

Mohammad Abdelkareem

List of Publications by Year in descending order

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Version: 2024-02-01

248
papers

14,533
citations

16791

66
h-index

29333

108
g-index

250
all docs

250
docs citations

250
times ranked

7889
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal heuristic economic management strategy for microgrids based PEM fuel cells. International Journal of Hydrogen Energy, 2024, 52, 775-784.	3.8	12
2	Current progression in graphene-based membranes for low temperature fuel cells. International Journal of Hydrogen Energy, 2024, 52, 800-842.	3.8	13
3	A review on zero energy buildings “ Pros and cons. Energy and Built Environment, 2023, 4, 25-38.	2.9	46
4	Piezoelectric Sensors. , 2022, , 65-71.		1
5	Recent Progress of Metal-Organic Frameworks (MOFs) as Electrodes for Capacitive Deionization (CDI) Desalination. , 2022, , 566-577.		2
6	Copper-Based Metal-Organic Frameworks (MOFs) for Electroreduction of CO ₂ . , 2022, , 544-554.		0
7	Applications of Nanofluids in Cooling of Electronic Components. , 2022, , 310-318.		6
8	Electrochemical Reduction of CO ₂ on Cu-Based Heterogeneous Catalysts. , 2022, , 807-815.		0
9	Future Directions for Shape Memory Alloy Development. , 2022, , 231-242.		2
10	Advances in Shape-Stabilized Phase Change Materials. , 2022, , 326-333.		6
11	Redox Flow Batteries. , 2022, , 176-185.		2
12	Progress in energy recovery and graphene usage in capacitive deionization. Critical Reviews in Environmental Science and Technology, 2022, 52, 3080-3136.	6.6	15
13	High energy storage quasi-solid-state supercapacitor enabled by metal chalcogenide nanowires and iron-based nitrogen-doped graphene nanostructures. Journal of Colloid and Interface Science, 2022, 608, 711-719.	5.0	31
14	Optimal parameter estimation strategy of PEM fuel cell using gradient-based optimizer. Energy, 2022, 239, 122096.	4.5	58
15	Nitridation-induced in situ coupling of Ni-Co ₄ N particles in nitrogen-doped carbon nanosheets for hybrid supercapacitors. Chemical Engineering Journal, 2022, 428, 131888.	6.6	28
16	Uniqueness technique for introducing high octane environmental gasoline using renewable oxygenates and its formulation on Fuzzy modeling. Science of the Total Environment, 2022, 802, 149863.	3.9	24
17	Optimal operating parameter determination based on fuzzy logic modeling and marine predators algorithm approaches to improve the methane production via biomass gasification. Energy, 2022, 239, 122072.	4.5	29
18	Materials for Fuel Cell Membranes. , 2022, , 267-272.		5

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19	Optimal techno-economic energy management strategy for building's microgrids based bald eagle search optimization algorithm. <i>Applied Energy</i> , 2022, 306, 118069.	5.1	45
20	Assessment of the pre-combustion carbon capture contribution into sustainable development goals SDGs using novel indicators. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111710.	8.2	207
21	Low temperature phase change materials for thermal energy storage: Current status and computational perspectives. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101808.	1.7	11
22	New insights on introducing modern multifunctional additives into motor gasoline. <i>Science of the Total Environment</i> , 2022, 808, 152034.	3.9	19
23	Role of carbon-based nanomaterials in improving the performance of microbial fuel cells. <i>Energy</i> , 2022, 240, 122478.	4.5	40
24	Optimal parameter identification of triple diode model for solar photovoltaic panel and cells. <i>Energy Reports</i> , 2022, 8, 1179-1188.	2.5	19
25	Structural engineering and surface modification of nickel double hydroxide nanosheets for all-solid-state asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 45, 103720.	3.9	8
26	Scalability of microbial electrochemical technologies: Applications and challenges. <i>Bioresource Technology</i> , 2022, 345, 126498.	4.8	46
27	Management of potential challenges of PV technology proliferation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101942.	1.7	25
28	Cu ₂ O nanoparticles decorated with MoS ₂ sheets for electrochemical reduction of CO ₂ with enhanced efficiency. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	16
29	Novel promising octane hyperboosting using isoolefinic gasoline additives and its application on fuzzy modeling. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4932-4942.	3.8	27
30	Biogas role in achievement of the sustainable development goals: Evaluation, Challenges, and Guidelines. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 131, 104207.	2.7	107
31	Heat pipe-based waste heat recovery systems: Background and applications. <i>Thermal Science and Engineering Progress</i> , 2022, 29, 101221.	1.3	31
32	Electric vehicle impact on energy industry, policy, technical barriers, and power systems. <i>International Journal of Thermofluids</i> , 2022, 13, 100134.	4.0	48
33	Prospects of Thermoelectric Generators with Nanofluid. <i>Thermal Science and Engineering Progress</i> , 2022, 29, 101207.	1.3	17
34	Renewable energy and climate change. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112111.	8.2	531
35	Phase change materials based on nanoparticles for enhancing the performance of solar photovoltaic panels: A review. <i>Journal of Energy Storage</i> , 2022, 48, 103937.	3.9	51
36	Impact of COVID-19 on the Renewable Energy Sector and Mitigation Strategies. <i>Chemical Engineering and Technology</i> , 2022, 45, 558-571.	0.9	33

