm formation, their application on urinary catheter. <i>Progress in Organic Coatings</i> , 2021, 151, 106058.	3.9	60
123	Optimization and production of polyhydroxybutyrate from sludge by <i>Bacillus cereus</i> categorized through FT-IR and NMR analyses. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104908.	6.7	27
124	Cobalt ferrite nanoparticles and peroxymonosulfate system for the removal of ampicillin from aqueous solution. <i>Journal of Water Process Engineering</i> , 2021, 40, 101823.	5.6	23
125	Current challenges and innovative developments in pretreatment of lignocellulosic residues for biofuel production: A review. <i>Fuel</i> , 2021, 287, 119670.	6.4	114
126	Biohythane production from organic waste: Recent advancements, technical bottlenecks and prospects. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11201-11216.	7.1	22



#	ARTICLE	IF	CITATIONS
127	Effect of C/N substrates for enhanced extracellular polymeric substances (EPS) production and Poly Cyclic Aromatic Hydrocarbons (PAHs) degradation. <i>Environmental Pollution</i> , 2021, 275, 116035.	7.5	62
128	Biological approaches practised using genetically engineered microbes for a sustainable environment: A review. <i>Journal of Hazardous Materials</i> , 2021, 405, 124631.	12.4	63
129	Performance, noise and emission characteristics of DI engine using canola and <i>Moringa oleifera</i> biodiesel blends using soluble multiwalled carbon nanotubes. <i>Fuel</i> , 2021, 289, 119829.	6.4	37
130	Pomegranate fruit fleshy pericarp mediated silver nanoparticles possessing antimicrobial, antibiofilm formation, antioxidant, biocompatibility and anticancer activity. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102289.	3.0	39
131	Influence of dynamic position, fluid intake, hydration, and energy expenditure on sustainable mobility transport. <i>Applied Acoustics</i> , 2021, 175, 107809.	3.3	11
132	Impact on degradation of antibiotics from poultry litter using Autothermal Thermophilic Aerobic Digestion (ATAD). <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 988-992.	3.8	6
133	Upgrading of bio-oil from thermochemical conversion of various biomass – Mechanism, challenges and opportunities. <i>Fuel</i> , 2021, 287, 119329.	6.4	66
134	Examining the uniformity of the superhydrophobic coating on steel substrates using Kelvin probe force microscope. <i>Progress in Organic Coatings</i> , 2021, 150, 105973.	3.9	4
135	Bioaccumulation of fluoride from aqueous system and genotoxicity study on <i>Allium cepa</i> using <i>Bacillus licheniformis</i> . <i>Journal of Hazardous Materials</i> , 2021, 407, 124367.	12.4	6
136	Sugarcane bagasse derived nanocellulose reinforced with frankincense ( <i>Boswellia serrata</i> ): Physicochemical properties, biodegradability and antimicrobial effect for controlling microbial growth for food packaging application. <i>Environmental Technology and Innovation</i> , 2021, 21, 101335.	6.1	15
137	Bioplastic production from renewable lignocellulosic feedstocks: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 167-187.	8.1	33
138	A study on biofuel produced by catalytic cracking of mustard and castor oil using porous Hf <sup>2</sup> and AlMCM-41 catalysts. <i>Science of the Total Environment</i> , 2021, 757, 143781.	8.0	9
139	Enhanced antimicrobial, antibiofilm and anticancer activities of biocompatible neem gum coated palladium nanoparticles. <i>Progress in Organic Coatings</i> , 2021, 151, 106098.	3.9	20
140	A state of the art review on the cultivation of algae for energy and other valuable products: Application, challenges, and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110649.	16.4	105
141	Pretreatment of second and third generation feedstock for enhanced biohythane production: Challenges, recent trends and perspectives. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11252-11268.	7.1	37
142	Structural characterization, functional and biological activities of an exopolysaccharide produced by probiotic <i>Bacillus licheniformis</i> AG-06 from Indian polyherbal fermented traditional medicine. <i>International Journal of Biological Macromolecules</i> , 2021, 174, 144-152.	7.5	29
143	Rapid determination of remdesivir (SARS-CoV-2 drug) in human plasma for therapeutic drug monitoring in COVID-19-Patients. <i>Process Biochemistry</i> , 2021, 102, 150-156.	3.7	35
144	A comprehensive review on the factors affecting thermochemical conversion efficiency of algal biomass to energy. <i>Science of the Total Environment</i> , 2021, 766, 144213.	8.0	31

#	ARTICLE	IF	CITATIONS
145	Recent advances in thermochemical methods for the conversion of algal biomass to energy. <i>Science of the Total Environment</i> , 2021, 766, 144608.	8.0	30
146	Structural characterization and adsorptive ability of green synthesized Fe <sub>3</sub> O <sub>4</sub> nanoparticles to remove Acid blue 113 dye. <i>Surfaces and Interfaces</i> , 2021, 23, 100947.	3.0	26
147	Green chemistry route of biosynthesized copper oxide nanoparticles using <i>Psidium guajava</i> leaf extract and their antibacterial activity and effective removal of industrial dyes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105033.	6.7	89
148	Lipid content, biomass density, fatty acid as selection markers for evaluating the suitability of four fast growing cyanobacterial strains for biodiesel production. <i>Bioresource Technology</i> , 2021, 325, 124654.	9.6	45
149	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , 2021, 765, 144429.	8.0	159
150	Cytotoxic effects of silver nanoparticles on <i>Ruellia tuberosa</i> : Photocatalytic degradation properties against crystal violet and coomassie brilliant blue. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105088.	6.7	47
151	Polyhydroxybutyrate production from ultrasound-aided alkaline pretreated finger millet straw using <i>Bacillus megaterium</i> strain CAM12. <i>Bioresource Technology</i> , 2021, 325, 124632.	9.6	27
152	Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. <i>Bioresource Technology</i> , 2021, 326, 124733.	9.6	134
153	In vitro therapeutic evaluation of nanoliposome loaded with Xyloglucans polysaccharides from <i>Tamarindus</i> flower extract. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 283-295.	7.5	5
154	Effects of light intensity and nutrients on the lipid content of marine microalga (diatom) <i>Amphiprora</i> sp. for promising biodiesel production. <i>Science of the Total Environment</i> , 2021, 768, 145471.	8.0	47
155	Production and extraction of red pigment by solid-state fermentation of broken rice using <i>Monascus sanguineus</i> NFCCI 2453. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 33, 101964.	3.1	14
156	Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield. <i>Fuel</i> , 2021, 291, 120136.	6.4	105
157	Co-hydrothermal gasification of microbial sludge and algae <i>Kappaphycus alvarezii</i> for bio-hydrogen production: Study on aqueous phase reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16555-16564.	7.1	38
158	Development of an eco-friendly biodegradable plastic from jack fruit peel cellulose with different plasticizers and <i>Boswellia serrata</i> as filler. <i>Science of the Total Environment</i> , 2021, 767, 144285.	8.0	30
159	Phytochemicals intended for anticancer effects at preclinical levels to clinical practice: Assessment of formulations at nanoscale for non-small cell lung cancer (NSCLC) therapy. <i>Process Biochemistry</i> , 2021, 104, 55-75.	3.7	15
160	Metabolic circuits and gene regulators in polyhydroxyalkanoate producing organisms: Intervention strategies for enhanced production. <i>Bioresource Technology</i> , 2021, 327, 124791.	9.6	14
161	Relative abundance of lipid types among <i>Chlorella</i> sp. and <i>Scenedesmus</i> sp. and ameliorating homogeneous acid catalytic conditions using central composite design (CCD) for maximizing fatty acid methyl ester yield. <i>Science of the Total Environment</i> , 2021, 771, 144700.	8.0	21
162	Wastewater as an economical and ecofriendly green medium for microalgal biofuel production. <i>Fuel</i> , 2021, 294, 120484.	6.4	33

