

Khaled Elsaid

List of Publications by Year in descending order

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89
papers

4,631
citations

87888

38
h-index

102487

66
g-index

90
all docs

90
docs citations

90
times ranked

2382
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental impacts of solar energy systems: A review. Science of the Total Environment, 2021, 754, 141989.	8.0	373
2	Progress in carbon capture technologies. Science of the Total Environment, 2021, 761, 143203.	8.0	300
3	Environmental aspects of fuel cells: A review. Science of the Total Environment, 2021, 752, 141803.	8.0	287
4	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.	8.0	252
5	Environmental impact of desalination technologies: A review. Science of the Total Environment, 2020, 748, 141528.	8.0	235
6	Assessment of the pre-combustion carbon capture contribution into sustainable development goals SDGs using novel indicators. Renewable and Sustainable Energy Reviews, 2022, 153, 111710.	16.4	207
7	Recent progress on the utilization of waste heat for desalination: A review. Energy Conversion and Management, 2020, 221, 113105.	9.2	133
8	Environmental impact of desalination processes: Mitigation and control strategies. Science of the Total Environment, 2020, 740, 140125.	8.0	126
9	Evaluation of the nanofluid-assisted desalination through solar stills in the last decade. Journal of Environmental Management, 2021, 277, 111415.	7.8	107
10	Biogas role in achievement of the sustainable development goals: Evaluation, Challenges, and Guidelines. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104207.	5.3	107
11	Recent progress of graphene based nanomaterials in bioelectrochemical systems. Science of the Total Environment, 2020, 749, 141225.	8.0	105
12	Environmental impact of emerging desalination technologies: A preliminary evaluation. Journal of Environmental Chemical Engineering, 2020, 8, 104099.	6.7	102
13	Application of nanofluids for enhanced waste heat recovery: A review. Nano Energy, 2021, 84, 105871.	16.0	93
14	Waste heat-driven desalination systems: Perspective. Energy, 2020, 209, 118373.	8.8	91
15	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.	7.1	88
16	Large scale application of carbon capture to process industries – A review. Journal of Cleaner Production, 2022, 362, 132300.	9.3	84
17	Thermophysical properties of graphene-based nanofluids. International Journal of Thermofluids, 2021, 10, 100073.	7.8	81
18	Prospects of Fuel Cell Combined Heat and Power Systems. Energies, 2020, 13, 4104.	3.1	79

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19	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. <i>Energy</i> , 2022, 254, 123987.	8.8	74
20	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.	9.4	70
21	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.	7.8	69
22	Selection Guidelines for Wind Energy Technologies. <i>Energies</i> , 2021, 14, 3244.	3.1	65
23	Comparative analysis of liquid versus vapor-feed passive direct methanol fuel cells. <i>Renewable Energy</i> , 2019, 131, 563-584.	8.9	61
24	A Carbon-Cloth Anode Electroplated with Iron Nanostructure for Microbial Fuel Cell Operated with Real Wastewater. <i>Sustainability</i> , 2020, 12, 6538.	3.2	60
25	Value added products from wastewater using bioelectrochemical systems: Current trends and perspectives. <i>Journal of Water Process Engineering</i> , 2021, 39, 101737.	5.6	59
26	Geometrical effect coupled with nanofluid on heat transfer enhancement in heat exchangers. <i>International Journal of Thermofluids</i> , 2021, 10, 100072.	7.8	59
27	Metal-Air Batteriesâ€”A Review. <i>Energies</i> , 2021, 14, 7373.	3.1	59
28	Intensification of heat exchanger performance utilizing nanofluids. <i>International Journal of Thermofluids</i> , 2021, 10, 100071.	7.8	53
29	Environmental impacts of nanofluids: A review. <i>Science of the Total Environment</i> , 2021, 763, 144202.	8.0	51
30	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.	8.1	51
31	All Transition Metal Selenide Composed Highâ€”Energy Solidâ€”State Hybrid Supercapacitor. <i>Small</i> , 2022, 18, e2200248.	10.0	49
32	Building-integrated photovoltaic/thermal (BIPVT) systems: Applications and challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101151.	2.7	48
33	Engineering of magnetically separable ZnFe ₂ O ₄ @ TiO ₂ nanofibers for dye-sensitized solar cells and removal of pollutant from water. <i>Journal of Alloys and Compounds</i> , 2017, 723, 477-483.	5.5	47
34	A review on zero energy buildings â€” Pros and cons. <i>Energy and Built Environment</i> , 2023, 4, 25-38.	5.9	46
35	Battery thermal management systems based on nanofluids for electric vehicles. <i>Journal of Energy Storage</i> , 2022, 50, 104385.	8.1	45
36	Graphitic carbon nitride/carbon brush composite as a novel anode for yeast-based microbial fuel cells. <i>Energy</i> , 2021, 221, 119849.	8.8	44