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37	Novel and practical photovoltaic applications. Thermal Science and Engineering Progress, 2022, 29, 101208.	1.3	11
38	Preparation of Graphene Aerogel for Application in Solar Energy Harvesting. , 2022, , .		1
39	Applicability of Hydropower Generation and Pumped Hydro Energy Storage in the Middle East and North Africa. Energies, 2022, 15, 2412.	1.6	31
40	Optimal adaptive fuzzy management strategy for fuel cell-based DC microgrid. Energy, 2022, 247, 123447.	4.5	23
41	Increasing bio-hydrogen production-based steam reforming ANFIS based model and metaheuristics. Engineering Analysis With Boundary Elements, 2022, 138, 202-210.	2.0	12
42	Supercapacitors as next generation energy storage devices: Properties and applications. Energy, 2022, 248, 123617.	4.5	244
43	Effect of dust and methods of cleaning on the performance of solar PV module for different climate regions: Comprehensive review. Science of the Total Environment, 2022, 827, 154050.	3.9	81
44	Recent approach based heterogeneous comprehensive learning Archimedes optimization algorithm for identifying the optimal parameters of different fuel cells. Energy, 2022, 248, 123587.	4.5	14
45	Thermal management systems based on heat pipes for batteries in EVs/HEVs. Journal of Energy Storage, 2022, 51, 104384.	3.9	38
46	Multi-criteria decision making for different concentrated solar thermal power technologies. Sustainable Energy Technologies and Assessments, 2022, 52, 102118.	1.7	21
47	A review of solar chimney for natural ventilation of residential and non-residential buildings. Sustainable Energy Technologies and Assessments, 2022, 52, 102082.	1.7	27
48	Structural tuneability and electrochemical energy storage applications of resorcinol-formaldehyde based carbon aerogels. International Journal of Energy Research, 2022, 46, 5478-5502.	2.2	10
49	All Transition Metal Selenide Composed High Energy Solid State Hybrid Supercapacitor. Small, 2022, 18, e2200248.	5.2	49
50	Battery thermal management systems based on nanofluids for electric vehicles. Journal of Energy Storage, 2022, 50, 104385.	3.9	45
51	Fuzzy modelling and metaheuristic to minimize the temperature of lithium-ion battery for the application in electric vehicles. Journal of Energy Storage, 2022, 50, 104552.	3.9	8
52	Progress of artificial neural networks applications in hydrogen production. Chemical Engineering Research and Design, 2022, 182, 66-86.	2.7	45
53	Robust parameter estimation approach of Lithium-ion batteries employing bald eagle search algorithm. International Journal of Energy Research, 2022, 46, 10564-10575.	2.2	15
54	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. Energy, 2022, 254, 123987.	4.5	74

