Abdul Ghani Olabi

List of Publications by Year
in descending order

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327 papers	23,122 citations	5126 86 h-index	12638 137 g-index
340 all docs	340 docs citations	340 times ranked	16023 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	A review on zero energy buildings â€“ Pros and cons. Energy and Built Environment, 2023, 4, 25-38.	2.9	46
3	Piezoelectric Sensors. , 2022, , 65-71.		1
4	Recent Progress of Metal-Organic Frameworks (MOFs) as Electrodes for Capacitive Deionization (CDI) Desalination. , 2022, , 566-577.		2
5	Copper-Based Metal-Organic Frameworks (MOFs) for Electroreduction of CO2. , 2022, , 544-554.		0
6	Applications of Nanofluids in Cooling of Electronic Components. , 2022, , 310-318.		6
7	Electrochemical Reduction of CO2 on Cu-Based Heterogeneous Catalysts. , 2022, , 807-815.		0
8	Future Directions for Shape Memory Alloy Development. , 2022, , 231-242.		2
9	Redox Flow Batteries. , 2022, , 176-185.		2
10	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
11	Nitridation-induced in situ coupling of Ni-Co4N particles in nitrogen-doped carbon nanosheets for hybrid supercapacitors. Chemical Engineering Journal, 2022, 428, 131888.	6.6	28
12	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
13	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
14	Introduction to Energy Storage Materials. , 2022, , 1-7.		1
15	Optimal techno-economic energy management strategy for buildingâ€™s microgrids based bald eagle search optimization algorithm. Applied Energy, 2022, 306, 118069.	5.1	45
16	Assessment of the pre-combustion carbon capture contribution into sustainable development goals SDGs using novel indicators. Renewable and Sustainable Energy Reviews, 2022, 153, 111710.	8.2	207
17	Role of carbon-based nanomaterials in improving the performance of microbial fuel cells. Energy, 2022, 240, 122478.	4.5	40
18	Structural engineering and surface modification of nickel double hydroxide nanosheets for all-solid-state asymmetric supercapacitors. Journal of Energy Storage, 2022, 45, 103720.	3.9	8

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19	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
20	Novel promising octane hyperboosting using isoolefinic gasoline additives and its application on fuzzy modeling. International Journal of Hydrogen Energy, 2022, 47, 4932-4942.	3.8	27
21	Biogas role in achievement of the sustainable development goals: Evaluation, Challenges, and Guidelines. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104207.	2.7	107
22	Heat pipe-based waste heat recovery systems: Background and applications. Thermal Science and Engineering Progress, 2022, 29, 101221.	1.3	31
23	Electric vehicle impact on energy industry, policy, technical barriers, and power systems. International Journal of Thermofluids, 2022, 13, 100134.	4.0	48
24	Prospects of Thermoelectric Generators with Nanofluid. Thermal Science and Engineering Progress, 2022, 29, 101207.	1.3	17
25	Renewable energy and climate change. Renewable and Sustainable Energy Reviews, 2022, 158, 112111.	8.2	531
26	Phase change materials based on nanoparticles for enhancing the performance of solar photovoltaic panels: A review. Journal of Energy Storage, 2022, 48, 103937.	3.9	51
27	Applicability of Hydropower Generation and Pumped Hydro Energy Storage in the Middle East and North Africa. Energies, 2022, 15, 2412.	1.6	31
28	Effect of Bipolar Plate Material on Proton Exchange Membrane Fuel Cell Performance. Energies, 2022, 15, 1886.	1.6	9
29	Optimal adaptive fuzzy management strategy for fuel cell-based DC microgrid. Energy, 2022, 247, 123447.	4.5	23
30	Increasing bio-hydrogen production-based steam reforming ANFIS based model and metaheuristics. Engineering Analysis With Boundary Elements, 2022, 138, 202-210.	2.0	12
31	Supercapacitors as next generation energy storage devices: Properties and applications. Energy, 2022, 248, 123617.	4.5	244
32	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
33	Thermal management systems based on heat pipes for batteries in EVs/HEVs. Journal of Energy Storage, 2022, 51, 104384.	3.9	38
34	Multi-criteria decision making for different concentrated solar thermal power technologies. Sustainable Energy Technologies and Assessments, 2022, 52, 102118.	1.7	21
35	Structural tuneability and electrochemical energy storage applications of <scp>resorcinolâ€formaldehyde</scp> â€based carbon aerogels. International Journal of Energy Research, 2022, 46, 5478-5502.	2.2	10
36	All Transition Metal Selenide Composed Highâ€Energy Solidâ€State Hybrid Supercapacitor. Small, 2022, 18, e2200248.	5.2	49

