

S Venkata Mohan

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388
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#	Paper	IF	Citations
388	Waste biorefinery models towards sustainable circular bioeconomy: Critical review and future perspectives. <i>Bioresource Technology</i> , 2016 , 215, 2-12	11	499
387	Food waste biorefinery: Sustainable strategy for circular bioeconomy. <i>Bioresource Technology</i> , 2018 , 248, 2-12	11	347
386	Effect of various pretreatment methods on anaerobic mixed microflora to enhance biohydrogen production utilizing dairy wastewater as substrate. <i>Bioresource Technology</i> , 2008 , 99, 59-67	11	310
385	Metals removal and recovery in bioelectrochemical systems: A review. <i>Bioresource Technology</i> , 2015 , 195, 102-14	11	250
384	Adsorptive removal of direct azo dye from aqueous phase onto coal based sorbents: a kinetic and mechanistic study. <i>Journal of Hazardous Materials</i> , 2002 , 90, 189-204	12.8	250
383	Microbial fuel cell: Critical factors regulating bio-catalyzed electrochemical process and recent advancements. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 40, 779-797	16.2	244
382	Acidogenic fermentation of food waste for volatile fatty acid production with co-generation of biohydrogen. <i>Bioresource Technology</i> , 2015 , 182, 103-113	11	207
381	Bio-electrochemical treatment of distillery wastewater in microbial fuel cell facilitating decolorization and desalination along with power generation. <i>Journal of Hazardous Materials</i> , 2010 , 177, 487-94	12.8	191
380	Biological and Bioelectrochemical Recovery of Critical and Scarce Metals. <i>Trends in Biotechnology</i> , 2016 , 34, 137-155	15.1	187
379	Treatment of simulated Reactive Yellow 22 (azo) dye effluents using Spirogyra species. <i>Waste Management</i> , 2002 , 22, 575-82	8.6	185
378	Heterotrophic microalgae cultivation to synergize biodiesel production with waste remediation: progress and perspectives. <i>Bioresource Technology</i> , 2015 , 184, 169-178	11	183
377	A Circular Bioeconomy with Biobased Products from CO ₂ Sequestration. <i>Trends in Biotechnology</i> , 2016 , 34, 506-519	15.1	182
376	Anaerobic biohydrogen production from dairy wastewater treatment in sequencing batch reactor (AnSBR): Effect of organic loading rate. <i>Enzyme and Microbial Technology</i> , 2007 , 41, 506-515	3.8	181
375	Heterotrophic cultivation of mixed microalgae for lipid accumulation and wastewater treatment during sequential growth and starvation phases: Effect of nutrient supplementation. <i>Renewable Energy</i> , 2012 , 43, 276-283	8.1	165
374	Bioelectricity production from wastewater treatment in dual chambered microbial fuel cell (MFC) using selectively enriched mixed microflora: Effect of catholyte. <i>Bioresource Technology</i> , 2008 , 99, 596-603	11	165
373	Bioelectricity generation from chemical wastewater treatment in mediatorless (anode) microbial fuel cell (MFC) using selectively enriched hydrogen producing mixed culture under acidophilic microenvironment. <i>Biochemical Engineering Journal</i> , 2008 , 39, 121-130	4.2	162
372	Microbial catalyzed electrochemical systems: a bio-factory with multi-facet applications. <i>Bioresource Technology</i> , 2014 , 165, 355-64	11	160

371	Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems. <i>Bioresource Technology</i> , 2016 , 215, 173-185	11	152
370	Bioremediation technologies for treatment of PAH-contaminated soil and strategies to enhance process efficiency. <i>Reviews in Environmental Science and Biotechnology</i> , 2006 , 5, 347-374	13.9	151
369	Harnessing of biohydrogen from wastewater treatment using mixed fermentative consortia: Process evaluation towards optimization?. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7460-7474	6.7	147
368	Bio-catalyzed electrochemical treatment of real field dairy wastewater with simultaneous power generation. <i>Biochemical Engineering Journal</i> , 2010 , 51, 32-39	4.2	147
367	Effect of anodic pH microenvironment on microbial fuel cell (MFC) performance in concurrence with aerated and ferricyanide catholytes. <i>Electrochemistry Communications</i> , 2009 , 11, 371-375	5.1	140