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55	High-performance effective metal-organic frameworks for electrochemical applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, 7, 100465.	1.5	17
56	Thermosensitive injectable graphene oxide/chitosan-based nanocomposite hydrogels for controlling the in vivo release of bupivacaine hydrochloride. <i>International Journal of Pharmaceutics</i> , 2022, 621, 121786.	2.6	15
57	Geopolymer concrete as green building materials: Recent applications, sustainable development and circular economy potentials. <i>Science of the Total Environment</i> , 2022, 836, 155577.	3.9	96
58	Economic and environmental assessment of the implementation of solar chimney plant for water production in two cities in UAE. <i>Thermal Science and Engineering Progress</i> , 2022, 33, 101365.	1.3	16
59	Performance improvement of co-culture inoculated microbial fuel cell using fuzzy modelling and Harris hawks optimization. <i>International Journal of Energy Research</i> , 2022, 46, 14396-14407.	2.2	8
60	Large scale application of carbon capture to process industries – A review. <i>Journal of Cleaner Production</i> , 2022, 362, 132300.	4.6	84
61	Battery thermal management systems: Recent progress and challenges. <i>International Journal of Thermofluids</i> , 2022, 15, 100171.	4.0	78
62	Recommendations for energy storage compartment used in renewable energy project. <i>International Journal of Thermofluids</i> , 2022, 15, 100182.	4.0	14
63	Novel Trends in Proton Exchange Membrane Fuel Cells. <i>Energies</i> , 2022, 15, 4949.	1.6	17
64	The role of wastewater treatment in achieving sustainable development goals (SDGs) and sustainability guideline. <i>Energy Nexus</i> , 2022, 7, 100112.	3.3	111
65	Potential applications of phase change materials for batteries' thermal management systems in electric vehicles. <i>Journal of Energy Storage</i> , 2022, 54, 105204.	3.9	33
66	Large-scale hydrogen production and storage technologies: Current status and future directions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23498-23528.	3.8	226
67	Transition metal carbides and nitrides as oxygen reduction reaction catalyst or catalyst support in proton exchange membrane fuel cells (PEMFCs). <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23529-23547.	3.8	88
68	A novel strategy based on salp swarm algorithm for extracting the maximum power of proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6087-6099.	3.8	57
69	Compressed air energy storage systems: Components and operating parameters – A review. <i>Journal of Energy Storage</i> , 2021, 34, 102000.	3.9	138
70	Two dimensional Cu based nanocomposite materials for direct urea fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6051-6060.	3.8	12
71	Enhancing the operation of fuel cell-photovoltaic-battery-supercapacitor renewable system through a hybrid energy management strategy. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6061-6075.	3.8	104
72	Selection of proton exchange membrane fuel cell for transportation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30625-30640.	3.8	67

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73	Fuel cell application in the automotive industry and future perspective. Energy, 2021, 214, 118955.	4.5	377
74	Environmental aspects of fuel cells: A review. Science of the Total Environment, 2021, 752, 141803.	3.9	287
75	Integrated standalone hybrid solar PV, fuel cell and diesel generator power system for battery or supercapacitor storage systems in Khorfakkan, United Arab Emirates. International Journal of Hydrogen Energy, 2021, 46, 6014-6027.	3.8	146
76	Environmental impacts of solar energy systems: A review. Science of the Total Environment, 2021, 754, 141989.	3.9	373
77	Evaluation of the nanofluid-assisted desalination through solar stills in the last decade. Journal of Environmental Management, 2021, 277, 111415.	3.8	107
78	Critical review of energy storage systems. Energy, 2021, 214, 118987.	4.5	359
79	Progress in carbon capture technologies. Science of the Total Environment, 2021, 761, 143203.	3.9	300
80	Electrophoretic deposition of graphene oxide on carbon brush as bioanode for microbial fuel cell operated with real wastewater. International Journal of Hydrogen Energy, 2021, 46, 5975-5983.	3.8	59
81	A critical review on environmental impacts of renewable energy systems and mitigation strategies: Wind, hydro, biomass and geothermal. Science of the Total Environment, 2021, 766, 144505.	3.9	252
82	Optimal operating parameter determination and modeling to enhance methane production from macroalgae. Renewable Energy, 2021, 163, 2190-2197.	4.3	10
83	Value added products from wastewater using bioelectrochemical systems: Current trends and perspectives. Journal of Water Process Engineering, 2021, 39, 101737.	2.6	59
84	Hybrid low-carbon high-octane oxygenated gasoline based on low-octane hydrocarbon fractions. Science of the Total Environment, 2021, 756, 142715.	3.9	34
85	Recent progress in environmentally friendly geopolymers: A review. Science of the Total Environment, 2021, 762, 143166.	3.9	99
86	Coated decorated reduced graphene/titanium nitride composite as an active oxygen reduction reaction catalyst with superior stability. International Journal of Energy Research, 2021, 45, 1587-1598.	2.2	16
87	Review of operating condition, design parameters and material properties for proton exchange membrane fuel cells. International Journal of Energy Research, 2021, 45, 1227-1245.	2.2	41
88	Comparison among various energy management strategies for reducing hydrogen consumption in a hybrid fuel cell/supercapacitor/battery system. International Journal of Hydrogen Energy, 2021, 46, 6110-6126.	3.8	105
89	Metal-Organic Frameworks in Membrane of Fuel Cells. , 2021, , 295-295.		0
90	Application of graphene in energy storage device – A review. Renewable and Sustainable Energy Reviews, 2021, 135, 110026.	8.2	452

