S Venkata Mohan

List of Publications by Year
in descending order

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388 papers	22,352 citations	5876 81 h-index	16605 123 g-index
397 all docs	397 docs citations	397 times ranked	13522 citing authors

#	Article	IF	Citations
1	Waste biorefinery models towards sustainable circular bioeconomy: Critical review and future perspectives. Bioresource Technology, 2016, 215, 2-12.	4.8	635
2	Food waste biorefinery: Sustainable strategy for circular bioeconomy. Bioresource Technology, 2018, 248, 2-12.	4.8	504
3	Effect of various pretreatment methods on anaerobic mixed microflora to enhance biohydrogen production utilizing dairy wastewater as substrate. Bioresource Technology, 2008, 99, 59-67.	4.8	352
4	Metals removal and recovery in bioelectrochemical systems: A review. Bioresource Technology, 2015, 195, 102-114.	4.8	318
5	Microbial fuel cell: Critical factors regulating bio-catalyzed electrochemical process and recent advancements. Renewable and Sustainable Energy Reviews, 2014, 40, 779-797.	8.2	310
6	Adsorptive removal of direct azo dye from aqueous phase onto coal based sorbents: a kinetic and mechanistic study. Journal of Hazardous Materials, 2002, 90, 189-204.	6.5	289
7	Acidogenic fermentation of food waste for volatile fatty acid production with co-generation of biohydrogen. Bioresource Technology, 2015, 182, 103-113.	4.8	284
8	A Circular Bioeconomy with Biobased Products from CO 2 Sequestration. Trends in Biotechnology, 2016, 34, 506-519.	4.9	237
9	Anaerobic biohydrogen production from dairy wastewater treatment in sequencing batch reactor (AnSBR): Effect of organic loading rate. Enzyme and Microbial Technology, 2007, 41, 506-515.	1.6	234
10	Biological and Bioelectrochemical Recovery of Critical and Scarce Metals. Trends in Biotechnology, 2016, 34, 137-155.	4.9	234
11	Heterotrophic microalgae cultivation to synergize biodiesel production with waste remediation: Progress and perspectives. Bioresource Technology, 2015, 184, 169-178.	4.8	224
12	Treatment of simulated Reactive Yellow 22 (Azo) dye effluents using Spirogyra species. Waste Management, 2002, 22, 575-582.	3.7	222
13	Bio-electrochemical treatment of distillery wastewater in microbial fuel cell facilitating decolorization and desalination along with power generation. Journal of Hazardous Materials, 2010, 177, 487-494.	6.5	222
14	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. Bioresource Technology, 2016, 215, 173-185.	4.8	202
15	Bioelectricity production from wastewater treatment in dual chambered microbial fuel cell (MFC) using selectively enriched mixed microflora: Effect of catholyte. Bioresource Technology, 2008, 99, 596-603.	4.8	196
16	Estimation of heavy metals in drinking water and development of heavy metal pollution index. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1996, 31, 283-289.	0.1	195
17	Bioremediation technologies for treatment of PAH-contaminated soil and strategies to enhance process efficiency. Reviews in Environmental Science and Biotechnology, 2006, 5, 347-374.	3.9	186
18	Heterotrophic cultivation of mixed microalgae for lipid accumulation and wastewater treatment during sequential growth and starvation phases: Effect of nutrient supplementation. Renewable Energy, 2012, 43, 276-283.	4.3	186

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19	Microbial catalyzed electrochemical systems: A bio-factory with multi-facet applications. Bioresource Technology, 2014, 165, 355-364.	4.8	184
20	Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling. Renewable and Sustainable Energy Reviews, 2016, 53, 462-476.	8.2	180
21	Bioelectricity generation from chemical wastewater treatment in mediatorless (anode) microbial fuel cell (MFC) using selectively enriched hydrogen producing mixed culture under acidophilic microenvironment. Biochemical Engineering Journal, 2008, 39, 121-130.	1.8	179