366	Removal of fluoride from aqueous phase by biosorption onto algal biosorbent <i>Spirogyra</i> sp.-IO2: sorption mechanism elucidation. <i>Journal of Hazardous Materials</i> , 2007 , 141, 465-74	12.8	140
365	Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 462-476	16.2	139
364	Acid azo dye degradation by free and immobilized horseradish peroxidase (HRP) catalyzed process. <i>Chemosphere</i> , 2005 , 58, 1097-105	8.4	136
363	Estimation of heavy metals in drinking water and development of heavy metal pollution index. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1996 , 31, 283-289		133
362	Biohydrogen production from chemical wastewater treatment in biofilm configured reactor operated in periodic discontinuous batch mode by selectively enriched anaerobic mixed consortia. <i>Water Research</i> , 2007 , 41, 2652-64	12.5	127
361	Utilizing acid-rich effluents of fermentative hydrogen production process as substrate for harnessing bioelectricity: An integrative approach. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3440-3449	6.7	125
360	Self-induced bio-potential and graphite electron accepting conditions enhances petroleum sludge degradation in bio-electrochemical system with simultaneous power generation. <i>Bioresource Technology</i> , 2011 , 102, 9532-41	11	122
359	Integrated function of microbial fuel cell (MFC) as bio-electrochemical treatment system associated with bioelectricity generation under higher substrate load. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2021-7	11.8	122
358	Biohydrogen production from chemical wastewater as substrate by selectively enriched anaerobic mixed consortia: Influence of fermentation pH and substrate composition. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2286-2295	6.7	122
357	Influence of aerobic and anoxic microenvironments on polyhydroxyalkanoates (PHA) production from food waste and acidogenic effluents using aerobic consortia. <i>Bioresource Technology</i> , 2012 , 103, 313-21	11	117
356	Bioaugmentation of an anaerobic sequencing batch biofilm reactor (AnSBBR) with immobilized sulphate reducing bacteria (SRB) for the treatment of sulphate bearing chemical wastewater. <i>Process Biochemistry</i> , 2005 , 40, 2849-2857	4.8	117
355	Salinity stress induced lipid synthesis to harness biodiesel during dual mode cultivation of mixotrophic microalgae. <i>Bioresource Technology</i> , 2014 , 165, 288-94	11	112
354	Solid phase microbial fuel cell (SMFC) for harnessing bioelectricity from composite food waste fermentation: influence of electrode assembly and buffering capacity. <i>Bioresource Technology</i> , 2011 , 102, 7077-85	11	108

353	Food and agricultural wastes as substrates for bioelectrochemical system (BES): The synchronized recovery of sustainable energy and waste treatment. <i>Food Research International</i> , 2015 , 73, 213-225	7	107
352	Influence of anodic biofilm growth on bioelectricity production in single chambered mediatorless microbial fuel cell using mixed anaerobic consortia. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 41-7	11.8	107
351	Bio-electrochemical remediation of real field petroleum sludge as an electron donor with simultaneous power generation facilitates biotransformation of PAH: effect of substrate concentration. <i>Bioresource Technology</i> , 2012 , 110, 517-25	11	106
350	Effect of substrate load and nutrients concentration on the polyhydroxyalkanoates (PHA) production using mixed consortia through wastewater treatment. <i>Bioresource Technology</i> , 2012 , 114, 573-82	11	105
349	Regulatory function of organic carbon supplementation on biodiesel production during growth and nutrient stress phases of mixotrophic microalgae cultivation. <i>Bioresource Technology</i> , 2014 , 165, 279-87	11	101
348	Fatty acid rich effluent from acidogenic biohydrogen reactor as substrate for lipid accumulation in heterotrophic microalgae with simultaneous treatment. <i>Bioresource Technology</i> , 2012 , 123, 627-35	11	98
347	Positive anodic poised potential regulates microbial fuel cell performance with the function of open and closed circuitry. <i>Bioresource Technology</i> , 2010 , 101, 5337-44	11	98
