Mohanakrishna G

List of Publications by Year in Descending Order

68 papers	3,577 citations	35 h-index	59 g-index
70 ext. papers	4,015 ext. citations	7.7 avg, IF	5.7 L-index

#	Paper	IF	Citations
68	Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes. *Chemosphere*, **2022**, 287, 132299	8.4	1
67	Impact of electric potential and magnetic fields on power generation in microbial fuel cells treating food waste leachate. *Journal of Water Process Engineering*, **2021**, 40, 101841	6.7	3
66	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. *Fuel*, **2021**, 285, 119104	7.1	10
65	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. *Biotechnology Reports (Amsterdam, Netherlands)*, **2020**, 27, e00478	5.3	6
64	Microbial electrosynthesis feasibility evaluation at high bicarbonate concentrations with enriched homoacetogenic biocathode. *Science of the Total Environment*, **2020**, 715, 137003	10.2	24
63	Advanced Routes of Biological and Bio-electrocatalytic Carbon Dioxide (CO2) Mitigation Toward Carbon Neutrality. *Frontiers in Energy Research*, **2020**, 8,	3.8	17
62	Biorefinery perspectives of microbial electrolysis cells (MECs) for hydrogen and valuable chemicals production through wastewater treatment. *Biofuel Research Journal*, **2020**, 7, 1128-1142	13.9	39
61	Enhanced bioelectrochemical treatment of petroleum refinery wastewater with Labaneh whey as co-substrate. *Scientific Reports*, **2020**, 10, 19665	4.9	13
60	Review on the production of medium and small chain fatty acids through waste valorization and CO fixation. *Bioresource Technology*, **2020**, 309, 123400	11	17
59	Utilization of residual organics of Labaneh whey for renewable energy generation through bioelectrochemical processes: Strategies for enhanced substrate conversion and energy generation. *Bioresource Technology*, **2019**, 286, 121409	11	19
58	Exploitation of Citrus Peel Extract as a Feedstock for Power Generation in Microbial Fuel Cell (MFC). *Indian Journal of Microbiology*, **2019**, 59, 476-481	3.7	12
57	Removal of petroleum hydrocarbons and sulfates from produced water using different bioelectrochemical reactor configurations. *Science of the Total Environment*, **2019**, 665, 820-827	10.2	22
56	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment.. *RSC Advances*, **2019**, 9, 41409-41418	3.7	19
55	Bioelectrogenesis from Raw Algal Biomass Through Microbial Fuel Cells: Effect of Acetate as Co-substrate. *Indian Journal of Microbiology*, **2019**, 59, 22-26	3.7	11
54	Methane as a Substrate for Energy Generation Using Microbial Fuel Cells. *Indian Journal of Microbiology*, **2019**, 59, 121-124	3.7	17
53	Integrated Bioelectrochemical Platforms **2019**, 1037-1058		1
52	Enzymatic Electrosynthesis Toward Value Addition **2019**, 955-973		2

51	Biological anodic oxidation and cathodic reduction reactions for improved bioelectrochemical treatment of petroleum refinery wastewater. *Journal of Cleaner Production*, **2018**, 190, 44-52	10.3	28
50	Impact of dissolved carbon dioxide concentration on the process parameters during its conversion to acetate through microbial electrosynthesis. *Reaction Chemistry and Engineering*, **2018**, 3, 371-378	4.9	42
49	Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. *Bioresource Technology*, **2018**, 253, 16-21	11	55
48	Induced bioelectrochemical metabolism for bioremediation of petroleum refinery wastewater: Optimization of applied potential and flow of wastewater. *Bioresource Technology*, **2018**, 260, 227-232	11	15
47	Surpassing the current limitations of high purity H production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. *Bioelectrochemistry*, **2018**, 119, 211-219	5.6	71
46	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. *Bioresource Technology*, **2018**, 247, 753-758	11	42
45	Anodic Electron Transfer Mechanism in Bioelectrochemical Systems **2018**, 87-100		6
44	Reactor Design for Bioelectrochemical Systems **2018**, 209-227		1
43	Scaling Up of MFCs: Challenges and Case Studies **2018**, 459-481		5
42	Resource Recovery From Wastes and Wastewaters Using Bioelectrochemical Systems **2018**, 535-570		4
41	Spatiometabolic stratification of anoxic biofilm in prototype bioelectrogenic system. *Bioelectrochemistry*, **2017**, 115, 11-18	5.6	23
40	Biotransformation of carbon dioxide in bioelectrochemical systems: State of the art and future prospects. *Journal of Power Sources*, **2017**, 356, 256-273	8.9	152
39	Product Specificity Influenced by Catholyte Conditions during the Microbial Electrosynthesis Process CO2 to Acetate. *Chemie-Ingenieur-Technik*, **2016**, 88, 1253-1253	0.8	
38	Technological advances in CO2 conversion electro-biorefinery: A step toward commercialization. *Bioresource Technology*, **2016**, 215, 357-370	11	129
37	Imperative role of applied potential and inorganic carbon source on acetate production through microbial electrosynthesis. *Journal of CO2 Utilization*, **2016**, 15, 57-64	7.6	73
36	An overview on emerging bioelectrochemical systems (BESs): Technology for sustainable electricity, waste remediation, resource recovery, chemical production and beyond. *Renewable Energy*, **2016**, 98, 153-170	8.1	246
35	Bioprocesses for Waste and Wastewater Remediation for Sustainable Energy **2016**, 537-565		4
34	An enriched electroactive homoacetogenic biocathode for the microbial electrosynthesis of acetate through carbon dioxide reduction. *Faraday Discussions*, **2015**, 183, 445-62	3.6	85

