

# Eydhah Almatrafi

## List of Publications by Year in descending order

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34  
papers

912  
citations

471509

17  
h-index

477307

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle-Assisted Low-Temperature Multi-Effect Desalination Coupled With Mechanical Vapor Compression. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2022, 144, .	1.8	2
2	Efficient removal of microplastics from wastewater by an electrocoagulation process. <i>Chemical Engineering Journal</i> , 2022, 428, 131161.	12.7	128
3	Novel synergetic integration of supercritical carbon dioxide Brayton cycle and adsorption desalination. <i>Energy</i> , 2022, 238, 121844.	8.8	16
4	A critical review of biochar-based materials for the remediation of heavy metal contaminated environment: Applications and practical evaluations. <i>Science of the Total Environment</i> , 2022, 806, 150531.	8.0	39
5	Efficient antibiotics removal via the synergistic effect of manganese ferrite and MoS <sub>2</sub> . <i>Chemosphere</i> , 2022, 288, 132494.	8.2	11
6	Self-assembly hybridization of COFs and g-C <sub>3</sub> N <sub>4</sub> : Decipher the charge transfer channel for enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1051-1063.	9.4	32
7	Pyrite-mediated advanced oxidation processes: Applications, mechanisms, and enhancing strategies. <i>Water Research</i> , 2022, 211, 118048.	11.3	53
8	Recent advances in impacts of microplastics on nitrogen cycling in the environment: A review. <i>Science of the Total Environment</i> , 2022, 815, 152740.	8.0	70
9	When chicken manure compost meets iron nanoparticles: an implication for the remediation of chlorophenothane-polluted riverine sediment. <i>Environmental Science: Nano</i> , 2022, 9, 1519-1529.	4.3	0
10	Core-shell structured nanoparticles for photodynamic therapy-based cancer treatment and related imaging. <i>Coordination Chemistry Reviews</i> , 2022, 458, 214427.	18.8	30
11	Thermodynamic investigation of a novel cooling-power cogeneration system driven by solar energy. <i>International Journal of Refrigeration</i> , 2022, 138, 244-258.	3.4	7
12	Suitable Binary and Ternary Thermodynamic Conditions for Hydrate Mixtures of CH <sub>4</sub> , CO <sub>2</sub> , and C <sub>3</sub> H <sub>8</sub> for Gas Hydrate-Based Applications. <i>ACS Omega</i> , 2022, 7, 10877-10889.	3.5	6
13	Effects of biochar-based materials on the bioavailability of soil organic pollutants and their biological impacts. <i>Science of the Total Environment</i> , 2022, 826, 153956.	8.0	25
14	Enhancing hydrogen peroxide activation of Cu Co layered double hydroxide by compositing with biochar: Performance and mechanism. <i>Science of the Total Environment</i> , 2022, 828, 154188.	8.0	33
15	Cobalt Single Atoms Anchored on Oxygen-Doped Tubular Carbon Nitride for Efficient Peroxymonosulfate Activation: Simultaneous Coordination Structure and Morphology Modulation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	97
16	Cobalt Single Atoms Anchored on Oxygen-Doped Tubular Carbon Nitride for Efficient Peroxymonosulfate Activation: Simultaneous Coordination Structure and Morphology Modulation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	25
17	Thermodynamic and exergetic assessment of a biomass derived syngas fueled gas turbine powered tri-generation system. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102099.	5.7	9
18	Biochar-based agricultural soil management: An application-dependent strategy for contributing to carbon neutrality. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112529.	16.4	39

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19	Managing Fenton-treated sediment with biochar and sheep manure compost: Effects on the evolutionary characteristics of bacterial community. <i>Journal of Environmental Management</i> , 2022, 316, 115218.	7.8	6
20	Numerical study of simultaneous use of non-Newtonian hybrid nano-coolant and thermoelectric system in cooling of lithium-ion battery and changes in the flow geometry. <i>Journal of Power Sources</i> , 2022, 540, 231626.	7.8	15
21	Microplastics in landfill and leachate: Occurrence, environmental behavior and removal strategies. <i>Chemosphere</i> , 2022, 305, 135325.	8.2	51
22	Molecular dynamics simulation of the thermal properties of the Cu-water nanofluid on a roughed Platinum surface: Simulation of phase transition in nanofluids. <i>Journal of Molecular Liquids</i> , 2021, 327, 114832.	4.9	19
23	Investigation of a Novel Solar Powered Trigeration System for Simultaneous Production of Electricity, Heating, and Refrigeration Below Freezing. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021, 143, .	1.8	8
24	A comprehensive study on the progressive development and applications of solar air heaters. <i>Solar Energy</i> , 2021, 229, 112-147.	6.1	58
25	Application of New Artificial Neural Network to Predict Heat Transfer and Thermal Performance of a Solar Air-Heater Tube. <i>Sustainability</i> , 2021, 13, 7477.	3.2	11
26	Highly efficient catalytic hydrogenation of nitrophenols by sewage sludge derived biochar. <i>Water Research</i> , 2021, 201, 117360.	11.3	41
27	Photocatalytic water purification with graphitic C3N4-based composites: Enhancement, mechanisms, and performance. <i>Applied Materials Today</i> , 2021, 24, 101118.	4.3	13
28	Performance Assessment of Using Thermoelectric Generators for Waste Heat Recovery from Vapor Compression Refrigeration Systems. <i>Energies</i> , 2021, 14, 8192.	3.1	4
29	Working fluid parametric analysis for recuperative supercritical organic Rankine cycles for medium geothermal reservoir temperatures. <i>Renewable Energy</i> , 2020, 147, 2874-2881.	8.9	35
30	Performance Improvement of a Combined Power and Cooling Cycle for Low Temperature Heat Sources Using Internal Heat Recovery and Scroll Expander. , 2019, , .		1
31	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle Assisted Low-Temperature Multi Effect Desalination Coupled With Mechanical Vapor Compression. , 2018, , .		1
32	Working fluid parametric analysis for regenerative supercritical organic Rankine cycles for medium geothermal reservoir temperatures. <i>Energy Procedia</i> , 2017, 129, 599-606.	1.8	26
33	Working Fluid Analysis for Supercritical Organic Rankine Cycles for Medium Geothermal Reservoir Temperatures. , 2017, , .		0
34	Multi Effects Desalination-Mechanical Vapor Compression Powered by Low Temperature Supercritical Organic Rankine Cycle. , 2017, , .		1