Ibrahim Abu-Reesh

List of Publications by Citations

46 papers	1,471 citations	22 h-index	37 g-index
47 ext. papers	1,717 ext. citations	7.8 avg, IF	5.23 L-index

#	Paper	IF	Citations
46	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. *Materials Horizons*, **2016**, 3, 382-401	14.4	257
45	Microbial desalination cells as a versatile technology: Functions, optimization and prospective. *Desalination*, **2015**, 371, 9-17	10.3	97
44	Biohydrogen Production from Lignocellulosic Biomass: Technology and Sustainability. *Energies*, **2015**, 8, 13062-13080	3.1	84
43	Biological responses of hybridoma cells to defined hydrodynamic shear stress. *Journal of Biotechnology*, **1989**, 9, 167-178	3.7	74
42	Enhancing desalination and wastewater treatment by coupling microbial desalination cells with forward osmosis. *Chemical Engineering Journal*, **2015**, 270, 437-443	14.7	73
41	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
40	Ammonium removal from synthetic wastewater promoted by current generation and water flux in an osmotic microbial fuel cell. *Journal of Cleaner Production*, **2017**, 149, 856-862	10.3	51
39	Bioelectricity generation from treatment of petroleum refinery wastewater with simultaneous seawater desalination in microbial desalination cells. *Energy Conversion and Management*, **2017**, 141, 101-107	10.6	48
38	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. *Bioresource Technology*, **2018**, 247, 753-758	11	42
37	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
36	Mathematical modeling assisted investigation of forward osmosis as pretreatment for microbial desalination cells to achieve continuous water desalination and wastewater treatment. *Journal of Membrane Science*, **2016**, 502, 116-123	9.6	37
35	Understanding electricity generation in osmotic microbial fuel cells through integrated experimental investigation and mathematical modeling. *Bioresource Technology*, **2015**, 195, 194-201	11	36
34	Boron removal from saline water by a microbial desalination cell integrated with donnan dialysis. *Desalination*, **2015**, 376, 55-61	10.3	35
33	Biological responses of hybridoma cells to hydrodynamic shear in an agitated bioreactor. *Enzyme and Microbial Technology*, **1991**, 13, 913-9	3.8	34
32	Effects of internal mass transfer and product inhibition on a simulated immobilized enzyme-catalyzed reactor for lactose hydrolysis. *Biochemical Engineering Journal*, **2005**, 23, 139-153	4.2	29
31	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
30	Effects of current generation and electrolyte pH on reverse salt flux across thin film composite membrane in osmotic microbial fuel cells. *Water Research*, **2016**, 105, 583-590	12.5	28

29	Effects of electron acceptors on removal of antibiotic resistant Escherichia coli, resistance genes and class 1 integrons under anaerobic conditions. *Science of the Total Environment*, **2016**, 569-570, 1587-1594	10.2	28
28	Life cycle assessment of a microbial desalination cell for sustainable wastewater treatment and saline water desalination. *Journal of Cleaner Production*, **2018**, 200, 900-910	10.3	26
27	Effects of simultaneous internal and external mass transfer and product inhibition on immobilized enzyme-catalyzed reactor. *Biochemical Engineering Journal*, **2005**, 27, 167-178	4.2	24
26	Kinetics of hydrocarbon extraction from oil shale using biosurfactant producing bacteria. *Energy Conversion and Management*, **2009**, 50, 983-990	10.6	23
25	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
24	A comparative study of the treatment of ethylene plant spent caustic by neutralization and classical and advanced oxidation. *Journal of Environmental Management*, **2015**, 151, 105-12	7.9	21
23	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
22	A microbial fuel cell configured for the remediation of recalcitrant pollutants in soil environment.. *RSC Advances*, **2019**, 9, 41409-41418	3.7	19
21	Unravelling and Reconstructing the Nexus of Salinity, Electricity, and Microbial Ecology for Bioelectrochemical Desalination. *Environmental Science & Technology*, **2017**, 51, 12672-12682	10.3	18
20	Biofilm formation and electron transfer in bioelectrochemical systems. *Environmental Technology Reviews*, **2018**, 7, 220-234	7.7	18
19	Development of Bioelectrochemical Systems to Promote Sustainable Agriculture. *Agriculture (Switzerland)*, **2015**, 5, 367-388	3	18
18	Comparison of Axial Dispersion and Tanks-in-Series Models for Simulating the Performance of Enzyme Reactors. *Industrial & Engineering Chemistry Research*, **2003**, 42, 5495-5505	3.9	16
17	Life Cycle Environmental Impact Comparison of Bioelectrochemical Systems for Wastewater Treatment. *Procedia CIRP*, **2019**, 80, 382-388	1.8	15
16	Bioelectrochemical production of hydrogen in an innovative pressure-retarded osmosis/microbial electrolysis cell system: experiments and modeling. *Biotechnology for Biofuels*, **2015**, 8, 116	7.8	15
15	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
14	Improved petroleum refinery wastewater treatment and seawater desalination performance by combining osmotic microbial fuel cell and up-flow microbial desalination cell. *Environmental Technology (United Kingdom)*, **2019**, 40, 888-895	2.6	15
13	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	2.3	13
12	Enhanced bioelectrochemical treatment of petroleum refinery wastewater with Labaneh whey as co-substrate. *Scientific Reports*, **2020**, 10, 19665	4.9	13

11	Mathematical modeling based evaluation and simulation of boron removal in bioelectrochemical systems. *Science of the Total Environment*, **2016**, 569-570, 1380-1389	10.2	13
10	Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. *International Journal of Hydrogen Energy*, **2016**, 41, 15149-15157	6.7	12
9	Integrating electrochemical and bioelectrochemical systems for energetically sustainable treatment of produced water. *Fuel*, **2021**, 285, 119104	7.1	10
8	Treatment and desalination of domestic wastewater for water reuse in a four-chamber microbial desalination cell. *Environmental Science and Pollution Research*, **2016**, 23, 17236-45	5.1	9
7	Enhanced boron removal by electricity generation in a microbial fuel cell. *Desalination*, **2016**, 398, 165-170	10.3	8
6	Optimal design of continuously stirred membrane reactors in series using Michaelis-Menten kinetics with competitive product inhibition: theoretical analysis. *Desalination*, **2005**, 180, 119-132	10.3	7
5	Sewage enhanced bioelectrochemical degradation of petroleum hydrocarbons in soil environment through bioelectro-stimulation. *Biotechnology Reports (Amsterdam, Netherlands)*, **2020**, 27, e00478	5.3	6
4	Single- and Multi-Objective Optimization of a Dual-Chamber Microbial Fuel Cell Operating in Continuous-Flow Mode at Steady State. *Processes*, **2020**, 8, 839	2.9	4
3	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
2	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	3.9	0
1	Applications of Matlab optimization capabilities in the design of N-continuous stirred tank bioreactors connected in series. *Qscience Proceedings*, **2014**, 2014, 1		