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91	Materials for a New Generation of Batteries. , 2021, , 59-59.		0
92	Progress in plant-based bioelectrochemical systems and their connection with sustainable development goals. Carbon Resources Conversion, 2021, 4, 169-183.	3.2	42
93	In-Situ Growth of MOF for Energy Conversion and Storage Devices. , 2021, , .		1
94	Metal-Organic Framework (MOF) in Fuel Cells. , 2021, , 306-306.		1
95	Metal-Organic Frameworks in Photocatalysis. , 2021, , 555-555.		0
96	Characteristics of Electrochemical Energy Storage Materials in Light of Advanced Characterization Techniques. , 2021, , .		0
97	Metal Air Batteries. , 2021, , .		1
98	Metal Organic Frameworks (MOFs) for Supercapacitor. , 2021, , 414-414.		4
99	Progress of Metal Chalcogenides in Supercapacitors. , 2021, , 424-424.		6
100	Advances in Electrolytes for Sodium-Sulfur Batteries. , 2021, , .		1
101	Bio-Based Materials in Photocatalysis. , 2021, , .		1
102	Nanostructured Materials as Electrocatalysts for Electrochemical CO2 Reduction. , 2021, , .		0
103	Metal Organic Framework in Batteries. , 2021, , 125-125.		0
104	Bio-Based Carbon Materials for Capacitive Deionization CDI Desalination Processes. , 2021, , .		3
105	Advancements and prospects of thermal management and waste heat recovery of PEMFC. International Journal of Thermofluids, 2021, 9, 100064.	4.0	118
106	Optimization of Fuel Cell Performance Using Computational Fluid Dynamics. Membranes, 2021, 11, 146.	1.4	12
107	Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells. Energy, 2021, 221, 119849.	4.5	44
108	Multicriteria Decision-Making to Determine the Optimal Energy Management Strategy of Hybrid PV&€“Diesel Battery-Based Desalination System. Sustainability, 2021, 13, 4202.	1.6	10

