Marco A Barranco-JimÃ©nez

List of Publications by Year
in descending order

30 papers	799 citations	14 h-index	28 g-index
30 all docs	30 docs citations	30 times ranked	356 citing authors

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#	Article	IF	Citations
1	Local and global stability analysis of a Curzonâ€“Ahlborn model applied to power plants working at maximum <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1219" altimg="si33.svg"><mml:mi>k</mml:mi></mml:math>-efficient power. Physica A: Statistical Mechanics and Its Applications, 2021, 571, 125863.	2.6	11
2	The Role of Internal Irreversibilities in the Performance and Stability of Power Plant Models Working at Maximum <i>Ïµ</i>-Ecological Function. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 413-429.	4.2	22
3	Optimization of heat engines using different heat transfer laws by means of the method of saving functions. Journal of Physics: Conference Series, 2021, 1723, 012066.	0.4	0
4	Thermodynamic analysis of an array of isothermal endoreversible electric engines. European Physical Journal Plus, 2020, 135, 1.	2.6	14
5	Energetic Optimization Considering a Generalization of the Ecological Criterion in Traditional Simple-Cycle and Combined-Cycle Power Plants. Journal of Non-Equilibrium Thermodynamics, 2020, 45, 269-290.	4.2	32
6	A Simple Thermodynamic Model of the Internal Convective Zone of the Earth. Entropy, 2018, 20, 985.	2.2	1
7	Thermodynamic and thermoeconomic optimization of coupled thermal and chemical engines by means of an equivalent array of uncoupled endoreversible engines. European Physical Journal Plus, 2018, 133, 1.	2.6	15
8	Thermodynamic and themoeconomic optimization of isothermal endoreversible chemical engine models. Physica A: Statistical Mechanics and Its Applications, 2017, 488, 149-161.	2.6	15
9	Thermoeconomic Optimization of an Irreversible Novikov Plant Model under Different Regimes of Performance. Entropy, 2017, 19, 118.	2.2	10
10	Local Stability Analysis for a Thermo-Economic Irreversible Heat Engine Model under Different Performance Regimes. Entropy, 2015, 17, 8019-8030.	2.2	9
11	Thermoeconomical analysis of a non-endoreversible Novikov power plant model under different regimes of performance. Journal of Physics: Conference Series, 2015, 582, 012050.	0.4	1
12	Global Stability Analysis of a Curzonâ€“Ahlborn Heat Engine under Different Regimes of Performance. Entropy, 2014, 16, 5796-5809.	2.2	13
13	Global stability analysis of a Curzonâ€“Ahlborn heat engine using the Lyapunov method. Physica A: Statistical Mechanics and Its Applications, 2014, 399, 98-105.	2.6	13
14	Multi-objective thermodynamic-based optimization of output power of Solar Dish-Stirling engine by implementing an evolutionary algorithm. Energy Conversion and Management, 2013, 75, 438-445.	9.2	176
15	Optimal design of a solar driven heat engine based on thermal and thermo-economic criteria. Energy Conversion and Management, 2013, 75, 635-642.	9.2	93
16	Thermo-economic multi-objective optimization of solar dish-Stirling engine by implementing evolutionary algorithm. Energy Conversion and Management, 2013, 73, 370-380.	9.2	180
17	A Finite-Time Thermal Cycle Variational Optimization with a Stefanâ€“Boltzmann Law for Three Different Criteria. Entropy, 2012, 14, 2611-2625.	2.2	5
18	An Endoreversible Thermodynamic Model Applied to the Convective Zone of the Sun. ISRN Astronomy and Astrophysics, 2012, 2012, 1-7.	0.2	1

#	Article	IF	Citations
19	The Faint Young Sun Paradox: A Simplified Thermodynamic Approach. Advances in Astronomy, 2012, 2012, 1-10.	1.1	1
20	Local Stability Analysis of a Thermo-Economic Model of a Chambadal-Novikov-Curzon-Ahlborn Heat Engine. Entropy, 2011, 13, 1584-1594.	2.2	14
21	Finite-Time Thermoeconomic Optimization of a Solar-Driven Heat Engine Model. Entropy, 2011, 13, 171-183.	2.2	21
22	A Proposal of Ecologic Taxes Based on Thermo-Economic Performance of Heat Engine Models. Energies, 2009, 2, 1042-1056.	3.1	10
23	Thermoeconomic Optimum Operation Conditions of a Solar-driven Heat Engine Model. Entropy, 2009, 11, 443-453.	2.2	18
24	Possible future scenarios for atmospheric concentration of greenhouse gases: A simplified thermodynamic approach. Renewable Energy, 2009, 34, 2344-2352.	8.9	8
25	Comparative analysis of two ecological type modes of performance for a simple energy converter. Journal of the Energy Institute, 2009, 82, 223-227.	5.3	28
26	On thermodynamic optimisation of solar collector model under maximum ecological conditions. Journal of the Energy Institute, 2008, 81, 164-167.	5.3	10
27	Thermoeconomic optimisation of Novikov power plant model under maximum ecological conditions. Journal of the Energy Institute, 2007, 80, 96-104.	5.3	34
28	Thermoeconomic optimisation of endoreversible heat engine under maximum modified ecological criterion. Journal of the Energy Institute, 2007, 80, 232-238.	5.3	19
29	Stability Analysis of an Endoreversible Heat Engine with Stefan-Boltzmann Heat Transfer Law Working in Maximum-Power-Like Regime. Open Systems and Information Dynamics, 2006, 13, 43-53.	1.2	13
30	A nonendoreversible model for wind energy as a solarâ€driven heat engine. Journal of Applied Physics, 1996, 80, 4872-4876.	2.5	12