

Mohanakrishna G

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8657803/mohanakrishna-g-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	An overview on emerging bioelectrochemical systems (BESs): Technology for sustainable electricity, waste remediation, resource recovery, chemical production and beyond. <i>Renewable Energy</i> , 2016 , 98, 153-170	8.1	246
67	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
66	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
65	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
64	Biotransformation of carbon dioxide in bioelectrochemical systems: State of the art and future prospects. <i>Journal of Power Sources</i> , 2017 , 356, 256-273	8.9	152
63	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
62	Technological advances in CO ₂ conversion electro-biorefinery: A step toward commercialization. <i>Bioresource Technology</i> , 2016 , 215, 357-370	11	129
61	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
60	Integration of acidogenic and methanogenic processes for simultaneous production of biohydrogen and methane from wastewater treatment. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2156-2166	6.7	105
59	Acidogenic fermentation of vegetable based market waste to harness biohydrogen with simultaneous stabilization. <i>Bioresource Technology</i> , 2009 , 100, 3061-8	11	96
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. <i>Fuel</i> , 2008 , 87, 2667-2676	7.1	94
57	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
56	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
55	Enhancing biohydrogen production from chemical wastewater treatment in anaerobic sequencing batch biofilm reactor (AnSBBR) by bioaugmenting with selectively enriched kanamycin resistant anaerobic mixed consortia?. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3284-3292	6.7	88
54	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
53	An enriched electroactive homoacetogenic biocathode for the microbial electrosynthesis of acetate through carbon dioxide reduction. <i>Faraday Discussions</i> , 2015 , 183, 445-62	3.6	85
52	Potential of mixed microalgae to harness biodiesel from ecological water-bodies with simultaneous treatment. <i>Bioresource Technology</i> , 2011 , 102, 1109-17	11	78

51	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
50	Imperative role of applied potential and inorganic carbon source on acetate production through microbial electrosynthesis. <i>Journal of CO2 Utilization</i> , 2016 , 15, 57-64	7.6	73
49	Surpassing the current limitations of high purity H production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018 , 119, 211-219	5.6	71
48	Rhizosphere mediated electrogenesis with the function of anode placement for harnessing bioenergy through CO2 sequestration. <i>Bioresource Technology</i> , 2012 , 124, 364-70	11	66
47	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
46	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
45	Multiple process integrations for broad perspective analysis of fermentative H2 production from wastewater treatment: Technical and environmental considerations. <i>Applied Energy</i> , 2013 , 107, 244-254	10.7	59
44	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
43	Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. <i>Bioresource Technology</i> , 2018 , 253, 16-21	11	55
42	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
41	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
40	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
39	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
38	Impact of dissolved carbon dioxide concentration on the process parameters during its conversion to acetate through microbial electrosynthesis. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 371-378	4.9	42
37	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. <i>Bioresource Technology</i> , 2018 , 247, 753-758	11	42
36	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
35	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
34	Biorefinery perspectives of microbial electrolysis cells (MECs) for hydrogen and valuable chemicals production through wastewater treatment. <i>Biofuel Research Journal</i> , 2020 , 7, 1128-1142	13.9	39

