

Sunita J Varjani

List of Publications by Year in descending order

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Version: 2024-02-01

274
papers

13,412
citations

27035

58
h-index

37326

100
g-index

290
all docs

290
docs citations

290
times ranked

8962
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnological approaches to disrupt the rigid cell walled microalgae grown in wastewater for value-added biocompounds: commercial applications, challenges, and breakthrough. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 13309-13334.	2.9	10
2	Astaxanthin bioaccumulation in microalgae under environmental stress simulated in industrial effluents highlighting prospects of <i>Haematococcus pluvialis</i> : knowledge gaps and prospective approaches. <i>Phytochemistry Reviews</i> , 2023, 22, 1041-1066.	3.1	12
3	Waste-Derived Fuels and Renewable Chemicals for Bioeconomy Promotion: A Sustainable Approach. <i>Bioenergy Research</i> , 2023, 16, 16-32.	2.2	7
4	Recent Advancements in Microalgal Mediated Valorisation of Wastewater from Hydrothermal Liquefaction of Biomass. <i>Bioenergy Research</i> , 2023, 16, 45-60.	2.2	13
5	An Overview of Cellulase Immobilization Strategies for Biofuel Production. <i>Bioenergy Research</i> , 2023, 16, 4-15.	2.2	3
6	Trends in Lignin Biotransformations for Bio-Based Products and Energy Applications. <i>Bioenergy Research</i> , 2023, 16, 88-104.	2.2	11
7	A Comprehensive Review of Feedstocks as Sustainable Substrates for Next-Generation Biofuels. <i>Bioenergy Research</i> , 2023, 16, 105-122.	2.2	11
8	Pulsed Electric Field-Assisted Cell Permeabilization of Microalgae (<i>Haematococcus pluvialis</i>) for Milking of Value-Added Compounds. <i>Bioenergy Research</i> , 2023, 16, 311-324.	2.2	5
9	Sustainable utilization of Citrus limetta peel for obtaining pectin and its application in cookies as a fat replacer. <i>Journal of Food Science and Technology</i> , 2023, 60, 975-986.	1.4	5
10	Algal lipids for biofuel production: strategies, environmental impacts, downstream processing and commercialization. <i>Phytochemistry Reviews</i> , 2023, 22, 1127-1145.	3.1	3
11	A critical review on valorization of food processing wastes and by-products for pullulan production. <i>Journal of Food Science and Technology</i> , 2023, 60, 2121-2131.	1.4	6
12	Recent advances in biotransformation of 5-Hydroxymethylfurfural: challenges and future aspects. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 409-419.	1.6	33
13	Surfactant-aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbon (PAHs): progress, limitation, and countermeasures. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 391-408.	1.6	29
14	Effect of sewage sludge biochar on the soil nutrient, microbial abundance, and plant biomass: A sustainable approach towards mitigation of solid waste. <i>Chemosphere</i> , 2022, 287, 132112.	4.2	38
15	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar (<i>Livistona</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10	4.2	37
16	Lignocellulosic biomass-based pyrolysis: A comprehensive review. <i>Chemosphere</i> , 2022, 286, 131824.	4.2	129
17	Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. <i>Science of the Total Environment</i> , 2022, 806, 150312.	3.9	39
18	Advancements in heavy metals removal from effluents employing nano-adsorbents: Way towards cleaner production. <i>Environmental Research</i> , 2022, 203, 111815.	3.7	58