#	ARTICLE	IF	CITATIONS
163	A critical review on production of biopolymers from algae biomass and their applications. <i>Bioresource Technology</i> , 2021, 329, 124868.	9.6	112
164	Photo-catalytic reforming of aqueous phase derived from hydrothermal liquefaction of <i>Nostoc ellipsosporum</i> for bio-hydrogen production. <i>International Journal of Energy Research</i> , 2021, 45, 19909-19920.	4.5	6
165	A detailed scrutinize on panorama of catalysts in biodiesel synthesis. <i>Science of the Total Environment</i> , 2021, 777, 145683.	8.0	31
166	Recovery of value-added products from wastewater using Aqueous Two-Phase Systems – A review. <i>Science of the Total Environment</i> , 2021, 778, 146293.	8.0	32
167	Effect of algae ( <i>Scenedesmus obliquus</i> ) biomass pre-treatment on bio-oil production in hydrothermal liquefaction (HTL): Biochar and aqueous phase utilization studies. <i>Science of the Total Environment</i> , 2021, 778, 146262.	8.0	43
168	Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar. <i>Chemosphere</i> , 2021, 275, 129856.	8.2	98
169	Valorization of agricultural residues: Different biorefinery routes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105435.	6.7	50
170	An investigation of transition metal doped TiO <sub>2</sub> photocatalysts for the enhanced photocatalytic decoloration of methylene blue dye under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105254.	6.7	66
171	Synergistic supplementation of organic carbon substrates for upgrading neutral lipids and fatty acids contents in microalga. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105482.	6.7	26
172	Accelerating the production of bio-oil from hydrothermal liquefaction of microalgae via recycled biochar-supported catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105321.	6.7	47
173	Advanced biomaterials for sustainable applications in the food industry: Updates and challenges. <i>Environmental Pollution</i> , 2021, 283, 117071.	7.5	40
174	Phycoremediation potential of <i>Chlorella</i> sp. on the polluted Thirumanimutharu river water. <i>Chemosphere</i> , 2021, 277, 130246.	8.2	24
175	Synthesis of titanium/niobium oxide nanocomposite on top open bamboo like titanium dioxide nanotube for the catalytic degradation of organic pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105400.	6.7	7
176	Water hyacinth biochar and <i>Aspergillus niger</i> biomass amalgamation potential in removal of pollutants from polluted lake water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105574.	6.7	23
177	Electronic waste generation, recycling and resource recovery: Technological perspectives and trends. <i>Journal of Hazardous Materials</i> , 2021, 416, 125664.	12.4	120
178	Enhanced photocatalytic degradation of water pollutants using bio-green synthesis of zinc oxide nanoparticles (ZnO NPs). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105772.	6.7	78
179	A critical review on different harvesting techniques for algal based biodiesel production. <i>Science of the Total Environment</i> , 2021, 780, 146467.	8.0	48
180	Versatile image processing technique for fuel science: A review. <i>Science of the Total Environment</i> , 2021, 780, 146469.	8.0	10

#	ARTICLE	IF	CITATIONS
181	Biodegradation competence of <i>Streptomyces toxytricini</i> D2 isolated from leaves surface of the hybrid cotton crop against I <sup>2</sup> cypermethrin. <i>Chemosphere</i> , 2021, 276, 130152.	8.2	24
182	Green synthesis of silver nanoparticles from aqueous extract of <i>Ctenolepis garcini</i> L. and assess their possible biological applications. <i>Process Biochemistry</i> , 2021, 107, 91-99.	3.7	55
183	Sustainable bioelectricity production from <i>Amaranthus viridis</i> and <i>Triticum aestivum</i> mediated plant microbial fuel cells with efficient electrogenic bacteria selections. <i>Process Biochemistry</i> , 2021, 107, 27-37.	3.7	27
184	Upgradation of <i>Nostoc punctiforme</i> under subcritical conditions into liquid hydrocarbons (bio-oil) via hydro-deoxygenation: Optimization and engine tests. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105230.	6.7	14
185	Current strategies and prospects in algae for remediation and biofuels: An overview. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 35, 102045.	3.1	34
186	Cleaner production and resource recovery opportunities in leather tanneries: Technological applications and perspectives. <i>Bioresource Technology Reports</i> , 2021, 16, 100815.	2.7	10
187	Microalgal feedstock for the production of omega-3 fatty acid ethyl esters and É-polylysine. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00656.	4.4	0
188	Unveiling the induced lipid production in <i>Chlorella vulgaris</i> under pulsed magnetic field treatment. <i>Chemosphere</i> , 2021, 279, 130673.	8.2	14
189	Reclamation competence of <i>Crotalaria juncea</i> with the amalgamation and influence of indigenous bacteria on a waste dump of bauxite mine. <i>Chemosphere</i> , 2021, 279, 130632.	8.2	17
190	Green synthesis and characterization of titanium dioxide nanoparticles using leaf extract of <i>Pouteria campechiana</i> and larvicidal and pupicidal activity on <i>Aedes aegypti</i> . <i>Environmental Research</i> , 2021, 200, 111333.	7.5	46
191	Biodiesel production through transesterification of <i>Chlorella vulgaris</i> : Synthesis and characterization of CaO nanocatalyst. <i>Fuel</i> , 2021, 300, 121018.	6.4	56
192	Synthesis and characterization of TiO <sub>2</sub> NPs by aqueous leaf extract of <i>Coleus aromaticus</i> and assess their antibacterial, larvicidal, and anticancer potential. <i>Environmental Research</i> , 2021, 200, 111335.	7.5	44
193	Eggshells biowaste for hydroxyapatite green synthesis using extract piper betel leaf - Evaluation of antibacterial and antibiofilm activity. <i>Environmental Research</i> , 2021, 200, 111493.	7.5	12
194	Production and characterization of biodegradable polyhydroxybutyrate by <i>Micrococcus luteus</i> isolated from marine environment. <i>International Journal of Biological Macromolecules</i> , 2021, 186, 125-134.	7.5	10
195	Bio-refinery approaches based concomitant microalgal biofuel production and wastewater treatment. <i>Science of the Total Environment</i> , 2021, 785, 147267.	8.0	22
196	Insights into diatom microalgal farming for treatment of wastewater and pretreatment of algal cells by ultrasonication for value creation. <i>Environmental Research</i> , 2021, 201, 111550.	7.5	35
197	Fabrication and characterization of in vitro 2D skin model “ An attempt to establish scaffold for tissue engineering. <i>Process Biochemistry</i> , 2021, 109, 169-177.	3.7	0
198	Evaluation of antibacterial, antioxidant, and nephroprotective proficiency of methanol extract of <i>Aerva lanata</i> . <i>Process Biochemistry</i> , 2021, 109, 98-103.	3.7	12