33	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. <i>Bioresource Technology</i> , 2010 , 101, 3363-70	11	34
32	Predominance of Bacilli and Clostridia in microbial community of biohydrogen producing biofilm sustained under diverse acidogenic operating conditions. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4068-4076	6.7	33
31	Natural attenuation of endocrine-disrupting estrogens in an ecologically engineered treatment system (EETS) designed with floating, submerged and emergent macrophytes. <i>Ecological Engineering</i> , 2011 , 37, 1555-1562	3.9	30
30	Biological anodic oxidation and cathodic reduction reactions for improved bioelectrochemical treatment of petroleum refinery wastewater. <i>Journal of Cleaner Production</i> , 2018 , 190, 44-52	10.3	28
29	Regulatory influence of CO ₂ supplementation on fermentative hydrogen production process. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10701-10709	6.7	28
28	Microbial electrosynthesis feasibility evaluation at high bicarbonate concentrations with enriched homoacetogenic biocathode. <i>Science of the Total Environment</i> , 2020 , 715, 137003	10.2	24
27	Spatiotemporal stratification of anoxic biofilm in prototype bioelectrogenic system. <i>Bioelectrochemistry</i> , 2017 , 115, 11-18	5.6	23
26	Removal of petroleum hydrocarbons and sulfates from produced water using different bioelectrochemical reactor configurations. <i>Science of the Total Environment</i> , 2019 , 665, 820-827	10.2	22
25	Evaluation of voltage sag-regain phases to understand the stability of bioelectrochemical system: Electro-kinetic analysis. <i>RSC Advances</i> , 2012 , 2, 1379-1386	3.7	21
24	Utilization of residual organics of Labaneh whey for renewable energy generation through bioelectrochemical processes: Strategies for enhanced substrate conversion and energy generation. <i>Bioresource Technology</i> , 2019 , 286, 121409	11	19
23	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment.. <i>RSC Advances</i> , 2019 , 9, 41409-41418	3.7	19
22	Advanced Routes of Biological and Bio-electrocatalytic Carbon Dioxide (CO ₂) Mitigation Toward Carbon Neutrality. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	17
21	Adaptation of biohydrogen producing reactor to higher substrate load: Redox controlled process integration strategy to overcome limitations. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8943-8952	6.7	17
20	Methane as a Substrate for Energy Generation Using Microbial Fuel Cells. <i>Indian Journal of Microbiology</i> , 2019 , 59, 121-124	3.7	17
19	Review on the production of medium and small chain fatty acids through waste valorization and CO fixation. <i>Bioresource Technology</i> , 2020 , 309, 123400	11	17
18	Induced bioelectrochemical metabolism for bioremediation of petroleum refinery wastewater: Optimization of applied potential and flow of wastewater. <i>Bioresource Technology</i> , 2018 , 260, 227-232	11	15
17	Enhanced bioelectrochemical treatment of petroleum refinery wastewater with Labaneh whey as co-substrate. <i>Scientific Reports</i> , 2020 , 10, 19665	4.9	13
16	Exploitation of Citrus Peel Extract as a Feedstock for Power Generation in Microbial Fuel Cell (MFC). <i>Indian Journal of Microbiology</i> , 2019 , 59, 476-481	3.7	12

15	Bioelectrogenesis from Raw Algal Biomass Through Microbial Fuel Cells: Effect of Acetate as Co-substrate. <i>Indian Journal of Microbiology</i> , 2019 , 59, 22-26	3.7	11
14	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. <i>Fuel</i> , 2021 , 285, 119104	7.1	10
13	Biohydrogen Production from Industrial Effluents 2011 , 499-524		8
12	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00478	5.3	6
11	Anodic Electron Transfer Mechanism in Bioelectrochemical Systems 2018 , 87-100		6
10	Bioelectrochemical Systems (BES) for Microbial Electroremediation: An Advanced Wastewater Treatment Technology 2015 , 145-167		5
9	Scaling Up of MFCs: Challenges and Case Studies 2018 , 459-481		5
8	Bioprocesses for Waste and Wastewater Remediation for Sustainable Energy 2016 , 537-565		4
7	Resource Recovery From Wastes and Wastewaters Using Bioelectrochemical Systems 2018 , 535-570		4
6	Impact of electric potential and magnetic fields on power generation in microbial fuel cells treating food waste leachate. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101841	6.7	3
5	Enzymatic Electrosynthesis Toward Value Addition 2019 , 955-973		2
4	Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes. <i>Chemosphere</i> , 2022 , 287, 132299	8.4	1
3	Integrated Bioelectrochemical Platforms 2019 , 1037-1058		1
2	Reactor Design for Bioelectrochemical Systems 2018 , 209-227		1
1	Product Specificity Influenced by Catholyte Conditions during the Microbial Electrosynthesis Process CO ₂ to Acetate. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1253-1253	0.8	