

Enas Taha Sayed

List of Publications by Year in descending order

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94
papers

7,768
citations

41258

49
h-index

53109

85
g-index

95
all docs

95
docs citations

95
times ranked

4065
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of graphene in energy storage device " A review. Renewable and Sustainable Energy Reviews, 2021, 135, 110026.	8.2	452
2	Recent progress in the use of renewable energy sources to power water desalination plants. Desalination, 2018, 435, 97-113.	4.0	433
3	Environmental impacts of solar energy systems: A review. Science of the Total Environment, 2021, 754, 141989.	3.9	373
4	Progress in carbon capture technologies. Science of the Total Environment, 2021, 761, 143203.	3.9	300
5	Environmental aspects of fuel cells: A review. Science of the Total Environment, 2021, 752, 141803.	3.9	287
6	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
7	Environmental impact of desalination technologies: A review. Science of the Total Environment, 2020, 748, 141528.	3.9	235
8	Direct urea fuel cells: Challenges and opportunities. Journal of Power Sources, 2019, 417, 159-175.	4.0	234
9	Large-vs-scale hydrogen production and storage technologies: Current status and future directions. International Journal of Hydrogen Energy, 2021, 46, 23498-23528.	3.8	226
10	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
11	Fuel cell as an effective energy storage in reverse osmosis desalination plant powered by photovoltaic system. Energy, 2019, 175, 423-433.	4.5	170
12	Recent advances on nanofluids for low to medium temperature solar collectors: energy, exergy, economic analysis and environmental impact. Progress in Energy and Combustion Science, 2021, 84, 100898.	15.8	166
13	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
14	Recent progress on the utilization of waste heat for desalination: A review. Energy Conversion and Management, 2020, 221, 113105.	4.4	133
15	Environmental impact of desalination processes: Mitigation and control strategies. Science of the Total Environment, 2020, 740, 140125.	3.9	126
16	On the technical challenges affecting the performance of direct internal reforming biogas solid oxide fuel cells. Renewable and Sustainable Energy Reviews, 2019, 101, 361-375.	8.2	121
17	The role of wastewater treatment in achieving sustainable development goals (SDGs) and sustainability guideline. Energy Nexus, 2022, 7, 100112.	3.3	111
18	Nonprecious anodic catalysts for low-molecular-hydrocarbon fuel cells: Theoretical consideration and current progress. Progress in Energy and Combustion Science, 2020, 77, 100805.	15.8	107

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19	Evaluation of the nanofluid-assisted desalination through solar stills in the last decade. <i>Journal of Environmental Management</i> , 2021, 277, 111415.	3.8	107
20	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
21	Recent progress of graphene based nanomaterials in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2020, 749, 141225.	3.9	105
22	Maximizing SOFC performance through optimal parameters identification by modern optimization algorithms. <i>Renewable Energy</i> , 2019, 138, 458-464.	4.3	102
23	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
24	Environmental impact of emerging desalination technologies: A preliminary evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104099.	3.3	102
25	Recent progress in environmentally friendly geopolymers: A review. <i>Science of the Total Environment</i> , 2021, 762, 143166.	3.9	99
26	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
27	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
28	Fuel cells for carbon capture applications. <i>Science of the Total Environment</i> , 2021, 769, 144243.	3.9	92
29	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
30	Large scale application of carbon capture to process industries – A review. <i>Journal of Cleaner Production</i> , 2022, 362, 132300.	4.6	84
31	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
32	Catalytic activity of baker's yeast in a mediatorless microbial fuel cell. <i>Bioelectrochemistry</i> , 2012, 86, 97-101.	2.4	80
33	Prospects of Fuel Cell Combined Heat and Power Systems. <i>Energies</i> , 2020, 13, 4104.	1.6	79
34	Battery thermal management systems: Recent progress and challenges. <i>International Journal of Thermofluids</i> , 2022, 15, 100171.	4.0	78
35	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. <i>Energy</i> , 2022, 254, 123987.	4.5	74
36	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

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37	Optimal parameter identification of triple-junction photovoltaic panel based on enhanced moth search algorithm. <i>Energy</i> , 2019, 188, 116025.	4.5	65
38	Fuzzy-modeling with Particle Swarm Optimization for enhancing the production of biodiesel from Microalga. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 2094-2103.	1.2	65
39	Selection Guidelines for Wind Energy Technologies. <i>Energies</i> , 2021, 14, 3244.	1.6	65
40	Comparative analysis of liquid versus vapor-feed passive direct methanol fuel cells. <i>Renewable Energy</i> , 2019, 131, 563-584.	4.3	61
41	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
42	Electrophoretic deposition of graphene oxide on carbon brush as bioanode for microbial fuel cell operated with real wastewater. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 5975-5983.	3.8	59
43	Value added products from wastewater using bioelectrochemical systems: Current trends and perspectives. <i>Journal of Water Process Engineering</i> , 2021, 39, 101737.	2.6	59
44	Geometrical effect coupled with nanofluid on heat transfer enhancement in heat exchangers. <i>International Journal of Thermofluids</i> , 2021, 10, 100072.	4.0	59
45	Metal-Air Batteries—A Review. <i>Energies</i> , 2021, 14, 7373.	1.6	59
46	Yeast Extract as an Effective and Safe Mediator for the Baker's-Yeast-Based Microbial Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3116-3122.	1.8	57
47	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
48	Intensification of heat exchanger performance utilizing nanofluids. <i>International Journal of Thermofluids</i> , 2021, 10, 100071.	4.0	53
49	Improving the environmental impact of palm kernel shell through maximizing its production of hydrogen and syngas using advanced artificial intelligence. <i>Science of the Total Environment</i> , 2019, 658, 1150-1160.	3.9	51
50	Environmental impacts of nanofluids: A review. <i>Science of the Total Environment</i> , 2021, 763, 144202.	3.9	51
51	Continuous and scalable applications of microbial fuel cells: a critical review. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 543-578.	3.9	50
52	Building-integrated photovoltaic/thermal (BIPVT) systems: Applications and challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101151.	1.7	48
53	Electric vehicle impact on energy industry, policy, technical barriers, and power systems. <i>International Journal of Thermofluids</i> , 2022, 13, 100134.	4.0	48
54	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