#	ARTICLE	IF	CITATIONS
199	Potential of nanocellulose for wastewater treatment. <i>Chemosphere</i> , 2021, 281, 130738.	8.2	43
200	Probiotics and gut microbiome ~ Prospects and challenges in remediating heavy metal toxicity. <i>Journal of Hazardous Materials</i> , 2021, 420, 126676.	12.4	56
201	Copper oxide nanoparticles synthesized from an endophytic fungus <i>Aspergillus terreus</i> : Bioactivity and anti-cancer evaluations. <i>Environmental Research</i> , 2021, 201, 111502.	7.5	57
202	Separation of pollutants from aqueous solution using nanoclay and its nanocomposites: A review. <i>Chemosphere</i> , 2021, 280, 130961.	8.2	36
203	An in vitro investigation of the antidermatophytic, antioxidant, and nephroprotective activity of <i>Solanum surattense</i> . <i>Process Biochemistry</i> , 2021, 109, 178-185.	3.7	18
204	Cleaner technologies to combat heavy metal toxicity. <i>Journal of Environmental Management</i> , 2021, 296, 113231.	7.8	31
205	Combustion and emission characteristics of diesel engine fueled with nanocatalyst and pyrolysis oil produced from the solid plastic waste using screw reactor. <i>Journal of Cleaner Production</i> , 2021, 318, 128551.	9.3	43
206	Ultrasound pretreated rice bran for <i>Rhizopus</i> sp. phytase production as a feed. <i>Food Bioscience</i> , 2021, 43, 101281.	4.4	3
207	Hepato and nephroprotective activity of methanol extract of <i>Hygrophila spinosa</i> and its antibacterial potential against multidrug resistant <i>Pandoraea sputorum</i> . <i>Environmental Research</i> , 2021, 201, 111594.	7.5	14
208	Computational and experimental studies of Metallo organic framework on human epidermal cell line and anticancer potential. <i>Environmental Research</i> , 2021, 201, 111520.	7.5	1
209	Novel MnO <sub>2</sub> -CuO-BaO metal oxide nanocomposite for high performance supercapacitors. <i>Process Biochemistry</i> , 2021, 110, 176-180.	3.7	13
210	Particle size influence on the composition of sugars in corncob hemicellulose hydrolysate for xylose fermentation by <i>Meyerozyma caribbica</i> . <i>Bioresource Technology</i> , 2021, 340, 125677.	9.6	12
211	Evaluation of microalgal strains and microalgal consortium for higher lipid productivity and rich fatty acid profile towards sustainable biodiesel production. <i>Bioresource Technology</i> , 2021, 339, 125524.	9.6	33
212	Biomacromolecules of chitosan ~ Bacopa saponin based LipL32 gene delivery system for leptospirosis therapy. <i>Environmental Research</i> , 2021, 202, 111699.	7.5	4
213	Organic and inorganic nanomaterial coatings for the prevention of microbial growth and infections on biotic and abiotic surfaces. <i>Surface and Coatings Technology</i> , 2021, 425, 127739.	4.8	22
214	Promising eco-friendly biomaterials for future biomedicine: Cleaner production and applications of Nanocellulose. <i>Environmental Technology and Innovation</i> , 2021, 24, 101855.	6.1	10
215	Strategic evaluation of limiting factors affecting algal growth ~ An approach to waste mitigation and carbon dioxide sequestration. <i>Science of the Total Environment</i> , 2021, 796, 149049.	8.0	23
216	Technical, economic and environmental feasibility of resource recovery technologies from wastewater. <i>Science of the Total Environment</i> , 2021, 796, 149022.	8.0	45

#	ARTICLE	IF	CITATIONS
217	Photocatalytic degradation of congo red dye using nickel-titanium dioxide nanoflakes synthesized by Mukia madrasapatna leaf extract. <i>Environmental Research</i> , 2021, 202, 111647.	7.5	42
218	Sustainable development of feed formulation for farmed tilapia enriched with fermented pig manure to reduce production costs. <i>Science of the Total Environment</i> , 2021, 801, 149614.	8.0	8
219	Cannabinoids as anticancer and neuroprotective drugs: Structural insights and pharmacological interactions—A review. <i>Process Biochemistry</i> , 2021, 111, 9-31.	3.7	14
220	Mesoporous nanoparticles for the delivery of (9S,E)-8-ethyl-9-methylnonadec-6-en-3-one (EME): A study of anti-inflammatory and tumor suppressing potential in RAW 264.7, He La and HepG2 cell lines. <i>Process Biochemistry</i> , 2021, 111, 1-11.	3.7	5
221	Biofabrication and characterization of AgNPs synthesized by <i>Justicia adhatoda</i> and efficiency on multi-drug resistant microbes and anticancer activity. <i>Inorganic Chemistry Communication</i> , 2021, 134, 109071.	3.9	11
222	Algae as green energy reserve: Technological outlook on biofuel production. <i>Chemosphere</i> , 2020, 242, 125079.	8.2	182
223	An overview on bioethanol production from lignocellulosic feedstocks. <i>Chemosphere</i> , 2020, 242, 125080.	8.2	133
224	Biosynthesized silver nanoparticles using <i>Bacillus amyloliquefaciens</i> ; Application for cytotoxicity effect on A549 cell line and photocatalytic degradation of p-nitrophenol. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111642.	3.8	146
225	Industrial wastes: Fly ash, steel slag and phosphogypsum- potential candidates to mitigate greenhouse gas emissions from paddy fields. <i>Chemosphere</i> , 2020, 241, 124824.	8.2	44
226	Enhanced photocatalysis and anticancer activity of green hydrothermal synthesized Ag@TiO <sub>2</sub> nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111636.	3.8	97
227	Various solvent effects on phytochemical constituent profiles, analysis of antioxidant and antidiabetic activities of <i>Hopea parviflora</i> . <i>Process Biochemistry</i> , 2020, 89, 227-232.	3.7	17
228	Microalgal consortia for municipal wastewater treatment – Lipid augmentation and fatty acid profiling for biodiesel production. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111638.	3.8	84
229	Antiangiogenic, anti-inflammatory and their antioxidant activities of <i>Turnera subulata</i> Sm. (Turneraceae). <i>Process Biochemistry</i> , 2020, 89, 71-80.	3.7	10
230	One-pot fabrication of multifunctional catechin@ZIF-L nanocomposite: Assessment of antibiofilm, larvicidal and photocatalytic activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 203, 111774.	3.8	35
231	Biomimetic gold nanoparticles for its cytotoxicity and biocompatibility evidenced by fluorescence-based assays in cancer (MDA-MB-231) and non-cancerous (HEK-293) cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111715.	3.8	82
232	Applications of microalgal and cyanobacterial biomass on a way to safe, cleaner and a sustainable environment. <i>Journal of Cleaner Production</i> , 2020, 253, 119770.	9.3	108
233	Synthesis, characterization and photocatalytic dye degradation capability of <i>Calliandra haematocephala</i> -mediated zinc oxide nanoflowers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 203, 111760.	3.8	117
234	Biobutanol from lignocellulosic biomass: bioprocess strategies. , 2020, , 169-193.		13



