

# Roghayeh Ghasempour

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49  
papers

1,232  
citations

22  
h-index

34  
g-index

49  
ext. papers

1,622  
ext. citations

4.1  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
49	Solar power technology for electricity generation: A critical review. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 340-361	3.4	146
48	Numerical simulation of PV cooling by using single turn pulsating heat pipe. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 203-208	4.9	78
47	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> , <b>2020</b> , 190, 116421	7.9	77
46	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> , <b>2019</b> , 135, 271-281	4.1	75
45	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 1387-1410	4.5	72
44	Exergy and exergo-economic analysis and optimization of a solar double pressure organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 6, 72-86	3.6	51
43	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> , <b>2016</b> , 49, 449-472	4.2	51
42	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 30-65	3.4	48
41	Thermoeconomic analysis and multiobjective optimization of a combined gas turbine, steam, and organic Rankine cycle. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 506-522	3.4	38
40	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> , <b>2018</b> , 74, 1301-1322	2.3	36
39	An insight into the prediction of TiO <sub>2</sub> /water nanofluid viscosity through intelligence schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 2381-2394	4.1	33
38	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> , <b>2021</b> , 279, 123617	10.3	33
37	Analysis of stakeholder roles and the challenges of solar energy utilization in Iran. <i>International Journal of Low-Carbon Technologies</i> , <b>2018</b> , 13, 438-451	2.8	32
36	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> , <b>2017</b> , 69, 472-487	16.2	31
35	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> , <b>2020</b> , 139, 451-473	4.1	29
34	A review on solar-assisted gas turbines. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 658-674	3.4	28
33	The Influence of Non-Uniform High Heat Flux on Thermal Stress of Thermoelectric Power Generator. <i>Energies</i> , <b>2015</b> , 8, 12584-12602	3.1	27

32	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> , <b>2016</b> , 23, 6119-38	5.1	26
31	Impacts of Traffic Tidal Flow on Pollutant Dispersion in a Non-Uniform Urban Street Canyon. <i>Atmosphere</i> , <b>2018</b> , 9, 82	2.7	26
30	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> , <b>2018</b> , 27, 195-202	1.9	26
29	A review on using nanofluids in heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 1847-1855	1.8	23
28	CO2 Utilization via Integration of an Industrial Post-Combustion Capture Process with a Urea Plant: Process Modelling and Sensitivity Analysis. <i>Processes</i> , <b>2020</b> , 8, 1144	2.9	22
27	Investigating the cytotoxicity of iron oxide nanoparticles in in vivo and in vitro studies. <i>Experimental and Toxicologic Pathology</i> , <b>2015</b> , 67, 509-15		21
26	Investigating the effect of using PCM in building materials for energy saving: Case study of Sharif Energy Research Institute. <i>Energy Science and Engineering</i> , <b>2020</b> , 8, 959-972	3.4	19
25	Analysis, economical and technical enhancement of an organic Rankine cycle recovering waste heat from an exhaust gas stream. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 230-254	3.4	17
24	Hydrogen production technologies: Attractiveness and future perspective. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 8233-8254	4.5	17
23	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> , <b>2018</b> , 27, 321-330	1.9	17
22	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> , <b>2020</b> , 141, 45-56	4.1	17
21	Process design and thermoeconomic evaluation of a CO2 liquefaction process driven by waste exhaust heat recovery for an industrial CO2 capture and utilization plant. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1585-1597	4.1	14
20	Challenges of carbon capture technologies deployment in developing countries. <i>Sustainable Energy Technologies and Assessments</i> , <b>2020</b> , 42, 100837	4.7	13
19	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> , <b>2018</b> , 6, 783-796	3.4	13
18	Room temperature ammonia gas sensor based on Au/graphene nanoribbon. <i>Materials Research Express</i> , <b>2019</b> , 6, 045054	1.7	12
17	Technical and economical evaluation of grid-connected renewable power generation system for a residential urban area. <i>International Journal of Low-Carbon Technologies</i> , <b>2019</b> , 14, 10-22	2.8	11
16	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. <i>Energy Science and Engineering</i> , <b>2018</b> , 6, 624-642	3.4	10
15	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> , <b>2020</b> , 14, 649-665	2.6	8

14	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> , <b>2018</b> , 13, 388-403	2.8	7
13	Field synergy analysis of pollutant dispersion in street canyons and its optimization by adding wind catchers. <i>Building Simulation</i> , <b>2021</b> , 14, 391-405	3.9	6
12	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> ,1	4.1	5
11	Techno-economic assessment and optimization of a solar-assisted industrial post-combustion CO <sub>2</sub> capture and utilization plant. <i>Energy Reports</i> , <b>2021</b> , 7, 7390-7404	4.6	4
10	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24795-24801	9.5	3
9	Numerical Investigation on the Urban Heat Island Effect by Using a Porous Media Model. <i>Energies</i> , <b>2021</b> , 14, 4681	3.1	3
8	Influence of Dust Accumulation on the Solar Reflectivity of a Linear Fresnel Reflector. <i>Journal of Thermal Science</i> , <b>2020</b> , 30, 1526	1.9	2
7	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> , <b>2022</b> , 59, 101927	7.6	2
6	Proanthocyanidin-Induced Horizontal Arrangement in Poly(vinyl alcohol)/Graphene Composites with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900033	3.9	1
5	Optimization of a three-dimensional electrochemical process with granular activated carbon for diclofenac removal using response surface methodology. <i>Environmental Progress and Sustainable Energy</i> ,e13715	2.5	1
4	Analysis of the Light Concentration Loss of a Fresnel CPV/T System after Dust Accumulation. <i>Journal of Thermal Science</i> ,1	1.9	1
3	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> ,1	3.9	0
2	Feasibility of Solar Updraft Towers as Photocatalytic Reactors for Removal of Atmospheric Methane-The Role of Catalysts and Rate Limiting Steps. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 745347	5	0
1	A Model to Evaluate the Device-Level Performance of Thermoelectric Cooler with Thomson Effect Considered. <i>Journal of Thermal Science</i> ,1	1.9	