

Ibrahim Abu-Reesh

List of Publications by Year in descending order

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46
papers

1,971
citations

236833

25
h-index

243529

44
g-index

47
all docs

47
docs citations

47
times ranked

2043
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. <i>Materials Horizons</i> , 2016, 3, 382-401.	6.4	322
2	Microbial desalination cells as a versatile technology: Functions, optimization and prospective. <i>Desalination</i> , 2015, 371, 9-17.	4.0	123
3	Biohydrogen Production from Lignocellulosic Biomass: Technology and Sustainability. <i>Energies</i> , 2015, 8, 13062-13080.	1.6	114
4	Enhancing desalination and wastewater treatment by coupling microbial desalination cells with forward osmosis. <i>Chemical Engineering Journal</i> , 2015, 270, 437-443.	6.6	88
5	Biological responses of hybridoma cells to defined hydrodynamic shear stress. <i>Journal of Biotechnology</i> , 1989, 9, 167-178.	1.9	77
6	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.	4.8	73
7	Ammonium removal from synthetic wastewater promoted by current generation and water flux in an osmotic microbial fuel cell. <i>Journal of Cleaner Production</i> , 2017, 149, 856-862.	4.6	64
8	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
9	Bioelectricity generation from treatment of petroleum refinery wastewater with simultaneous seawater desalination in microbial desalination cells. <i>Energy Conversion and Management</i> , 2017, 141, 101-107.	4.4	59
10	Understanding electricity generation in osmotic microbial fuel cells through integrated experimental investigation and mathematical modeling. <i>Bioresource Technology</i> , 2015, 195, 194-201.	4.8	47
11	Life cycle assessment of a microbial desalination cell for sustainable wastewater treatment and saline water desalination. <i>Journal of Cleaner Production</i> , 2018, 200, 900-910.	4.6	47
12	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. <i>Bioresource Technology</i> , 2018, 247, 753-758.	4.8	46
13	Boron removal from saline water by a microbial desalination cell integrated with donnan dialysis. <i>Desalination</i> , 2015, 376, 55-61.	4.0	45
14	Mathematical modeling assisted investigation of forward osmosis as pretreatment for microbial desalination cells to achieve continuous water desalination and wastewater treatment. <i>Journal of Membrane Science</i> , 2016, 502, 116-123.	4.1	44
15	Effects of electron acceptors on removal of antibiotic resistant <i>Escherichia coli</i> , resistance genes and class 1 integrons under anaerobic conditions. <i>Science of the Total Environment</i> , 2016, 569-570, 1587-1594.	3.9	43
16	Biological responses of hybridoma cells to hydrodynamic shear in an agitated bioreactor. <i>Enzyme and Microbial Technology</i> , 1991, 13, 913-919.	1.6	42
17	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.	4.6	41
18	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.	3.9	40

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19	Effects of current generation and electrolyte pH on reverse salt flux across thin film composite membrane in osmotic microbial fuel cells. <i>Water Research</i> , 2016, 105, 583-590.	5.3	39
20	Effects of internal mass transfer and product inhibition on a simulated immobilized enzyme-catalyzed reactor for lactose hydrolysis. <i>Biochemical Engineering Journal</i> , 2005, 23, 139-153.	1.8	37
21	Enhanced bioelectrochemical treatment of petroleum refinery wastewater with Labaneh whey as co-substrate. <i>Scientific Reports</i> , 2020, 10, 19665.	1.6	32
22	Unravelling and Reconstructing the Nexus of Salinity, Electricity, and Microbial Ecology for Bioelectrochemical Desalination. <i>Environmental Science & Technology</i> , 2017, 51, 12672-12682.	4.6	30
23	Effects of simultaneous internal and external mass transfer and product inhibition on immobilized enzyme-catalyzed reactor. <i>Biochemical Engineering Journal</i> , 2005, 27, 167-178.	1.8	28
24	Kinetics of hydrocarbon extraction from oil shale using biosurfactant producing bacteria. <i>Energy Conversion and Management</i> , 2009, 50, 983-990.	4.4	28
25	A comparative study of the treatment of ethylene plant spent caustic by neutralization and classical and advanced oxidation. <i>Journal of Environmental Management</i> , 2015, 151, 105-112.	3.8	27
26	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.	4.8	26
27	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment. <i>RSC Advances</i> , 2019, 9, 41409-41418.	1.7	25
28	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. <i>Fuel</i> , 2021, 285, 119104.	3.4	25
29	Development of Bioelectrochemical Systems to Promote Sustainable Agriculture. <i>Agriculture (Switzerland)</i> , 2015, 5, 367-388.	1.4	24
30	Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15149-15157.	3.8	23
31	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.	4.8	23
32	Biofilm formation and electron transfer in bioelectrochemical systems. <i>Environmental Technology Reviews</i> , 2018, 7, 220-234.	2.1	23
33	Life Cycle Environmental Impact Comparison of Bioelectrochemical Systems for Wastewater Treatment. <i>Procedia CIRP</i> , 2019, 80, 382-388.	1.0	23
34	Improved petroleum refinery wastewater treatment and seawater desalination performance by combining osmotic microbial fuel cell and up-flow microbial desalination cell. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 888-895.	1.2	23
35	Bioelectrochemical production of hydrogen in an innovative pressure-retarded osmosis/microbial electrolysis cell system: experiments and modeling. <i>Biotechnology for Biofuels</i> , 2015, 8, 116.	6.2	21
36	Comparison of Axial Dispersion and Tanks-in-Series Models for Simulating the Performance of Enzyme Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5495-5505.	1.8	18

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37	Treatment and desalination of domestic wastewater for water reuse in a four-chamber microbial desalination cell. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17236-17245.	2.7	15
38	Improved salt removal and power generation in a cascade of two hydraulically connected up-flow microbial desalination cells. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 326-337.	0.9	15
39	Mathematical modeling based evaluation and simulation of boron removal in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2016, 569-570, 1380-1389.	3.9	14
40	Enhanced boron removal by electricity generation in a microbial fuel cell. <i>Desalination</i> , 2016, 398, 165-170.	4.0	11
41	Single- and Multi-Objective Optimization of a Dual-Chamber Microbial Fuel Cell Operating in Continuous-Flow Mode at Steady State. <i>Processes</i> , 2020, 8, 839.	1.3	10
42	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 27, e00478.	2.1	10
43	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.	2.6	9
44	Optimal design of continuously stirred membrane reactors in series using Michaelis-Menten kinetics with competitive product inhibition: theoretical analysis. <i>Desalination</i> , 2005, 180, 119-132.	4.0	8
45	Electrocatalytic Oxidation of Methanol Over Silver-Based Ag-M/C (M = Cu, Zn, Fe, Cr, Mn) Electrocatalysts Synthesized by Solution Combustion Technique. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054510.	1.3	1
46	Applications of Matlab optimization capabilities in the design of N-continuous stirred tank bioreactors connected in series. <i>Qscience Proceedings</i> , 2014, , .	0.0	0