346	Biochemical evaluation of bioelectricity production process from anaerobic wastewater treatment in a single chambered microbial fuel cell (MFC) employing glass wool membrane. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1326-32	11.8	98
345	Biodiesel production from isolated oleaginous fungi <i>Aspergillus</i> sp. using corncob waste liquor as a substrate. <i>Bioresource Technology</i> , 2011 , 102, 9286-90	11	97
344	Adsorptive removal of phthalate ester (Di-ethyl phthalate) from aqueous phase by activated carbon: a kinetic study. <i>Journal of Hazardous Materials</i> , 2007 , 146, 278-82	12.8	97
343	Acidogenic fermentation of vegetable based market waste to harness biohydrogen with simultaneous stabilization. <i>Bioresource Technology</i> , 2009 , 100, 3061-8	11	96
342	Harnessing of bioelectricity in microbial fuel cell (MFC) employing aerated cathode through anaerobic treatment of chemical wastewater using selectively enriched hydrogen producing mixed consortia. <i>Fuel</i> , 2008 , 87, 2667-2676	7.1	94
341	CO ₂ supplementation to domestic wastewater enhances microalgae lipid accumulation under mixotrophic microenvironment: effect of sparging period and interval. <i>Bioresource Technology</i> , 2012 , 112, 116-23	11	93
340	Bio-electrocatalytic reduction of CO ₂ : Enrichment of homoacetogens and pH optimization towards enhancement of carboxylic acids biosynthesis. <i>Journal of CO₂ Utilization</i> , 2015 , 10, 78-87	7.6	93
339	Effect of anodic metabolic function on bioelectricity generation and substrate degradation in single chambered microbial fuel cell. <i>Environmental Science & Technology</i> , 2008 , 42, 8088-94	10.3	92
338	Laccase production by <i>Pleurotus ostreatus</i> 1804: Optimization of submerged culture conditions by Taguchi DOE methodology. <i>Biochemical Engineering Journal</i> , 2005 , 24, 17-26	4.2	92
337	Sustainable multistage process for enhanced productivity of bioplastics from waste remediation through aerobic dynamic feeding strategy: Process integration for up-scaling. <i>Bioresource Technology</i> , 2015 , 188, 231-9	11	91
336	Can circular bioeconomy be fueled by waste biorefineries [A closer look. <i>Bioresource Technology Reports</i> , 2019 , 7, 100277	4.1	90

335	Simultaneous biohydrogen production and wastewater treatment in biofilm configured anaerobic periodic discontinuous batch reactor using distillery wastewater. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 550-558	6.7	90
334	Adsorptive removal of fluoride from aqueous phase using waste fungus (<i>Pleurotus ostreatus</i> 1804) biosorbent: Kinetics evaluation. <i>Ecological Engineering</i> , 2007 , 31, 47-56	3.9	89
333	Bioaugmentation of an electrochemically active strain to enhance the electron discharge of mixed culture: process evaluation through electro-kinetic analysis. <i>RSC Advances</i> , 2012 , 2, 677-688	3.7	87
332	Electrogenic activity and electron losses under increasing organic load of recalcitrant pharmaceutical wastewater. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5969-5978	6.7	87
331	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. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6210-6218	6.7	87
330	Fermentative effluents from hydrogen producing bioreactor as substrate for poly(beta-OH) butyrate production with simultaneous treatment: an integrated approach. <i>Bioresource Technology</i> , 2010 , 101, 9382-6	11	86
329	Composite vegetable waste as renewable resource for bioelectricity generation through non-catalyzed open-air cathode microbial fuel cell. <i>Bioresource Technology</i> , 2010 , 101, 970-6	11	86
328	Laccase-membrane reactors for decolorization of an acid azo dye in aqueous phase: process optimization. <i>Water Research</i> , 2009 , 43, 3647-58	12.5	84
327	<i>Saccharomyces cerevisiae</i> as anodic biocatalyst for power generation in biofuel cell: influence of redox condition and substrate load. <i>Bioresource Technology</i> , 2011 , 102, 2751-7	11	82
326	Biosorption of fluoride from aqueous phase onto algal <i>Spirogyra</i> IO1 and evaluation of adsorption kinetics. <i>Bioresource Technology</i> , 2007 , 98, 1006-11	11	82
325	Microalgae-biorefinery with cascading resource recovery design associated to dairy wastewater treatment. <i>Bioresource Technology</i> , 2019 , 284, 424-429	11	81
