Rajesh Banu

List of Publications by Year
in descending order

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400	19,403	9254	23514
papers	citations	74 h-index	111 g-index

404	404	404	12956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. Bioresource Technology, 2020, 300, 122724.	4.8	462
2	A review on lignin structure, pretreatments, fermentation reactions and biorefinery potential. Bioresource Technology, 2019, 271, 462-472.	4.8	386
3	An overview of food waste management in developing countries: Current status and future perspective. Journal of Environmental Management, 2015, 157, 220-229.	3.8	366
4	Fermentative hydrogen production from wastewaters: A review and prognosis. International Journal of Hydrogen Energy, 2012, 37, 15632-15642.	3.8	259
5	A comprehensive review on green nanomaterials using biological systems: Recent perception and their future applications. Colloids and Surfaces B: Biointerfaces, 2018, 170, 20-35.	2.5	252
6	Techno-economic assessment of various hydrogen production methods â€“ A review. Bioresource Technology, 2021, 319, 124175.	4.8	249
7	A review on the biosynthesis of metallic nanoparticles (gold and silver) using bio-components of microalgae: Formation mechanism and applications. Enzyme and Microbial Technology, 2016, 95, 28-44.	1.6	234
8	Recent advances in lignocellulosic biomass for biofuels and value-added bioproducts - A critical review. Bioresource Technology, 2022, 344, 126195.	4.8	222
9	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. Green Chemistry, 2017, 19, 44-67.	4.6	216
10	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. Fuel, 2020, 270, 117494.	3.4	216
11	A critical review on anaerobic digestion of microalgae and macroalgae and co-digestion of biomass for enhanced methane generation. Bioresource Technology, 2018, 262, 319-332.	4.8	214
12	A critical review on issues and overcoming strategies for the enhancement of dark fermentative hydrogen production in continuous systems. International Journal of Hydrogen Energy, 2016, 41, 3820-3836.	3.8	194
13	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. Bioresource Technology, 2019, 283, 358-372.	4.8	183
14	A review on biopolymer production via lignin valorization. Bioresource Technology, 2019, 290, 121790.	4.8	180
15	Fermentative hydrogen production using lignocellulose biomass: An overview of pre-treatment methods, inhibitor effects and detoxification experiences. Renewable and Sustainable Energy Reviews, 2017, 77, 28-42.	8.2	176
16	Low temperature thermo-chemical pretreatment of dairy waste activated sludge for anaerobic digestion process. Bioresource Technology, 2012, 103, 415-424.	4.8	175
17	The enhancement of anaerobic biodegradability of waste activated sludge by surfactant mediated biological pretreatment. Bioresource Technology, 2014, 168, 159-166.	4.8	174
18	Anaerobic co-digestion on improving methane production from mixed microalgae (Scenedesmus sp.,) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineering Journal, 2016, 299, 332-341.	6.6	172

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19	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. Bioresource Technology, 2016, 219, 725-737.	4.8	161
20	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. Science of the Total Environment, 2021, 765, 144429.	3.9	159
21	Exploiting antidiabetic activity of silver nanoparticles synthesized using Punica granatum leaves and anticancer potential against human liver cancer cells (HepG2). Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 211-222.	1.9	148
22	Bio-fabrication of silver nanoparticles using the leaf extract of an ancient herbal medicine, dandelion (Taraxacum officinale), evaluation of their antioxidant, anticancer potential, and antimicrobial activity against phytopathogens. Environmental Science and Pollution Research, 2018, 25, 10392-10406.	2.7	147
23	Microalgae based biorefinery promoting circular bioeconomy-techno economic and life-cycle analysis. Bioresource Technology, 2020, 302, 122822.	4.8	147
24	A comprehensive overview on electro-active biofilms, role of exo-electrogens and their microbial niches in microbial fuel cells (MFCs). Chemosphere, 2017, 178, 534-547.	4.2	146