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19	Current advances and future outlook on pretreatment techniques to enhance biosolids disintegration and anaerobic digestion: A critical review. <i>Chemosphere</i> , 2022, 288, 132553.	4.2	37
20	Quorum quenching affects biofilm development in an anaerobic membrane bioreactor (AnMBR): from macro to micro perspective. <i>Bioresource Technology</i> , 2022, 344, 126183.	4.8	15
21	Impact of light on microalgal photosynthetic microbial fuel cells and removal of pollutants by nanoadsorbent biopolymers: Updates, challenges and innovations. <i>Chemosphere</i> , 2022, 288, 132589.	4.2	44
22	Phthalates in the environment: characteristics, fate and transport, and advanced wastewater treatment technologies. <i>Bioresource Technology</i> , 2022, 344, 126249.	4.8	56
23	Co-culture of microalgae-activated sludge in sequencing batch photobioreactor systems: Effects of natural and artificial lighting on wastewater treatment. <i>Bioresource Technology</i> , 2022, 343, 126091.	4.8	26
24	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. <i>Bioresource Technology</i> , 2022, 343, 126126.	4.8	111
25	Recent advances in lutein production from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111795.	8.2	73
26	Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. <i>Bioresource Technology</i> , 2022, 343, 126059.	4.8	82
27	Producing fucoxanthin from algae – Recent advances in cultivation strategies and downstream processing. <i>Bioresource Technology</i> , 2022, 344, 126170.	4.8	39
28	Non-submerged attached growth process for domestic wastewater treatment: Influence of media types and internal recirculation ratios. <i>Bioresource Technology</i> , 2022, 343, 126125.	4.8	3
29	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. <i>Bioresource Technology</i> , 2022, 344, 126292.	4.8	92
30	A Glimpse of the World of Volatile Fatty Acids Production and Application: A review. <i>Bioengineered</i> , 2022, 13, 1249-1275.	1.4	43
31	Opportunities and challenges in omics approaches for biosurfactant production and feasibility of site remediation: Strategies and advancements. <i>Environmental Technology and Innovation</i> , 2022, 25, 102132.	3.0	29
32	Anaerobic biobutanol production from black strap molasses using <i>Clostridium acetobutylicum</i> MTCC11274: Media engineering and kinetic analysis. <i>Bioresource Technology</i> , 2022, 346, 126405.	4.8	13
33	Opportunities and knowledge gaps in biochemical interventions for mining of resources from solid waste: A special focus on anaerobic digestion. <i>Fuel</i> , 2022, 311, 122625.	3.4	40
34	Recalcitrant compounds formation, their toxicity, and mitigation: Key issues in biomass pretreatment and anaerobic digestion. <i>Chemosphere</i> , 2022, 291, 132930.	4.2	18
35	Quantum dot synthesis from waste biomass and its applications in energy and bioremediation. <i>Chemosphere</i> , 2022, 293, 133564.	4.2	22
36	Metabolic Cascade for Remediation of Plastic Waste: a Case Study on Microplastic Degradation. <i>Current Pollution Reports</i> , 2022, 8, 30-50.	3.1	18

