

Ibrahim Abu-Reesh

List of Publications by Year in descending order

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46
papers

1,971
citations

236925

25
h-index

243625

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.	12.2	322
2	Microbial desalination cells as a versatile technology: Functions, optimization and prospective. <i>Desalination</i> , 2015, 371, 9-17.	8.2	123
3	Biohydrogen Production from Lignocellulosic Biomass: Technology and Sustainability. <i>Energies</i> , 2015, 8, 13062-13080.	3.1	114
4	Enhancing desalination and wastewater treatment by coupling microbial desalination cells with forward osmosis. <i>Chemical Engineering Journal</i> , 2015, 270, 437-443.	12.7	88
5	Biological responses of hybridoma cells to defined hydrodynamic shear stress. <i>Journal of Biotechnology</i> , 1989, 9, 167-178.	3.8	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.	9.6	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.	9.3	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.	13.3	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.	9.2	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.	9.6	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.	9.3	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.	9.6	46
13	Boron removal from saline water by a microbial desalination cell integrated with donnan dialysis. <i>Desalination</i> , 2015, 376, 55-61.	8.2	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.	8.2	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.	8.0	43
16	Biological responses of hybridoma cells to hydrodynamic shear in an agitated bioreactor. <i>Enzyme and Microbial Technology</i> , 1991, 13, 913-919.	3.2	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.	9.3	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.	8.0	40

#	ARTICLE	IF	CITATIONS
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.	11.3	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.	3.6	37
21	Enhanced bioelectrochemical treatment of petroleum refinery wastewater with Labaneh whey as co-substrate. <i>Scientific Reports</i> , 2020, 10, 19665.	3.3	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.	10.0	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.	3.6	28
24	Kinetics of hydrocarbon extraction from oil shale using biosurfactant producing bacteria. <i>Energy Conversion and Management</i> , 2009, 50, 983-990.	9.2	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.	7.8	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.	9.6	26
27	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment. <i>RSC Advances</i> , 2019, 9, 41409-41418.	3.6	25
28	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. <i>Fuel</i> , 2021, 285, 119104.	6.4	25
29	Development of Bioelectrochemical Systems to Promote Sustainable Agriculture. <i>Agriculture (Switzerland)</i> , 2015, 5, 367-388.	3.1	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.	7.1	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.	9.6	23
32	Biofilm formation and electron transfer in bioelectrochemical systems. <i>Environmental Technology Reviews</i> , 2018, 7, 220-234.	4.3	23
33	Life Cycle Environmental Impact Comparison of Bioelectrochemical Systems for Wastewater Treatment. <i>Procedia CIRP</i> , 2019, 80, 382-388.	1.9	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.	2.2	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.	3.7	18

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37	Treatment and desalination of domestic wastewater for water reuse in a four-chamber microbial desalination cell. Environmental Science and Pollution Research, 2016, 23, 17236-17245.	5.3	15
38	Improved salt removal and power generation in a cascade of two hydraulically connected up-flow microbial desalination cells. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 326-337.	1.7	15
39	Mathematical modeling based evaluation and simulation of boron removal in bioelectrochemical systems. Science of the Total Environment, 2016, 569-570, 1380-1389.	8.0	14
40	Enhanced boron removal by electricity generation in a microbial fuel cell. Desalination, 2016, 398, 165-170.	8.2	11
41	Single- and Multi-Objective Optimization of a Dual-Chamber Microbial Fuel Cell Operating in Continuous-Flow Mode at Steady State. Processes, 2020, 8, 839.	2.8	10
42	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00478.	4.4	10
43	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.	5.6	9
44	Optimal design of continuously stirred membrane reactors in series using Michaelis-Menten kinetics with competitive product inhibition: theoretical analysis. Desalination, 2005, 180, 119-132.	8.2	8
45	Electrocatalytic Oxidation of Methanol Over Silver-Based Ag-M/C (M = Cu, Zn, Fe, Cr, Mn) Electrocatalysts Synthesized by Solution Combustion Technique. Journal of the Electrochemical Society, 2022, 169, 054510.	2.9	1
46	Applications of Matlab optimization capabilities in the design of N-continuous stirred tank bioreactors connected in series. Qscience Proceedings, 2014, , .	0.0	0