25	Effect of enzyme secreting bacterial pretreatment on enhancement of aerobic digestion potential of waste activated sludge interceded through EDTA. Bioresource Technology, 2013, 150, 210-219.	4.8	141
26	Biogas Production from Organic Waste: Recent Progress and Perspectives. Waste and Biomass Valorization, 2020, 11, 1019-1040.	1.8	141
27	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. Bioresource Technology, 2021, 325, 124685.	4.8	138
28	Microbial electrolysis cell platform for simultaneous waste biorefinery and clean electrofuels generation: Current situation, challenges and future perspectives. Progress in Energy and Combustion Science, 2017, 63, 119-145.	15.8	137
29	Biowaste-to-bioplastic (polyhydroxyalkanoates): Conversion technologies, strategies, challenges, and perspective. Bioresource Technology, 2021, 326, 124733.	4.8	134
30	Lignocellulosic biomass-based pyrolysis: A comprehensive review. Chemosphere, 2022, 286, 131824.	4.2	129
31	Anti-diabetic Potential of Silver Nanoparticles Synthesized with Argyreia nervosa Leaf Extract High Synergistic Antibacterial Activity with Standard Antibiotics Against Foodborne Bacteria. Journal of Cluster Science, 2017, 28, 1709-1727.	1.7	128
32	Lignocellulosic biomass based biorefinery: A successful platform towards circular bioeconomy. Fuel, 2021, 302, 121086.	3.4	127
33	Updates on the pretreatment of lignocellulosic feedstocks for bioenergy productionâ€“a review. Biomass Conversion and Biorefinery, 2018, 8, 471-483.	2.9	126
34	Intracranial infectious aneurysm: Presentation, management and outcome. Journal of the Neurological Sciences, 2007, 256, 3-9.	0.3	121
35	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. Fuel, 2021, 285, 119117.	3.4	121
36	Combined thermo-chemo-sonic disintegration of waste activated sludge for biogas production. Bioresource Technology, 2015, 197, 383-392.	4.8	120

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37	Promoted electromethanosynthesis in a two-chamber microbial electrolysis cells (MECs) containing a hybrid biocathode covered with graphite felt (GF). Chemical Engineering Journal, 2016, 284, 1146-1155.	6.6	119
38	Biomass based hydrogen production by dark fermentation â€" recent trends and opportunities for greener processes. Current Opinion in Biotechnology, 2018, 50, 136-145.	3.3	117
39	Treatment of seafood processing wastewater using upflow microbial fuel cell for power generation and identification of bacterial community in anodic biofilm. Journal of Environmental Management, 2016, 180, 351-358.	3.8	110
40	Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. Renewable and Sustainable Energy Reviews, 2016, 57, 879-891.	8.2	108
41	A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. Chemosphere, 2017, 177, 84-92.	4.2	108
42	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. Energy Conversion and Management, 2017, 141, 390-402.	4.4	107
43	Seaweeds: A resource for marine bionanotechnology. Enzyme and Microbial Technology, 2016, 95, 45-57.	1.6	106
44	Effect of citric acid induced deflocculation on the ultrasonic pretreatment efficiency of dairy waste activated sludge. Ultrasonics Sonochemistry, 2015, 22, 333-340.	3.8	105
45	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. International Journal of Hydrogen Energy, 2019, 44, 1431-1440.	3.8	105
46	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. Renewable and Sustainable Energy Reviews, 2019, 115, 109392.	8.2	103
47	A brief review of anaerobic membrane bioreactors emphasizing recent advancements, fouling issues and future perspectives. Journal of Environmental Management, 2020, 270, 110909.	3.8	101
48	Impacts of microwave pretreatments on the semi-continuous anaerobic digestion of dairy waste activated sludge. Waste Management, 2013, 33, 1119-1127.	3.7	100
49	Anaerobic membrane bioreactors for biohydrogen production: Recent developments, challenges and perspectives. Bioresource Technology, 2018, 269, 452-464.	4.8	100
50	Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery. Fuel, 2019, 254, 115640.	3.4	100
51	Biohydrogen production from industrial wastewater: An overview. Bioresource Technology Reports, 2019, 7, 100287.	1.5	96