324	Continuous mode operation of microbial fuel cell (MFC) stack with dual gas diffusion cathode design for the treatment of dark fermentation effluent. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12424-12435	6.7	79
323	Potential of mixed microalgae to harness biodiesel from ecological water-bodies with simultaneous treatment. <i>Bioresource Technology</i> , 2011 , 102, 1109-17	11	78
322	Algal biocathode for in situ terminal electron acceptor (TEA) production: synergetic association of bacteria-microalgae metabolism for the functioning of biofuel cell. <i>Bioresource Technology</i> , 2014 , 166, 566-74	11	76
321	Waste Biorefinery: A New Paradigm for a Sustainable Bioelectro Economy. <i>Trends in Biotechnology</i> , 2016 , 34, 852-855	15.1	74
320	Regulation of acidogenic metabolism towards enhanced short chain fatty acid biosynthesis from waste: metagenomic profiling. <i>RSC Advances</i> , 2016 , 6, 18641-18653	3.7	74
319	Mixotrophic operation of photo-bioelectrocatalytic fuel cell under anoxygenic microenvironment enhances the light dependent bioelectrogenic activity. <i>Bioresource Technology</i> , 2012 , 109, 46-56	11	74
318	Sustainable power generation from floating macrophytes based ecological microenvironment through embedded fuel cells along with simultaneous wastewater treatment. <i>Bioresource Technology</i> , 2011 , 102, 7036-42	11	74

317	Treatment of complex chemical wastewater in a sequencing batch reactor (SBR) with an aerobic suspended growth configuration. <i>Process Biochemistry</i> , 2005 , 40, 1501-1508	4.8	74
316	Endocrine disruptive estrogens role in electron transfer: bio-electrochemical remediation with microbial mediated electrogenesis. <i>Bioresource Technology</i> , 2012 , 104, 547-56	11	72
315	Optimization of critical factors to enhance polyhydroxyalkanoates (PHA) synthesis by mixed culture using Taguchi design of experimental methodology. <i>Bioresource Technology</i> , 2013 , 128, 409-16	11	71
314	Bio-electrolytic conversion of acidogenic effluents to biohydrogen: an integration strategy for higher substrate conversion and product recovery. <i>Bioresource Technology</i> , 2013 , 133, 322-31	11	70
313	Temperature induced stress influence on biodiesel productivity during mixotrophic microalgae cultivation with wastewater. <i>Bioresource Technology</i> , 2014 , 169, 789-793	11	69
312	Biocatalyst behavior under self-induced electrogenic microenvironment in comparison with anaerobic treatment: evaluation with pharmaceutical wastewater for multi-pollutant removal. <i>Bioresource Technology</i> , 2011 , 102, 10784-93	11	69
311	Algal biorefinery models with self-sustainable closed loop approach: Trends and prospective for blue-bioeconomy. <i>Bioresource Technology</i> , 2020 , 295, 122128	11	69
310	Solid phase bio-electrofermentation of food waste to harvest value-added products associated with waste remediation. <i>Waste Management</i> , 2015 , 45, 57-65	8.6	67
309	Nitrogen doped graphene supported MnO ₂ nanorods for efficient ORR in a microbial fuel cell. <i>RSC Advances</i> , 2016 , 6, 110091-110101	3.7	67
308	Dual gas diffusion cathode design for microbial fuel cell (MFC): optimizing the suitable mode of operation in terms of bioelectrochemical and bioelectro-kinetic evaluation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 624-639	3.5	67
307	Biosorption of direct azo dye from aqueous phase onto <i>Spirogyra</i> sp. I02: Evaluation of kinetics and mechanistic aspects. <i>Biochemical Engineering Journal</i> , 2008 , 38, 61-69	4.2	67
306	Highly efficient sulfonated polybenzimidazole as a proton exchange membrane for microbial fuel cells. <i>Journal of Power Sources</i> , 2016 , 317, 143-152	8.9	67
305	Acidogenic spent wash valorization through polyhydroxyalkanoate (PHA) synthesis coupled with fermentative biohydrogen production. <i>Bioresource Technology</i> , 2014 , 158, 336-42	11	66
304	Influence of terminal electron acceptor availability to the anodic oxidation on the electrogenic activity of microbial fuel cell (MFC). <i>Bioresource Technology</i> , 2012 , 123, 480-7	11	66
303	Rhizosphere mediated electrogenesis with the function of anode placement for harnessing bioenergy through CO ₂ sequestration. <i>Bioresource Technology</i> , 2012 , 124, 364-70	11	66
