

Abudukeremu Kadier

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,812
citations

236612

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71
times ranked

2629
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of microbial electrolysis cells (MEC) reactor designs and configurations for sustainable hydrogen gas production. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 427-443.	3.4	375
2	Recent advances and emerging challenges in microbial electrolysis cells (MECs) for microbial production of hydrogen and value-added chemicals. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 501-525.	8.2	283
3	A review of the substrates used in microbial electrolysis cells (MECs) for producing sustainable and clean hydrogen gas. <i>Renewable Energy</i> , 2014, 71, 466-472.	4.3	196
4	Single chamber microbial fuel cell (SCMFC) with a cathodic microalgal biofilm: A preliminary assessment of the generation of bioelectricity and biodegradation of real dye textile wastewater. <i>Chemosphere</i> , 2017, 176, 378-388.	4.2	151
5	A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. <i>Chemosphere</i> , 2017, 177, 84-92.	4.2	108
6	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <i>Energy Conversion and Management</i> , 2017, 141, 390-402.	4.4	107
7	Grey relational analysis for comparative assessment of different cathode materials in microbial electrolysis cells. <i>Energy</i> , 2015, 90, 1556-1562.	4.5	98
8	Hydrogen gas production with an electroformed Ni mesh cathode catalysts in a single-chamber microbial electrolysis cell (MEC). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14095-14103.	3.8	92
9	Surpassing the current limitations of high purity H ₂ production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018, 119, 211-219.	2.4	92
10	Biohydrogen production from de-oiled rice bran as sustainable feedstock in fermentative process. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 145-156.	3.8	76
11	Microbiome involved in microbial electrochemical systems (MESs): A review. <i>Chemosphere</i> , 2017, 177, 176-188.	4.2	72
12	Non-oxidative thermocatalytic decomposition of methane into CO _x free hydrogen and nanocarbon over unsupported porous NiO and Fe ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18509-18521.	3.8	71
13	The production of biohydrogen by a novel strain <i>Clostridium</i> sp. YM1 in dark fermentation process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12524-12531.	3.8	69
14	One-pot sol-gel synthesis of Ni/TiO ₂ catalysts for methane decomposition into CO _x free hydrogen and multiwalled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16495-16513.	3.8	67
15	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021, 13, 3365.	2.0	67
16	Sequential microbial activities mediated bioelectricity production from distillery wastewater using bio-electrochemical system with simultaneous waste remediation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1130-1141.	3.8	63
17	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.	7.2	62
18	Photosynthetic microorganisms (Algae) mediated bioelectricity generation in microbial fuel cell: Concise review. <i>Environmental Technology and Innovation</i> , 2020, 19, 100959.	3.0	51

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19	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 868-882.	5.1	48
20	Performance optimization of microbial electrolysis cell (MEC) for palm oil mill effluent (POME) wastewater treatment and sustainable Bio-H ₂ production using response surface methodology (RSM). <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15464-15479.	3.8	45
21	Continuous Butanol Fermentation of Dilute Acid-Pretreated De-oiled Rice Bran by <i>Clostridium acetobutylicum</i> YM1. <i>Scientific Reports</i> , 2019, 9, 4622.	1.6	36
22	Treatment of pharmaceutical wastewater containing cefazolin by electrocoagulation (EC): Optimization of various parameters using response surface methodology (RSM), kinetics and isotherms study. <i>Chemical Engineering Research and Design</i> , 2021, 176, 254-266.	2.7	35
23	Pico hydropower (PHP) development in Malaysia: Potential, present status, barriers and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2796-2805.	8.2	33
24	A Terrestrial Single Chamber Microbial Fuel Cell-based Biosensor for Biochemical Oxygen Demand of Synthetic Rice Washed Wastewater. <i>Sensors</i> , 2016, 16, 101.	2.1	31
25	Characterization, production and optimization of lipopeptide biosurfactant by new strain <i>Bacillus pumilus</i> 2IR isolated from an Iranian oil field. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 510-519.	2.1	30
26	Electro-peroxone application for ciprofloxacin degradation in aqueous solution using sacrificial iron anode: A new hybrid process. <i>Separation and Purification Technology</i> , 2022, 292, 121026.	3.9	26
27	A state of the art review on electrochemical technique for the remediation of pharmaceuticals containing wastewater. <i>Environmental Research</i> , 2022, 210, 112975.	3.7	26
28	Phytoremediation and Rhizoremediation: Uptake, Mobilization and Sequestration of Heavy Metals by Plants. , 2017, , 367-394.		25
29	Utilization of palm kernel cake as a renewable feedstock for fermentative hydrogen production. <i>Renewable Energy</i> , 2016, 93, 700-708.	4.3	24
30	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications. , 2020, , 65-88.		23
31	Sono-peroxi-coagulation (SPC) as an effective treatment for pulp and paper wastewater: Focus on pH effect, biodegradability, and toxicity. <i>Journal of Water Process Engineering</i> , 2021, 44, 102330.	2.6	23
32	A review on electrocoagulation process for the removal of emerging contaminants: theory, fundamentals, and applications. <i>Environmental Science and Pollution Research</i> , 2022, 29, 15252-15281.	2.7	22
33	Antimicrobial peptides: Promising alternatives over conventional capture ligands for biosensor-based detection of pathogenic bacteria. <i>Biotechnology Advances</i> , 2022, 55, 107901.	6.0	20
34	Properties and Characterization of PLA, PHA, and Other Types of Biopolymer Composites. , 2020, , 111-138.		19
35	Challenges in Microbial Fuel Cell and Future Scope. , 2018, , 483-499.		17
36	Basic Principles of Microbial Fuel Cell: Technical Challenges and Economic Feasibility. , 2017, , 165-188.		16

