

Arivalagan Pugazhendhi

List of Publications by Year in descending order

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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	Biological approaches to tackle heavy metal pollution: A survey of literature. <i>Journal of Environmental Management</i> , 2018, 217, 56-70.	7.8	421
2	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
3	Toxicity of Doxorubicin (Dox) to different experimental organ systems. <i>Life Sciences</i> , 2018, 200, 26-30.	4.3	297
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Inorganic nanoparticles: A potential cancer therapy for human welfare. <i>International Journal of Pharmaceutics</i> , 2018, 539, 104-111.	5.2	226
14	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
15	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
16	Biofabrication and characterization of silver nanoparticles using aqueous extract of seaweed <i>Enteromorpha compressa</i> and its biomedical properties. <i>Biotechnology Reports (Amsterdam)</i> , Tj ETQq0 0 0 rgBT /Overlock 1016 50 137	10.16	116
17	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
18	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

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19	Microbial fuel cells (MFCs) for bioelectrochemical treatment of different wastewater streams. <i>Fuel</i> , 2019, 254, 115526.	6.4	186
20	Algae as green energy reserve: Technological outlook on biofuel production. <i>Chemosphere</i> , 2020, 242, 125079.	8.2	182
21	Chitosan nanopolymers: An overview of drug delivery against cancer. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 727-736.	7.5	179
22	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
23	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021, 751, 141599.	8.0	177
24	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
25	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
26	Utilization of algae for biofuel, bio-products and bio-remediation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 326-330.	3.1	171
27	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
28	Synthesis of Silver Nanoparticles and their Biomedical Applications - A Comprehensive Review. <i>Current Pharmaceutical Design</i> , 2019, 25, 2650-2660.	1.9	167
29	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
30	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
31	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
32	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
33	Green technology for sustainable biohydrogen production (waste to energy): A review. <i>Science of the Total Environment</i> , 2020, 728, 138481.	8.0	144
34	Microalgae as rich source of polyunsaturated fatty acids. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 583-588.	3.1	140
35	Comprehensive review on the application of inorganic and organic nanoparticles for enhancing biohydrogen production. <i>Fuel</i> , 2020, 270, 117453.	6.4	139
36	A review on prospective production of biofuel from microalgae. <i>Biotechnology Reports (Amsterdam)</i> , Tj ETQq0 0 0 ggBT /Overlock 10 Tf	4.4	134

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37	Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. <i>Bioresource Technology</i> , 2021, 326, 124733.	9.6	134
38	An overview on bioethanol production from lignocellulosic feedstocks. <i>Chemosphere</i> , 2020, 242, 125080.	8.2	133
39	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
40	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
41	A review on biochar production techniques and biochar based catalyst for biofuel production from algae. <i>Fuel</i> , 2021, 287, 119411.	6.4	132
42	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
43	Synthesis and characterization of ZrO ₂ nanoparticles-antimicrobial activity and their prospective role in dental care. <i>Microbial Pathogenesis</i> , 2017, 110, 245-251.	2.9	123
44	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
45	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
46	Electronic waste generation, recycling and resource recovery: Technological perspectives and trends. <i>Journal of Hazardous Materials</i> , 2021, 416, 125664.	12.4	120
47	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
48	Advanced biohydrogen production using pretreated industrial waste: Outlook and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 306-324.	16.4	119
49	Green synthesis and characterization of titanium dioxide nanoparticles (TiO ₂ NPs) using <i>Sesbania grandiflora</i> and evaluation of toxicity in zebrafish embryos. <i>Process Biochemistry</i> , 2019, 80, 197-202.	3.7	117
50	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
51	ROS-mediated cytotoxic activity of ZnO and CeO ₂ nanoparticles synthesized using the <i>Rubia cordifolia</i> L. leaf extract on MG-63 human osteosarcoma cell lines. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10482-10492.	5.3	115
52	Current challenges and innovative developments in pretreatment of lignocellulosic residues for biofuel production: A review. <i>Fuel</i> , 2021, 287, 119670.	6.4	114
53	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
54	A critical review on production of biopolymers from algae biomass and their applications. <i>Bioresource Technology</i> , 2021, 329, 124868.	9.6	112

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55	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
56	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019, 253, 637-646.	6.4	110
57	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , 2020, 310, 123414.	9.6	109
58	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
59	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
60	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
61	Seaweeds: A resource for marine bionanotechnology. <i>Enzyme and Microbial Technology</i> , 2016, 95, 45-57.	3.2	106
62	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1431-1440.	7.1	105
63	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
64	Insights on biological hydrogen production routes and potential microorganisms for high hydrogen yield. <i>Fuel</i> , 2021, 291, 120136.	6.4	105
65	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
66	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
67	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
68	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
69	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
70	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
71	Towards sustainable agriculture with carbon sequestration, and greenhouse gas mitigation using algal biochar. <i>Chemosphere</i> , 2021, 275, 129856.	8.2	98
72	Enhanced photocatalysis and anticancer activity of green hydrothermal synthesized Ag@TiO ₂ nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111636.	3.8	97