52	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products â€" A review. Fuel, 2021, 285, 119053.	3.4	95
53	Hydrogen and methane production via a two-stage processes (H 2 -SBRÂ+ÂCH 4 -UASB) using tequila vinasses. International Journal of Hydrogen Energy, 2014, 39, 19249-19255.	3.8	93
54	Development of artificial neural networks to predict membrane fouling in an anoxic-aerobic membrane bioreactor treating domestic wastewater. Biochemical Engineering Journal, 2018, 133, 47-58.	1.8	93

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55	Surpassing the current limitations of high purity H2 production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. Bioelectrochemistry, 2018, 119, 211-219.	2.4	92
56	Recent advances in commercial biorefineries for lignocellulosic ethanol production: Current status, challenges and future perspectives. Bioresource Technology, 2022, 344, 126292.	4.8	92
57	Combined treatment of alkaline and disperser for improving solubilization and anaerobic biodegradability of dairy waste activated sludge. Bioresource Technology, 2012, 126, 107-116.	4.8	91
58	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. Bioresource Technology, 2017, 241, 525-536.	4.8	91
59	Biohydrogen production from rice straw: Effect of combinative pretreatment, modelling assessment and energy balance consideration. International Journal of Hydrogen Energy, 2019, 44, 2203-2215.	3.8	90
60	Bioelectrochemical systems using microalgae â€“ A concise research update. Chemosphere, 2017, 177, 35-43.	4.2	88
61	Nutrient removal in an A2O-MBR reactor with sludge reduction. Bioresource Technology, 2009, 100, 3820-3824.	4.8	87
62	Profitable ultrasonic assisted microwave disintegration of sludge biomass: Modelling of biomethanation and energy parameter analysis. Bioresource Technology, 2018, 254, 203-213.	4.8	87
63	Research perspectives on constraints, prospects and opportunities in biohydrogen production. International Journal of Hydrogen Energy, 2017, 42, 27471-27481.	3.8	85
64	Treatment of dairy wastewater using anaerobic and solar photocatalytic methods. Solar Energy, 2008, 82, 812-819.	2.9	84
65	Influence of deflocculation on microwave disintegration and anaerobic biodegradability of waste activated sludge. Bioresource Technology, 2015, 185, 194-201.	4.8	84
66	Improving the biogas production performance of municipal waste activated sludge via disperser induced microwave disintegration. Bioresource Technology, 2016, 217, 21-27.	4.8	84
67	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. International Journal of Biological Macromolecules, 2019, 128, 391-400.	3.6	84
68	Pretreatment of kenaf (Hibiscus cannabinus L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. Bioresource Technology, 2019, 282, 75-80.	4.8	84
69	Influence of thermal hydrolysis pretreatment on physicochemical properties and anaerobic biodegradability of waste activated sludge with different solids content. Waste Management, 2019, 85, 214-221.	3.7	84
70	Enhancing the functional and economical efficiency of a novel combined thermo chemical disperser disintegration of waste activated sludge for biogas production. Bioresource Technology, 2014, 173, 32-41.	4.8	82
71	Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation of mixed microalgae consortia. International Journal of Hydrogen Energy, 2016, 41, 21628-21640.	3.8	82
72	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. Bioresource Technology, 2017, 244, 1341-1348.	4.8	79

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73	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. Renewable and Sustainable Energy Reviews, 2017, 70, 589-597.	8.2	79
74	Thermophilic anaerobic digestion of model organic wastes: Evaluation of biomethane production and multiple kinetic models analysis. Bioresource Technology, 2019, 280, 269-276.	4.8	76
75	Effect of sonically induced deflocculation on the efficiency of ozone mediated partial sludge disintegration for improved production of biogas. Ultrasonics Sonochemistry, 2015, 26, 241-248.	3.8	75
76	Enhancement of biogas production from microalgal biomass through cellulolytic bacterial pretreatment. Bioresource Technology, 2017, 233, 34-43.	4.8	75