#	ARTICLE	IF	CITATIONS
235	Metabolomics integrated with transcriptomics and proteomics: Evaluation of systems reaction to nitrogen deficiency stress in microalgae. <i>Process Biochemistry</i> , 2020, 91, 1-14.	3.7	40
236	Vinblastine production by the endophytic fungus <i>Curvularia verruculosa</i> from the leaves of <i>Catharanthus roseus</i> and its in vitro cytotoxicity against HeLa cell line. <i>Analytical Biochemistry</i> , 2020, 593, 113530.	2.4	47
237	Core/shell nanoparticles: Synthesis, investigation of antimicrobial potential and photocatalytic degradation of Rhodamine B. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111729.	3.8	33
238	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuel—A review. <i>Science of the Total Environment</i> , 2020, 749, 142218.	8.0	40
239	A systematic review on recent trends in transmission, diagnosis, prevention and imaging features of COVID-19. <i>Process Biochemistry</i> , 2020, 98, 233-240.	3.7	82
240	Green synthesis of cobalt-oxide nanoparticle using jumbo Muscadine ( <i>Vitis rotundifolia</i> ): Characterization and photo-catalytic activity of acid Blue-74. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 211, 112011.	3.8	132
241	Immobilization of Cu <sub>3</sub> (btc) <sub>2</sub> on graphene oxide-chitosan hybrid composite for the adsorption and photocatalytic degradation of methylene blue. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 204, 111809.	3.8	68
242	Analysis of Alkylphenol ethoxylates (APEOs) from tannery sediments using LC-MS and their environmental risks. <i>Process Biochemistry</i> , 2020, 97, 37-42.	3.7	8
243	Comprehensive study of engine characteristics of novel biodiesel from curry leaf ( <i>Murraya koenigii</i> ) oil in ceramic layered diesel engine. <i>Fuel</i> , 2020, 280, 118586.	6.4	36
244	Role of thermal barrier coating and porous medium combustor for a diesel engine: An experimental study. <i>Fuel</i> , 2020, 280, 118597.	6.4	7
245	Analysis of the limiting factors for large scale microalgal cultivation: A promising future for renewable and sustainable biofuel industry. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110250.	16.4	29
246	Biofabrication of gold nanoparticles mediated by the endophytic <i>Cladosporium</i> species: Photodegradation, in vitro anticancer activity and in vivo antitumor studies. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119729.	5.2	71
247	Zinc oxide nanoparticles (ZnONPs) -induced antioxidants and photocatalytic degradation activity from hybrid grape pulp extract (HGPE). <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 28, 101730.	3.1	46
248	A review on prospective production of biofuel from microalgae. <i>Biotechnology Reports (Amsterdam)</i> , 2020, 10, 100484.	4.4	134
249	Facile synthesis and characterization of hydroxyapatite from fish bones: Photocatalytic degradation of industrial dyes (crystal violet and Congo red). <i>Progress in Organic Coatings</i> , 2020, 148, 105890.	3.9	57
250	Performance of TiO <sub>2</sub> nanoparticles synthesized by microwave and solvothermal methods as photoanode in dye-sensitized solar cells (DSSC). <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27036-27046.	7.1	38
251	A review on the synthesis of hydroxyapatite, its composites and adsorptive removal of pollutants from wastewater. <i>Journal of Water Process Engineering</i> , 2020, 38, 101574.	5.6	100
252	Evaluating the feasibility of diethyl ether and isobutanol added <i>Jatropha Curcas</i> biodiesel as environmentally friendly fuel blends. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 18, 100340.	3.3	19



#	ARTICLE	IF	CITATIONS
253	The biotransformation potential of <i>Bacillus cereus</i> on $\hat{I}^2$ -cypermethrin to protect the earthworm ( <i>Perionyx excavatus</i> ) on insecticide-contaminated soil. <i>Archives of Agronomy and Soil Science</i> , 2020, , 1-12.	2.6	12
254	Effect of hydrogen and multiwall carbon nanotubes blends on combustion performance and emission of diesel engine using Taguchi approach. <i>Fuel</i> , 2020, 276, 118120.	6.4	73
255	A review on environmental significance carbon foot prints of starch based bio-plastic: A substitute of conventional plastics. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 27, 101540.	3.1	57
256	Bioelectricity generation using iron(II) molybdate nanocatalyst coated anode during treatment of sugar wastewater in microbial fuel cell. <i>Fuel</i> , 2020, 277, 118119.	6.4	33
257	Removal of Chromium from Synthetic Wastewater Using Modified Maghemite Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3181.	2.5	13
258	Effect of microalgae, tyre pyrolysis oil and Jatropha biodiesel enriched with diesel fuel on performance and emission characteristics of CI engine. <i>Fuel</i> , 2020, 278, 118252.	6.4	60
259	Experimental insight into co-combustion characteristics of oxygenated biofuels in modified DICl engine. <i>Fuel</i> , 2020, 278, 118303.	6.4	15
260	Biofilm and Quorum sensing mediated pathogenicity in <i>Pseudomonas aeruginosa</i> . <i>Process Biochemistry</i> , 2020, 96, 49-57.	3.7	94
261	Impact of 5-hydroxy methyl furfural on continuous hydrogen production from galactose and glucose feedstock with periodic recovery. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19045-19051.	7.1	3
262	Fabrication of naringenin functionalized-Ag/RGO nanocomposites for potential bactericidal effects. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7013-7019.	5.8	27
263	Alkalinity and salinity favor bioelectricity generation potential of <i>Clostridium</i> , <i>Tetrathlobacter</i> and <i>Desulfovibrio</i> consortium in Microbial Fuel Cells (MFC) treating sulfate-laden wastewater. <i>Bioresource Technology</i> , 2020, 306, 123110.	9.6	47
264	Effect of mixed microbial culture addition on enhanced river water quality: Pollutant removal and microbial community characteristics. <i>Environmental Technology and Innovation</i> , 2020, 18, 100707.	6.1	4
265	Application of molecular techniques in biohydrogen production as a clean fuel. <i>Science of the Total Environment</i> , 2020, 722, 137795.	8.0	32
266	Upgrading of microalgal consortia with CO <sub>2</sub> from fermentation of wheat straw for the phycoremediation of domestic wastewater. <i>Bioresource Technology</i> , 2020, 305, 123063.	9.6	40
267	Performance and emission analysis of a diesel engine using hydrogen enriched n-butanol, diethyl ester and <i>Spirulina</i> microalgae biodiesel. <i>Fuel</i> , 2020, 271, 117645.	6.4	75
268	Biodegradable and non-biodegradable fraction of municipal solid waste for multifaceted applications through a closed loop integrated refinery platform: Paving a path towards circular economy. <i>Science of the Total Environment</i> , 2020, 731, 138049.	8.0	78
269	Comprehensive review on the application of inorganic and organic nanoparticles for enhancing biohydrogen production. <i>Fuel</i> , 2020, 270, 117453.	6.4	139
270	COVID-19 and frequent use of hand sanitizers; human health and environmental hazards by exposure pathways. <i>Science of the Total Environment</i> , 2020, 742, 140561.	8.0	175

