

Shahram Khalilarya

List of Publications by Year in descending order

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75
papers

1,989
citations

186265

28
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265206

42
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75
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75
docs citations

75
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization of power, CO ₂ emission and exergy efficiency of a novel solar-assisted CCHP system using RSM and TOPSIS coupled method. <i>Renewable Energy</i> , 2022, 185, 506-524.	8.9	28
2	Combined systems based on $\langle \text{sc} \rangle \text{OSOFC} \langle / \text{sc} \rangle$ / $\langle \text{sc} \rangle \text{HSOFC} \langle / \text{sc} \rangle$: Comparative analysis and multi-objective optimization of power and emission. <i>International Journal of Energy Research</i> , 2021, 45, 5449-5469.	4.5	14
3	A complete energetic and exergetic analysis of a solar powered trigeneration system with two novel organic Rankine cycle (ORC) configurations. <i>Journal of Cleaner Production</i> , 2021, 281, 124552.	9.3	76
4	Improvement of performance and emission in a lean-burn gas fueled spark ignition engine by using a new pre-chamber. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13637.	2.3	7
5	Design and parametric study of a novel solar-driven trigeneration application utilizing a heliostat field with thermal energy storage. <i>International Journal of Energy Research</i> , 2021, 45, 14658-14679.	4.5	14
6	Effects of changing nozzle holes-diameter in double-injection strategies using numerical modeling. <i>Australian Journal of Mechanical Engineering</i> , 2020, 18, 140-146.	2.1	0
7	Multi-objective optimization and decision analysis of a system based on biomass fueled SOFC using couple method of entropy/VIKOR. <i>Energy Conversion and Management</i> , 2020, 203, 112260.	9.2	51
8	Co-generation of electricity and heating using a SOFC-ScCO ₂ Brayton cycle-ORC integrated plant: Investigation and multi-objective optimization. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27713-27729.	7.1	36
9	A comprehensive energy efficiency study of segmented annular thermoelectric generator; thermal, exergetic and economic analysis. <i>Applied Thermal Engineering</i> , 2020, 181, 115996.	6.0	41
10	Investigation and optimization of a Co-Generation plant integrated of gasifier, gas turbine and heat pipes using minimization of Gibbs free energy, Lagrange method and response surface methodology. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19027-19044.	7.1	29
11	Multi-objective optimization of a power generation system based SOFC using Taguchi/AHP/TOPSIS triple method. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 38, 100674.	2.7	26
12	Comprehensive comparison of SOFCs with proton-conducting electrolyte and oxygen ion-conducting electrolyte: Thermo-economic analysis and multi-objective optimization. <i>Energy Conversion and Management</i> , 2020, 205, 112455.	9.2	39
13	Performance and profit analysis of thermoelectric power generators mounted on channels with different cross-sectional shapes. <i>Applied Thermal Engineering</i> , 2020, 176, 115455.	6.0	40
14	A comprehensive exergy analysis of a prototype Peltier air-cooler; experimental investigation. <i>Renewable Energy</i> , 2019, 131, 308-317.	8.9	33
15	Study of synthesis gas composition, exergy assessment, and multi-criteria decision-making analysis of fluidized bed gasifier. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27726-27740.	7.1	44
16	Experimental investigation on the effect of natural gas premixed ratio on combustion and emissions in an IDI engine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3977-3986.	3.6	10
17	Evaluation of a diesel engine optimized by non-evolutionary NLPQL and evolutionary genetic algorithms and assessing second law efficiency: Analysis in exergy loss and chemical exergy. <i>Applied Thermal Engineering</i> , 2019, 159, 113794.	6.0	4
18	Comprehensive thermodynamic investigation of three cogeneration systems including GT-HRSG/RORC as the base system, intermediate system and solar hybridized system. <i>Energy</i> , 2019, 181, 1252-1272.	8.8	12