77	Dispersion induced ozone pretreatment of waste activated biosolids: Arriving biomethanation modelling parameters, energetic and cost assessment. Bioresource Technology, 2017, 244, 679-687.	4.8	75
78	Synergistic effect and biodegradation kinetics of sewage sludge and food waste mesophilic anaerobic co-digestion and the underlying stimulation mechanisms. Fuel, 2019, 253, 40-49.	3.4	75
79	Enhancing the anaerobic digestion potential of dairy waste activated sludge by two step sono-alkalization pretreatment. Ultrasonics Sonochemistry, 2014, 21, 1065-1074.	3.8	74
80	A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. Bioresource Technology, 2019, 287, 121427.	4.8	74
81	Biohythane production from food processing wastes â€“ Challenges and perspectives. Bioresource Technology, 2020, 298, 122449.	4.8	72
82	Treatment of poultry slaughterhouse wastewater in upflow anaerobic filter under low upflow velocity. International Journal of Environmental Science and Technology, 2011, 8, 149-158.	1.8	71
83	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. Bioresource Technology, 2020, 302, 122821.	4.8	71
84	Synergetic effect of combined pretreatment for energy efficient biogas generation. Bioresource Technology, 2017, 232, 235-246.	4.8	70
85	Liquefaction of food waste and its impacts on anaerobic biodegradability, energy ratio and economic feasibility. Applied Energy, 2017, 208, 228-238.	5.1	70
86	Food waste valorization: Biofuels and value added product recovery. Bioresource Technology Reports, 2020, 11, 100524.	1.5	70
87	Impact of pretreatment on food waste for biohydrogen production: A review. International Journal of Hydrogen Energy, 2020, 45, 18211-18225.	3.8	69
88	Impact of thermo-chemo-sonic pretreatment in solubilizing waste activated sludge for biogas production: Energetic analysis and economic assessment. Bioresource Technology, 2016, 219, 479-486.	4.8	68
89	Pretreatment technologies for industrial effluents: Critical review on bioenergy production and environmental concerns. Journal of Environmental Management, 2018, 218, 165-180.	3.8	68
90	Microbial electrohydrogenesis linked to dark fermentation as integrated application for enhanced biohydrogen production: A review on process characteristics, experiences and lessons. Bioresource Technology, 2018, 251, 381-389.	4.8	68

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91	Impervious and influence in the liquid fuel production from municipal plastic waste through thermo-chemical biomass conversion technologies - A review. Science of the Total Environment, 2020, 718, 137287.	3.9	68
92	Algal-based system for removal of emerging pollutants from wastewater: A review. Bioresource Technology, 2022, 344, 126245.	4.8	68
93	Effect of deflocculation on the efficiency of low-energy microwave pretreatment and anaerobic biodegradation of waste activated sludge. Applied Energy, 2015, 145, 104-110.	5.1	66
94	Accelerating the sludge disintegration potential of a novel bacterial strain Planococcus jake 01 by CaCl2 induced deflocculation. Bioresource Technology, 2015, 175, 396-405.	4.8	66
95	HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. Bioresource Technology, 2016, 206, 188-194.	4.8	66
96	Exploiting fruit byproducts for eco-friendly nanosynthesis: CitrusÂÃ—Âclementina peel extract mediated fabrication of silver nanoparticles with high efficacy against microbial pathogens and rat glial tumor C6 cells. Environmental Science and Pollution Research, 2018, 25, 10250-10263.	2.7	66
97	Waste-to-wealth for valorization of food waste to hydrogen and methane towards creating a sustainable ideal source of bioenergy. Journal of Cleaner Production, 2016, 122, 29-41.	4.6	65
98	Synergetic pretreatment of algal biomass through H2O2 induced microwave in acidic condition for biohydrogen production. Fuel, 2019, 253, 833-839.	3.4	64
99	Bioelectricity generation and effect studies from organic rich chocolaterie wastewater using continuous upflow anaerobic microbial fuel cell. Fuel, 2019, 251, 224-232.	3.4	64
100	A review on chemical mechanism of microalgae flocculation via polymers. Biotechnology Reports (Amsterdam, Netherlands), 2019, 21, e00302.	2.1	64
