# Marco A Barranco-JimÃ©nez

List of Publications by Year
in descending order

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| 30 | 799 | 623734 | 501196 |
|---|---|---|---|
| papers | citations | 14 h-index | 28 g-index |

| 30 | 30 | 30 | 356 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Thermoeconomic optimisation of Novikov power plant model under maximum ecological conditions. Journal of the Energy Institute, 2007, 80, 96-104. | 5.3 | 34 |
| 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 | 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 |
| 7 | The Role of Internal Irreversibilities in the Performance and Stability of Power Plant Models Working at Maximum Ïµ-Ecological Function. Journal of Non-Equilibrium Thermodynamics, 2021, 46, 413-429. | 4.2 | 22 |
| 8 | Finite-Time Thermoeconomic Optimization of a Solar-Driven Heat Engine Model. Entropy, 2011, 13, 171-183. | 2.2 | 21 |
| 9 | Thermoeconomic optimisation of endoreversible heat engine under maximum modified ecological criterion. Journal of the Energy Institute, 2007, 80, 232-238. | 5.3 | 19 |
| 10 | Thermoeconomic Optimum Operation Conditions of a Solar-driven Heat Engine Model. Entropy, 2009, 11, 443-453. | 2.2 | 18 |
| 11 | Thermodynamic and themoeconomic optimization of isothermal endoreversible chemical engine models. Physica A: Statistical Mechanics and Its Applications, 2017, 488, 149-161. | 2.6 | 15 |
| 12 | 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 |
| 13 | Local Stability Analysis of a Thermo-Economic Model of a Chambadal-Novikov-Curzon-Ahlborn Heat Engine. Entropy, 2011, 13, 1584-1594. | 2.2 | 14 |
| 14 | Thermodynamic analysis of an array of isothermal endoreversible electric engines. European Physical Journal Plus, 2020, 135, 1. | 2.6 | 14 |
| 15 | 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 |
| 16 | Global Stability Analysis of a Curzonâ€“Ahlborn Heat Engine under Different Regimes of Performance. Entropy, 2014, 16, 5796-5809. | 2.2 | 13 |
| 17 | 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 |
| 18 | A nonendoreversible model for wind energy as a solarâ€driven heat engine. Journal of Applied Physics, 1996, 80, 4872-4876. | 2.5 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | On thermodynamic optimisation of solar collector model under maximum ecological conditions. Journal of the Energy Institute, 2008, 81, 164-167. | 5.3 | 10 |
| 21 | A Proposal of Ecologic Taxes Based on Thermo-Economic Performance of Heat Engine Models. Energies, 2009, 2, 1042-1056. | 3.1 | 10 |
| 22 | Thermoeconomic Optimization of an Irreversible Novikov Plant Model under Different Regimes of Performance. Entropy, 2017, 19, 118. | 2.2 | 10 |
| 23 | Local Stability Analysis for a Thermo-Economic Irreversible Heat Engine Model under Different Performance Regimes. Entropy, 2015, 17, 8019-8030. | 2.2 | 9 |
| 24 | Possible future scenarios for atmospheric concentration of greenhouse gases: A simplified thermodynamic approach. Renewable Energy, 2009, 34, 2344-2352. | 8.9 | 8 |
| 25 | A Finite-Time Thermal Cycle Variational Optimization with a Stefanâ€“Boltzmann Law for Three Different Criteria. Entropy, 2012, 14, 2611-2625. | 2.2 | 5 |
| 26 | An Endoreversible Thermodynamic Model Applied to the Convective Zone of the Sun. ISRN Astronomy and Astrophysics, 2012, 2012, 1-7. | 0.2 | 1 |
| 27 | The Faint Young Sun Paradox: A Simplified Thermodynamic Approach. Advances in Astronomy, 2012, 2012, 1-10. | 1.1 | 1 |
| 28 | 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 |
| 29 | A Simple Thermodynamic Model of the Internal Convective Zone of the Earth. Entropy, 2018, 20, 985. | 2.2 | 1 |
| 30 | 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 |