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55	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
56	A review on zero energy buildings – Pros and cons. <i>Energy and Built Environment</i> , 2023, 4, 25-38.	2.9	46
57	Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells. <i>Energy</i> , 2021, 221, 119849.	4.5	44
58	Progress in plant-based bioelectrochemical systems and their connection with sustainable development goals. <i>Carbon Resources Conversion</i> , 2021, 4, 169-183.	3.2	42
59	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
60	Graphite Sheets as High-Performance Low-Cost Anodes for Microbial Fuel Cells Using Real Food Wastewater. <i>Chemical Engineering and Technology</i> , 2017, 40, 2243-2250.	0.9	40
61	Role of carbon-based nanomaterials in improving the performance of microbial fuel cells. <i>Energy</i> , 2022, 240, 122478.	4.5	40
62	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
63	Faradic capacitive deionization (FCDI) for desalination and ion removal from wastewater. <i>Chemosphere</i> , 2021, 275, 130001.	4.2	39
64	Transition metal nanoparticles doped carbon paper as a cost-effective anode in a microbial fuel cell powered by pure and mixed biocatalyst cultures. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21560-21571.	3.8	38
65	Thermal management systems based on heat pipes for batteries in EVs/HEVs. <i>Journal of Energy Storage</i> , 2022, 51, 104384.	3.9	38
66	A Review on Failure Modes of Wind Turbine Components. <i>Energies</i> , 2021, 14, 5241.	1.6	36
67	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
68	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
69	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
70	High energy storage quasi-solid-state supercapacitor enabled by metal chalcogenide nanowires and iron-based nitrogen-doped graphene nanostructures. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 711-719.	5.0	31
71	Heat pipe-based waste heat recovery systems: Background and applications. <i>Thermal Science and Engineering Progress</i> , 2022, 29, 101221.	1.3	31
72	Elimination of toxic products formation in vapor-feed passive DMFC operated by absolute methanol using air cathode filter. <i>Chemical Engineering Journal</i> , 2014, 240, 38-44.	6.6	30

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73	Critical issues in the performance of yeast based microbial fuel cell. Journal of Chemical Technology and Biotechnology, 2018, 93, 1588-1594.	1.6	28
74	The role of vacuum based technologies in solid oxide fuel cell development to utilize industrial waste carbon for power production. Renewable and Sustainable Energy Reviews, 2021, 142, 110803.	8.2	27
75	Catalytic activity of yeast extract in biofuel cell. Journal of Bioscience and Bioengineering, 2012, 114, 521-525.	1.1	22
76	Enhancing the performance of direct urea fuel cells using Co dendrites. Applied Surface Science, 2021, 555, 149698.	3.1	22
77	Multi-criteria decision making for different concentrated solar thermal power technologies. Sustainable Energy Technologies and Assessments, 2022, 52, 102118.	1.7	21
78	Accurate parameter estimation methodology applied to model proton exchange membrane fuel cell. Energy, 2022, 255, 124454.	4.5	20
79	Electricity generation from real industrial wastewater using a single-chamber air cathode microbial fuel cell with an activated carbon anode. Bioprocess and Biosystems Engineering, 2017, 40, 1151-1161.	1.7	18
80	Effective strategies for anode surface modification for power harvesting and industrial wastewater treatment using microbial fuel cells. Journal of Environmental Management, 2018, 206, 228-235.	3.8	18
81	A composite of graphitic carbon nitride and Vulcan carbon as an effective catalyst support for Ni in direct urea fuel cells. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 160-168.	2.7	17
82	Augmenting performance of fuel cells using nanofluids. Thermal Science and Engineering Progress, 2021, 25, 101012.	1.3	17
83	Prospects of Thermoelectric Generators with Nanofluid. Thermal Science and Engineering Progress, 2022, 29, 101207.	1.3	17
84	Novel Trends in Proton Exchange Membrane Fuel Cells. Energies, 2022, 15, 4949.	1.6	17
85	Progress in energy recovery and graphene usage in capacitive deionization. Critical Reviews in Environmental Science and Technology, 2022, 52, 3080-3136.	6.6	15
86	Recent progress on Carbon-based nanomaterial for phase change materials: Prospects and challenges. Thermal Science and Engineering Progress, 2021, 23, 100920.	1.3	15
87	Current progression in graphene-based membranes for low temperature fuel cells. International Journal of Hydrogen Energy, 2024, 52, 800-842.	3.8	13
88	Two dimensional Cu based nanocomposite materials for direct urea fuel cell. International Journal of Hydrogen Energy, 2021, 46, 6051-6060.	3.8	12
89	Optimization of Fuel Cell Performance Using Computational Fluid Dynamics. Membranes, 2021, 11, 146.	1.4	12
90	Yeast as a Biocatalyst in Microbial Fuel Cell. , 0, , .		11

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91	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
92	Robust parameter identification strategy of solid oxide fuel cells using bald eagle search optimization algorithm. International Journal of Energy Research, 0, , .	2.2	8
93	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
94	Performance improvement of co-culture inoculated microbial fuel cell using fuzzy modelling and Harris hawks optimization. International Journal of Energy Research, 2022, 46, 14396-14407.	2.2	8