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37	Battery thermal management systems based on nanofluids for electric vehicles. Journal of Energy Storage, 2022, 50, 104385.	3.9	45
38	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
39	Progress of artificial neural networks applications in hydrogen production. Chemical Engineering Research and Design, 2022, 182, 66-86.	2.7	45
40	Robust parameter estimation approach of Lithiumâ€ion batteries employing bald eagle search algorithm. International Journal of Energy Research, 2022, 46, 10564-10575.	2.2	15
41	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. Energy, 2022, 254, 123987.	4.5	74
42	Finding best operational conditions of PEM fuel cell using adaptive neuro-fuzzy inference system and metaheuristics. Energy Reports, 2022, 8, 6181-6190.	2.5	10
43	Performance improvement of coâ€culture inoculated microbial fuel cell using fuzzy modelling and Harris hawks optimization. International Journal of Energy Research, 2022, 46, 14396-14407.	2.2	8
44	Evaluation of Growth Rate and Biomass Productivity of Scenedesmus quadricauda and Chlorella vulgaris under Different LED Wavelengths and Photoperiods. Sustainability, 2022, 14, 6108.	1.6	10
45	Accurate parameter estimation methodology applied to model proton exchange membrane fuel cell. Energy, 2022, 255, 124454.	4.5	20
46	Novel Trends in Proton Exchange Membrane Fuel Cells. Energies, 2022, 15, 4949.	1.6	17
47	The role of wastewater treatment in achieving sustainable development goals (SDGs) and sustainability guideline. Energy Nexus, 2022, 7, 100112.	3.3	111
48	Potential applications of phase change materials for batteries' thermal management systems in electric vehicles. Journal of Energy Storage, 2022, 54, 105204.	3.9	33
49	Performance evaluation of an air breathing polymer electrolyte membrane (PEM) fuel cell in harsh environments â€“ A case study under Saudi Arabia's ambient condition. International Journal of Hydrogen Energy, 2021, 46, 23463-23479.	3.8	6
50	Large-vscale hydrogen production and storage technologies: Current status and future directions. International Journal of Hydrogen Energy, 2021, 46, 23498-23528.	3.8	226
51	Transition metal carbides and nitrides as oxygen reduction reaction catalyst or catalyst support in proton exchange membrane fuel cells (PEMFCs). International Journal of Hydrogen Energy, 2021, 46, 23529-23547.	3.8	88
52	A novel strategy based on salp swarm algorithm for extracting the maximum power of proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 6087-6099.	3.8	57
53	Proton exchange membrane fuel cell performance prediction using artificial neural network. International Journal of Hydrogen Energy, 2021, 46, 6037-6050.	3.8	39
54	Compressed air energy storage systems: Components and operating parameters â€“ A review. Journal of Energy Storage, 2021, 34, 102000.	3.9	138