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37	Current application of algae derivatives for bioplastic production: A review. <i>Bioresource Technology</i> , 2022, 347, 126698.	4.8	60
38	Bio-membrane integrated systems for nitrogen recovery from wastewater in circular bioeconomy. <i>Chemosphere</i> , 2022, 289, 133175.	4.2	10
39	Algae biorefinery: A promising approach to promote microalgae industry and waste utilization. <i>Journal of Biotechnology</i> , 2022, 345, 1-16.	1.9	34
40	Emerging microalgae-based technologies in biorefinery and risk assessment issues: Bioeconomy for sustainable development. <i>Science of the Total Environment</i> , 2022, 813, 152417.	3.9	22
41	Municipal solid waste management: Dynamics, risk assessment, ecological influence, advancements, constraints and perspectives. <i>Science of the Total Environment</i> , 2022, 814, 152802.	3.9	93
42	Trends in mitigation of industrial waste: Global health hazards, environmental implications and waste derived economy for environmental sustainability. <i>Science of the Total Environment</i> , 2022, 811, 152357.	3.9	60
43	A dual chamber microbial fuel cell based biosensor for monitoring copper and arsenic in municipal wastewater. <i>Science of the Total Environment</i> , 2022, 811, 152261.	3.9	23
44	Recent advances in circular bioeconomy based clean technologies for sustainable environment. <i>Journal of Water Process Engineering</i> , 2022, 46, 102534.	2.6	13
45	Recent advancements in prebiotic oligomers synthesis via enzymatic hydrolysis of lignocellulosic biomass. <i>Bioengineered</i> , 2022, 13, 2139-2172.	1.4	22
46	Trends in dark biohydrogen production strategy and linkages with transition towards low carbon economy: An outlook, cost-effectiveness, bottlenecks and future scope. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15309-15332.	3.8	26
47	New insights in biodegradation of organic pollutants. <i>Bioresource Technology</i> , 2022, 347, 126737.	4.8	8
48	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy. <i>International Journal of Food Microbiology</i> , 2022, 365, 109538.	2.1	49
49	Effect of rice husk and palm tree-based biochar addition on the anaerobic digestion of food waste/sludge. <i>Fuel</i> , 2022, 315, 123188.	3.4	14
50	Breakthrough in hydrolysis of waste biomass by physico-chemical pretreatment processes for efficient anaerobic digestion. <i>Chemosphere</i> , 2022, 294, 133617.	4.2	26
51	Integrated approaches to mitigate threats from emerging potentially toxic elements: A way forward for sustainable environmental management. <i>Environmental Research</i> , 2022, 209, 112844.	3.7	25
52	Carbon-based catalyst for environmental bioremediation and sustainability: Updates and perspectives on techno-economics and life cycle assessment. <i>Environmental Research</i> , 2022, 209, 112793.	3.7	18
53	Hydrogen economy and storage by nanoporous microalgae diatom: Special emphasis on designing photobioreactors. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42099-42121.	3.8	13
54	Lignin-Mediated Silver Nanoparticle Synthesis for Photocatalytic Degradation of Reactive Yellow 4G and In Vitro Assessment of Antioxidant, Antidiabetic, and Antibacterial Activities. <i>Polymers</i> , 2022, 14, 648.	2.0	13

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55	Organic solid waste: Biorefinery approach as a sustainable strategy in circular bioeconomy. <i>Bioresource Technology</i> , 2022, 349, 126835.	4.8	43
56	Latest trends and developments in microalgae as potential source for biofuels: The case of diatoms. <i>Fuel</i> , 2022, 314, 122738.	3.4	28
57	Employing newly developed plastic bubble wrap technique for biofuel production from diatoms cultivated in discarded plastic waste. <i>Science of the Total Environment</i> , 2022, 823, 153667.	3.9	15
58	Circular bioeconomy perspective of agro-waste-based biochar. , 2022, , 223-243.		1
59	Developing Microbial Co-Culture System for Enhanced Polyhydroxyalkanoates (PHA) Production Using Acid Pretreated Lignocellulosic Biomass. <i>Polymers</i> , 2022, 14, 726.	2.0	11
60	Microbiological insights into anaerobic digestion for biogas, hydrogen or volatile fatty acids (VFAs): a review. <i>Bioengineered</i> , 2022, 13, 6521-6557.	1.4	107
61	Exploring the role of microbial biofilm for industrial effluents treatment. <i>Bioengineered</i> , 2022, 13, 6420-6440.	1.4	19
62	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater. <i>Bioengineered</i> , 2022, 13, 8115-8134.	1.4	23
63	Biosurfactants: Potential and Eco-Friendly Material for Sustainable Agriculture and Environmental Safety—A Review. <i>Agronomy</i> , 2022, 12, 662.	1.3	86
64	Immobilization of <i>Chlorella sorokiniana</i> AK-1 in bacterial cellulose by co-culture and its application in wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104286.	2.7	8
65	Micro- and nanoplastics removal mechanisms in wastewater treatment plants: A review. <i>Journal of Hazardous Materials Advances</i> , 2022, 6, 100070.	1.2	26
66	Sustainable strategies for combating hydrocarbon pollution: Special emphasis on mobil oil bioremediation. <i>Science of the Total Environment</i> , 2022, 832, 155083.	3.9	16
67	Genetic modifications associated with sustainability aspects for sustainable developments. <i>Bioengineered</i> , 2022, 13, 9509-9521.	1.4	15
68	Microalgal drugs: A promising therapeutic reserve for the future. <i>Journal of Biotechnology</i> , 2022, 349, 32-46.	1.9	21
69	Comparison of degradation kinetics of tannery wastewater treatment using a nonlinear model by salt-tolerant <i>Nitrosomonas</i> sp. and <i>Nitrobacter</i> sp.. <i>Bioresource Technology</i> , 2022, 351, 127000.	4.8	9
70	Transiting from the inhibited steady-state to the steady-state through the ammonium bicarbonate mediation in the anaerobic digestion of low-C/N-ratio food wastes. <i>Bioresource Technology</i> , 2022, 351, 127046.	4.8	8
71	Valorization of citrus peel waste for the sustainable production of value-added products. <i>Bioresource Technology</i> , 2022, 351, 127064.	4.8	36
72	Mycoremediation of lignocellulosic biorefinery sludge: A reinvigorating approach for organic contaminants remediation with simultaneous production of lignocellulolytic enzyme cocktail. <i>Bioresource Technology</i> , 2022, 351, 127012.	4.8	5