101	Architectural engineering of bioelectrochemical systems from the perspective of polymeric membrane separators: A comprehensive update on recent progress and future prospects. Journal of Membrane Science, 2018, 564, 508-522.	4.1	63
102	Pretreatment and hydrolysis methods for recovery of fermentable sugars from de-oiled Jatropha waste. Bioresource Technology, 2013, 145, 275-279.	4.8	61
103	Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. Journal of Bioscience and Bioengineering, 2015, 120, 155-160.	1.1	61
104	Enhancement of sludge anaerobic biodegradability by combined microwave-H2O2 pretreatment in acidic conditions. Environmental Science and Pollution Research, 2016, 23, 13467-13479.	2.7	61
105	Fenton mediated ultrasonic disintegration of sludge biomass: Biodegradability studies, energetic assessment, and its economic viability. Bioresource Technology, 2016, 221, 1-8.	4.8	61
106	Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass. Chemosphere, 2021, 281, 130886.	4.2	61
107	Effect of deflocculation on the efficiency of disperser induced dairy waste activated sludge disintegration and treatment cost. Bioresource Technology, 2014, 167, 151-158.	4.8	60
108	Surfactant assisted disperser pretreatment on the liquefaction of Ulva reticulata and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling. Bioresource Technology, 2018, 255, 116-122.	4.8	60

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109	Effect of hydraulic retention time (HRT) on biohydrogen production from galactose in an up-flow anaerobic sludge blanket reactor. International Journal of Hydrogen Energy, 2016, 41, 21670-21677.	3.8	59
110	Improving the amenability of municipal waste activated sludge for biological pretreatment by phase-separated sludge disintegration method. Bioresource Technology, 2014, 169, 700-706.	4.8	58
111	Novel insights into scalability of biosurfactant combined microwave disintegration of sludge at alkali pH for achieving profitable bioenergy recovery and net profit. Bioresource Technology, 2018, 267, 281-290.	4.8	58
112	A review on the factors influencing biohydrogen production from lactate: The key to unlocking enhanced dark fermentative processes. Bioresource Technology, 2021, 324, 124595.	4.8	57
113	Lignocellulosic biomass as an optimistic feedstock for the production of biofuels as valuable energy source: Techno-economic analysis, Environmental Impact Analysis, Breakthrough and Perspectives. Environmental Technology and Innovation, 2021, 24, 102080.	3.0	57
114	Energy-efficient methane production from macroalgal biomass through chemo disperser liquefaction. Bioresource Technology, 2017, 228, 156-163.	4.8	56
115	H2O2 induced cost effective microwave disintegration of dairy waste activated sludge in acidic environment for efficient biomethane generation. Bioresource Technology, 2017, 244, 688-697.	4.8	56
116	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. Bioresource Technology, 2020, 298, 122378.	4.8	55
117	A critical review on limitations and enhancement strategies associated with biohydrogen production. International Journal of Hydrogen Energy, 2021, 46, 16565-16590.	3.8	55
118	Effect of chemo-mechanical disintegration on sludge anaerobic digestion for enhanced biogas production. Environmental Science and Pollution Research, 2016, 23, 2402-2414.	2.7	54
119	Current trends and prospects in microalgae-based bioenergy production. Journal of Environmental Chemical Engineering, 2020, 8, 104025.	3.3	54
120	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. Bioresource Technology, 2020, 314, 123800.	4.8	54
121	Marsilea spp.â€"A novel source of lignocellulosic biomass: Effect of solubilized lignin on anaerobic biodegradability and cost of energy products. Bioresource Technology, 2018, 255, 220-228.	4.8	53
122	Synthesis of Î³-valerolactone (GVL) and their applications for lignocellulosic deconstruction for sustainable green biorefineries. Fuel, 2021, 303, 121333.	3.4	52
123	Treatment of domestic wastewater using upflow anaerobic sludge blanket reactor. International Journal of Environmental Science and Technology, 2007, 4, 363-370.	1.8	51