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55	A comparison on the dynamical performance of a proton exchange membrane fuel cell (PEMFC) with traditional serpentine and an open pore cellular foam material flow channel. International Journal of Hydrogen Energy, 2021, 46, 5984-5998.	3.8	19
56	Selection of proton exchange membrane fuel cell for transportation. International Journal of Hydrogen Energy, 2021, 46, 30625-30640.	3.8	67
57	Fuel cell application in the automotive industry and future perspective. Energy, 2021, 214, 118955.	4.5	377
58	Environmental aspects of fuel cells: A review. Science of the Total Environment, 2021, 752, 141803.	3.9	287
59	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
60	Environmental impacts of solar energy systems: A review. Science of the Total Environment, 2021, 754, 141989.	3.9	373
61	Evaluation of the nanofluid-assisted desalination through solar stills in the last decade. Journal of Environmental Management, 2021, 277, 111415.	3.8	107
62	Critical review of energy storage systems. Energy, 2021, 214, 118987.	4.5	359
63	Progress in carbon capture technologies. Science of the Total Environment, 2021, 761, 143203.	3.9	300
64	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
65	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
66	Optimal operating parameter determination and modeling to enhance methane production from macroalgae. Renewable Energy, 2021, 163, 2190-2197.	4.3	10
67	Recent developments in pressure retarded osmosis for desalination and power generation. Renewable and Sustainable Energy Reviews, 2021, 138, 110492.	8.2	53
68	Value added products from wastewater using bioelectrochemical systems: Current trends and perspectives. Journal of Water Process Engineering, 2021, 39, 101737.	2.6	59
69	Coâ€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
70	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
71	Smart Electronic Materials. , 2021, , .		0
72	Metal-Organic Frameworks in Membrane of Fuel Cells. , 2021, , 295-295.		0

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73	Application of graphene in energy storage device â€“ A review. Renewable and Sustainable Energy Reviews, 2021, 135, 110026.	8.2	452
74	Materials for a New Generation of Batteries. , 2021, , 59-59.		0
75	Progress in plant-based bioelectrochemical systems and their connection with sustainable development goals. Carbon Resources Conversion, 2021, 4, 169-183.	3.2	42
76	Graphene Based Materials for Supercapacitors and Fuel Cells. , 2021, , 399-399.		1
77	In-Situ Growth of MOF for Energy Conversion and Storage Devices. , 2021, , .		1
78	Metal-Organic Frameworks in Photocatalysis. , 2021, , 555-555.		0
79	Characteristics of Electrochemical Energy Storage Materials in Light of Advanced Characterization Techniques. , 2021, , .		0
80	Metal Air Batteries. , 2021, , .		1
81	Metal Organic Frameworks (MOFs) for Supercapacitor. , 2021, , 414-414.		4
82	Progress of Metal Chalcogenides in Supercapacitors. , 2021, , 424-424.		6
83	Advances in Electrolytes for Sodium-Sulfur Batteries. , 2021, , .		1
84	Bio-Based Materials in Photocatalysis. , 2021, , .		1
85	Nanostructured Materials as Electrocatalysts for Electrochemical CO2 Reduction. , 2021, , .		0
86	Metal Organic Framework in Batteries. , 2021, , 125-125.		0
87	Bio-Based Carbon Materials for Capacitive Deionization CDI Desalination Processes. , 2021, , .		3
88	Experimental and analytical study of open pore cellular foam material on the performance of proton exchange membrane electrolysers. International Journal of Thermofluids, 2021, 9, 100068.	4.0	12
89	Optimization of Fuel Cell Performance Using Computational Fluid Dynamics. Membranes, 2021, 11, 146.	1.4	12
90	Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells. Energy, 2021, 221, 119849.	4.5	44

