

# Roghayeh Ghasempour

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,065  
citations

218592

26  
h-index

243529

44  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , 2018, 6, 340-361.	1.9	251
2	Techno-economic analysis of a hybrid power system based on the cost-effective hydrogen production method for rural electrification, a case study in Iran. <i>Energy</i> , 2020, 190, 116421.	4.5	154
3	Numerical simulation of PV cooling by using single turn pulsating heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 203-208.	2.5	127
4	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019, 43, 1387-1410.	2.2	125
5	A proposed model to predict thermal conductivity ratio of Al <sub>2</sub> O <sub>3</sub> /EG nanofluid by applying least squares support vector machine (LSSVM) and genetic algorithm as a connectionist approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 271-281.	2.0	109
6	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , 2019, 7, 30-65.	1.9	87
7	Decision-making between renewable energy configurations and grid extension to simultaneously supply electrical power and fresh water in remote villages for five different climate zones. <i>Journal of Cleaner Production</i> , 2021, 279, 123617.	4.6	79
8	Fighting global warming by GHG removal: Destroying CFCs and HCFCs in solar-wind power plant hybrids producing renewable energy with no-intermittency. <i>International Journal of Greenhouse Gas Control</i> , 2016, 49, 449-472.	2.3	66
9	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2018, 6, 72-86.	1.3	62
10	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. <i>Energy Science and Engineering</i> , 2018, 6, 506-522.	1.9	57
11	Hydrogen production technologies: Attractiveness and future perspective. <i>International Journal of Energy Research</i> , 2020, 44, 8233-8254.	2.2	56
12	Analysis of stakeholder roles and the challenges of solar energy utilization in Iran. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 438-451.	1.2	55
13	A review on solar-assisted gas turbines. <i>Energy Science and Engineering</i> , 2018, 6, 658-674.	1.9	49
14	Thermal conductivity and dynamic viscosity modeling of Fe <sub>2</sub> O <sub>3</sub> /water nanofluid by applying various connectionist approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1301-1322.	1.2	44
15	Exergoeconomic analysis and optimization of a transcritical CO <sub>2</sub> power cycle driven by solar energy based on nanofluid with liquefied natural gas as its heat sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 451-473.	2.0	44
16	Fighting global warming by greenhouse gas removal: destroying atmospheric nitrous oxide thanks to synergies between two breakthrough technologies. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6119-6138.	2.7	43
17	An insight into the prediction of TiO <sub>2</sub> /water nanofluid viscosity through intelligence schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2381-2394.	2.0	42
18	Solar updraft power plant system: A brief review and a case study on a new system with radial partition walls in its collector. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 472-487.	8.2	41

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19	CO <sub>2</sub> Utilization via Integration of an Industrial Post-Combustion Capture Process with a Urea Plant: Process Modelling and Sensitivity Analysis. <i>Processes</i> , 2020, 8, 1144.	1.3	41
20	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , 2018, 9, 82.	1.0	39
21	Heat transfer enhancement of a microchannel heat sink with the combination of impinging jets, dimples, and side outlets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 45-56.	2.0	36
22	A review on using nanofluids in heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1847-1855.	2.0	35
23	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets " Part A: Mathematical Model and the Influence of Dimple Radius. <i>Journal of Thermal Science</i> , 2018, 27, 195-202.	0.9	32
24	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. <i>Energies</i> , 2015, 8, 12584-12602.	1.6	31
25	Investigating the effect of using <scp>PCM</scp> in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , 2020, 8, 959-972.	1.9	31
26	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. <i>Energy Science and Engineering</i> , 2019, 7, 230-254.	1.9	28
27	Optimization of Dimples in Microchannel Heat Sink with Impinging Jets"Part B: the Influences of Dimple Height and Arrangement. <i>Journal of Thermal Science</i> , 2018, 27, 321-330.	0.9	26
28	Process design and thermoeconomic evaluation of a CO <sub>2</sub> liquefaction process driven by waste exhaust heat recovery for an industrial CO <sub>2</sub> capture and utilization plant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1585-1597.	2.0	25
29	Exergoenvironmental analysis and thermoeconomic optimization of an industrial post-combustion CO <sub>2</sub> capture and utilization installation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 59, 101927.	3.3	24
30	Investigating the cytotoxicity of iron oxide nanoparticles in in vivo and in vitro studies. <i>Experimental and Toxicologic Pathology</i> , 2015, 67, 509-515.	2.1	23
31	Challenges of carbon capture technologies deployment in developing countries. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100837.	1.7	23
32	Exergetic, exergo-economic, and exergo-environmental analyses of a trigeneration system driven by biomass and natural gas. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4303-4323.	2.0	22
33	Techno-economic assessment and optimization of a solar-assisted industrial post-combustion CO <sub>2</sub> capture and utilization plant. <i>Energy Reports</i> , 2021, 7, 7390-7404.	2.5	19
34	Room temperature ammonia gas sensor based on Au/graphene nanoribbon. <i>Materials Research Express</i> , 2019, 6, 045054.	0.8	16
35	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. <i>International Journal of Low-Carbon Technologies</i> , 2019, 14, 10-22.	1.2	15
36	Multi-objective performance optimization of irreversible molten carbonate fuel cell"Stirling heat engine"reverse osmosis and thermodynamic assessment with ecological objective approach. <i>Energy Science and Engineering</i> , 2018, 6, 783-796.	1.9	14

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37	Multi-objective optimization in a finite time thermodynamic method for dish-Stirling by branch and bound method and MOPSO algorithm. <i>Frontiers in Energy</i> , 2020, 14, 649-665.	1.2	14
38	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. <i>Building Simulation</i> , 2021, 14, 391-405.	3.0	13
39	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. <i>Energy Science and Engineering</i> , 2018, 6, 624-642.	1.9	11
40	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. <i>Journal of Thermal Science</i> , 2021, 30, 1526-1540.	0.9	9
41	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> , 2022, 15, 1227-1241.	3.0	9
42	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. <i>Energies</i> , 2021, 14, 4681.	1.6	9
43	Thermo-economic analysis and multi-objective optimization of micro-CHP Stirling system for different climates of Iran. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 388-403.	1.2	8
44	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24795-24801.	4.0	7
45	Feasibility of Solar Updraft Towers as Photocatalytic Reactors for Removal of Atmospheric Methaneâ€”The Role of Catalysts and Rate Limiting Steps. <i>Frontiers in Chemistry</i> , 2021, 9, 745347.	1.8	6
46	Analysis of the Light Concentration Loss of a Fresnel CPV/T System after Dust Accumulation. <i>Journal of Thermal Science</i> , 0, , 1.	0.9	3
47	Optimization of a <scp>threeâ€dimensional</scp> electrochemical process with granular activated carbon for diclofenac removal using response surface methodology. <i>Environmental Progress and Sustainable Energy</i> , 2022, 41, e13715.	1.3	2
48	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. <i>Journal of Thermal Science</i> , 2022, 31, 712-726.	0.9	2
49	Proanthocyanidinâ€nduced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900033.	1.7	1