#	ARTICLE	IF	CITATIONS
271	A review on recent progress in computational and empirical studies of compression ignition internal combustion engine. <i>Fuel</i> , 2020, 279, 118469.	6.4	42
272	Natural organic and inorganic hydroxyapatite biopolymer composite for biomedical applications. <i>Progress in Organic Coatings</i> , 2020, 147, 105858.	3.9	58
273	Unveiling the anticancer and antimycobacterial potentials of bioengineered gold nanoparticles. <i>Process Biochemistry</i> , 2020, 96, 213-219.	3.7	25
274	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , 2020, 314, 123800.	9.6	54
275	Antibiogram and plasmid profiling of beta-lactamase producing multi drug resistant <i>Staphylococcus aureus</i> isolated from poultry litter. <i>Journal of King Saud University - Science</i> , 2020, 32, 2723-2727.	3.5	13
276	Nitrogen-fixing cyanobacteria as a potential resource for efficient biodiesel production. <i>Fuel</i> , 2020, 279, 118440.	6.4	23
277	Cell density, Lipidomic profile, and fatty acid characterization as selection criteria in bioprospecting of microalgae and cyanobacterium for biodiesel production. <i>Bioresource Technology</i> , 2020, 304, 123061.	9.6	53
278	Synthesized $\beta$ -cyclodextrin modified graphene oxide ( $\beta$ -CD-GO) composite for adsorption of cadmium and their toxicity profile in cervical cancer (HeLa) cell lines. <i>Process Biochemistry</i> , 2020, 93, 28-35.	3.7	52
279	Editorial Preface to the Special Issue on "The 2nd International Conference on Alternative Fuels and Energy: Futures and Challenges (ICAFE 2017)" 25th October 2017, Daegu, Republic of Korea. <i>Waste and Biomass Valorization</i> , 2020, 11, 1017-1017.	3.4	1
280	Silver nanoparticles in dye effluent treatment: A review on synthesis, treatment methods, mechanisms, photocatalytic degradation, toxic effects and mitigation of toxicity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 205, 111823.	3.8	261
281	Advancing anaerobic digestion through two-stage processes: Current developments and future trends. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109746.	16.4	102
282	Polyherbal drug loaded starch nanoparticles as promising drug delivery system: Antimicrobial, antibiofilm and neuroprotective studies. <i>Process Biochemistry</i> , 2020, 92, 355-364.	3.7	48
283	Characterization of a novel polymeric bioflocculant from marine actinobacterium <i>Streptomyces</i> sp. and its application in recovery of microalgae. <i>International Biodeterioration and Biodegradation</i> , 2020, 148, 104883.	3.9	28
284	Current Updates and Perspectives of Biosorption Technology: an Alternative for the Removal of Heavy Metals from Wastewater. <i>Current Pollution Reports</i> , 2020, 6, 8-27.	6.6	82
285	Fermentative hydrogen production and bioelectricity generation from food based industrial waste: An integrative approach. <i>Bioresource Technology</i> , 2020, 310, 123447.	9.6	27
286	An experimental investigation on engine characteristics, cost and energy analysis of CI engine fuelled with Roselle, Karanja biodiesel and its blends. <i>Fuel</i> , 2020, 275, 117891.	6.4	51
287	In vitro and in vivo biofilm forming <i>Vibrio</i> spp: A significant threat in aquaculture. <i>Process Biochemistry</i> , 2020, 94, 213-223.	3.7	68
288	A comprehensive assessment of biofuel policies in the BRICS nations: Implementation, blending target and gaps. <i>Fuel</i> , 2020, 272, 117635.	6.4	84

#	ARTICLE	IF	CITATIONS
289	Eco-biocompatibility of chitosan coated biosynthesized copper oxide nanocomposite for enhanced industrial (Azo) dye removal from aqueous solution and antibacterial properties. <i>Carbohydrate Polymers</i> , 2020, 241, 116243.	10.2	89
290	Optimization of media components and culture conditions for polyhydroxyalkanoates production by <i>Bacillus megaterium</i> . <i>Fuel</i> , 2020, 271, 117522.	6.4	49
291	Optimization, kinetic and thermodynamic studies on sustainable biodiesel production from waste cooking oil: An Indian perspective. <i>Fuel</i> , 2020, 273, 117725.	6.4	100
292	Optimal immobilization of <i>Trichoderma asperellum</i> laccase on polymer coated Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles for enhanced biohydrogen production from delignified lignocellulosic biomass. <i>Fuel</i> , 2020, 273, 117777.	6.4	97
293	Green technology for sustainable biohydrogen production (waste to energy): A review. <i>Science of the Total Environment</i> , 2020, 728, 138481.	8.0	144
294	Chrysin-Anchored Silver and Gold Nanoparticle-Reduced Graphene Oxide Composites for Breast Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2020, 3, 4574-4585.	5.0	40
295	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , 2020, 310, 123414.	9.6	109
296	Effects of herbal and mushroom formulations used in Traditional Chinese Medicine on in vitro human cancer cell lines at the preclinical level: An empirical review of the cell killing mechanisms. <i>Process Biochemistry</i> , 2020, 94, 136-142.	3.7	6
297	Response of <i>Scenedesmus</i> sp. to microwave treatment: Enhancement of lipid, exopolysaccharide and biomass production. <i>Bioresource Technology</i> , 2020, 312, 123562.	9.6	37
298	Experimental investigation of diesel engine fuelled with different alkyl esters of Karanja oil. <i>Fuel</i> , 2020, 275, 117920.	6.4	27
299	Biodiesel from <i>Scenedesmus</i> species: Engine performance, emission characteristics, corrosion inhibition and bioanalysis. <i>Fuel</i> , 2020, 276, 118074.	6.4	22
300	Transformation of TiO <sub>2</sub> nanoparticles to nanotubes by simple solvothermal route and its performance as dye-sensitized solar cell (DSSC) photoanode. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15441-15452.	7.1	41
301	Molecular profiling of marine endophytic fungi from green algae: Assessment of antibacterial and anticancer activities. <i>Process Biochemistry</i> , 2020, 96, 11-20.	3.7	26
302	Effect of iron doped Zinc oxide nanoparticles coating in the anode on current generation in microbial electrochemical cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2407-2416.	7.1	53
303	Biogenic design of ZnS quantum dots - Insights into their in-vitro cytotoxicity, photocatalysis and biosensing properties. <i>Ceramics International</i> , 2019, 45, 24193-24201.	4.8	34
304	Emission of volatile organic compounds from composting: A review on assessment, treatment and perspectives. <i>Science of the Total Environment</i> , 2019, 695, 133725.	8.0	67
305	Alternating the environmental benefits of Aegle-diesel blends used in compression ignition. <i>Fuel</i> , 2019, 256, 115835.	6.4	42
306	<i>Curtobacterium</i> sp. MA01 generates oxidative stress to inhibit the plant growth. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101274.	3.1	7

