Amani Al-Othman

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3630540/publications.pdf

Version: 2024-02-01

69 papers 3,039 citations

31 h-index 50 g-index

70 all docs 70 docs citations

times ranked

70

2180 citing authors

#	Article	IF	CITATIONS
1	Zirconium silicate-ionic liquid membranes for high-temperature hydrogen PEM fuel cells. International Journal of Hydrogen Energy, 2024, 52, 894-908.	3.8	12
2	Approaches towards the development of heteropolyacid-based high temperature membranes for PEM fuel cells. International Journal of Hydrogen Energy, 2023, 48, 6638-6656.	3.8	42
3	The surfactant-ionic liquid bi-functionalization of chitosan beads for their adsorption performance improvement toward Tartrazine. Environmental Research, 2022, 204, 111961.	3.7	41
4	Novel enzymatic graphene oxide based biosensor for the detection of glutathione in biological body fluids. Chemosphere, 2022, 287, 132187.	4.2	160
5	Applications of Metamaterials. , 2022, , 11-24.		3
6	Classifications of Thermal Energy Storage Materials. , 2022, , 450-469.		3
7	Artificial intelligence and numerical models in hybrid renewable energy systems with fuel cells: Advances and prospects. Energy Conversion and Management, 2022, 253, 115154.	4.4	71
8	Microwave synthesis of biochar for environmental applications. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105415.	2.6	14
9	Facemask Global Challenges: The Case of Effective Synthesis, Utilization, and Environmental Sustainability. Sustainability, 2022, 14, 737.	1.6	15
10	A Critical Review on the Use of Ionic Liquids in Proton Exchange Membrane Fuel Cells. Membranes, 2022, 12, 178.	1.4	49
11	Highly proton conductive membranes based on lignin/ZrP/PTFE composite for high temperature PEM fuel cells. , 2022, , .		7
12	Proton Conductivity Studies in Zirconium Phosphate/MXenes in PEM Fuel Cells., 2022,,.		6
13	Response to the Editor's letter: Comments on using of "pseudo-first-order kinetic model―[Sci. Total Environ. 750 (2021) 142370, 750 (2021) 141498, 761 (2021) 143229]. Science of the Total Environment, 2022, 154325.	,3.9	O
14	Integrating forward osmosis into microbial fuel cells for wastewater treatment., 2022,, 321-336.		0
15	Integrated biopolymer and bioenergy production from organic wastes: Recent advances and future outlook., 2022,, 261-283.		1
16	Integrated microbial desalination cell and microbial electrolysis cell for wastewater treatment, bioelectricity generation, and biofuel production: Success, experience, challenges, and future prospects., 2022,, 145-166.		1
17	A hybrid photovoltaic/solar chimney seawater desalination plant. , 2022, , .		1
18	A review on latest trends in cleaner biodiesel production: Role of feedstock, production methods, and catalysts. Journal of Cleaner Production, 2022, 355, 131588.	4.6	129

#	Article	IF	CITATIONS
19	The novel advancements of nanomaterials in biofuel cells with a focus on electrodes' applications. Fuel, 2022, 322, 124237.	3.4	34
20	Ammonia: A versatile candidate for the use in energy storage systems. Renewable Energy, 2022, 194, 955-977.	4.3	54
21	Adaptive estimation of PEMFC stack model parameters - An experimental verification. International Journal of Hydrogen Energy, 2022, 47, 41663-41682.	3.8	9
22	Novel composite membrane based on zirconium phosphate-ionic liquids for high temperature PEM fuel cells. International Journal of Hydrogen Energy, 2021, 46, 6100-6109.	3.8	67
23	Characterization of paper mill sludge as a renewable feedstock for sustainable hydrogen and biofuels production. International Journal of Hydrogen Energy, 2021, 46, 4761-4775.	3.8	43
24	Emerging contaminants in the water bodies of the Middle East and North Africa (MENA): A critical review. Science of the Total Environment, 2021, 754, 142177.	3.9	75
25	Fuel cells for carbon capture and power generation: Simulation studies. International Journal of Hydrogen Energy, 2021, 46, 6139-6149.	3.8	20
26	Environmental impacts of solar photovoltaic systems: A critical review of recent progress and future outlook. Science of the Total Environment, 2021, 759, 143528.	3.9	230
27	Recent developments in pressure retarded osmosis for desalination and power generation. Renewable and Sustainable Energy Reviews, 2021, 138, 110492.	8.2	53
28	Efficient removal of phenol compounds from water environment using Ziziphus leaves adsorbent. Science of the Total Environment, 2021, 761, 143229.	3.9	72
29	Enhanced proton conduction in zirconium phosphate/ionic liquids materials for high-temperature fuel cells. International Journal of Hydrogen Energy, 2021, 46, 4857-4869.	3.8	67
30	Comprehensive analysis and correlation of ionic liquid conductivity data for energy applications. Energy, 2021, 220, 119761.	4.5	23
31	A novel technique of paper mill sludge conversion to bioethanol toward sustainable energy production: Effect of fiber recovery on the saccharification hydrolysis and fermentation. Energy, 2021, 223, 120018.	4.5	17
32	Fabrication of titanium dioxide nanomaterial for implantable highly flexible composite bioelectrode for biosensing applications. Chemosphere, 2021, 273, 129680.	4.2	11
33	Recent progress and challenges on adsorptive membranes for the removal of pollutants from wastewater. Part I: Fundamentals and classification of membranes. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100086.	2.9	30
34	A characterization study for the properties of dust particles collected on photovoltaic (PV) panels in Sharjah, United Arab Emirates. Renewable Energy, 2021, 171, 133-140.	4.3	49
35	Recent progress and challenges of adsorptive membranes for the removal of pollutants from wastewater. Part II: Environmental applications. Case Studies in Chemical and Environmental Engineering, 2021, 3, 100102.	2.9	19
36	A critical review on the use of potentiometric based biosensors for biomarkers detection. Biosensors and Bioelectronics, 2021, 184, 113252.	5.3	343