33	Bioelectrochemical Systems (BES) for Microbial Electroremediation: An Advanced Wastewater Treatment Technology **2015**, 145-167		5
32	Multiple process integrations for broad perspective analysis of fermentative H2 production from wastewater treatment: Technical and environmental considerations. *Applied Energy*, **2013**, 107, 244-254	10.7	59
31	Evaluation of voltage sag-regain phases to understand the stability of bioelectrochemical system: Electro-kinetic analysis. *RSC Advances*, **2012**, 2, 1379-1386	3.7	21
30	Rhizosphere mediated electrogenesis with the function of anode placement for harnessing bioenergy through CO2 sequestration. *Bioresource Technology*, **2012**, 124, 364-70	11	66
29	A rapid and simple protocol for evaluating biohydrogen production potential (BHP) of wastewater with simultaneous process optimization. *International Journal of Hydrogen Energy*, **2012**, 37, 3130-3141	6.7	41
28	Predominance of Bacilli and Clostridia in microbial community of biohydrogen producing biofilm sustained under diverse acidogenic operating conditions. *International Journal of Hydrogen Energy*, **2012**, 37, 4068-4076	6.7	33
27	Carbon based nanotubes and nanopowder as impregnated electrode structures for enhanced power generation: Evaluation with real field wastewater. *Applied Energy*, **2012**, 95, 31-37	10.7	66
26	Biohydrogen Production from Industrial Effluents **2011**, 499-524		8
25	Firmicutes with iron dependent hydrogenase drive hydrogen production in anaerobic bioreactor using distillery wastewater. *International Journal of Hydrogen Energy*, **2011**, 36, 8234-8242	6.7	49
24	Potential of mixed microalgae to harness biodiesel from ecological water-bodies with simultaneous treatment. *Bioresource Technology*, **2011**, 102, 1109-17	11	78
23	Sustainable power generation from floating macrophytes based ecological microenvironment through embedded fuel cells along with simultaneous wastewater treatment. *Bioresource Technology*, **2011**, 102, 7036-42	11	74
22	Natural attenuation of endocrine-disrupting estrogens in an ecologically engineered treatment system (EETS) designed with floating, submerged and emergent macrophytes. *Ecological Engineering*, **2011**, 37, 1555-1562	3.9	30
21	Adaptation of biohydrogen producing reactor to higher substrate load: Redox controlled process integration strategy to overcome limitations. *International Journal of Hydrogen Energy*, **2011**, 36, 8943-8952	6.7	17
20	Bio-electrochemical treatment of distillery wastewater in microbial fuel cell facilitating decolorization and desalination along with power generation. *Journal of Hazardous Materials*, **2010**, 177, 487-94	12.8	191
19	Bio-catalyzed electrochemical treatment of real field dairy wastewater with simultaneous power generation. *Biochemical Engineering Journal*, **2010**, 51, 32-39	4.2	147
18	Enhancing biohydrogen production through sewage supplementation of composite vegetable based market waste. *International Journal of Hydrogen Energy*, **2010**, 35, 533-541	6.7	50
17	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	6.7	125
16	Regulatory influence of CO2 supplementation on fermentative hydrogen production process. *International Journal of Hydrogen Energy*, **2010**, 35, 10701-10709	6.7	28

15	Composite vegetable waste as renewable resource for bioelectricity generation through non-catalyzed open-air cathode microbial fuel cell. *Bioresource Technology*, **2010**, 101, 970-6	11	86
14	Ecologically engineered system (EES) designed to integrate floating, emergent and submerged macrophytes for the treatment of domestic sewage and acid rich fermented-distillery wastewater: Evaluation of long term performance. *Bioresource Technology*, **2010**, 101, 3363-70	11	34
13	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, 2240-6	11	66
12	Acidogenic fermentation of vegetable based market waste to harness biohydrogen with simultaneous stabilization. *Bioresource Technology*, **2009**, 100, 3061-8	11	96
11	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	6.7	48
10	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	6.7	42
9	Behavior of single chambered mediatorless microbial fuel cell (MFC) at acidophilic, neutral and alkaline microenvironments during chemical wastewater treatment?. *International Journal of Hydrogen Energy*, **2009**, 34, 7547-7554	6.7	49
8	Effect of anodic metabolic function on bioelectricity generation and substrate degradation in single chambered microbial fuel cell. *Environmental Science & Technology*, **2008**, 42, 8088-94	10.3	92
7	Integration of acidogenic and methanogenic processes for simultaneous production of biohydrogen and methane from wastewater treatment. *International Journal of Hydrogen Energy*, **2008**, 33, 2156-2166	6.7	105
6	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	11	165
5	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	4.2	162
4	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	7.1	94
3	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	6.7	90
2	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	6.7	56
1	Enhancing biohydrogen production from chemical wastewater treatment in anaerobic sequencing batch biofilm reactor (AnSBBR) by bioaugmenting with selectively enriched kanamycin resistant anaerobic mixed consortia?. *International Journal of Hydrogen Energy*, **2007**, 32, 3284-3292	6.7	88