#	ARTICLE	IF	CITATIONS
307	Mycosensing of soil contaminants by <i>Ganoderma lucidum</i> and <i>Omphalotus subilludens</i> including the insights on growth media requirements. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101239.	3.1	6
308	Performance, combustion and emission analysis of microalgae <i>Spirulina</i> in a common rail direct injection diesel engine. <i>Fuel</i> , 2019, 255, 115855.	6.4	92
309	Microbial fuel cells as a sustainable platform technology for bioenergy, biosensing, environmental monitoring, and other low power device applications. <i>Fuel</i> , 2019, 255, 115682.	6.4	88
310	An experimental evaluation of engine performance and emission characteristics of CI engine operated with Roselle and Karanja biodiesel. <i>Fuel</i> , 2019, 254, 115652.	6.4	132
311	Comparison of phytochemicals, antioxidant and hypoglycemic activity of four different Brown rice varieties. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101351.	3.1	7
312	Cytotoxic effects of a sesquiterpene $\beta$ -elemene on THP-1 leukemia cells is mediated via crosstalk between beclin-1 mediated autophagy and caspase-dependent apoptosis. <i>Process Biochemistry</i> , 2019, 87, 174-178.	3.7	14
313	Green approach synthesis of Pd@TiO <sub>2</sub> nanoparticles: characterization, visible light active picric acid degradation and anticancer activity. <i>Process Biochemistry</i> , 2019, 87, 83-88.	3.7	44
314	Synthesis of Silver Nanoparticles and their Biomedical Applications - A Comprehensive Review. <i>Current Pharmaceutical Design</i> , 2019, 25, 2650-2660.	1.9	167
315	Cytotoxic and immunomodulatory effects of the low concentration of titanium dioxide nanoparticles (TiO <sub>2</sub> NPs) on human cell lines - An in vitro study. <i>Process Biochemistry</i> , 2019, 86, 186-195.	3.7	29
316	Photocatalytic degradation of Rhodamine B by zinc oxide nanoparticles synthesized using the leaf extract of <i>Cyanometra ramiflora</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 199, 111621.	3.8	190
317	Mitigation of greenhouse gas intensity by supplementing with <i>Azolla</i> and moderating the dose of nitrogen fertilizer. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101266.	3.1	46
318	An overview of carcinogenic pollutants in groundwater of India. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101288.	3.1	54
319	Clinically important microbial diversity and its antibiotic resistance pattern towards various drugs. <i>Journal of Infection and Public Health</i> , 2019, 12, 783-788.	4.1	16
320	Batch and column approach on biosorption of fluoride from aqueous medium using live, dead and various pretreated <i>Aspergillus niger</i> (FS18) biomass. <i>Surfaces and Interfaces</i> , 2019, 15, 60-69.	3.0	18
321	Toxic effects of magnetic nanoparticles on normal cells and organs. <i>Life Sciences</i> , 2019, 220, 156-161.	4.3	93
322	<i>Aegle marmelos</i> : A novel low cost substrate for the synthesis of polyhydroxyalkanoate by <i>Bacillus aerophilus</i> RSL- 7. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 18, 101021.	3.1	12
323	Microbial fuel cells (MFCs) for bioelectrochemical treatment of different wastewater streams. <i>Fuel</i> , 2019, 254, 115526.	6.4	186
324	Ecofriendly one pot fabrication of methyl gallate@ZIF-L nanoscale hybrid as pH responsive drug delivery system for lung cancer therapy. <i>Process Biochemistry</i> , 2019, 84, 39-52.	3.7	41

#	ARTICLE	IF	CITATIONS
325	Antioxidant, anticoagulant and mosquitocidal properties of water soluble polysaccharides (WSPs) from Indian seaweeds. <i>Process Biochemistry</i> , 2019, 84, 196-204.	3.7	40
326	Absolute removal of ciprofloxacin and its degraded byproducts in aqueous solution using an efficient electrochemical oxidation process coupled with adsorption treatment technique. <i>Journal of Environmental Management</i> , 2019, 245, 409-417.	7.8	37
327	Lipid enhancement through nutrient starvation in <i>Chlorella</i> sp. and its fatty acid profiling for appropriate bioenergy feedstock. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101179.	3.1	42
328	Comparative studies of phytochemical analysis and pharmacological activities of wild and micropropagated plant ethanol extracts of <i>Manihot esculenta</i> . <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 19, 101166.	3.1	14
329	Biohydrogen production from glucose using submerged dynamic filtration module: Metabolic product distribution and flux-based analysis. <i>Bioresource Technology</i> , 2019, 287, 121445.	9.6	9
330	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019, 253, 637-646.	6.4	110
331	Fate of Triclocarban (TCC) in aquatic and terrestrial systems and human exposure. <i>Chemosphere</i> , 2019, 230, 201-209.	8.2	42
332	Application of nanotechnology in dark fermentation for enhanced biohydrogen production using inorganic nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13106-13113.	7.1	159
333	Role of cyanobacteria in agricultural and industrial sectors: an outlook on economically important byproducts. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4709-4721.	3.6	52
334	Mitochondrial dysfunction mediated apoptosis of HT-29 cells through CS-PAC-AgNPs and investigation of genotoxic effects in zebra ( <i>Danio rerio</i> ) fish model for drug delivery. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 767-776.	3.8	13
335	Gold nanoparticles using red seaweed <i>Gracilaria verrucosa</i> : Green synthesis, characterization and biocompatibility studies. <i>Process Biochemistry</i> , 2019, 80, 58-63.	3.7	89
336	A perspective on galactose-based fermentative hydrogen production from macroalgal biomass: Trends and opportunities. <i>Bioresource Technology</i> , 2019, 280, 447-458.	9.6	36
337	Chitosan nanoparticles: An overview of drug delivery against cancer. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 727-736.	7.5	179
338	Green synthesis and characterization of titanium dioxide nanoparticles (TiO <sub>2</sub> NPs) using <i>Sesbania grandiflora</i> and evaluation of toxicity in zebrafish embryos. <i>Process Biochemistry</i> , 2019, 80, 197-202.	3.7	117
339	Biosynthesis and characterization of hydroxyapatite and its composite (hydroxyapatite-gelatin-chitosan-fibrin-bone ash) for bone tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 844-852.	7.5	54
340	Bactericidal coating of paper towels via sustainable biosynthesis of silver nanoparticles using <i>Ocimum sanctum</i> leaf extract. <i>Materials Research Express</i> , 2019, 6, 045401.	1.6	49
341	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1431-1440.	7.1	105
342	Biosynthesis of iron oxide nanoparticles using leaf extract of <i>Ruellia tuberosa</i> : Antimicrobial properties and their applications in photocatalytic degradation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 192, 74-82.	3.8	271