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73	Biochar-based composites for remediation of polluted wastewater and soil environments: Challenges and prospects. <i>Chemosphere</i> , 2022, 297, 134163.	4.2	57
74	Novel insight on ferric ions addition to mitigate recalcitrant formation during thermal-alkali hydrolysis to enhance biomethanation. <i>Science of the Total Environment</i> , 2022, 829, 154621.	3.9	15
75	New Insights in factors affecting ground water quality with focus on health risk assessment and remediation techniques. <i>Environmental Research</i> , 2022, 212, 113171.	3.7	28
76	A critical review on microbes-based treatment strategies for mitigation of toxic pollutants. <i>Science of the Total Environment</i> , 2022, 834, 155444.	3.9	28
77	Sustainable management of municipal solid waste through waste-to-energy technologies. <i>Bioresource Technology</i> , 2022, 355, 127247.	4.8	60
78	Deciphering the blackbox of omics approaches and artificial intelligence in food waste transformation and mitigation. <i>International Journal of Food Microbiology</i> , 2022, 372, 109691.	2.1	13
79	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives. <i>Bioresource Technology</i> , 2022, 355, 127303.	4.8	50
80	Efficient removal of tar employing dolomite catalyst in gasification: Challenges and opportunities. <i>Science of the Total Environment</i> , 2022, 836, 155721.	3.9	16
81	Influence of C/N ratios on treatment performance and biomass production during co-culture of microalgae and activated sludge. <i>Science of the Total Environment</i> , 2022, 837, 155832.	3.9	19
82	A techno-economic approach for eliminating dye pollutants from industrial effluent employing microalgae through microbial fuel cells: Barriers and perspectives. <i>Environmental Research</i> , 2022, 212, 113454.	3.7	15
83	Nanocellulose in tissue engineering and bioremediation: mechanism of action. <i>Bioengineered</i> , 2022, 13, 12823-12833.	1.4	5
84	Sustainable treatment of dye wastewater by recycling microalgal and diatom biogenic materials: Biorefinery perspectives. <i>Chemosphere</i> , 2022, 305, 135371.	4.2	31
85	Exploring bacterial communities through metagenomics during bioremediation of polycyclic aromatic hydrocarbons from contaminated sediments. <i>Science of the Total Environment</i> , 2022, 842, 156794.	3.9	9
86	The effects of sulfite pretreatment on the biodegradability and solubilization of primary sludge: Biochemical methane potential, kinetics, and potential implications. <i>Separation and Purification Technology</i> , 2022, 297, 121439.	3.9	11
87	Biorefinery of anaerobic digestate in a circular bioeconomy: Opportunities, challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112642.	8.2	28
88	Mitigation of NH ₃ and N ₂ O emissions during food waste digestate composting at C/N ratio 15 using zeolite amendment. <i>Bioresource Technology</i> , 2022, 359, 127465.	4.8	21
89	Prospective review on bioelectrochemical systems for wastewater treatment: Achievements, hindrances and role in sustainable environment. <i>Science of the Total Environment</i> , 2022, 841, 156691.	3.9	13
90	Circular bioeconomy for resource recovery from wastewaters using algae-based technologies. , 2022, , 217-236.		2