124	Effects of 5-hydromethylfurfural, levulinic acid and formic acid, pretreatment byproducts of biomass, on fermentative H2 production from glucose and galactose. International Journal of Hydrogen Energy, 2014, 39, 16885-16890.	3.8	51
125	Enhancement of aerobic biodegradability potential of municipal waste activated sludge by ultrasonic aided bacterial disintegration. Bioresource Technology, 2016, 200, 161-169.	4.8	51
126	Low temperature thermochemical mediated energy and economically efficient biological disintegration of sludge: Simulation and prediction studies for anaerobic biodegradation. Chemical Engineering Journal, 2017, 317, 481-492.	6.6	51

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127	Effect of NaCl induced floc disruption on biological disintegration of sludge for enhanced biogas production. Bioresource Technology, 2015, 192, 807-811.	4.8	50
128	Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. International Journal of Hydrogen Energy, 2017, 42, 26440-26453.	3.8	50
129	Cultivation of microalgal biomass using swine manure for biohydrogen production: Impact of dilution ratio and pretreatment. Bioresource Technology, 2018, 260, 16-22.	4.8	50
130	Renewable hydrogen production from biomass and wastes (ReBioH2-2020). Bioresource Technology, 2021, 331, 125024.	4.8	50
131	Valorization of agricultural residues: Different biorefinery routes. Journal of Environmental Chemical Engineering, 2021, 9, 105435.	3.3	50
132	Effects of side-stream, low temperature phosphorus recovery on the performance of anaerobic/anoxic/oxic systems integrated with sludge pretreatment. Bioresource Technology, 2013, 140, 376-384.	4.8	49
133	Solubilization of municipal sewage waste activated sludge by novel lytic bacterial strains. Environmental Science and Pollution Research, 2014, 21, 2733-2743.	2.7	49
134	Impact of pH control and heat pre-treatment ofÂseed inoculum in dark H 2 fermentation: AÂfeasibility report using mixed microalgae biomass as feedstock. International Journal of Hydrogen Energy, 2016, 41, 4382-4392.	3.8	49
135	Effects of various dilute acid pretreatments on the biochemical hydrogen production potential of marine macroalgal biomass. International Journal of Hydrogen Energy, 2017, 42, 27600-27606.	3.8	49
136	Effects of concentration and gas flow rate on the removal of gas-phase toluene and xylene mixture in a compost biofilter. Bioresource Technology, 2018, 248, 28-35.	4.8	49
137	Optimized transesterification reaction for efficient biodiesel production using Indian oil sardine fish as feedstock. Fuel, 2019, 253, 921-929.	3.4	49
138	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy. International Journal of Food Microbiology, 2022, 365, 109538.	2.1	49
139	Telovelar approach: technical issues for large fourth ventricle tumors. Child's Nervous System, 2007, 23, 555-558.	0.6	48
140	Effect of organic loading rate on electricity generating potential of upflow anaerobic microbial fuel cell treating surgical cotton industry wastewater. Journal of Environmental Chemical Engineering, 2017, 5, 1021-1026.	3.3	48
141	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. Critical Reviews in Biotechnology, 2018, 38, 868-882.	5.1	48
142	Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery. Bioresource Technology, 2019, 289, 121624.	4.8	47
143	Biological pretreatment of non-flocculated sludge augments the biogas production in the anaerobic digestion of the pretreated waste activated sludge. Environmental Technology (United Kingdom), 2013, 34, 2113-2123.	1.2	46
144	Effect of surfactant assisted sonic pretreatment on liquefaction of fruits and vegetable residue: Characterization, acidogenesis, biomethane yield and energy ratio. Bioresource Technology, 2018, 264, 35-41.	4.8	46

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145	Trends and resource recovery in biological wastewater treatment system. Bioresource Technology Reports, 2019, 7, 100235.	1.5	46
146	Integrated biorefinery routes of biohydrogen: Possible utilization of acidogenic fermentative effluent. Bioresource Technology, 2021, 319, 124241.	4.8	46