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109	Perspective on integration of concentrated solar power plants. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 1098-1125.	1.2	20
110	Environmental impacts of nanofluids: A review. <i>Science of the Total Environment</i> , 2021, 763, 144202.	3.9	51
111	Critical Review of Flywheel Energy Storage System. <i>Energies</i> , 2021, 14, 2159.	1.6	94
112	Thermophysical properties of graphene-based nanofluids. <i>International Journal of Thermofluids</i> , 2021, 10, 100073.	4.0	81
113	A review of grout materials in geothermal energy applications. <i>International Journal of Thermofluids</i> , 2021, 10, 100070.	4.0	78
114	Fuel cells for carbon capture applications. <i>Science of the Total Environment</i> , 2021, 769, 144243.	3.9	92
115	The role of vacuum based technologies in solid oxide fuel cell development to utilize industrial waste carbon for power production. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 142, 110803.	8.2	27
116	Fuzzy modeling and particle swarm optimization of Al ₂ O ₃ /SiO ₂ nanofluid. <i>International Journal of Thermofluids</i> , 2021, 10, 100084.	4.0	41
117	A review of geothermal energy-driven hydrogen production systems. <i>Thermal Science and Engineering Progress</i> , 2021, 22, 100854.	1.3	66
118	Geometrical effect coupled with nanofluid on heat transfer enhancement in heat exchangers. <i>International Journal of Thermofluids</i> , 2021, 10, 100072.	4.0	59
119	Intensification of heat exchanger performance utilizing nanofluids. <i>International Journal of Thermofluids</i> , 2021, 10, 100071.	4.0	53
120	Recent trends for introducing promising fuel components to enhance the anti-knock quality of gasoline: A systematic review. <i>Fuel</i> , 2021, 291, 120112.	3.4	83
121	Recent progress on Carbon-based nanomaterial for phase change materials: Prospects and challenges. <i>Thermal Science and Engineering Progress</i> , 2021, 23, 100920.	1.3	15
122	Facile synthesis of novel Cu ₂ O-g-C ₃ N ₄ /Vulcan carbon composite as anode material with enhanced electrochemical performances in urea fuel cell. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101107.	1.7	4
123	Building-integrated photovoltaic/thermal (BIPVT) systems: Applications and challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101151.	1.7	48
124	Selection Guidelines for Wind Energy Technologies. <i>Energies</i> , 2021, 14, 3244.	1.6	65
125	Application of nanofluids for enhanced waste heat recovery: A review. <i>Nano Energy</i> , 2021, 84, 105871.	8.2	93
126	Faradic capacitive deionization (FCDI) for desalination and ion removal from wastewater. <i>Chemosphere</i> , 2021, 275, 130001.	4.2	39

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127	Enhancing the performance of direct urea fuel cells using Co dendrites. <i>Applied Surface Science</i> , 2021, 555, 149698.	3.1	22
128	Enhancing power generation in microbial fuel cell using tungsten carbide on reduced graphene oxide as an efficient anode catalyst material. <i>Energy</i> , 2021, 229, 120702.	4.5	32
129	State-of-the-Art Technologies for Building-Integrated Photovoltaic Systems. <i>Buildings</i> , 2021, 11, 383.	1.4	39
130	Effects of COVID-19 on the environment: An overview on air, water, wastewater, and solid waste. <i>Journal of Environmental Management</i> , 2021, 292, 112694.	3.8	69
131	A Review on Failure Modes of Wind Turbine Components. <i>Energies</i> , 2021, 14, 5241.	1.6	36
132	Outstanding performance of direct urea/hydrogen peroxide fuel cell based on precious metal-free catalyst electrodes. <i>Energy</i> , 2021, 228, 120584.	4.5	10
133	Optimal selection and management of hybrid renewable energy System: Neom city as a case study. <i>Energy Conversion and Management</i> , 2021, 244, 114434.	4.4	102
134	Augmenting performance of fuel cells using nanofluids. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101012.	1.3	17
135	Synthesis and performance evaluation of various metal chalcogenides as active anodes for direct urea fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111470.	8.2	54
136	Potential of nanoparticles in solar thermal energy storage. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101003.	1.3	12
137	Metal-organic frameworks in cooling and water desalination: Synthesis and application. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111362.	8.2	39
138	Nanocrystalline Mg ₂ Ni for Hydrogen Storage. , 2021, , 366-366.		3
139	Lithium-Ion Batteries. , 2021, , .		2
140	Progress in the Use of Metal Chalcogenides for Batteries. , 2021, , .		1
141	Carbon-Based Nanomaterial for Emerging Desalination Technologies: Electrodialysis and Capacitive Deionization. , 2021, , 411-411.		1
142	Progress of Biomaterials Applications in Supercapacitors. , 2021, , .		0
143	PEMFC Poly-Generation Systems: Developments, Merits, and Challenges. <i>Sustainability</i> , 2021, 13, 11696.	1.6	16
144	On the contribution of solar energy to sustainable developments goals: Case study on Mohammed bin Rashid Al Maktoum Solar Park. <i>International Journal of Thermofluids</i> , 2021, 12, 100123.	4.0	111

