

Arash Nemati

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Version: 2024-04-28

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29
papers

968
citations

18
h-index

29
g-index

29
ext. papers

1,170
ext. citations

6.1
avg, IF

5.06
L-index

#	Paper	IF	Citations
29	Thermodynamic analysis and multi-objective optimization of various ORC (organic Rankine cycle) configurations using zeotropic mixtures. <i>Energy</i> , 2016 , 109, 791-802	7.9	146
28	Exergy, economic and environmental impact assessment and optimization of a novel cogeneration system including a gas turbine, a supercritical CO ₂ and an organic Rankine cycle (GT-HRSG/SCO ₂). <i>Applied Thermal Engineering</i> , 2017 , 110, 1315-1330	5.8	135
27	A comparative thermodynamic analysis of ORC and Kalina cycles for waste heat recovery: A case study for CGAM cogeneration system. <i>Case Studies in Thermal Engineering</i> , 2017 , 9, 1-13	5.6	89
26	Conventional and advanced exergy analyses of a geothermal driven dual fluid organic Rankine cycle (ORC). <i>Applied Thermal Engineering</i> , 2017 , 122, 59-70	5.8	57
25	Exergy and exergoeconomic assessment of hydrogen and cooling production from concentrated PVT equipped with PEM electrolyzer and LiBr-H ₂ O absorption chiller. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 622-633	6.7	54
24	Development of an exergoeconomic model for analysis and multi-objective optimization of a thermoelectric heat pump. <i>Energy Conversion and Management</i> , 2016 , 130, 1-13	10.6	48
23	Exergoeconomic analysis and multi-objective optimization of a marine engine waste heat driven RO desalination system integrated with an organic Rankine cycle using zeotropic working fluid. <i>Desalination</i> , 2017 , 422, 113-123	10.3	47
22	Performance optimization and improvement of a flash-binary geothermal power plant using zeotropic mixtures with PSO algorithm. <i>Geothermics</i> , 2018 , 74, 45-56	4.3	46
21	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	10.6	40
20	A comprehensive thermodynamic and exergoeconomic comparison between single- and two-stage thermoelectric cooler and heater. <i>Applied Thermal Engineering</i> , 2017 , 124, 756-766	5.8	35
19	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	6.7	30
18	Effect of geometry and applied currents on the exergy and exergoeconomic performance of a two-stage cascaded thermoelectric cooler. <i>International Journal of Refrigeration</i> , 2018 , 85, 1-12	3.8	29
17	A comprehensive comparison between CO ₂ and Ethane as a refrigerant in a two-stage ejector-expansion transcritical refrigeration cycle integrated with an organic Rankine cycle (ORC). <i>Journal of Supercritical Fluids</i> , 2018 , 133, 494-502	4.2	27
16	A comparison of refrigerants in a two-stage ejector-expansion transcritical refrigeration cycle based on exergoeconomic and environmental analysis. <i>International Journal of Refrigeration</i> , 2017 , 84, 139-150	3.8	26
15	Assessment of different configurations of solar energy driven organic flash cycles (OFCs) via exergy and exergoeconomic methodologies. <i>Renewable Energy</i> , 2018 , 115, 1231-1248	8.1	25
14	Combustion and exergy analysis of multi-component diesel-DME-methanol blends in HCCI engine. <i>Energy</i> , 2019 , 187, 115951	7.9	24
13	Thermal and economic assessment of a solar chimney cooled semi-transparent photovoltaic (STPV) power plant in different climates. <i>Solar Energy</i> , 2019 , 185, 480-493	6.8	20

12	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	1.2	19
11	The effect of the initial charge temperature under various injection timings on the second law terms in a direct injection SI hydrogen engine. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9252-9259	6.7	18
10	Performance analysis and exergoeconomic evaluation of a TRC system enhanced by a dedicated mechanical subcooling. <i>Energy Conversion and Management</i> , 2019 , 197, 111890	10.6	11
9	Decreasing the emissions of a partially premixed gasoline fueled compression ignition engine by means of injection characteristics and EGR. <i>Thermal Science</i> , 2011 , 15, 939-952	1.2	11
8	Improved mixture quality by advanced dual-nozzle, included-angle split injection in HSDI engine: Exergetic exploration. <i>Energy</i> , 2019 , 167, 211-223	7.9	8
7	Modeling and analysis of a solar boosted biomass-driven combined cooling, heating and power plant for domestic applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101326	4.7	6
6	1D energy, exergy, and performance assessment of turbocharged diesel/hydrogen RCCI engine at different levels of diesel, hydrogen, compressor pressure ratio, and combustion duration. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 22180-22194	6.7	5
5	Scaling spray penetration at supersonic conditions through shockwave analysis. <i>Fuel</i> , 2020 , 260, 116308	7.1	5
4	A numerical study of the influence of pilot fuel injection timing on combustion and emission formation under two-stroke dual-fuel marine engine-like conditions. <i>Fuel</i> , 2022 , 312, 122651	7.1	3
3	Numerical Study of the Scavenging Process in a Large Two-Stroke Marine Engine Using URANS and LES Turbulence Models		2
2	Incorporation of EGR and split injection for reduction of nox and soot emissions in DI diesel engines. <i>Thermal Science</i> , 2011 , 15, 409-427	1.2	1
1	Conjugate heat transfer simulation of sulfuric acid condensation in a large two-stroke marine engine - the effect of thermal initial condition. <i>Applied Thermal Engineering</i> , 2021 , 195, 117075	5.8	1