302	Carbon based nanotubes and nanopowder as impregnated electrode structures for enhanced power generation: Evaluation with real field wastewater. <i>Applied Energy</i> , 2012 , 95, 31-37	10.7	66
301	Aerobic remediation of petroleum sludge through soil supplementation: microbial community analysis. <i>Journal of Hazardous Materials</i> , 2011 , 197, 80-7	12.8	66
300	Evaluation of the potential of various aquatic eco-systems in harnessing bioelectricity through benthic fuel cell: effect of electrode assembly and water characteristics. <i>Bioresource Technology</i> , 2009 , 100, 2240-6	11	66

299	SARS-CoV-2 in environmental perspective: Occurrence, persistence, surveillance, inactivation and challenges. <i>Chemical Engineering Journal</i> , 2021 , 405, 126893	14.7	64
298	A study on trace elemental composition of atmospheric aerosols at a semi-arid urban site using ICP-MS technique. <i>Atmospheric Environment</i> , 2006 , 40, 136-146	5.3	63
297	Phosphatase and dehydrogenase activities in anodic chamber of single chamber microbial fuel cell (MFC) at variable substrate loading conditions. <i>Bioelectrochemistry</i> , 2010 , 77, 125-32	5.6	62
296	Development of exoelectrogenic bioanode and study on feasibility of hydrogen production using abiotic VITO-CoRE and VITO-CASE electrodes in a single chamber microbial electrolysis cell (MEC) at low current densities. <i>Bioresource Technology</i> , 2015 , 195, 131-8	11	61
295	Multiple process integrations for broad perspective analysis of fermentative H ₂ production from wastewater treatment: Technical and environmental considerations. <i>Applied Energy</i> , 2013 , 107, 244-254	10.7	59
294	Enhanced wastewater treatment efficiency through microbially catalyzed oxidation and reduction: synergistic effect of biocathode microenvironment. <i>Bioresource Technology</i> , 2011 , 102, 10210-20	11	59
293	Bioaugmentation of microbial communities in laboratory and pilot scale sequencing batch biofilm reactors using the TOL plasmid. <i>Bioresource Technology</i> , 2009 , 100, 1746-53	11	59
292	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. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 732-45	4.9	59
291	Deoiled algal cake as feedstock for dark fermentative biohydrogen production: An integrated biorefinery approach. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9573-9579	6.7	58
290	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. <i>Bioresource Technology</i> , 2012 , 119, 241-51	11	58
289	Degradation of chlorpyrifos contaminated soil by bioslurry reactor operated in sequencing batch mode: bioprocess monitoring. <i>Journal of Hazardous Materials</i> , 2004 , 116, 39-48	12.8	58
288	Pre-fermentation of waste as a strategy to enhance the performance of single chambered microbial fuel cell (MFC). <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13753-13762	6.7	57
287	Sorptive removal of endocrine-disruptive compound (estriol, E3) from aqueous phase by batch and column studies: kinetic and mechanistic evaluation. <i>Journal of Hazardous Materials</i> , 2009 , 164, 820-8	12.8	57
286	Self-immobilization of acidogenic mixed consortia on mesoporous material (SBA-15) and activated carbon to enhance fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6133-6142	6.7	56
285	Pre-aeration of food waste to augment acidogenic process at higher organic load: Valorizing biohydrogen, volatile fatty acids and biohythane. <i>Bioresource Technology</i> , 2017 , 242, 68-76	11	55
284	Bioelectrogenic role of anoxic microbial anode in the treatment of chemical wastewater: microbial dynamics with bioelectro-characterization. <i>Water Research</i> , 2015 , 70, 52-63	12.5	55
283	<i>Pseudomonas</i> otitidis as a potential biocatalyst for polyhydroxyalkanoates (PHA) synthesis using synthetic wastewater and acidogenic effluents. <i>Bioresource Technology</i> , 2012 , 123, 471-9	11	55
282	Upscaling of biohydrogen production process in semi-pilot scale biofilm reactor: Evaluation with food waste at variable organic loads. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7587-7596	6.7	54

281	Simulated acid azo dye (Acid black 210) wastewater treatment by periodic discontinuous batch mode operation under anoxic-ferobic-oxenic microenvironment conditions. <i>Ecological Engineering</i> , 2007 , 31, 242-250	3.9	54