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145	Metal-Air Batteries—A Review. <i>Energies</i> , 2021, 14, 7373.	1.6	59
146	Nickel nanorods over nickel foam as standalone anode for direct alkaline methanol and ethanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5948-5959.	3.8	56
147	Titanium dioxide-decorated rGO as an effective electrode for ultrahigh-performance capacitive deionization. <i>Separation and Purification Technology</i> , 2020, 235, 116178.	3.9	46
148	Breakthroughs in the fabrication of electrospun-nanofiber-supported thin film composite/nanocomposite membranes for the forward osmosis process: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1727-1795.	6.6	40
149	Fractional-order electric double-layer capacitors with tunable low-frequency impedance phase angle and energy storage capabilities. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	18
150	Nonprecious anodic catalysts for low-molecular-hydrocarbon fuel cells: Theoretical consideration and current progress. <i>Progress in Energy and Combustion Science</i> , 2020, 77, 100805.	15.8	107
151	Data on fuzzy logic based-modelling and optimization of recovered lipid from microalgae. <i>Data in Brief</i> , 2020, 28, 104931.	0.5	8
152	Waste heat-driven desalination systems: Perspective. <i>Energy</i> , 2020, 209, 118373.	4.5	91
153	A composite of graphitic carbon nitride and Vulcan carbon as an effective catalyst support for Ni in direct urea fuel cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 116, 160-168.	2.7	17
154	Facile and low-cost synthesis route for graphene deposition over cobalt dendrites for direct methanol fuel cell applications. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 115, 321-330.	2.7	46
155	Prospects of Fuel Cell Combined Heat and Power Systems. <i>Energies</i> , 2020, 13, 4104.	1.6	79
156	Environmental impact of desalination technologies: A review. <i>Science of the Total Environment</i> , 2020, 748, 141528.	3.9	235
157	Recent progress in environmentally friendly bio-electrochemical devices for simultaneous water desalination and wastewater treatment. <i>Science of the Total Environment</i> , 2020, 748, 141046.	3.9	81
158	Recent progress of graphene based nanomaterials in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2020, 749, 141225.	3.9	105
159	Significance of diffusion layers on the performance of liquid and vapor feed passive direct methanol fuel cells. <i>Energy</i> , 2020, 209, 118492.	4.5	46
160	Radial Movement Optimization Based Optimal Operating Parameters of a Capacitive Deionization Desalination System. <i>Processes</i> , 2020, 8, 964.	1.3	7
161	A Carbon-Cloth Anode Electroplated with Iron Nanostructure for Microbial Fuel Cell Operated with Real Wastewater. <i>Sustainability</i> , 2020, 12, 6538.	1.6	60
162	Synthesis of single and bimetallic oxide-doped rGO as a possible electrode for capacitive deionization. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 745-755.	1.5	13