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73	Optimal immobilization of <i>Trichoderma asperellum</i> laccase on polymer coated Fe ₃ O ₄ @SiO ₂ nanoparticles for enhanced biohydrogen production from delignified lignocellulosic biomass. <i>Fuel</i> , 2020, 273, 117777.	6.4	97
74	Activation strategies for biochar to use as an efficient catalyst in various applications. <i>Fuel</i> , 2021, 285, 119205.	6.4	97
75	A realistic scenario on microalgae based biodiesel production: Third generation biofuel. <i>Fuel</i> , 2021, 284, 118965.	6.4	97
76	Biofilm and Quorum sensing mediated pathogenicity in <i>Pseudomonas aeruginosa</i> . <i>Process Biochemistry</i> , 2020, 96, 49-57.	3.7	94
77	Toxic effects of magnetic nanoparticles on normal cells and organs. <i>Life Sciences</i> , 2019, 220, 156-161.	4.3	93
78	Surpassing the current limitations of high purity H ₂ production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018, 119, 211-219.	4.6	92
79	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
80	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
81	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
82	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
83	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
84	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
85	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
86	A comprehensive assessment of biofuel policies in the BRICS nations: Implementation, blending target and gaps. <i>Fuel</i> , 2020, 272, 117635.	6.4	84
87	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
88	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
89	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
90	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

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91	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
92	Performance and emission analysis of a diesel engine using hydrogen enriched n-butanol, diethyl ester and Spirulina microalgae biodiesel. <i>Fuel</i> , 2020, 271, 117645.	6.4	75
93	Nanocellulose as green material for remediation of hazardous heavy metal contaminants. <i>Journal of Hazardous Materials</i> , 2022, 424, 127516.	12.4	75
94	Photocatalytic activity of CuO/Cu(OH) ₂ 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
95	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
96	Microbiome involved in microbial electrochemical systems (MESs): A review. <i>Chemosphere</i> , 2017, 177, 176-188.	8.2	72
97	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
98	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
99	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
100	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
101	Mechanism and challenges behind algae as a wastewater treatment choice for bioenergy production and beyond. <i>Fuel</i> , 2021, 285, 119093.	6.4	69
102	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
103	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
104	Immobilization of Cu ₃ (btc) ₂ 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
105	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
106	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
107	Upgrading of bio-oil from thermochemical conversion of various biomass – Mechanism, challenges and opportunities. <i>Fuel</i> , 2021, 287, 119329.	6.4	66
108	An investigation of transition metal doped TiO ₂ 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

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109	A review on chemical mechanism of microalgae flocculation via polymers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 21, e00302.	4.4	64
110	Pt Nanoparticles Supported on Mesoporous CeO ₂ 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
111	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
112	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
113	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
114	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
115	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
116	Effect of microalgae, tyre pyrolysis oil and <i>Jatropha</i> biodiesel enriched with diesel fuel on performance and emission characteristics of CI engine. <i>Fuel</i> , 2020, 278, 118252.	6.4	60
117	Technical insights into the production of green fuel from CO ₂ sequestered algal biomass: A conceptual review on green energy. <i>Science of the Total Environment</i> , 2021, 755, 142636.	8.0	60
118	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
119	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
120	Natural organic and inorganic hydroxyapatite biopolymer composite for biomedical applications. <i>Progress in Organic Coatings</i> , 2020, 147, 105858.	3.9	58
121	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
122	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
123	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
124	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
125	Enhancement of lipid production from algal biomass through various growth parameters. <i>Journal of Molecular Liquids</i> , 2018, 269, 712-720.	4.9	56
126	Biodiesel production through transesterification of <i>Chlorella vulgaris</i> : Synthesis and characterization of CaO nanocatalyst. <i>Fuel</i> , 2021, 300, 121018.	6.4	56

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127	Probiotics and gut microbiome – Prospects and challenges in remediating heavy metal toxicity. <i>Journal of Hazardous Materials</i> , 2021, 420, 126676.	12.4	56
128	Controlled synthesis of Pt nanoparticle supported TiO ₂ 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
129	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
130	An overview of carcinogenic pollutants in groundwater of India. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101288.	3.1	54
131	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
132	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , 2020, 314, 123800.	9.6	54
133	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
134	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
135	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
136	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
137	Synthesized β -cyclodextrin modified graphene oxide (β -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
138	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
139	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
140	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
141	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
142	Valorization of agricultural residues: Different biorefinery routes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105435.	6.7	50
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