Arash Nemati

List of Publications by Year in Descending Order

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	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. *Fuel*, **2022**, 312, 122651	7.1	3
28	1D energy, exergy, and performance assessment of turbocharged diesel/hydrogen RCCI engine at different levels of diesel, hydrogen, compressor pressure ratio, and combustion duration. *International Journal of Hydrogen Energy*, **2021**, 46, 22180-22194	6.7	5
27	Conjugate heat transfer simulation of sulfuric acid condensation in a large two-stroke marine engine - the effect of thermal initial condition. *Applied Thermal Engineering*, **2021**, 195, 117075	5.8	1
26	Modeling and analysis of a solar boosted biomass-driven combined cooling, heating and power plant for domestic applications. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101326	4.7	6
25	Scaling spray penetration at supersonic conditions through shockwave analysis. *Fuel*, **2020**, 260, 116308	7.1	5
24	Combustion and exergy analysis of multi-component diesel-DME-methanol blends in HCCI engine. *Energy*, **2019**, 187, 115951	7.9	24
23	Thermal and economic assessment of a solar chimney cooled semi-transparent photovoltaic (STPV) power plant in different climates. *Solar Energy*, **2019**, 185, 480-493	6.8	20
22	Performance analysis and exergoeconomic evaluation of a TRC system enhanced by a dedicated mechanical subcooling. *Energy Conversion and Management*, **2019**, 197, 111890	10.6	11
21	Improved mixture quality by advanced dual-nozzle, included-angle split injection in HSDI engine: Exergetic exploration. *Energy*, **2019**, 167, 211-223	7.9	8
20	Performance optimization and improvement of a flash-binary geothermal power plant using zeotropic mixtures with PSO algorithm. *Geothermics*, **2018**, 74, 45-56	4.3	46
19	Effect of geometry and applied currents on the exergy and exergoeconomic performance of a two-stage cascaded thermoelectric cooler. *International Journal of Refrigeration*, **2018**, 85, 1-12	3.8	29
18	Assessment of different configurations of solar energy driven organic flash cycles (OFCs) via exergy and exergoeconomic methodologies. *Renewable Energy*, **2018**, 115, 1231-1248	8.1	25
17	Exergy and exergoeconomic assessment of hydrogen and cooling production from concentrated PVT equipped with PEM electrolyzer and LiBr-H2O absorption chiller. *International Journal of Hydrogen Energy*, **2018**, 43, 622-633	6.7	54
16	A comprehensive comparison between CO2 and Ethane as a refrigerant in a two-stage ejector-expansion transcritical refrigeration cycle integrated with an organic Rankine cycle (ORC). *Journal of Supercritical Fluids*, **2018**, 133, 494-502	4.2	27
15	Conventional and advanced exergy analyses of a geothermal driven dual fluid organic Rankine cycle (ORC). *Applied Thermal Engineering*, **2017**, 122, 59-70	5.8	57
14	A comparison of refrigerants in a two-stage ejector-expansion transcritical refrigeration cycle based on exergoeconomic and environmental analysis. *International Journal of Refrigeration*, **2017**, 84, 139-150	3.8	26
13	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. *Desalination*, **2017**, 422, 113-123	10.3	47

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12	A comprehensive thermodynamic and exergoeconomic comparison between single- and two-stage thermoelectric cooler and heater. *Applied Thermal Engineering*, **2017**, 124, 756-766	5.8	35
11	A comparative thermodynamic analysis of ORC and Kalina cycles for waste heat recovery: A case study for CGAM cogeneration system. *Case Studies in Thermal Engineering*, **2017**, 9, 1-13	5.6	89
10	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). *Applied Thermal Engineering*, **2017**, 110, 1315-1330	5.8	135
9	Development of an exergoeconomic model for analysis and multi-objective optimization of a thermoelectric heat pump. *Energy Conversion and Management*, **2016**, 130, 1-13	10.6	48
8	Thermodynamic analysis and multi-objective optimization of various ORC (organic Rankine cycle) configurations using zeotropic mixtures. *Energy*, **2016**, 109, 791-802	7.9	146
7	The effects of injected fuel temperature on exergy balance under the various operating loads in a DI diesel engine. *International Journal of Exergy*, **2015**, 17, 35	1.2	19
6	A numerical investigation on the influence of EGR in a supercharged SI engine fueled with gasoline and alternative fuels. *Energy Conversion and Management*, **2014**, 83, 260-269	10.6	40
5	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. *International Journal of Hydrogen Energy*, **2013**, 38, 1189-1199	6.7	30
4	The effect of the initial charge temperature under various injection timings on the second law terms in a direct injection SI hydrogen engine. *International Journal of Hydrogen Energy*, **2011**, 36, 9252-9259	6.7	18
3	Decreasing the emissions of a partially premixed gasoline fueled compression ignition engine by means of injection characteristics and EGR. *Thermal Science*, **2011**, 15, 939-952	1.2	11
2	Incorporation of EGR and split injection for reduction of nox and soot emissions in DI diesel engines. *Thermal Science*, **2011**, 15, 409-427	1.2	1
1	Numerical Study of the Scavenging Process in a Large Two-Stroke Marine Engine Using URANS and LES Turbulence Models		2