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163	Improving fuel cell performance via optimal parameters identification through fuzzy logic based-modeling and optimization. <i>Energy</i> , 2020, 204, 117976.	4.5	49
164	Synthesis and testing of cobalt leaf-like nanomaterials as an active catalyst for ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17311-17319.	3.8	39
165	Fuzzy modeling and particle swarm optimization for determining the optimal operating parameters to enhance the bio-methanol production from sugar cane bagasse. <i>International Journal of Energy Research</i> , 2020, 44, 8964-8973.	2.2	34
166	Environmental impact of desalination processes: Mitigation and control strategies. <i>Science of the Total Environment</i> , 2020, 740, 140125.	3.9	126
167	The Effect of a New Coating on the Drying Performance of Fruit and Vegetables Products: Experimental Investigation and Artificial Neural Network Modeling. <i>Foods</i> , 2020, 9, 308.	1.9	8
168	Recent progress on the utilization of waste heat for desalination: A review. <i>Energy Conversion and Management</i> , 2020, 221, 113105.	4.4	133
169	Stability, thermophysical and electrical properties of synthesized carbon nanofiber and reduced-graphene oxide-based nanofluids and their hybrid along with fuzzy modeling approach. <i>Powder Technology</i> , 2020, 364, 795-809.	2.1	87
170	Application of artificial intelligence to maximize methane production from waste paper. <i>International Journal of Energy Research</i> , 2020, 44, 9598-9608.	2.2	13
171	Titanium dioxide-coated nickel foam photoelectrodes for direct urea fuel cell applications. <i>Energy</i> , 2020, 208, 118253.	4.5	29
172	Environmental impact of emerging desalination technologies: A preliminary evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104099.	3.3	102
173	Developing a fuzzy-model with particle swarm optimization-based for improving the conversion and gasification rate of palm kernel shell. <i>Renewable Energy</i> , 2020, 166, 125-135.	4.3	22
174	Comparative analysis of liquid versus vapor-feed passive direct methanol fuel cells. <i>Renewable Energy</i> , 2019, 131, 563-584.	4.3	61
175	Application of fuzzy modelling and Particle Swarm Optimization to enhance lipid extraction from microalgae. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 35, 73-79.	1.7	24
176	Effect of humidification of reactive gases on the performance of a proton exchange membrane fuel cell. <i>Science of the Total Environment</i> , 2019, 688, 1016-1035.	3.9	52
177	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2403-A2408.	1.3	6
178	Dataset on fuzzy logic based-modelling and optimization of thermophysical properties of nanofluid mixture. <i>Data in Brief</i> , 2019, 26, 104547.	0.5	4
179	Performance evaluation and optimal design of stand-alone solar PV-battery system for irrigation in isolated regions: A case study in Al Minya (Egypt). <i>Sustainable Energy Technologies and Assessments</i> , 2019, 36, 100556.	1.7	56
180	A novel statistical performance evaluation of most modern optimization-based global MPPT techniques for partially shaded PV system. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109372.	8.2	118

#	ARTICLE	IF	CITATIONS
181	Synthesis and characterization of Co and Titania nanoparticle -intercalated rGO as a high capacitance electrode for CDI. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103441.	3.3	27
182	Direct urea fuel cells: Challenges and opportunities. <i>Journal of Power Sources</i> , 2019, 417, 159-175.	4.0	234
183	Maximizing SOFC performance through optimal parameters identification by modern optimization algorithms. <i>Renewable Energy</i> , 2019, 138, 458-464.	4.3	102
184	Enhancing the performance of automotive radiators using nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 183-194.	8.2	146
185	Fuzzy modeling and optimization for experimental thermophysical properties of water and ethylene glycol mixture for Al ₂ O ₃ and TiO ₂ based nanofluids. <i>Powder Technology</i> , 2019, 353, 345-358.	2.1	70
186	Energy efficiency improvements by investigating the water flooding management on proton exchange membrane fuel cell (PEMFC). <i>Energy</i> , 2019, 179, 246-267.	4.5	293
187	Influence of Sn Content, Nanostructural Morphology, and Synthesis Temperature on the Electrochemical Active Area of Ni-Sn/C Nanocomposite: Verification of Methanol and Urea Electrooxidation. <i>Catalysts</i> , 2019, 9, 330.	1.6	22
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189	Fuzzy modeling and parameters optimization for the enhancement of biodiesel production from waste frying oil over montmorillonite clay K-30. <i>Science of the Total Environment</i> , 2019, 666, 821-827.	3.9	96
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194	On the technical challenges affecting the performance of direct internal reforming biogas solid oxide fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 361-375.	8.2	121
195	Acid-functionalized carbon nanofibers for high stability, thermoelectrical and electrochemical properties of nanofluids. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 50-57.	5.0	70
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197	Recent progress in the use of renewable energy sources to power water desalination plants. <i>Desalination</i> , 2018, 435, 97-113.	4.0	433
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200	Bandâ€Pass Filter and Relaxation Oscillator using Electric Doubleâ€Layer Capacitor. <i>ChemElectroChem</i> , 2018, 5, 3793-3798.	1.7	8
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237	Effect of black catalyst ionomer content on the performance of passive DMFC. Journal of Power Sources, 2010, 195, 6287-6293.	4.0	33
238	The Role of Carbon Dioxide Layer Prepared by a Porous Carbon Plate in a Passive DMFC as a Mass Transport Barrier. Journal of Chemical Engineering of Japan, 2007, 40, 1199-1204.	0.3	8
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