22	Acid azo dye degradation by free and immobilized horseradish peroxidase (HRP) catalyzed process. Chemosphere, 2005, 58, 1097-1105.	4.2	171
23	Bio-catalyzed electrochemical treatment of real field dairy wastewater with simultaneous power generation. Biochemical Engineering Journal, 2010, 51, 32-39.	1.8	168
24	Harnessing of biohydrogen from wastewater treatment using mixed fermentative consortia: Process evaluation towards optimizationâ˜†. International Journal of Hydrogen Energy, 2009, 34, 7460-7474.	3.8	167
25	Effect of anodic pH microenvironment on microbial fuel cell (MFC) performance in concurrence with aerated and ferricyanide catholytes. Electrochemistry Communications, 2009, 11, 371-375.	2.3	167
26	Biohydrogen production from chemical wastewater treatment in biofilm configured reactor operated in periodic discontinuous batch mode by selectively enriched anaerobic mixed consortia. Water Research, 2007, 41, 2652-2664.	5.3	155
27	Removal of fluoride from aqueous phase by biosorption onto algal biosorbent Spirogyra sp.-IO2: Sorption mechanism elucidation. Journal of Hazardous Materials, 2007, 141, 465-474.	6.5	153
28	Utilizing acid-rich effluents of fermentative hydrogen production process as substrate for harnessing bioelectricity: An integrative approach. International Journal of Hydrogen Energy, 2010, 35, 3440-3449.	3.8	141
29	Self-induced bio-potential and graphite electron accepting conditions enhances petroleum sludge degradation in bio-electrochemical system with simultaneous power generation. Bioresource Technology, 2011, 102, 9532-9541.	4.8	141
30	Salinity stress induced lipid synthesis to harness biodiesel during dual mode cultivation of mixotrophic microalgae. Bioresource Technology, 2014, 165, 288-294.	4.8	141
31	Biohydrogen production from chemical wastewater as substrate by selectively enriched anaerobic mixed consortia: Influence of fermentation pH and substrate composition. International Journal of Hydrogen Energy, 2007, 32, 2286-2295.	3.8	137
32	Influence of aerobic and anoxic microenvironments on polyhydroxyalkanoates (PHA) production from food waste and acidogenic effluents using aerobic consortia. Bioresource Technology, 2012, 103, 313-321.	4.8	137
33	Renewable hydrogen production by dark-fermentation: Current status, challenges and perspectives. Bioresource Technology, 2021, 321, 124354.	4.8	135
34	Integrated function of microbial fuel cell (MFC) as bio-electrochemical treatment system associated with bioelectricity generation under higher substrate load. Biosensors and Bioelectronics, 2009, 24, 2021-2027.	5.3	133
35	Food and agricultural wastes as substrates for bioelectrochemical system (BES): The synchronized recovery of sustainable energy and waste treatment. Food Research International, 2015, 73, 213-225.	2.9	132
36	Bioaugmentation of an anaerobic sequencing batch biofilm reactor (AnSBBR) with immobilized sulphate reducing bacteria (SRB) for the treatment of sulphate bearing chemical wastewater. Process Biochemistry, 2005, 40, 2849-2857.	1.8	131

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37	Microalgae-biorefinery with cascading resource recovery design associated to dairy wastewater treatment. Bioresource Technology, 2019, 284, 424-429.	4.8	131
38	Effect of substrate load and nutrients concentration on the polyhydroxyalkanoates (PHA) production using mixed consortia through wastewater treatment. Bioresource Technology, 2012, 114, 573-582.	4.8	129
39	Can circular bioeconomy be fueled by waste biorefineries â€" A closer look. Bioresource Technology Reports, 2019, 7, 100277.	1.5	125
40	Regulatory function of organic carbon supplementation on biodiesel production during growth and nutrient stress phases of mixotrophic microalgae cultivation. Bioresource Technology, 2014, 165, 279-287.	4.8	124
41	Influence of anodic biofilm growth on bioelectricity production in single chambered mediatorless microbial fuel cell using mixed anaerobic consortia. Biosensors and Bioelectronics, 2008, 24, 41-47.	5.3	122
