

Mbabaelahi

List of Publications by Year in descending order

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all docs

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docs citations

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times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy, exergy, emergy, and economic evaluation of a novel two-stage solar Rankine power plant. Environmental Science and Pollution Research, 2022, 29, 79140-79155.	2.7	2
2	Exergy cost accounting and thermoeconomic diagnosis for Double-Solar-Gas-Turbine system (DSGT). Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 413-427.	1.2	3
3	Recovering waste heat of a solar hybrid power plant using a Kalina cycle and desalination unit: A sustainability (emergo-economic and emergo-environmental) approach. Energy Conversion and Management, 2020, 224, 113394.	4.4	17
4	Economic and exergetic evaluation of solar-powered combined LNG-burned micro gas turbine and Stirling engine. International Journal of Exergy, 2020, 32, 356.	0.2	0
5	New procedure in solar system dynamic simulation, thermodynamic analysis, and multi-objective optimization of a post-combustion carbon dioxide capture coal-fired power plant. Energy Conversion and Management, 2020, 224, 113321.	4.4	19
6	Analytical design and optimization of a new hybrid solar-driven micro gas turbine/stirling engine, based on exergo-enviro-economic concept. Sustainable Energy Technologies and Assessments, 2020, 42, 100845.	1.7	1
7	Combined Energy-Exergy-Control (CEEC) analysis and multi-objective optimization of parabolic trough solar collector powered steam power plant. Energy, 2020, 201, 117641.	4.5	22
8	Multi-Objective Optimization of Thermal Management System in LED Bulbs Based on Entropy Generation Minimization Concept. High Temperature, 2020, 58, 875-883.	0.1	1
9	Design, dynamic analysis and control-based exergetic optimization for solar-driven Kalina power plant. Energy, 2019, 187, 115977.	4.5	18
10	Emergy-based economic and environmental analysis and multi-objective optimization of a two-cascade solar gas turbine power plant. Sustainable Production and Consumption, 2019, 20, 165-177.	5.7	26
11	New optimum design for cooling system in thermoelectric thermal devices. Extreme Mechanics Letters, 2019, 27, 1-7.	2.0	6
12	Sustainability Analysis of Low Temperature Solar-Driven Kalina Power Plant Using Emergy Concept. International Journal of Thermodynamics, 2019, 22, 118-126.	0.4	14
13	Analytic Approximate Solution for a Flow of a Second-Grade Viscoelastic Fluid in a Converging Porous Channel. Journal of Applied Mechanics and Technical Physics, 2018, 59, 72-78.	0.1	1
14	Exergy Cost Analysis of New Method for Efficiency Improvement in Small Gas Turbines Using LNG Cold Exergy. International Journal of Thermodynamics, 2018, 21, 231-239.	0.4	0
15	Optimum design of infrared detector's micro-cooler with entropy generation minimization. Infrared Physics and Technology, 2017, 83, 24-31.	1.3	2
16	Optimum analytical design of medical heat sink with convex parabolic fin including variable thermal conductivity and mass transfer. Extreme Mechanics Letters, 2017, 15, 83-90.	2.0	5
17	Analytical closed-form model for predicting the power and efficiency of Stirling engines based on a comprehensive numerical model and the genetic programming. Energy, 2016, 98, 324-339.	4.5	32
18	Modified PSVL: A second order model for thermal simulation of Stirling engines based on convective polytropic heat transfer of working spaces. Applied Thermal Engineering, 2015, 85, 340-355.	3.0	48

#	ARTICLE	IF	CITATIONS
19	A new thermal model based on polytropic numerical simulation of Stirling engines. <i>Applied Energy</i> , 2015, 141, 143-159.	5.1	75
20	A new closed-form analytical thermal model for simulating Stirling engines based on polytropic-finite speed thermodynamics. <i>Energy Conversion and Management</i> , 2015, 90, 395-408.	4.4	48
21	Analytical efficiency analysis of aerospace radiating fin. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 3133-3140.	1.1	6
22	Multi-Objective Optimization of a Cross-Flow Plate Heat Exchanger Using Entropy Generation Minimization. <i>Chemical Engineering and Technology</i> , 2014, 37, 87-94.	0.9	22
23	Simple-II: A new numerical thermal model for predicting thermal performance of Stirling engines. <i>Energy</i> , 2014, 69, 873-890.	4.5	74
24	Analysis of a laminar boundary layer flow over a flat plate with injection or suction. <i>Journal of Applied Mechanics and Technical Physics</i> , 2013, 54, 59-67.	0.1	12
25	Multi-objective optimization of a joule cycle for re-liquefaction of the Liquefied Natural Gas. <i>Applied Energy</i> , 2011, 88, 3012-3021.	5.1	49
26	Three analytical methods applied to Jeffery-Hamel flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 3423-3434.	1.7	64
27	Viscoelastic MHD flow boundary layer over a stretching surface with viscous and ohmic dissipations. <i>Meccanica</i> , 2010, 45, 817-827.	1.2	14
28	Homotopy Analysis Method to Walter's B fluid in a vertical channel with porous wall. <i>Meccanica</i> , 2010, 45, 857-868.	1.2	23
29	Thermoeconomic optimization of a cryogenic refrigeration cycle for re-liquefaction of the LNG boil-off gas. <i>International Journal of Refrigeration</i> , 2010, 33, 1197-1207.	1.8	48
30	EFFECT OF MASS TRANSFER ON A FLOW IN THE MAGNETOHYDRODYNAMIC SQUEEZE FILM BETWEEN TWO PARALLEL DISKS WITH ONE POROUS DISK. <i>Chemical Engineering Communications</i> , 2010, 198, 299-311.	1.5	25
31	Analytical treatment of mixed convection flow past vertical flat plate. <i>Thermal Science</i> , 2010, 14, 409-416.	0.5	7
32	Differential Transformation Method to determine fin efficiency of convective straight fins with temperature dependent thermal conductivity. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 757-762.	2.9	174
33	Micropolar flow in a porous channel with high mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 1082-1088.	2.9	57
34	Thermodynamic Analysis, Advanced Non-Linear Dynamic Simulation and Multi-Criteria Optimization of a 100 MW Parabolic Trough Solar Steam Power Plant. <i>International Journal of Thermodynamics</i> , 0, , 1-11.	0.4	1