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91	Multicriteria Decision-Making to Determine the Optimal Energy Management Strategy of Hybrid PVâ€“Diesel Battery-Based Desalination System. Sustainability, 2021, 13, 4202.	1.6	10
92	Environmental impacts of nanofluids: A review. Science of the Total Environment, 2021, 763, 144202.	3.9	51
93	Critical Review of Flywheel Energy Storage System. Energies, 2021, 14, 2159.	1.6	94
94	Thermophysical properties of graphene-based nanofluids. International Journal of Thermofluids, 2021, 10, 100073.	4.0	81
95	Fuel cells for carbon capture applications. Science of the Total Environment, 2021, 769, 144243.	3.9	92
96	Fuzzy modeling and particle swarm optimization of Al2O3/SiO2 nanofluid. International Journal of Thermofluids, 2021, 10, 100084.	4.0	41
97	Geometrical effect coupled with nanofluid on heat transfer enhancement in heat exchangers. International Journal of Thermofluids, 2021, 10, 100072.	4.0	59
98	Intensification of heat exchanger performance utilizing nanofluids. International Journal of Thermofluids, 2021, 10, 100071.	4.0	53
99	Recent trends for introducing promising fuel components to enhance the anti-knock quality of gasoline: A systematic review. Fuel, 2021, 291, 120112.	3.4	83
100	Recent progress on Carbon-based nanomaterial for phase change materials: Prospects and challenges. Thermal Science and Engineering Progress, 2021, 23, 100920.	1.3	15
101	Building-integrated photovoltaic/thermal (BIPVT) systems: Applications and challenges. Sustainable Energy Technologies and Assessments, 2021, 45, 101151.	1.7	48
102	Selection Guidelines for Wind Energy Technologies. Energies, 2021, 14, 3244.	1.6	65
103	Faradic capacitive deionization (FCDI) for desalination and ion removal from wastewater. Chemosphere, 2021, 275, 130001.	4.2	39
104	Enhancing the performance of direct urea fuel cells using Co dendrites. Applied Surface Science, 2021, 555, 149698.	3.1	22
105	State-of-the-Art Technologies for Building-Integrated Photovoltaic Systems. Buildings, 2021, 11, 383.	1.4	39
106	A Review on Failure Modes of Wind Turbine Components. Energies, 2021, 14, 5241.	1.6	36
107	Mathematical model of a proton-exchange membrane (PEM) fuel cell. International Journal of Thermofluids, 2021, 11, 100110.	4.0	37
108	Optimal selection and management of hybrid renewable energy System: Neom city as a case study. Energy Conversion and Management, 2021, 244, 114434.	4.4	102

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109	Augmenting performance of fuel cells using nanofluids. Thermal Science and Engineering Progress, 2021, 25, 101012.	1.3	17
110	Synthesis and performance evaluation of various metal chalcogenides as active anodes for direct urea fuel cells. Renewable and Sustainable Energy Reviews, 2021, 150, 111470.	8.2	54
111	Metal-organic frameworks in cooling and water desalination: Synthesis and application. Renewable and Sustainable Energy Reviews, 2021, 149, 111362.	8.2	39
112	Lithium-Ion Batteries. , 2021, , .		2
113	Materials in PEM Fuel Cells. , 2021, , 256-256.		1
114	Progress in the Use of Metal Chalcogenides for Batteries. , 2021, , .		1
115	Carbon-Based Nanomaterial for Emerging Desalination Technologies: Electrodialysis and Capacitive Deionization. , 2021, , 411-411.		1
116	Progress of Biomaterials Applications in Supercapacitors. , 2021, , .		0
117	Technical and Commercial Challenges of Proton-Exchange Membrane (PEM) Fuel Cells. Energies, 2021, 14, 144.	1.6	71
118	PEMFC Poly-Generation Systems: Developments, Merits, and Challenges. Sustainability, 2021, 13, 11696.	1.6	16
119	On the contribution of solar energy to sustainable developments goals: Case study on Mohammed bin Rashid Al Maktoum Solar Park. International Journal of Thermofluids, 2021, 12, 100123.	4.0	111
120	Review of solar photovoltaic cooling systems technologies with environmental and economical assessment. Journal of Cleaner Production, 2021, 326, 129421.	4.6	46
121	Metal-Air Batteriesâ€"A Review. Energies, 2021, 14, 7373.	1.6	59
122	Geothermal based hybrid energy systems, toward eco-friendly energy approaches. Renewable Energy, 2020, 147, 2003-2012.	4.3	142
123	Economic, technical, and environmental viability of biodiesel blends derived from coffee waste. Renewable Energy, 2020, 147, 1880-1894.	4.3	26
124	A short review on the techniques of waste heat recovery from domestic applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 3019-3034.	1.2	28
125	Data on fuzzy logic based-modelling and optimization of recovered lipid from microalgae. Data in Brief, 2020, 28, 104931.	0.5	8
126	Performance investigation of multiwall carbon nanotubes based water/oil nanofluids for high pressure and high temperature solar thermal technologies for sustainable energy systems. Energy Conversion and Management, 2020, 225, 113453.	4.4	33