42	Bio-electrochemical remediation of real field petroleum sludge as an electron donor with simultaneous power generation facilitates biotransformation of PAH: Effect of substrate concentration. Bioresource Technology, 2012, 110, 517-525.	4.8	121
43	Solid phase microbial fuel cell (SMFC) for harnessing bioelectricity from composite food waste fermentation: Influence of electrode assembly and buffering capacity. Bioresource Technology, 2011, 102, 7077-7085.	4.8	117
44	Biochemical evaluation of bioelectricity production process from anaerobic wastewater treatment in a single chambered microbial fuel cell (MFC) employing glass wool membrane. Biosensors and Bioelectronics, 2008, 23, 1326-1332.	5.3	114
45	Biodiesel production from isolated oleaginous fungi Aspergillus sp. using corncob waste liquor as a substrate. Bioresource Technology, 2011, 102, 9286-9290.	4.8	114
46	Sustainable multistage process for enhanced productivity of bioplastics from waste remediation through aerobic dynamic feeding strategy: Process integration for up-scaling. Bioresource Technology, 2015, 188, 231-239.	4.8	114
47	Adsorptive removal of phthalate ester (Di-ethyl phthalate) from aqueous phase by activated carbon: A kinetic study. Journal of Hazardous Materials, 2007, 146, 278-282.	6.5	113
48	Sustainable power generation from floating macrophytes based ecological microenvironment through embedded fuel cells along with simultaneous wastewater treatment. Bioresource Technology, 2011, 102, 7036-7042.	4.8	112
49	Fatty acid rich effluent from acidogenic biohydrogen reactor as substrate for lipid accumulation in heterotrophic microalgae with simultaneous treatment. Bioresource Technology, 2012, 123, 627-635.	4.8	111
50	Acidogenic fermentation of vegetable based market waste to harness biohydrogen with simultaneous stabilization. Bioresource Technology, 2009, 100, 3061-3068.	4.8	109
51	Laccase production by Pleurotus ostreatus 1804: Optimization of submerged culture conditions by Taguchi DOE methodology. Biochemical Engineering Journal, 2005, 24, 17-26.	1.8	108
52	Positive anodic poised potential regulates microbial fuel cell performance with the function of open and closed circuitry. Bioresource Technology, 2010, 101, 5337-5344.	4.8	107
53	CO2 supplementation to domestic wastewater enhances microalgae lipid accumulation under mixotrophic microenvironment: Effect of sparging period and interval. Bioresource Technology, 2012, 112, 116-123.	4.8	106
54	Algal biorefinery models with self-sustainable closed loop approach: Trends and prospective for blue-bioeconomy. Bioresource Technology, 2020, 295, 122128.	4.8	106

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55	Composite vegetable waste as renewable resource for bioelectricity generation through non-catalyzed open-air cathode microbial fuel cell. Bioresource Technology, 2010, 101, 970-976.	4.8	104
56	SARS-CoV-2 in environmental perspective: Occurrence, persistence, surveillance, inactivation and challenges. Chemical Engineering Journal, 2021, 405, 126893.	6.6	104
57	Bio-electrocatalytic reduction of CO2: Enrichment of homoacetogens and pH optimization towards enhancement of carboxylic acids biosynthesis. Journal of CO2 Utilization, 2015, 10, 78-87.	3.3	103
58	Harnessing of bioelectricity in microbial fuel cell (MFC) employing aerated cathode through anaerobic treatment of chemical wastewater using selectively enriched hydrogen producing mixed consortia. Fuel, 2008, 87, 2667-2676.	3.4	102
59	Canteen based composite food waste as potential anodic fuel for bioelectricity generation in single chambered microbial fuel cell (MFC): Bio-electrochemical evaluation under increasing substrate loading condition. International Journal of Hydrogen Energy, 2011, 36, 6210-6218.	3.8	102