#	ARTICLE	IF	CITATIONS
343	Synthesis of ecofriendly copper oxide nanoparticles for fabrication over textile fabrics: Characterization of antibacterial activity and dye degradation potential. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 143-149.	3.8	252
344	Pectin extraction from <i>Helianthus annuus</i> (sunflower) heads using RSM and ANN modelling by a genetic algorithm approach. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 750-758.	7.5	51
345	Evaluating the potential of green alga <i>Chlorella</i> sp. for high biomass and lipid production in biodiesel viewpoint. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 184-188.	3.1	69
346	Anticancer, antimicrobial and photocatalytic activities of green synthesized magnesium oxide nanoparticles (MgONPs) using aqueous extract of <i>Sargassum wightii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 190, 86-97.	3.8	259
347	Bio-inspired ZnS quantum dots as efficient photo catalysts for the degradation of methylene blue in aqueous phase. <i>Ceramics International</i> , 2019, 45, 4857-4862.	4.8	49
348	Investigation of photoelectrochemical activity of cobalt tin sulfide synthesized via microwave-assisted and solvothermal process. <i>Journal of Alloys and Compounds</i> , 2019, 778, 496-506.	5.5	12
349	Microbiome involved in anaerobic hydrogen producing granules: A mini review. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 21, e00301.	4.4	13
350	A review on chemical mechanism of microalgae flocculation via polymers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 21, e00302.	4.4	64
351	Microalgae as rich source of polyunsaturated fatty acids. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 583-588.	3.1	140
352	Screening and enrichment of high lipid producing microalgal consortia. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 192, 8-12.	3.8	22
353	Utilization of algae for biofuel, bio-products and bio-remediation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 326-330.	3.1	171
354	Review on cultivation and thermochemical conversion of microalgae to fuels and chemicals: Process evaluation and knowledge gaps. <i>Journal of Cleaner Production</i> , 2019, 208, 1053-1064.	9.3	146
355	Assessment of antioxidant, anticholinesterase and antiamyloidogenic effect of <i>Terminalia chebula</i> , <i>Terminalia arjuna</i> and its bioactive constituent 7-Methyl gallic acid – An in vitro and in silico studies. <i>Journal of Molecular Liquids</i> , 2018, 257, 69-81.	4.9	25
356	Synthesis of eco-friendly copper nanoparticles for augmentation of catalytic degradation of organic dyes. <i>Journal of Molecular Liquids</i> , 2018, 260, 1-8.	4.9	123
357	Review on emergence of drug-resistant tuberculosis (MDR & XDR-TB) and its molecular diagnosis in Ethiopia. <i>Microbial Pathogenesis</i> , 2018, 117, 237-242.	2.9	39
358	Pretreatment technologies for industrial effluents: Critical review on bioenergy production and environmental concerns. <i>Journal of Environmental Management</i> , 2018, 218, 165-180.	7.8	68
359	Antimicrobial and anticancer activities of silver nanoparticles synthesized from the root hair extract of <i>Phoenix dactylifera</i> . <i>Materials Science and Engineering C</i> , 2018, 89, 429-443.	7.3	279
360	Biological approaches to tackle heavy metal pollution: A survey of literature. <i>Journal of Environmental Management</i> , 2018, 217, 56-70.	7.8	421



#	ARTICLE	IF	CITATIONS
361	Biosorptive Removal of Copper(II) by <i>Bacillus cereus</i> Isolated from Contaminated Soil of Electroplating Industry in India. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	38
362	Inorganic nanoparticles: A potential cancer therapy for human welfare. <i>International Journal of Pharmaceutics</i> , 2018, 539, 104-111.	5.2	226
363	Synthesis of silver nanoparticles from <i>Bacillus brevis</i> (NCIM 2533) and their antibacterial activity against pathogenic bacteria. <i>Microbial Pathogenesis</i> , 2018, 116, 221-226.	2.9	301
364	Biohydrogen fermentation of galactose at various substrate concentrations in an immobilized system and its microbial correspondence. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 559-564.	2.2	11
365	Synthesis of silver nanoparticles from <i>Phenerochaete chrysosporium</i> (MTCC-787) and their antibacterial activity against human pathogenic bacteria. <i>Microbial Pathogenesis</i> , 2018, 117, 68-72.	2.9	192
366	Optimization of sugar recovery efficiency using microwave assisted alkaline pretreatment of cassava stem using response surface methodology and its structural characterization. <i>Journal of Molecular Liquids</i> , 2018, 254, 55-63.	4.9	68
367	Biofuel policy in India: A review of policy barriers in sustainable marketing of biofuel. <i>Journal of Cleaner Production</i> , 2018, 193, 734-747.	9.3	229
368	Toxicity of Doxorubicin (Dox) to different experimental organ systems. <i>Life Sciences</i> , 2018, 200, 26-30.	4.3	297
369	An enhancement of antimicrobial efficacy of biogenic and ceftriaxone-conjugated silver nanoparticles: green approach. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10362-10370.	5.3	170
370	Continuous biogenic hydrogen production from dilute acid pretreated algal hydrolysate using hybrid immobilized mixed consortia. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11452-11459.	7.1	21
371	ROS-mediated cytotoxic activity of ZnO and CeO <sub>2</sub> nanoparticles synthesized using the <i>Rubia cordifolia</i> L. leaf extract on MC-63 human osteosarcoma cell lines. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10482-10492.	5.3	115
372	Surpassing the current limitations of high purity H <sub>2</sub> production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018, 119, 211-219.	4.6	92
373	Effect of 5-hydroxymethylfurfural (5-HMF) on high-rate continuous biohydrogen production from galactose. <i>Bioresource Technology</i> , 2018, 247, 1197-1200.	9.6	24
374	Lanosterol expressed bio-fouling inhibition on Gulf of Mannar coast, India. <i>Progress in Organic Coatings</i> , 2018, 115, 100-106.	3.9	3
375	New insight into effective biosorption of lead from aqueous solution using <i>Ralstonia solanacearum</i> : Characterization and mechanism studies. <i>Journal of Cleaner Production</i> , 2018, 174, 1234-1239.	9.3	72
376	Synthesis and characterization of silver nanoparticles using <i>Gelidium amansii</i> and its antimicrobial property against various pathogenic bacteria. <i>Microbial Pathogenesis</i> , 2018, 114, 41-45.	2.9	244
377	Biogenic synthesis of gold nanoparticles from <i>Terminalia arjuna</i> bark extract: assessment of safety aspects and neuroprotective potential via antioxidant, anticholinesterase, and antiamyloidogenic effects. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10418-10433.	5.3	101
378	New insights on the green synthesis of metallic nanoparticles using plant and waste biomaterials: current knowledge, their agricultural and environmental applications. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10164-10183.	5.3	220