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91	Trends and advances in bioenergy production and sustainable solid waste management. Energy and Environment, 2021, 32, 1059-1085.	2.7	11
92	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. Energy and Environment, 2021, 32, 1029-1058.	2.7	27
93	Conversion of waste plastics into low emissive hydrocarbon fuel using catalyst produced from biowaste. Environmental Science and Pollution Research, 2021, 28, 63638-63645.	2.7	9
94	Valorization of cassava waste for pullulan production by <i>Aureobasidium pullulans</i> MTCC 1991. Energy and Environment, 2021, 32, 1086-1102.	2.7	11
95	Petroleum sludge polluted soil remediation: Integrated approach involving novel bacterial consortium and nutrient application. Science of the Total Environment, 2021, 763, 142934.	3.9	30
96	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. Bioresource Technology, 2021, 319, 124213.	4.8	52
97	Bio-membrane based integrated systems for nitrogen recovery in wastewater treatment: Current applications and future perspectives. Chemosphere, 2021, 265, 129076.	4.2	24
98	Can biochar regulate the fate of heavy metals (Cu and Zn) resistant bacteria community during the poultry manure composting?. Journal of Hazardous Materials, 2021, 406, 124593.	6.5	59
99	Trends in dye industry effluent treatment and recovery of value added products. Journal of Water Process Engineering, 2021, 39, 101734.	2.6	92
100	Bioaugmentation of <i>Pseudomonas aeruginosa</i> NCIM 5514 – A novel oily waste degrader for treatment of petroleum hydrocarbons. Bioresource Technology, 2021, 319, 124240.	4.8	58
101	Sustainable mitigation of heavy metals from effluents: Toxicity and fate with recent technological advancements. Bioengineered, 2021, 12, 7297-7313.	1.4	42
102	Electrochemical technologies for wastewater treatment and resource reclamation. , 2021, , 381-389.		1
103	Petroleum waste biorefinery: A way towards circular economy. , 2021, , 375-389.		3
104	Municipal solid waste biorefineries: A case study in China. , 2021, , 439-457.		6
105	Bioplastic production from renewable lignocellulosic feedstocks: a review. Reviews in Environmental Science and Biotechnology, 2021, 20, 167-187.	3.9	33
106	Semi-batch cultivation of <i>Chlorella sorokiniana</i> AK-1 with dual carriers for the effective treatment of full strength piggyery wastewater treatment. Bioresource Technology, 2021, 326, 124773.	4.8	40
107	Valorization of Dairy Wastes: Integrative Approaches for Value Added Products. Indian Journal of Microbiology, 2021, 61, 270-278.	1.5	41
108	Sustainable processing of food waste for production of bio-based products for circular bioeconomy. Bioresource Technology, 2021, 325, 124684.	4.8	166