60	Simultaneous biohydrogen production and wastewater treatment in biofilm configured anaerobic periodic discontinuous batch reactor using distillery wastewater. International Journal of Hydrogen Energy, 2008, 33, 550-558.	3.8	101
61	Electrogenic activity and electron losses under increasing organic load of recalcitrant pharmaceutical wastewater. International Journal of Hydrogen Energy, 2012, 37, 5969-5978.	3.8	100
62	Algal biocathode for in situ terminal electron acceptor (TEA) production: Synergetic association of bacteriaâ€“microalgae metabolism for the functioning of biofuel cell. Bioresource Technology, 2014, 166, 566-574.	4.8	100
63	Effect of Anodic Metabolic Function on Bioelectricity Generation and Substrate Degradation in Single Chambered Microbial Fuel Cell. Environmental Science & Technology, 2008, 42, 8088-8094.	4.6	99
64	Continuous mode operation of microbial fuel cell (MFC) stack with dual gas diffusion cathode design for the treatment of dark fermentation effluent. International Journal of Hydrogen Energy, 2015, 40, 12424-12435.	3.8	99
65	Saccharomyces cerevisiae as anodic biocatalyst for power generation in biofuel cell: Influence of redox condition and substrate load. Bioresource Technology, 2011, 102, 2751-2757.	4.8	98
66	Bioaugmentation of an electrochemically active strain to enhance the electron discharge of mixed culture: process evaluation through electro-kinetic analysis. RSC Advances, 2012, 2, 677-688.	1.7	98
67	Adsorptive removal of fluoride from aqueous phase using waste fungus (Pleurotus ostreatus 1804) biosorbent: Kinetics evaluation. Ecological Engineering, 2007, 31, 47-56.	1.6	97
68	Fermentative effluents from hydrogen producing bioreactor as substrate for poly(Î²-OH) butyrate production with simultaneous treatment: An integrated approach. Bioresource Technology, 2010, 101, 9382-9386.	4.8	97
69	Waste Biorefinery: A New Paradigm for a Sustainable Bioelectro Economy. Trends in Biotechnology, 2016, 34, 852-855.	4.9	95
70	Biosorption of fluoride from aqueous phase onto algal Spirogyra IO1 and evaluation of adsorption kinetics. Bioresource Technology, 2007, 98, 1006-1011.	4.8	94
71	Regulation of acidogenic metabolism towards enhanced short chain fatty acid biosynthesis from waste: metagenomic profiling. RSC Advances, 2016, 6, 18641-18653.	1.7	93
72	Mixotrophic operation of photo-bioelectrocatalytic fuel cell under anoxygenic microenvironment enhances the light dependent bioelectrogenic activity. Bioresource Technology, 2012, 109, 46-56.	4.8	92

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73	Microcrystalline cellulose production from sugarcane bagasse: Sustainable process development and life cycle assessment. Journal of Cleaner Production, 2020, 249, 119342.	4.6	91
74	Highly efficient sulfonated polybenzimidazole as a proton exchange membrane for microbial fuel cells. Journal of Power Sources, 2016, 317, 143-152.	4.0	90
75	Microbial electrosynthesis of carboxylic acids through CO 2 reduction with selectively enriched biocatalyst: Microbial dynamics. Journal of CO2 Utilization, 2017, 20, 190-199.	3.3	90
76	Low carbon hydrogen production from a waste-based biorefinery system and environmental sustainability assessment. Green Chemistry, 2021, 23, 561-574.	4.6	90
77	Laccase-membrane reactors for decolorization of an acid azo dye in aqueous phase: Process optimization. Water Research, 2009, 43, 3647-3658.	5.3	89
78	Optimization of critical factors to enhance polyhydroxyalkanoates (PHA) synthesis by mixed culture using Taguchi design of experimental methodology. Bioresource Technology, 2013, 128, 409-416.	4.8	87
79	Potential of mixed microalgae to harness biodiesel from ecological water-bodies with simultaneous treatment. Bioresource Technology, 2011, 102, 1109-1117.	4.8	86
80	Nitrogen doped graphene supported Î±-MnO₂nanorods for efficient ORR in a microbial fuel cell. RSC Advances, 2016, 6, 110091-110101.	1.7	86
81	Bio-electrolytic conversion of acidogenic effluents to biohydrogen: An integration strategy for higher substrate conversion and product recovery. Bioresource Technology, 2013, 133, 322-331.	4.8	85