#	Article	IF	Citations
37	Proton conduction of novel calcium phosphate nanocomposite membranes for high temperature PEM fuel cells applications. International Journal of Hydrogen Energy, 2021, 46, 30641-30657.	3.8	36
38	Highly Flexible Polyaniline-Based Implantable Electrode Materials for Neural Sensing/Stimulation Applications. Electronic Materials, 2021, 2, 413-427.	0.9	6
39	Lessons learned from the underrepresentation of women in STEM: Al-enabled solutions and more. Energy and Al, 2021, 5, 100086.	5.8	2
40	Ionic liquid-assisted refinery processes – A review and industrial perspective. Fuel, 2021, 302, 121195.	3.4	17
41	Biodegradable polymers and their nano-composites for the removal of endocrine-disrupting chemicals (EDCs) from wastewater: A review. Environmental Research, 2021, 202, 111694.	3.7	152
42	A critical review on metal-based catalysts used in the pyrolysis of lignocellulosic biomass materials. Journal of Environmental Management, 2021, 299, 113597.	3.8	42
43	Metamaterials: Classifications and Characteristics. , 2021, , 46-46.		1
44	Insights into the removal of microplastics from water using biochar in the era of COVID-19: A mini review. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100151.	2.9	41
45	Optimal conditions for olive mill wastewater treatment using ultrasound and advanced oxidation processes. Science of the Total Environment, 2020, 700, 134576.	3.9	81
46	Technoâ€economic analysis and a novel assessment technique of paper mill sludge conversion to bioethanol toward sustainable energy production. International Journal of Energy Research, 2020, 44, 12602-12613.	2.2	28
47	Energy and Economic Analysis of Date Palm Biomass Feedstock for Biofuel Production in UAE: Pyrolysis, Gasification and Fermentation. Energies, 2020, 13, 5877.	1.6	46
48	Microbial desalination cells for water purification and power generation: A critical review. Energy, 2020, 209, 118493.	4.5	92
49	Comparative life cycle assessment for PEMFC stack including fuel storage materials in UAE. , 2020, , .		5
50	Bio-electrodes Based on Poly(methy1 methacrylate) (PMMA) for Neural Sensing. , 2020, , .		0
51	Life Cycle Analysis Comparison between Single Crystalline Solar Cells and poly Crystaline Gallium in UAE. , 2020, , .		3
52	Development and Characterization of Novel Composite and Flexible Electrode Based on Titanium Dioxide. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1079-1087.	1.4	12
53	Implantable Electrodes Based on Poly-aniline (PANI) and Silicone for Neural Sensing/Stimulations. , 2020, , .		1
54	Dynamic Model of a Proton-Exchange Membrane Fuel Cell using Equivalent Electrical Circuit., 2019,,.		6

#	Article	IF	Citations
55	Direct hydrocarbon fuel cells: A promising technology for improving energy efficiency. Energy, 2019, 172, 207-219.	4.5	98
56	Nuclear desalination: A state-of-the-art review. Desalination, 2019, 457, 39-61.	4.0	122
57	Kinetic and thermodynamic study of phosphate removal from water by adsorption onto (<i>Arundo) Tj ETQq1 1</i>	0.784314 1.5	krgBT /Overlo
58	Membrane separation as a pre-treatment process for oily saline water. Desalination, 2018, 447, 182-202.	4.0	110
59	Novel flexible implantable electrodes based on conductive polymers and Titanium dioxide. , 2018, , .		7
60	Graphene oxide â€" Nafion composite membrane for effective methanol crossover reduction in passive direct methanol fuel cells. , 2018, , .		7
61	Thermodynamic analysis of lithium bromide absorption chiller driven by geothermal energy. , 2018, , .		3
62	Novel multi-stage flash (MSF) desalination plant driven by parabolic trough collectors and a solar pond: A simulation study in UAE. Desalination, 2018, 443, 237-244.	4.0	130
63	Proton conductivity and morphology of new composite membranes based on zirconium phosphates, phosphotungstic acid, and silicic acid for direct hydrocarbon fuel cells applications. Journal of Porous Materials, 2017, 24, 721-729.	1.3	41
64	n-Hexadecane Fuel for a Phosphoric Acid Direct Hydrocarbon Fuel Cell. Journal of Fuels, 2015, 2015, 1-9.	0.2	3
65	A modified silicic acid (Si) and sulphuric acid (S)–ZrP/PTFE/glycerol composite membrane for high temperature direct hydrocarbon fuel cells. Journal of Power Sources, 2013, 224, 158-167.	4.0	27
66	The effect of glycerol on the conductivity of Nafion-free ZrP/PTFE composite membrane electrolytes for direct hydrocarbon fuel cells. Journal of Power Sources, 2012, 199, 14-21.	4.0	31
67	Zirconium phosphate as the proton conducting material in direct hydrocarbon polymer electrolyte membrane fuel cells operating above the boiling point of water. Journal of Power Sources, 2010, 195, 2520-2525.	4.0	29
68	Gypsum crystallization and hydrochloric acid regeneration by reaction of calcium chloride solution with sulfuric acid. Hydrometallurgy, 2009, 96, 95-102.	1.8	40
69	Novel Composite Membranes Based on Polyaniline/Ionic Liquids for PEM Fuel Cells Applications. Key Engineering Materials, 0, 865, 55-60.	0.4	9