147	Improved microbial conversion of de-oiled Jatropha waste into biohydrogen via inoculum pretreatment: process optimization by experimental design approach. Biofuel Research Journal, 0, , 209-214.	7.2	46
148	Achieving profitable biological sludge disintegration through phase separation and predicting its anaerobic biodegradability by non linear regression model. Chemical Engineering Journal, 2015, 279, 478-487.	6.6	45
149	Alleviation of environmental stress in plants: The role of beneficial Pseudomonas spp.. Critical Reviews in Environmental Science and Technology, 2017, 47, 372-407.	6.6	45
150	Biological disintegration of microalgae for biomethane recovery-prediction of biodegradability and computation of energy balance. Bioresource Technology, 2017, 244, 1367-1375.	4.8	44
151	Surfactant coupled sonic pretreatment of waste activated sludge for energetically positive biogas generation. Bioresource Technology, 2017, 241, 710-719.	4.8	44
152	Impact of light on microalgal photosynthetic microbial fuel cells and removal of pollutants by nanoadsorbent biopolymers: Updates, challenges and innovations. Chemosphere, 2022, 288, 132589.	4.2	44
153	Effect of thermochemical sludge pretreatment on sludge reduction and on performances of anoxicâ€aerobic membrane bioreactor treating low strength domestic wastewater. Journal of Chemical Technology and Biotechnology, 2009, 84, 1350-1355.	1.6	43
154	Combined pretreatment of electrolysis and ultra-sonication towards enhancing solubilization and methane production from mixed microalgae biomass. Bioresource Technology, 2017, 245, 196-200.	4.8	43
155	A hybrid constructed wetland for organic-material and nutrient removal from sewage: Process performance and multi-kinetic models. Journal of Environmental Management, 2018, 222, 378-384.	3.8	43
156	Phosphorus removal in low alkalinity secondary effluent using alum. International Journal of Environmental Science and Technology, 2008, 5, 93-98.	1.8	42
157	Recent advances on biogranules formation in dark hydrogen fermentation system: Mechanism of formation and microbial characteristics. Bioresource Technology, 2018, 268, 787-796.	4.8	42
158	Energetically efficient microwave disintegration of waste activated sludge for biofuel production by zeolite: Quantification of energy and biodegradability modelling. International Journal of Hydrogen Energy, 2019, 44, 2274-2288.	3.8	42
159	Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies. Bioresource Technology, 2021, 322, 124470.	4.8	42
160	Enhancing aerobic digestion potential of municipal waste-activated sludge through removal of extracellular polymeric substance. Environmental Science and Pollution Research, 2014, 21, 1112-1123.	2.7	41
161	Electricity generation from retting wastewater consisting of recalcitrant compounds using continuous upflow microbial fuel cell. Biotechnology and Bioprocess Engineering, 2015, 20, 753-759.	1.4	41
162	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) asÂsubstrate. International Journal of Hydrogen Energy, 2016, 41, 17896-17906.	3.8	41

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163	Biofuel production from Macroalgae: present scenario and future scope. Bioengineered, 2021, 12, 9216-9238.	1.4	41
164	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. Chemosphere, 2017, 175, 350-355.	4.2	40
165	Biohydrogen production integrated with an external dynamic membrane: A novel approach. International Journal of Hydrogen Energy, 2017, 42, 27543-27549.	3.8	40
166	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuelâ€"A review. Science of the Total Environment, 2020, 749, 142218.	3.9	40
167	Enhancement of anaerobic degradation of sludge biomass through surfactant-assisted bacterial hydrolysis. Chemical Engineering Research and Design, 2016, 99, 207-215.	2.7	39
168	Disperser-induced bacterial disintegration of partially digested anaerobic sludge for efficient biomethane recovery. Chemical Engineering Journal, 2018, 347, 165-172.	6.6	39
169	Effect of ferrous sulphate on nitrification during simultaneous phosphorus removal from domestic wastewater using a laboratory scale anoxic/oxic reactor. World Journal of Microbiology and Biotechnology, 2008, 24, 2981-2986.	1.7	38
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