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127	Waste heat-driven desalination systems: Perspective. Energy, 2020, 209, 118373.	4.5	91
128	Facile and low-cost synthesis route for graphene deposition over cobalt dendrites for direct methanol fuel cell applications. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 321-330.	2.7	46
129	Bipolar Plate Materials. , 2020, , 273-273.		0
130	Prospects of Fuel Cell Combined Heat and Power Systems. Energies, 2020, 13, 4104.	1.6	79
131	Environmental impact of desalination technologies: A review. Science of the Total Environment, 2020, 748, 141528.	3.9	235
132	Recent progress of graphene based nanomaterials in bioelectrochemical systems. Science of the Total Environment, 2020, 749, 141225.	3.9	105
133	Review of the regulations and techniques to eliminate toxic emissions from diesel engine cars. Science of the Total Environment, 2020, 748, 141249.	3.9	53
134	Comparative life cycle assessment for PEMFC stack including fuel storage materials in UAE. , 2020, , .		5
135	A Carbon-Cloth Anode Electroplated with Iron Nanostructure for Microbial Fuel Cell Operated with Real Wastewater. Sustainability, 2020, 12, 6538.	1.6	60
136	Fuzzy modeling and particle swarm optimization for determining the optimal operating parameters to enhance the bioâ€methanol production from sugar cane bagasse. International Journal of Energy Research, 2020, 44, 8964-8973.	2.2	34
137	Environmental impact of desalination processes: Mitigation and control strategies. Science of the Total Environment, 2020, 740, 140125.	3.9	126
138	Status and perspective of CO2 absorption process. Energy, 2020, 205, 118057.	4.5	54
139	Design of Experiment (DOE) Analysis of 5-Cell Stack Fuel Cell Using Three Bipolar Plate Geometry Designs. Sustainability, 2020, 12, 4488.	1.6	22
140	Performance Prediction of Proton Exchange Membrane Fuel Cells (PEMFC) Using Adaptive Neuro Inference System (ANFIS). Sustainability, 2020, 12, 4952.	1.6	31
141	Recent progress on the utilization of waste heat for desalination: A review. Energy Conversion and Management, 2020, 221, 113105.	4.4	133
142	Application of artificial intelligence to maximize methane production from waste paper. International Journal of Energy Research, 2020, 44, 9598-9608.	2.2	13
143	DeNOx removal techniques for automotive applications â€“ A review. Environmental Advances, 2020, 2, 100021.	2.2	14
144	Environmental impact of emerging desalination technologies: A preliminary evaluation. Journal of Environmental Chemical Engineering, 2020, 8, 104099.	3.3	102