280	Microbial electrosynthesis of carboxylic acids through CO ₂ reduction with selectively enriched biocatalyst: Microbial dynamics. <i>Journal of CO₂ Utilization</i> , 2017 , 20, 190-199	7.6	53
279	Regulatory function of divalent cations in controlling the acidogenic biohydrogen production process. <i>RSC Advances</i> , 2012 , 2, 6576	3.7	53
278	Acetate and butyrate as substrates for hydrogen production through photo-fermentation: Process optimization and combined performance evaluation. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7513-7522	6.7	53
277	Influence of recirculation on the performance of anaerobic sequencing batch biofilm reactor (AnSBBR) treating hypersaline composite chemical wastewater. <i>Bioresource Technology</i> , 2007 , 98, 1373-91	4.1	53
276	Electrofermentation of food waste [Regulating acidogenesis towards enhanced volatile fatty acids production. <i>Chemical Engineering Journal</i> , 2018 , 334, 1709-1718	14.7	53
275	Single-stage fermentation process for high-value biohythane production with the treatment of distillery spent-wash. <i>Bioresource Technology</i> , 2015 , 189, 177-185	11	51
274	Prolonged applied potential to anode facilitate selective enrichment of bio-electrochemically active Proteobacteria for mediating electron transfer: microbial dynamics and bio-catalytic analysis. <i>Bioresource Technology</i> , 2013 , 137, 160-70	11	51
273	Influence of carbohydrates and proteins concentration on fermentative hydrogen production using canteen based waste under acidophilic microenvironment. <i>Journal of Biotechnology</i> , 2011 , 155, 387-95	3.7	51
272	Bioslurry phase remediation of chlorpyrifos contaminated soil: process evaluation and optimization by Taguchi design of experimental (DOE) methodology. <i>Ecotoxicology and Environmental Safety</i> , 2007 , 68, 252-62	7	51
271	Modified conductive polyaniline-carbon nanotube composite electrodes for bioelectricity generation and waste remediation. <i>Bioresource Technology</i> , 2019 , 284, 148-154	11	50
270	Induced catabolic bio-electrohydrolysis of complex food waste by regulating external resistance for enhancing acidogenic biohydrogen production. <i>Bioresource Technology</i> , 2014 , 165, 372-82	11	50
269	Microalgal community and their growth conditions influence biohydrogen production during integration of dark-fermentation and photo-fermentation processes. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12211-12219	6.7	50
268	Synergistic interaction of biocatalyst with bio-anode as a function of electrode materials. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 2271-2280	6.7	50
267	Enhancing biohydrogen production through sewage supplementation of composite vegetable based market waste. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 533-541	6.7	50
266	Color removal of monoazo acid dye from aqueous solution by adsorption and chemical coagulation. <i>Environmental Engineering and Policy</i> , 1998 , 1, 149-154		50
265	Valorization of fatty acid waste for bioplastics production using <i>Bacillus tequilensis</i> : Integration with dark-fermentative hydrogen production process. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7616-7626	6.7	49
264	Firmicutes with iron dependent hydrogenase drive hydrogen production in anaerobic bioreactor using distillery wastewater. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8234-8242	6.7	49

263	Behavior of single chambered mediatorless microbial fuel cell (MFC) at acidophilic, neutral and alkaline microenvironments during chemical wastewater treatment?. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 7547-7554	6.7	49
262	Microalgae mediated bio-electrocatalytic fuel cell facilitates bioelectricity generation through oxygenic photomixotrophic mechanism. <i>Bioresource Technology</i> , 2013 , 136, 644-53	11	48
261	Optimization and evaluation of fermentative hydrogen production and wastewater treatment processes using data enveloping analysis (DEA) and Taguchi design of experimental (DOE) methodology. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 216-226	6.7	48