82	Dual gas diffusion cathode design for microbial fuel cell (<scp>MFC</scp>): optimizing the suitable mode of operation in terms of bioelectrochemical and bioelectroâ€kinetic evaluation. Journal of Chemical Technology and Biotechnology, 2016, 91, 624-639.	1.6	85
83	Rhizosphere mediated electrogenesis with the function of anode placement for harnessing bioenergy through CO2 sequestration. Bioresource Technology, 2012, 124, 364-370.	4.8	83
84	Temperature induced stress influence on biodiesel productivity during mixotrophic microalgae cultivation with wastewater. Bioresource Technology, 2014, 169, 789-793.	4.8	83
85	Aerobic remediation of petroleum sludge through soil supplementation: Microbial community analysis. Journal of Hazardous Materials, 2011, 197, 80-87.	6.5	82
86	Solid phase bio-electrofermentation of food waste to harvest value-added products associated with waste remediation. Waste Management, 2015, 45, 57-65.	3.7	82
87	Endocrine disruptive estrogens role in electron transfer: Bio-electrochemical remediation with microbial mediated electrogenesis. Bioresource Technology, 2012, 104, 547-556.	4.8	81
88	Treatment of complex chemical wastewater in a sequencing batch reactor (SBR) with an aerobic suspended growth configuration. Process Biochemistry, 2005, 40, 1501-1508.	1.8	78
89	Self-immobilization of acidogenic mixed consortia on mesoporous material (SBA-15) and activated carbon to enhance fermentative hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 6133-6142.	3.8	78
90	Biosorption of direct azo dye from aqueous phase onto Spirogyra sp. I02: Evaluation of kinetics and mechanistic aspects. Biochemical Engineering Journal, 2008, 38, 61-69.	1.8	77

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91	Evaluation of the potential of various aquatic eco-systems in harnessing bioelectricity through benthic fuel cell: Effect of electrode assembly and water characteristics. Bioresource Technology, 2009, 100, 2240-2246.	4.8	77
92	Biobased Products and Life Cycle Assessment in the Context of Circular Economy and Sustainability. Materials Circular Economy, 2020, 2, 1.	1.6	77
93	Micro/nano-plastics occurrence, identification, risk analysisÂandÂmitigation: challenges and perspectives. Reviews in Environmental Science and Biotechnology, 2022, 21, 169-203.	3.9	77
94	Biocatalyst behavior under self-induced electrogenic microenvironment in comparison with anaerobic treatment: Evaluation with pharmaceutical wastewater for multi-pollutant removal. Bioresource Technology, 2011, 102, 10784-10793.	4.8	75
95	Microaerophilic microenvironment at biocathode enhances electrogenesis with simultaneous synthesis of polyhydroxyalkanoates (PHA) in bioelectrochemical system (BES). Bioresource Technology, 2012, 125, 291-299.	4.8	75
96	Acidogenic spent wash valorization through polyhydroxyalkanoate (PHA) synthesis coupled with fermentative biohydrogen production. Bioresource Technology, 2014, 158, 336-342.	4.8	75
97	Development of exoelectrogenic bioanode and study on feasibility of hydrogen production using abiotic VITO-CoREâ„¢ and VITO-CASEâ„¢ electrodes in a single chamber microbial electrolysis cell (MEC) at low current densities. Bioresource Technology, 2015, 195, 131-138.	4.8	75
98	Influence of terminal electron acceptor availability to the anodic oxidation on the electrogenic activity of microbial fuel cell (MFC). Bioresource Technology, 2012, 123, 480-487.	4.8	74
99	Carbon based nanotubes and nanopowder as impregnated electrode structures for enhanced power generation: Evaluation with real field wastewater. Applied Energy, 2012, 95, 31-37.	5.1	74
100	Electrofermentation of food waste â€“ Regulating acidogenesis towards enhanced volatile fatty acids production. Chemical Engineering Journal, 2018, 334, 1709-1718.	6.6	73