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145	Developing a fuzzy-model with particle swarm optimization-based for improving the conversion and gasification rate of palm kernel shell. Renewable Energy, 2020, 166, 125-135.	4.3	22
146	Comprehensive evaluation of the life cycle of liquid and solid fuels derived from recycled coffee waste. Resources, Conservation and Recycling, 2019, 150, 104446.	5.3	16
147	Application of fuzzy modelling and Particle Swarm Optimization to enhance lipid extraction from microalgae. Sustainable Energy Technologies and Assessments, 2019, 35, 73-79.	1.7	24
148	Technical evaluation of proton exchange membrane (PEM) fuel cell performance â€“ A review of the effects of bipolar plates coating. Renewable and Sustainable Energy Reviews, 2019, 113, 109286.	8.2	80
149	Effect of humidification of reactive gases on the performance of a proton exchange membrane fuel cell. Science of the Total Environment, 2019, 688, 1016-1035.	3.9	52
150	Desert Palm Date Seeds as a Biodiesel Feedstock: Extraction, Characterization, and Engine Testing. Energies, 2019, 12, 3147.	1.6	17
151	Heteroatom doped high porosity carbon nanomaterials as electrodes for energy storage in electrochemical capacitors: A review. Journal of Science: Advanced Materials and Devices, 2019, 4, 341-352.	1.5	104
152	A novel statistical performance evaluation of most modern optimization-based global MPPT techniques for partially shaded PV system. Renewable and Sustainable Energy Reviews, 2019, 115, 109372.	8.2	118
153	Optimal parameter identification of triple-junction photovoltaic panel based on enhanced moth search algorithm. Energy, 2019, 188, 116025.	4.5	65
154	Maximizing SOFC performance through optimal parameters identification by modern optimization algorithms. Renewable Energy, 2019, 138, 458-464.	4.3	102
155	A comprehensive study of the effect of bipolar plate (BP) geometry design on the performance of proton exchange membrane (PEM) fuel cells. Renewable and Sustainable Energy Reviews, 2019, 111, 236-260.	8.2	156
156	Material degradation of components in polymer electrolyte membrane (PEM) electrolytic cell and mitigation mechanisms: A review. Renewable and Sustainable Energy Reviews, 2019, 111, 1-14.	8.2	109
157	Numerical modelling and CFD simulation of a polymer electrolyte membrane (PEM) fuel cell flow channel using an open pore cellular foam material. Science of the Total Environment, 2019, 678, 728-740.	3.9	67
158	Energy efficiency improvements by investigating the water flooding management on proton exchange membrane fuel cell (PEMFC). Energy, 2019, 179, 246-267.	4.5	293
159	Overview of ocean power technology. Energy, 2019, 175, 165-181.	4.5	118
160	Fuzzy modeling and parameters optimization for the enhancement of biodiesel production from waste frying oil over montmorillonite clay K-30. Science of the Total Environment, 2019, 666, 821-827.	3.9	96
161	Fuel cell as an effective energy storage in reverse osmosis desalination plant powered by photovoltaic system. Energy, 2019, 175, 423-433.	4.5	170
162	Comprehensive investigation on hydrogen and fuel cell technology in the aviation and aerospace sectors. Renewable and Sustainable Energy Reviews, 2019, 106, 31-40.	8.2	325

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163	Potential of tri-reforming process and membrane technology for improving ammonia production and CO2 reduction. Science of the Total Environment, 2019, 664, 567-575.	3.9	20
164	Emissions from Combustion of Second-Generation Biodiesel Produced from Seeds of Date Palm Fruit (Phoenix dactylifera L.). Applied Sciences (Switzerland), 2019, 9, 3720.	1.3	4
165	Improving the environmental impact of palm kernel shell through maximizing its production of hydrogen and syngas using advanced artificial intelligence. Science of the Total Environment, 2019, 658, 1150-1160.	3.9	51
166	Outlook of carbon capture technology and challenges. Science of the Total Environment, 2019, 657, 56-72.	3.9	281
167	Experimental investigation on the production of biogas from waste food. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2051-2060.	1.2	12
168	Fuzzy-modeling with Particle Swarm Optimization for enhancing the production of biodiesel from Microalga. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2094-2103.	1.2	65
169	Fuel cell membranes â€“ Pros and cons. Energy, 2019, 172, 155-172.	4.5	163
170	Prospects and challenges of concentrated solar photovoltaics and enhanced geothermal energy technologies. Science of the Total Environment, 2019, 659, 851-861.	3.9	101
171	An iterative code to investigate heat pump performance improvement by exhaust gases heat recovery. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2207-2218.	1.2	5
172	A numerical and experimental study of a new design of closed dynamic respiration chamber. Computers and Electronics in Agriculture, 2018, 145, 326-340.	3.7	1
173	Mixed numerical - Experimental approach to enhance the heat pump performance by drain water heat recovery. Energy, 2018, 149, 1010-1021.	4.5	23
174	Waste paper and macroalgae co-digestion effect on methane production. Energy, 2018, 154, 119-125.	4.5	34
175	Study and simulation of the energy performances of a grid-connected PV system supplying a residential house in north of Algeria. Energy, 2018, 152, 445-454.	4.5	27
176	Improvement of methane production from P.Âcanaliculata through mechanical pretreatment. Renewable Energy, 2018, 119, 73-78.	4.3	40
177	Optimisation of Tray Drier Microalgae Dewatering Techniques Using Response Surface Methodology. Energies, 2018, 11, 2327.	1.6	16
178	Water Electrolysis Technology. , 2018, , .		4
179	Effect of Bipolar Plate Materials on Performance of Fuel Cells. , 2018, , .		12
180	Evaluating the Effect of Metal Bipolar Plate Coating on the Performance of Proton Exchange Membrane Fuel Cells. Energies, 2018, 11, 3203.	1.6	71