#	ARTICLE	IF	CITATIONS
379	Controlled synthesis of Pt nanoparticle supported TiO <sub>2</sub> nanorods as efficient and stable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23435-23444.	10.3	55
380	Insights into evolutionary trends in molecular biology tools in microbial screening for biohydrogen production through dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19885-19901.	7.1	42
381	Biosorptive removal of Zn(II) ions by <i>Pongamia</i> oil cake ( <i>Pongamia pinnata</i> ) in batch and fixed-bed column studies using response surface methodology and artificial neural network. <i>Journal of Environmental Management</i> , 2018, 227, 216-228.	7.8	49
382	Biogenesis of copper oxide nanoparticles (CuONPs) using <i>Sida acuta</i> and their incorporation over cotton fabrics to prevent the pathogenicity of Gram negative and Gram positive bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 126-134.	3.8	212
383	Phytochemical and pharmacological profiling of <i>Turnera subulata</i> Sm., a vital medicinal herb. <i>Industrial Crops and Products</i> , 2018, 124, 822-833.	5.2	19
384	A comprehensive review on green nanomaterials using biological systems: Recent perception and their future applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 20-35.	5.0	252
385	Corrosion inhibition performance of spermidine on mild steel in acid media. <i>Journal of Molecular Liquids</i> , 2018, 264, 483-489.	4.9	47
386	High-performance asymmetric supercapacitor from nanostructured tin nickel sulfide (SnNi <sub>2</sub> S <sub>4</sub> ) synthesized via microwave-assisted technique. <i>Journal of Molecular Liquids</i> , 2018, 266, 649-657.	4.9	27
387	Photocatalytic activity of CuO/Cu(OH) <sub>2</sub> nanostructures in the degradation of Reactive Green 19A and textile effluent, phytotoxicity studies and their biogenic properties (antibacterial and anticancer). <i>Journal of Environmental Management</i> , 2018, 223, 1086-1097.	7.8	74
388	Enhancement of lipid production from algal biomass through various growth parameters. <i>Journal of Molecular Liquids</i> , 2018, 269, 712-720.	4.9	56
389	Advanced biohydrogen production using pretreated industrial waste: Outlook and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 306-324.	16.4	119
390	Photocatalytic properties and antimicrobial efficacy of Fe doped CuO nanoparticles against the pathogenic bacteria and fungi. <i>Microbial Pathogenesis</i> , 2018, 122, 84-89.	2.9	112
391	Improvement of hydrogen fermentation of galactose by combined inoculation strategy. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 353-357.	2.2	17
392	Anti-diabetic Potential of Silver Nanoparticles Synthesized with <i>Argyrea nervosa</i> Leaf Extract High Synergistic Antibacterial Activity with Standard Antibiotics Against Foodborne Bacteria. <i>Journal of Cluster Science</i> , 2017, 28, 1709-1727.	3.3	128
393	Microbiome involved in microbial electrochemical systems (MESs): A review. <i>Chemosphere</i> , 2017, 177, 176-188.	8.2	72
394	Biofabrication and characterization of silver nanoparticles using aqueous extract of seaweed <i>Enteromorpha compressa</i> and its biomedical properties. <i>Biotechnology Reports (Amsterdam)</i> , 2017, 10, 116-137.	10.16	137
395	Synthesis of platinum nanoparticles using seaweed <i>Padina gymnospora</i> and their catalytic activity as PVP/PtNPs nanocomposite towards biological applications. <i>Biomedicine and Pharmacotherapy</i> , 2017, 92, 479-490.	5.6	107
396	Optimization of Fermentative Hydrogen Production by <i>Klebsiella pneumoniae</i> KTSMBNL 11 Isolated from Municipal Sewage Sludge. <i>Environmental Science and Engineering</i> , 2017, , 267-278.	0.2	1

#	ARTICLE	IF	CITATIONS
397	Evaluation of Cr(VI) reduction mechanism and removal by <i>Cellulosimicrobium funkei</i> strain AR8, a novel haloalkaliphilic bacterium. <i>Journal of Hazardous Materials</i> , 2017, 333, 42-53.	12.4	171
398	Biosorption and biotransformation of Cr(VI) by novel <i>Cellulosimicrobium funkei</i> strain AR6. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 282-290.	5.3	101
399	Pt Nanoparticles Supported on Mesoporous CeO <sub>2</sub> Nanostructures Obtained through Green Approach for Efficient Catalytic Performance toward Ethanol Electro-oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11290-11299.	6.7	63
400	Synthesis of nano-cuboidal gold particles for effective antimicrobial property against clinical human pathogens. <i>Microbial Pathogenesis</i> , 2017, 113, 68-73.	2.9	37
401	Mixed-culture H <sub>2</sub> fermentation performance and the relation between microbial community composition and hydraulic retention times for a fixed bed reactor fed with galactose/glucose mixtures. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 339-345.	2.2	5
402	Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26440-26453.	7.1	50
403	Inhibitory effect of 5-hydroxymethylfurfural on continuous hydrogen fermentation by mixed culture in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27570-27576.	7.1	24
404	Process performance of biohydrogen production using glucose at various HRTs and assessment of microbial dynamics variation via q-PCR. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27550-27557.	7.1	41
405	Electrophoretic pattern of glutathione S-transferase (GST) in antibiotic resistance Gram-positive bacteria from poultry litter. <i>Microbial Pathogenesis</i> , 2017, 110, 285-290.	2.9	16
406	Synthesis and characterization of ZrO <sub>2</sub> nanoparticles-antimicrobial activity and their prospective role in dental care. <i>Microbial Pathogenesis</i> , 2017, 110, 245-251.	2.9	123
407	Optimization of oligomeric enzyme activity in ionic liquids using <i>Rhodotorula glutinis</i> yeast phenylalanine ammonia lyase. <i>Enzyme and Microbial Technology</i> , 2017, 96, 151-156.	3.2	14
408	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <i>Energy Conversion and Management</i> , 2017, 141, 390-402.	9.2	107
409	<i>Rhodotorula glutinis</i> Phenylalanine/Tyrosine Ammonia Lyase Enzyme Catalyzed Synthesis of the Methyl Ester of para-Hydroxycinnamic Acid and its Potential Antibacterial Activity. <i>Frontiers in Microbiology</i> , 2016, 7, 281.	3.5	18
410	Comparative study on the biosorption of aluminum by free and immobilized cells of <i>Bacillus safensis</i> KTSMBNL 26 isolated from explosive contaminated soil. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 69, 61-67.	5.3	62
411	A review on the biosynthesis of metallic nanoparticles (gold and silver) using bio-components of microalgae: Formation mechanism and applications. <i>Enzyme and Microbial Technology</i> , 2016, 95, 28-44.	3.2	234
412	Seaweeds: A resource for marine bionanotechnology. <i>Enzyme and Microbial Technology</i> , 2016, 95, 45-57.	3.2	106
413	Removal of cadmium from aqueous solution by batch studies using <i>Bacillus cereus</i> . <i>Ecological Engineering</i> , 2014, 71, 728-735.	3.6	119
414	Biohydrogen Production from Wastewaters. , 0, , .		5

#	ARTICLE	IF	CITATIONS
415	Moving ahead from hydrogen to methanol economy: scope and challenges. Clean Technologies and Environmental Policy, 0, , 1.	4.1	5
416	CO2 reduction in a common rail direct injection engine using the combined effect of low carbon biofuels, hydrogen and a post combustion carbon capture system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-20.	2.3	7