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19	Multi-objective optimization using response surface methodology and exergy analysis of a novel integrated biomass gasification, solid oxide fuel cell and high-temperature sodium heat pipe system. Applied Thermal Engineering, 2019, 156, 627-639.	6.0	79
20	A thermodynamic and exergoeconomic numerical study of two-stage annular thermoelectric generator. Applied Thermal Engineering, 2019, 156, 371-381.	6.0	49
21	Novel experiments on COP improvement of thermoelectric air coolers. Energy Conversion and Management, 2019, 187, 328-338.	9.2	37
22	Power generation enhancement in a biomass-based combined cycle using solar energy: Thermodynamic and environmental analysis. Applied Thermal Engineering, 2019, 153, 128-141.	6.0	58
23	Application of genetic algorithm in extracting cell dielectric characteristics with electrorotation. Journal of Electrical Bioimpedance, 2019, 8, 34-39.	0.9	3
24	Diesel combustion in heavy-duty engine with single- and double-injection strategies. Journal of Mechanical Science and Technology, 2018, 32, 1889-1896.	1.5	4
25	Numerical study on the thermal and electrical performance of an annular thermoelectric generator under pulsed heat power with different types of input functions. Energy Conversion and Management, 2018, 167, 102-112.	9.2	52
26	Thermodynamic analysis of a novel combined cooling, heating and power system driven by solar energy. Applied Thermal Engineering, 2018, 129, 1219-1229.	6.0	79
27	Energy and exergy analyses of a combined cycle Kalina and organic Rankine cycles using waste heat. International Journal of Exergy, 2018, 27, 251.	0.4	9
28	An empirical correlation for exergy destruction of fluid flow through helical tubes. Applied Thermal Engineering, 2018, 140, 679-685.	6.0	23
29	Diesel engine optimization with multi-objective performance characteristics by non-evolutionary Nelder-Mead algorithm: Sobol sequence and Latin hypercube sampling methods comparison in DoE process. Fuel, 2018, 228, 349-367.	6.4	54
30	Performance assessment of a combined heat and power system: A novel integrated biomass gasification, solid oxide fuel cell and high-temperature sodium heat pipe system part I: Thermodynamic analysis. Energy Conversion and Management, 2018, 171, 287-297.	9.2	51
31	The effect of position-dependent magnetic field on nanofluid forced convective heat transfer and entropy generation in a microchannel. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 345-355.	1.6	14
32	Modeling for Shell-Side Heat Transfer Coefficient and Pressure Drop of Helical Baffle Heat Exchangers. Heat Transfer Engineering, 2017, 38, 265-277.	1.9	5
33	Effectively designed NTW shell-tube heat exchangers with segmental baffles using flow hydraulic network method. Applied Thermal Engineering, 2017, 120, 635-644.	6.0	17
34	Effectively designed shell-tube heat exchangers considering cost minimization and energy management. Heat Transfer - Asian Research, 2017, 46, 1488-1498.	2.8	6
35	A RANS simulation toward the effect of turbulence and cavitation on spray propagation and combustion characteristics. Theoretical and Computational Fluid Dynamics, 2016, 30, 349-362.	2.2	5
36	Exergoeconomic evaluation and optimisation of a novel combined power and absorption-ejector refrigeration cycle driven by natural gas. International Journal of Exergy, 2016, 19, 232.	0.4	2

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37	Energy and exergy analyses of a novel combined heating, power and absorption-ejector refrigeration cycle driven by biomass fuel. <i>International Journal of Exergy</i> , 2016, 19, 481.	0.4	2
38	An exhaustive experimental study of a novel air-water based thermoelectric cooling unit. <i>Applied Energy</i> , 2016, 181, 357-366.	10.1	66
39	Comparing multi-objective non-evolutionary NLPQL and evolutionary genetic algorithm optimization of a DI diesel engine: DoE estimation and creating surrogate model. <i>Energy Conversion and Management</i> , 2016, 126, 385-399.	9.2	27
40	Analysis of exergy and total life cycle cost for segmental and helical baffles in a shell-and-tube heat exchanger. <i>International Journal of Exergy</i> , 2016, 20, 269.	0.4	3
41	Numerical simulation of diesel injector nozzle flow and in-cylinder spray evolution. <i>Applied Mathematical Modelling</i> , 2016, 40, 8617-8629.	4.2	16
42	3-D numerical consideration of nozzle structure on combustion and emission characteristics of DI diesel injector. <i>Applied Mathematical Modelling</i> , 2016, 40, 8630-8646.	4.2	9
43	Proposal of a combined heat and power plant hybridized with regeneration organic Rankine cycle: Energy-Exergy evaluation. <i>Energy Conversion and Management</i> , 2016, 122, 357-365.	9.2	45
44	A comprehensive second law analysis for tube-in-tube helically coiled heat exchangers. <i>Experimental Thermal and Fluid Science</i> , 2016, 76, 118-125.	2.7	41
45	Entropy and exergy analysis of a Ranque-Hilsch vortex tube with two vortex chambers. <i>International Journal of Exergy</i> , 2016, 19, 55.	0.4	2
46	Appraisal of artificial neural networks to the emission analysis and prediction of CO ₂ , soot, and NO _x of n-heptane fueled engine. <i>Journal of Cleaner Production</i> , 2016, 112, 1729-1739.	9.3	60
47	Three-dimensional energetic and exergetic analysis of the injection orientation of <scp>DI</scp> diesel engine under different engine speeds. <i>Energy Science and Engineering</i> , 2015, 3, 360-370.	4.0	5
48	Thermodynamic evaluation of gas compression station from the point of energy and exergy view with an approach to reduce energy consumptions and emissions: A case study. <i>Mechanics and Industry</i> , 2015, 16, 303.	1.3	0
49	Energy and exergoeconomic analysis of the gas compression station: A case study. <i>Mechanics and Industry</i> , 2015, 16, 510.	1.3	0
50	The effects of injected fuel temperature on exergy balance under the various operating loads in a DI diesel engine. <i>International Journal of Exergy</i> , 2015, 17, 35.	0.4	20
51	On the modeling of convective heat transfer coefficient of hydrogen fueled diesel engine as affected by combustion parameters using a coupled numerical-artificial neural network approach. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4370-4381.	7.1	10
52	Towards modeling of combined cooling, heating and power system with artificial neural network for exergy destruction and exergy efficiency prognostication of tri-generation components. <i>Applied Thermal Engineering</i> , 2015, 89, 156-168.	6.0	12
53	Implementation of ANN on CCHP system to predict trigeneration performance with consideration of various operative factors. <i>Energy Conversion and Management</i> , 2015, 101, 503-514.	9.2	23
54	Adaptive neuro-fuzzy system (ANFIS) based appraisal of accumulated heat from hydrogen-fueled engine. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8206-8218.	7.1	10