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37	Progress in plant-based bioelectrochemical systems and their connection with sustainable development goals. <i>Carbon Resources Conversion</i> , 2021, 4, 169-183.	5.9	42
38	Role of carbon-based nanomaterials in improving the performance of microbial fuel cells. <i>Energy</i> , 2022, 240, 122478.	8.8	40
39	Direct alcohol fuel cells: Assessment of the fuel's safety and health aspects. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30658-30668.	7.1	39
40	Stable and effective super-hydrophilic polysulfone nanofiber mats for oil/water separation. <i>Polymer</i> , 2015, 72, 125-133.	3.8	36
41	Theoretical and experimental investigations of Co-Cu bimetallic alloys-incorporated carbon nanowires as an efficient bi-functional electrocatalyst for water splitting. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 243-253.	5.8	36
42	A Review on Failure Modes of Wind Turbine Components. <i>Energies</i> , 2021, 14, 5241.	3.1	36
43	Impact of COVID-19 on the Renewable Energy Sector and Mitigation Strategies. <i>Chemical Engineering and Technology</i> , 2022, 45, 558-571.	1.5	33
44	Application of electrochemically dissolved iron in the removal of tannic acid from water. <i>Chemical Engineering Journal</i> , 2011, 172, 970-976.	12.7	32
45	Adapting Early Transition Metal and Nonmetallic Dopants on CoFe Oxyhydroxides for Enhanced Alkaline and Neutral pH Saline Water Oxidation. <i>ACS Applied Energy Materials</i> , 2021, 4, 6942-6956.	5.1	28
46	A review of solar chimney for natural ventilation of residential and non-residential buildings. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102082.	2.7	27
47	Applicable anode based on Co ₃ O ₄ @SrCO ₃ heterostructure nanorods-incorporated CNFs with low-onset potential for DUFCS. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 625-631.	3.1	26
48	Surface microenvironment engineering of black V ₂ O ₅ nanostructures for visible light photodegradation of methylene blue. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159615.	5.5	26
49	Preparation and characterization of wollastonite/titanium oxide nanofiber bioceramic composite as a future implant material. <i>Ceramics International</i> , 2016, 42, 11525-11534.	4.8	24
50	Early Transition-Metal-Based Binary Oxide/Nitride for Efficient Electrocatalytic Hydrogen Evolution from Saline Water in Different pH Environments. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53702-53716.	8.0	22
51	Multi-criteria decision making for different concentrated solar thermal power technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102118.	2.7	21
52	Ring-opening metathesis polymerization using polyisobutylene supported Grubbs second-generation catalyst. <i>RSC Advances</i> , 2014, 4, 43766-43771.	3.6	19
53	Synthesis and catalytic activity of supported acenaphthoimidazolylidene N-heterocyclic carbene ruthenium complex for ring closing metathesis (RCM) and ring opening metathesis polymerization (ROMP). <i>Journal of Catalysis</i> , 2016, 344, 100-107.	6.2	19
54	Augmenting performance of fuel cells using nanofluids. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101012.	2.7	17

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55	Prospects of Thermoelectric Generators with Nanofluid. Thermal Science and Engineering Progress, 2022, 29, 101207.	2.7	17
56	Synthesis of Cu-g-C ₃ N ₄ /MoS ₂ composite as a catalyst for electrochemical CO ₂ reduction to alcohols. Chemical Engineering Science, 2022, 258, 117757.	3.8	17
57	Novel Trends in Proton Exchange Membrane Fuel Cells. Energies, 2022, 15, 4949.	3.1	17
58	Cu ₂ O nanoparticles decorated with MoS ₂ sheets for electrochemical reduction of CO ₂ with enhanced efficiency. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	16
59	Recent progress on Carbon-based nanomaterial for phase change materials: Prospects and challenges. Thermal Science and Engineering Progress, 2021, 23, 100920.	2.7	15
60	Surfactant/organic solvent free single-step engineering of hybrid graphene-Pt/TiO ₂ nanostructure: Efficient photocatalytic system for the treatment of wastewater coming from textile industries. Scientific Reports, 2018, 8, 14656.	3.3	14
61	Solution Combustion Synthesis of Novel S,B-Codoped CoFe Oxyhydroxides for the Oxygen Evolution Reaction in Saline Water. ACS Omega, 2022, 7, 5521-5536.	3.5	13

62

#	ARTICLE	IF	CITATIONS
73	Applications of Nanofluids in Cooling of Electronic Components. , 2022, , 310-318.		6
74	Treatment of Pharmaceutical-manufacturing Wastewaters by UV Irradiation/Hydrogen Peroxide Process. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	4
75	CePd Nanoparticles Incorporated Carbon Nanofibers as Efficient Counter Electrode for DSSCs. ChemistrySelect, 2018, 3, 12314-12319.	1.5	4
76	Metal Organic Frameworks (MOFs) for Supercapacitor. , 2021, , 414-414.		4
77	Bio-Based Carbon Materials for Capacitive Deionization CDI Desalination Processes. , 2021, , .		3
78	Capacitance of MnO ₂ Micro-Flowers Decorated CNFs in Alkaline Electrolyte and Its Bi-Functional Electrocatalytic Activity toward Hydrazine Oxidation. International Journal of Electrochemical Science, 2017, 12, 2583-2592.	1.3	2
79	Recent Progress of Metal-Organic Frameworks (MOFs) as Electrodes for Capacitive Deionization (CDI) Desalination. , 2022, , 566-577.		2
80	Future Directions for Shape Memory Alloy Development. , 2022, , 231-242.		2
81	Piezoelectric Sensors. , 2022, , 65-71.		1
82	Metal-Organic Framework (MOF) in Fuel Cells. , 2021, , 306-306.		1
83	Advances in Electrolytes for Sodium-Sulfur Batteries. , 2021, , .		1
84	Bio-Based Materials in Photocatalysis. , 2021, , .		1
85	Carbon-Based Nanomaterial for Emerging Desalination Technologies: Electrodialysis and Capacitive Deionization. , 2021, , 411-411.		1
86	Synthesis and Physicochemical Studies of Perovskite Manganite La _{0.8} Ca _{0.2} Nn _{1-x} CoxO _f (0 ≤ x ≤ 0.3). Journal of Magnetism, 2017, 22, 353-359.	0.4	1
87	Enhanced oxygen evolution reaction on polyethyleneimine functionalized graphene oxide in alkaline medium. Molecular Catalysis, 2021, 516, 111960.	2.0	1
88	Metal-Organic Frameworks in Membrane of Fuel Cells. , 2021, , 295-295.		0
89	Progress of Biomaterials Applications in Supercapacitors. , 2021, , .		0