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109	Engineering interventions in enzyme production: Lab to industrial scale. <i>Bioresource Technology</i> , 2021, 326, 124771.	4.8	31
110	Biopolymer production using volatile fatty acids as resource: Effect of feast-famine strategy and lignin reinforcement. <i>Bioresource Technology</i> , 2021, 326, 124736.	4.8	9
111	Evaluation and comparison of the microbial consortia enriched by gamma-caprolactone and N-Acyl homoserine lactones for effective quorum sensing disruption. <i>International Biodeterioration and Biodegradation</i> , 2021, 159, 105200.	1.9	10
112	Effective removal of Cr(VI) ions from synthetic solution using mixed biomasses: Kinetic, equilibrium and thermodynamic study. <i>Journal of Water Process Engineering</i> , 2021, 40, 101905.	2.6	30
113	Sequential presence of heavy metal resistant fungal communities influenced by biochar amendment in the poultry manure composting process. <i>Journal of Cleaner Production</i> , 2021, 291, 125947.	4.6	43
114	Current research trends on micro- and nano-plastics as an emerging threat to global environment: A review. <i>Journal of Hazardous Materials</i> , 2021, 409, 124967.	6.5	147
115	A review on algal-bacterial symbiotic system for effective treatment of wastewater. <i>Chemosphere</i> , 2021, 271, 129540.	4.2	121
116	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. <i>Chemosphere</i> , 2021, 271, 129519.	4.2	53
117	Emerging prospects of macro- and microalgae as prebiotic. <i>Microbial Cell Factories</i> , 2021, 20, 112.	1.9	68
118	A critical review on various feedstocks as sustainable substrates for biosurfactants production: a way towards cleaner production. <i>Microbial Cell Factories</i> , 2021, 20, 120.	1.9	124
119	A review on biosurfactants: properties, applications and current developments. <i>Bioresource Technology</i> , 2021, 330, 124963.	4.8	164
120	Bioremediation and Circular Biotechnology. <i>Indian Journal of Microbiology</i> , 2021, 61, 235-236.	1.5	8
121	Biocatalytic remediation of industrial pollutants for environmental sustainability: Research needs and opportunities. <i>Chemosphere</i> , 2021, 272, 129936.	4.2	55
122	Conversion food waste and sawdust into compost employing black soldier fly larvae (diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	4.2	22
123	Current understanding of the inhibition factors and their mechanism of action for the lignocellulosic biomass hydrolysis. <i>Bioresource Technology</i> , 2021, 332, 125042.	4.8	116
124	Critical review on technological advancements for effective waste management of municipal solid waste " Updates and way forward. <i>Environmental Technology and Innovation</i> , 2021, 23, 101749.	3.0	43
125	Environmental impacts and greenhouse gas emissions assessment for energy recovery and material recycle of the wastewater treatment plant. <i>Science of the Total Environment</i> , 2021, 784, 147135.	3.9	25
126	Exploiting Microbes in the Petroleum Field: Analyzing the Credibility of Microbial Enhanced Oil Recovery (MEOR). <i>Energies</i> , 2021, 14, 4684.	1.6	19