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55	Exergy analysis of combustion in VGT-modified diesel engine with detailed chemical kinetics mechanism. <i>Energy</i> , 2015, 93, 740-748.	8.8	14
56	A numerical investigation on the wall heat flux in a DI diesel engine fueled with n-heptane using a coupled CFD and ANN approach. <i>Fuel</i> , 2015, 140, 227-236.	6.4	26
57	A numerical investigation on the influence of EGR in a supercharged SI engine fueled with gasoline and alternative fuels. <i>Energy Conversion and Management</i> , 2014, 83, 260-269.	9.2	50
58	Tube bundle replacement for segmental and helical shell and tube heat exchangers: Experimental test and economic analysis. <i>Applied Thermal Engineering</i> , 2014, 62, 622-632.	6.0	21
59	Energy and exergy assessments of a novel trigeneration system based on a solid oxide fuel cell. <i>Energy Conversion and Management</i> , 2014, 87, 318-327.	9.2	174
60	Numerical energetic and exergetic analysis of CI diesel engine performance for different fuels of hydrogen, dimethyl ether, and diesel under various engine speeds. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9515-9526.	7.1	42
61	Engine structure modifications effect on the flow behavior, combustion, and performance characteristics of DI diesel engine. <i>Energy Conversion and Management</i> , 2014, 85, 20-32.	9.2	55
62	Diesel engine spray characteristics prediction with hybridized artificial neural network optimized by genetic algorithm. <i>Energy</i> , 2014, 71, 656-664.	8.8	66
63	Numerical investigation of the effect of injection timing under various equivalence ratios on energy and exergy terms in a direct injection SI hydrogen fueled engine. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1189-1199.	7.1	43
64	Energy and exergy analyses of homogeneous charge compressin ignition (HCCI) engine. <i>Thermal Science</i> , 2013, 17, 107-117.	1.1	18
65	A semi-analytical model for the prediction of the behavior of turbulent coaxial gaseous jets. <i>Thermal Science</i> , 2013, 17, 1221-1232.	1.1	2
66	Computational fluid dynamics simulation of the combustion process, emission formation and the flow field in an in-direct injection diesel engine. <i>Thermal Science</i> , 2013, 17, 11-23.	1.1	12
67	Exergy and exergoeconomic analysis and optimisation of diesel engine based Combined Heat and Power (CHP) system using genetic algorithm. <i>International Journal of Exergy</i> , 2013, 12, 139.	0.4	29
68	Extended semi-analytical model for the prediction of flow and concentration fields in a tangentially-fired furnace. <i>Thermal Science</i> , 2013, 17, 1233-1243.	1.1	2
69	Exegetic Modeling and Second Law Based Optimization of Cogeneration Heat and Power System Using Evolutionary Algorithm (Genetic Algorithm). , 2010, , .		1
70	A numerical model to calculate Elastohydrodynamic (EHL) properties in involute spur gears. , 2010, , .		1
71	An optimization approach for design parameters in involute spur gears considering transmission error, gear size and lubrication parameters using Grey Relational Analysis Technique. , 2010, , .		0
72	Determination of flow pattern and its effect on NOx emission in a tangentially fired single chamber square furnace. <i>Thermal Science</i> , 2010, 14, 493-503.	1.1	10

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73	Developing of a new comprehensive spark ignition engines code for heat loss analysis within combustion chamber walls. Thermal Science, 2010, 14, 1013-1025.	1.1	4
74	A Mathematical-Numerical Model to Calculate Load Distribution, Contact Stiffness and Transmission Error in Involute Spur Gears. , 2009, , .		6
75	On the modeling of a MEMS-based capacitive wall shear stress sensor. Measurement: Journal of the International Measurement Confederation, 2009, 42, 202-207.	5.0	11