260	Bio-electrohydrolysis as a pretreatment strategy to catabolize complex food waste in closed circuitry: Function of electron flux to enhance acidogenic biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11411-11422	6.7	47
259	Effect of substrate loading rate of chemical wastewater on fermentative biohydrogen production in biofilm configured sequencing batch reactor. <i>Bioresource Technology</i> , 2008 , 99, 6941-8	11	47
258	Ex situ bioremediation of pyrene contaminated soil in bio-slurry phase reactor operated in periodic discontinuous batch mode: Influence of bioaugmentation. <i>International Biodeterioration and Biodegradation</i> , 2008 , 62, 162-169	4.8	47
257	Removal of natural and synthetic endocrine disrupting estrogens by multi-walled carbon nanotubes (MWCNT) as adsorbent: Kinetic and mechanistic evaluation. <i>Separation and Purification Technology</i> , 2012 , 87, 22-30	8.3	46
256	Microaerophilic microenvironment at biocathode enhances electrogenesis with simultaneous synthesis of polyhydroxyalkanoates (PHA) in bioelectrochemical system (BES). <i>Bioresource Technology</i> , 2012 , 125, 291-9	11	45
255	Selective enrichment of electrogenic bacteria for fuel cell application: Enumerating microbial dynamics using MiSeq platform. <i>Bioresource Technology</i> , 2016 , 213, 146-154	11	45
254	Bioaugmentation of potent acidogenic isolates: a strategy for enhancing biohydrogen production at elevated organic load. <i>Bioresource Technology</i> , 2014 , 165, 223-32	11	44
253	Microcrystalline cellulose production from sugarcane bagasse: Sustainable process development and life cycle assessment. <i>Journal of Cleaner Production</i> , 2020 , 249, 119342	10.3	44
252	Electro-fermentation of real-field acidogenic spent wash effluents for additional biohydrogen production with simultaneous treatment in a microbial electrolysis cell. <i>Separation and Purification Technology</i> , 2015 , 150, 308-315	8.3	43
251	Relative effect of bioaugmentation with electrochemically active and non-active bacteria on bioelectrogenesis in microbial fuel cell. <i>Bioresource Technology</i> , 2013 , 146, 696-703	11	43
250	Bio-electrocatalyzed electron efflux in Gram positive and Gram negative bacteria: an insight into disparity in electron transfer kinetics. <i>RSC Advances</i> , 2014 , 4, 34045-34055	3.7	42
249	Ecologically engineered submerged and emergent macrophyte based system: An integrated eco-electrogenic design for harnessing power with simultaneous wastewater treatment. <i>Ecological Engineering</i> , 2013 , 51, 181-190	3.9	42
248	Harnessing of biohydrogen by acidogenic fermentation of Citrus limetta peelings: Effect of extraction procedure and pretreatment of biocatalyst. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6149-6156	6.7	42
247	Renewable hydrogen production by dark-fermentation: Current status, challenges and perspectives. <i>Bioresource Technology</i> , 2021 , 321, 124354	11	42
246	Integrating sequencing batch reactor with bio-electrochemical treatment for augmenting remediation efficiency of complex petrochemical wastewater. <i>Bioresource Technology</i> , 2015 , 188, 33-42	11	41

245	Acidic and alkaline shock pretreatment to enrich acidogenic biohydrogen producing mixed culture: long term synergetic evaluation of microbial inventory, dehydrogenase activity and bio-electro kinetics. <i>RSC Advances</i> , 2012 , 2, 6336	3.7	41
244	A rapid and simple protocol for evaluating biohydrogen production potential (BHP) of wastewater with simultaneous process optimization. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3130-3141	6.7	41
243	Bioslurry phase degradation of di-ethyl phthalate (DEP) contaminated soil in periodic discontinuous mode operation: Influence of bioaugmentation and substrate partition. <i>Process Biochemistry</i> , 2006 , 41, 644-652	4.8	41
242	Microalgae cultivation as tertiary unit operation for treatment of pharmaceutical wastewater associated with lipid production. <i>Bioresource Technology</i> , 2016 , 215, 117-122	11	41
241	Low carbon hydrogen production from a waste-based biorefinery system and environmental sustainability assessment. <i>Green Chemistry</i> , 2021 , 23, 561-574	10	41
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