101	Modified conductive polyaniline-carbon nanotube composite electrodes for bioelectricity generation and waste remediation. Bioresource Technology, 2019, 284, 148-154.	4.8	73
102	A study on trace elemental composition of atmospheric aerosols at a semi-arid urban site using ICP-MS technique. Atmospheric Environment, 2006, 40, 136-146.	1.9	72
103	Bioaugmentation of microbial communities in laboratory and pilot scale sequencing batch biofilm reactors using the TOL plasmid. Bioresource Technology, 2009, 100, 1746-1753.	4.8	72
104	Pre-aeration of food waste to augment acidogenic process at higher organic load: Valorizing biohydrogen, volatile fatty acids and biohythane. Bioresource Technology, 2017, 242, 68-76.	4.8	72
105	Phosphatase and dehydrogenase activities in anodic chamber of single chamber microbial fuel cell (MFC) at variable substrate loading conditions. Bioelectrochemistry, 2010, 77, 125-132.	2.4	71
106	Surveillance of SARS-CoV-2 spread using wastewater-based epidemiology: Comprehensive study. Science of the Total Environment, 2021, 768, 144704.	3.9	71
107	Controlling Voltage Reversal in Microbial Fuel Cells. Trends in Biotechnology, 2020, 38, 667-678.	4.9	70
108	Anaerobic treatment of complex chemical wastewater in a sequencing batch biofilm reactor: Process optimization and evaluation of factor interactions using the Taguchi dynamic DOE methodology. Biotechnology and Bioengineering, 2005, 90, 732-745.	1.7	69

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109	Regulatory function of divalent cations in controlling the acidogenic biohydrogen production process. RSC Advances, 2012, 2, 6576.	1.7	69
110	Degradation of chlorpyrifos contaminated soil by bioslurry reactor operated in sequencing batch mode: bioprocess monitoring. Journal of Hazardous Materials, 2004, 116, 39-48.	6.5	68
111	Pre-fermentation of waste as a strategy to enhance the performance of single chambered microbial fuel cell (MFC). International Journal of Hydrogen Energy, 2011, 36, 13753-13762.	3.8	68
112	Deoiled algal cake as feedstock for dark fermentative biohydrogen production: An integrated biorefinery approach. International Journal of Hydrogen Energy, 2014, 39, 9573-9579.	3.8	68
113	Acetate and butyrate as substrates for hydrogen production through photo-fermentation: Process optimization and combined performance evaluationâ˜†. International Journal of Hydrogen Energy, 2009, 34, 7513-7522.	3.8	67
114	Sorptive removal of endocrine-disruptive compound (estriol, E3) from aqueous phase by batch and column studies: Kinetic and mechanistic evaluation. Journal of Hazardous Materials, 2009, 164, 820-828.	6.5	66
115	Multiple process integrations for broad perspective analysis of fermentative H2 production from wastewater treatment: Technical and environmental considerations. Applied Energy, 2013, 107, 244-254.	5.1	66
116	Color removal of monoazo acid dye from aqueous solution by adsorption and chemical coagulation. Environmental Engineering and Policy, 1998, 1, 149-154.	0.1	65
117	Bioelectrogenic role of anoxic microbial anode in the treatment of chemical wastewater: Microbial dynamics with bioelectro-characterization. Water Research, 2015, 70, 52-63.	5.3	65
118	Bioslurry phase remediation of chlorpyrifos contaminated soil: Process evaluation and optimization by Taguchi design of experimental (DOE) methodology. Ecotoxicology and Environmental Safety, 2007, 68, 252-262.	2.9	64
119	Enhanced wastewater treatment efficiency through microbially catalyzed oxidation and reduction: Synergistic effect of biocathode microenvironment. Bioresource Technology, 2011, 102, 10210-10220.	4.8	64
120	Change in electrogenic activity of the microbial fuel cell (MFC) with the function of biocathode microenvironment as terminal electron accepting condition: Influence on overpotentials and bio-electro kinetics. Bioresource Technology, 2012, 119, 241-251.	4.8	64