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182	Editorial: Industrial waste heat recovery. Energy, 2018, 160, 1-2.	4.5	106
183	Pretreatment techniques used in biogas production from grass. Renewable and Sustainable Energy Reviews, 2017, 68, 1193-1204.	8.2	191
184	Three-dimensional proton exchange membrane fuel cell model: Comparison of double channel and open pore cellular foam flow plates. Energy, 2017, 136, 185-195.	4.5	91
185	Renewable energy scenario and environmental aspects of soil emission measurements. Renewable and Sustainable Energy Reviews, 2017, 68, 1157-1173.	8.2	15
186	Influence of mechanical pretreatment and organic concentration of Irish brown seaweed for methane production. Energy, 2017, 118, 1079-1089.	4.5	39
187	Computational Fluid Dynamic simulation and modelling (CFX) of flow plate in PEM fuel cell using aluminum open cellular foam material. , 2017, , .		9
188	Application of Open Pore Cellular Foam for air breathing PEM fuel cell. International Journal of Hydrogen Energy, 2017, 42, 25630-25638.	3.8	47
189	Ex-situ evaluation of PTFE coated metals in a proton exchange membrane fuel cell environment. Surface and Coatings Technology, 2017, 323, 10-17.	2.2	21
190	Developments of electric cars and fuel cell hydrogen electric cars. International Journal of Hydrogen Energy, 2017, 42, 25695-25734.	3.8	337
191	Mechanical pretreatment of waste paper for biogas production. Waste Management, 2017, 68, 157-164.	3.7	75
192	Modelling and simulation of Proton Exchange Membrane fuel cell with serpentine bipolar plate using MATLAB. International Journal of Hydrogen Energy, 2017, 42, 25639-25662.	3.8	76
193	Prediction of the gas emission from porous media with the concern of energy and environment. Renewable and Sustainable Energy Reviews, 2017, 68, 1144-1156.	8.2	4
194	Study on the Key Factor Parameters to Increase Productivity in Construction and Manufacturing Industries.. IOP Conference Series: Materials Science and Engineering, 2016, 114, 012097.	0.3	0
195	Developments in fuel cell technologies in the transport sector. International Journal of Hydrogen Energy, 2016, 41, 16499-16508.	3.8	246
196	Improving and optimizing protein concentration yield from homogenized baker's yeast at different ratios of buffer solution. International Journal of Hydrogen Energy, 2016, 41, 16415-16427.	3.8	11
197	Optimisation of pack chromised stainless steel for proton exchange membrane fuel cells bipolar plates using response surface methodology. Surface and Coatings Technology, 2016, 304, 384-392.	2.2	25
198	Optimisation of biogas production from the macroalgae Laminaria sp. at different periods of harvesting in Ireland. Applied Energy, 2016, 177, 671-682.	5.1	43

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