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127	Anaerobic mixed consortium (AMC) mediated enhanced biosynthesis of silver nano particles (AgNPs) and its application for the removal of phenol. <i>Journal of Hazardous Materials</i> , 2021, 416, 125717.	6.5	39
128	Process parameter studies by central composite design of response surface methodology for lipase activity of newly obtained Actinomycete. <i>Environmental Technology and Innovation</i> , 2021, 23, 101724.	3.0	28
129	Hydroxyapatite-based catalysts derived from food waste digestate for efficient glucose isomerization to fructose. <i>Green Synthesis and Catalysis</i> , 2021, 2, 356-361.	3.7	9
130	Bio-composite of Fe-sludge biochar immobilized with <i>Bacillus Sp.</i> in packed column for bio-adsorption of Methylene blue in a hybrid treatment system: Isotherm and kinetic evaluation. <i>Environmental Technology and Innovation</i> , 2021, 23, 101734.	3.0	21
131	Municipal solid waste as a sustainable resource for energy production: State-of-the-art review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105717.	3.3	132
132	A review on nitrogen dynamics and mitigation strategies of food waste digestate composting. <i>Bioresource Technology</i> , 2021, 334, 125032.	4.8	106
133	Roles and applications of enzymes for resistant pollutants removal in wastewater treatment. <i>Bioresource Technology</i> , 2021, 335, 125278.	4.8	72
134	Microbial fuel cells for remediation of environmental pollutants and value addition: Special focus on coupling diatom microbial fuel cells with photocatalytic and photoelectric fuel cells. <i>Journal of Biotechnology</i> , 2021, 338, 5-19.	1.9	62
135	Optimization of water replacement during leachate recirculation for two-phase food waste anaerobic digestion system with off-gas diversion. <i>Bioresource Technology</i> , 2021, 335, 125234.	4.8	21
136	Nutrient recovery and microalgae biomass production from urine by membrane photobioreactor at low biomass retention times. <i>Science of the Total Environment</i> , 2021, 785, 147423.	3.9	42
137	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.	3.7	35
138	Sustainable aquaculture and animal feed from microalgae – Nutritive value and techno-functional components. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111549.	8.2	79
139	Promoting anaerobic co-digestion of sewage sludge and food waste with different types of conductive materials: Performance, stability, and underlying mechanism. <i>Bioresource Technology</i> , 2021, 337, 125384.	4.8	59
140	Nanobiocatalysts: Advancements and applications in enzyme technology. <i>Bioresource Technology</i> , 2021, 337, 125491.	4.8	38
141	Patterns of heavy metal resistant bacterial community succession influenced by biochar amendment during poultry manure composting. <i>Journal of Hazardous Materials</i> , 2021, 420, 126562.	6.5	58
142	Comparison of characteristics and biocompatibility of green synthesized iron oxide nanoparticles with chemical synthesized nanoparticles. <i>Environmental Research</i> , 2021, 201, 111585.	3.7	42
143	Sustainable approach on removal of toxic metals from electroplating industrial wastewater using dissolved air flotation. <i>Journal of Environmental Management</i> , 2021, 295, 113147.	3.8	37
144	Concentrated solar thermochemical gasification of biomass: Principles, applications, and development. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111484.	8.2	64

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145	Nutrient removal from domestic wastewater: A comprehensive review on conventional and advanced technologies. <i>Journal of Environmental Management</i> , 2021, 296, 113246.	3.8	99
146	Production and beneficial impact of biochar for environmental application: A comprehensive review. <i>Bioresource Technology</i> , 2021, 337, 125451.	4.8	180
147	Detection and removal of poly and perfluoroalkyl polluting substances for sustainable environment. <i>Journal of Environmental Management</i> , 2021, 297, 113336.	3.8	17
148	Processes and prospects on valorizing solid waste for the production of valuable products employing bio-routes: A systematic review. <i>Chemosphere</i> , 2021, 282, 130954.	4.2	68
149	Influence of organic loading rates on treatment performance of membrane bioreactor treating tannery wastewater. <i>Environmental Technology and Innovation</i> , 2021, 24, 101810.	3.0	18
150	Critical review on microbial community during in-situ bioremediation of heavy metals from industrial wastewater. <i>Environmental Technology and Innovation</i> , 2021, 24, 101826.	3.0	65
151	A review on integrated approaches for municipal solid waste for environmental and economical relevance: Monitoring tools, technologies, and strategic innovations. <i>Bioresource Technology</i> , 2021, 342, 125982.	4.8	68
152	Alkali activated persulfate mediated extracellular organic release on enzyme secreting bacterial pretreatment for efficient hydrogen production. <i>Bioresource Technology</i> , 2021, 341, 125810.	4.8	14
153	Biodegradation kinetics of ammonium enriched food waste digestate compost with biochar amendment. <i>Bioresource Technology</i> , 2021, 341, 125871.	4.8	46
154	Lipolytic Nocardiosis for reduction of pollution load in textile industry effluent and SWISS model for structural study of lipase. <i>Bioresource Technology</i> , 2021, 341, 125673.	4.8	15
155	Food waste digestate composting: Feedstock optimization with sawdust and mature compost. <i>Bioresource Technology</i> , 2021, 341, 125759.	4.8	81
156	Current trends and prospects of transforming food waste to biofuels in India. , 2021, , 391-419.		7
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