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37	Enhanced Biosurfactant Production by <i>Bacillus pumilus</i> 21R in Fed-Batch Fermentation Using 5-L Bioreactor. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 1111-1123.	0.7	15
38	Superior removal of humic acid from aqueous stream using novel calf bones charcoal nanoadsorbent in a reversible process. <i>Chemosphere</i> , 2022, 301, 134673.	4.2	15
39	Biohydrogen Production: Integrated Approaches to Improve the Process Efficiency. , 2017, , 189-210.		14
40	Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices. <i>Chemosphere</i> , 2022, 293, 133513.	4.2	14
41	Bioelectrochemical systems in aid of sustainable biorefineries for the production of value-added products and resource recovery from wastewater: A critical review and future perspectives. <i>Bioresource Technology</i> , 2022, 359, 127435.	4.8	10
42	Optimization of the Key Medium Components and Culture Conditions for Efficient Cultivation of <i>G. sulfurreducens</i> Strain PCA ATCC 51573 Using Response Surface Methodology. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 237-244.	0.7	9
43	Biohydrogen production in microbial electrolysis cells from renewable resources. , 2018, , 331-356.		9
44	Mechanical Testing of Sugar Palm Fiber Reinforced Sugar Palm Biopolymer Composites. , 2020, , 89-110.		8
45	Application of bioelectrochemical systems in wastewater treatment and hydrogen production. , 2021, , 31-44.		8
46	Algae—The Potential Future Fuel: Challenges and Prospects. , 2017, , 239-251.		7
47	A NEW DESIGN ENHANCES HYDROGEN PRODUCTION BY <i>G. SULFURREDUCENS</i> PCA STRAIN IN A SINGLE-CHAMBER MICROBIAL ELECTROLYSIS CELL (MEC). <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2017, 79, .	0.3	7
48	Performance optimization of a batch scale electrocoagulation process using stainless steel mesh (304) cathode for the separation of oil-in-water emulsion. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 174, 108901.	1.8	7
49	Effect of crude methanolic extract of <i>Lawsonia inermis</i> for anti-biofilm on mild steel 1010 and its effect on corrosion in a re-circulating wastewater system. <i>Journal of King Saud University - Science</i> , 2021, 33, 101611.	1.6	6
50	Essential Factors for Performance Improvement and the Implementation of Microbial Electrolysis Cells (MECs). , 2020, , 139-168.		6
51	Full-Scale Application of Up-flow High Rate Anaerobic Reactor with Substrate Modification and Effluent Recirculation for Sugarcane Vinasse Degradation and Biogas Generation. <i>Journal of Ecological Engineering</i> , 2021, 22, 314-324.	0.5	5
52	Selection of the best barrier solutions for liquid displacement gas collecting metre to prevent gas solubility in microbial electrolysis cells. <i>International Journal of Renewable Energy Technology</i> , 2017, 8, 93.	0.2	4
53	In-situ generation of both hydroxyl radical and adsorptive flocs in electro-coagulation process with air breathing cathode. <i>Chemical Engineering Research and Design</i> , 2022, 164, 345-353.	2.7	4
54	Nanophytoremediation: An Overview of Novel and Sustainable Biological Advancement. , 0, , .		3

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55	A novel miniaturized terrestrial microbial fuel cell reveals rapid electrochemical signals. Energy Procedia, 2017, 142, 1482-1487.	1.8	2
56	Hydrogen Production Through Electrolysis. , 2019, , 799-818.		2
57	The Role of Microbial Electrolysis Cell in Bioenergy Production: Current Applications and Pilot Plant Experiences. , 2020, , 323-342.		2
58	Removal of phosphorus from aqueous solution using multi-wall carbon nanotube (MWCNT) as adsorbent: Kinetics and isotherms. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-7.	1.0	1
59	Microbial Electrolysis Cell (MEC): A Versatile Technology for Hydrogen, Value-added Chemicals Production and Wastewater Treatment. , 2020, , 113-127.		1
60	Application of Biochar for Wastewater Treatment. , 2021, , 67-90.		1
61	Improvement of biomass aggregation in sludge bulking by magnetic field application. Environmental Quality Management, 0, , .	1.0	1
62	Selection of the best barrier solutions for liquid displacement gas collecting meter to prevent gas solubility in microbial electrolysis cells (MECs). International Journal of Renewable Energy Technology, 2017, 8, 1.	0.2	0
63	Hydrogen Production Through Electrolysis. , 2018, , 1-20.		0
64	Water Desalination and Bioelectricity Generation Using Three Chambers Microbial Salinity Cell Reactor with Electrolyte Recirculation. Journal of Ecological Engineering, 2020, 21, 129-136.	0.5	0