121	Pseudomonas otitidis as a potential biocatalyst for polyhydroxyalkanoates (PHA) synthesis using synthetic wastewater and acidogenic effluents. Bioresource Technology, 2012, 123, 471-479.	4.8	63
122	Microalgal community and their growth conditions influence biohydrogen production during integration of dark-fermentation and photo-fermentation processes. International Journal of Hydrogen Energy, 2011, 36, 12211-12219.	3.8	62
123	Valorization of fatty acid waste for bioplastics production using Bacillus tequilensis: Integration with dark-fermentative hydrogen production process. International Journal of Hydrogen Energy, 2014, 39, 7616-7626.	3.8	62
124	Upscaling of biohydrogen production process in semi-pilot scale biofilm reactor: Evaluation with food waste at variable organic loads. International Journal of Hydrogen Energy, 2014, 39, 7587-7596.	3.8	62
125	Synergistic interaction of biocatalyst with bio-anode as a function of electrode materials. International Journal of Hydrogen Energy, 2011, 36, 2271-2280.	3.8	61
126	Induced catabolic bio-electrohydrolysis of complex food waste by regulating external resistance for enhancing acidogenic biohydrogen production. Bioresource Technology, 2014, 165, 372-382.	4.8	61

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127	Bio-electrohydrolysis as a pretreatment strategy to catabolize complex food waste in closed circuitry: Function of electron flux to enhance acidogenic biohydrogen production. International Journal of Hydrogen Energy, 2014, 39, 11411-11422.	3.8	61
128	Simulated acid azo dye (Acid black 210) wastewater treatment by periodic discontinuous batch mode operation under anoxicâ€“aerobicâ€“anoxic microenvironment conditions. Ecological Engineering, 2007, 31, 242-250.	1.6	60
129	Behavior of single chambered mediatorless microbial fuel cell (MFC) at acidophilic, neutral and alkaline microenvironments during chemical wastewater treatmentâ˜†. International Journal of Hydrogen Energy, 2009, 34, 7547-7554.	3.8	59
130	Removal of natural and synthetic endocrine disrupting estrogens by multi-walled carbon nanotubes (MWCNT) as adsorbent: Kinetic and mechanistic evaluation. Separation and Purification Technology, 2012, 87, 22-30.	3.9	59
131	Single-stage fermentation process for high-value biohythane production with the treatment of distillery spent-wash. Bioresource Technology, 2015, 189, 177-185.	4.8	59
132	Enhancing biohydrogen production through sewage supplementation of composite vegetable based market waste. International Journal of Hydrogen Energy, 2010, 35, 533-541.	3.8	58
133	Selective enrichment of electrogenic bacteria for fuel cell application: Enumerating microbial dynamics using MiSeq platform. Bioresource Technology, 2016, 213, 146-154.	4.8	58
134	Microalgae mediated bio-electrocatalytic fuel cell facilitates bioelectricity generation through oxygenic photomixotrophic mechanism. Bioresource Technology, 2013, 136, 644-653.	4.8	57
135	Ecologically engineered submerged and emergent macrophyte based system: An integrated eco-electrogenic design for harnessing power with simultaneous wastewater treatment. Ecological Engineering, 2013, 51, 181-190.	1.6	57
136	Relative effect of bioaugmentation with electrochemically active and non-active bacteria on bioelectrogenesis in microbial fuel cell. Bioresource Technology, 2013, 146, 696-703.	4.8	57
137	Ex situ bioremediation of pyrene contaminated soil in bio-slurry phase reactor operated in periodic discontinuous batch mode: Influence of bioaugmentation. International Biodeterioration and Biodegradation, 2008, 62, 162-169.	1.9	55
138	Influence of carbohydrates and proteins concentration on fermentative hydrogen production using canteen based waste under acidophilic microenvironment. Journal of Biotechnology, 2011, 155, 387-395.	1.9	55
139	Firmicutes with iron dependent hydrogenase drive hydrogen production in anaerobic bioreactor using distillery wastewater. International Journal of Hydrogen Energy, 2011, 36, 8234-8242.	3.8	55
140	Prolonged applied potential to anode facilitate selective enrichment of bio-electrochemically active Proteobacteria for mediating electron transfer: Microbial dynamics and bio-catalytic analysis. Bioresource Technology, 2013, 137, 160-170.	4.8	55
141	Bioaugmentation of potent acidogenic isolates: A strategy for enhancing biohydrogen production at elevated organic load. Bioresource Technology, 2014, 165, 223-232.	4.8	55
142	Microalgal Cell Biofactoryâ€”Therapeutic, Nutraceutical and Functional Food Applications. Plants, 2021, 10, 836.	1.6	55
143	Influence of recirculation on the performance of anaerobic sequencing batch biofilm reactor (AnSBBR) treating hypersaline composite chemical wastewater. Bioresource Technology, 2007, 98, 1373-1379.	4.8	54
144	Effect of substrate loading rate of chemical wastewater on fermentative biohydrogen production in biofilm configured sequencing batch reactor. Bioresource Technology, 2008, 99, 6941-6948.	4.8	54

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145	Optimization and evaluation of fermentative hydrogen production and wastewater treatment processes using data enveloping analysis (DEA) and Taguchi design of experimental (DOE) methodology. International Journal of Hydrogen Energy, 2009, 34, 216-226.	3.8	53
146	Selective control of volatile fatty acids production from food waste by regulating biosystem buffering: A comprehensive study. Chemical Engineering Journal, 2019, 357, 787-801.	6.6	53
147	Deoiled algal biomass derived renewable sugars for bioethanol and biopolymer production in biorefinery framework. Bioresource Technology, 2020, 296, 122315.	4.8	53
148	Electro-fermentation of real-field acidogenic spent wash effluents for additional biohydrogen production with simultaneous treatment in a microbial electrolysis cell. Separation and Purification Technology, 2015, 150, 308-315.	3.9	52
149	Medium-Chain Fatty Acids (MCFA) Production Through Anaerobic Fermentation Using Clostridium kluyveri: Effect of Ethanol and Acetate. Applied Biochemistry and Biotechnology, 2018, 185, 594-605.	1.4	52
150	Obscure yet Promising Oleaginous Yeasts for Fuel and Chemical Production. Trends in Biotechnology, 2020, 38, 873-887.	4.9	52
151	Lipid accumulation for biodiesel production by oleaginous fungus Aspergillus awamori: Influence of critical factors. Fuel, 2014, 116, 509-515.	3.4	51
152	Integrating sequencing batch reactor with bio-electrochemical treatment for augmenting remediation efficiency of complex petrochemical wastewater. Bioresource Technology, 2015, 188, 33-42.	4.8	51
153	Retrofitting hetrotrophically cultivated algae biomass as pyrolytic feedstock for biogas, bio-char and bio-oil production encompassing biorefinery. Bioresource Technology, 2015, 178, 132-138.	4.8	51
154	Critical parametric influence on microalgae cultivation towards maximizing biomass growth with simultaneous lipid productivity. Renewable Energy, 2016, 98, 64-71.	4.3	51
155	Harnessing of biohydrogen by acidogenic fermentation of Citrus limetta peelings: Effect of extraction procedure and pretreatment of biocatalyst. International Journal of Hydrogen Energy, 2009, 34, 6149-6156.	3.8	50
156	Regulation of biohydrogen production by heat-shock pretreatment facilitates selective enrichment of Clostridium sp.. International Journal of Hydrogen Energy, 2014, 39, 7572-7586.	3.8	50
157	Bio-electrocatalyzed electron efflux in Gram positive and Gram negative bacteria: an insight into disparity in electron transfer kinetics. RSC Advances, 2014, 4, 34045-34055.	1.7	50
158	Nutritional mode influences lipid accumulation in microalgae with the function of carbon sequestration and nutrient supplementation. Bioresource Technology, 2013, 142, 278-286.	4.8	49
159	Hydrothermal liquefaction of biogenic municipal solid waste under reduced H2 atmosphere in biorefinery format. Bioresource Technology, 2020, 310, 123369.	4.8	49
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