

Manuel Valdes Del Fresno

List of Publications by Year in descending order

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30
papers

1,205
citations

516710

16
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501196

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all docs

30
docs citations

30
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar multiple optimization for a solar-only thermal power plant, using oil as heat transfer fluid in the parabolic trough collectors. <i>Solar Energy</i> , 2009, 83, 2165-2176.	6.1	394
2	Thermoeconomic optimization of combined cycle gas turbine power plants using genetic algorithms. <i>Applied Thermal Engineering</i> , 2003, 23, 2169-2182.	6.0	129
3	High concentration linear Fresnel reflectors. <i>Energy Conversion and Management</i> , 2013, 72, 60-68.	9.2	91
4	Influence of the stop/start system on CO2 emissions of a diesel vehicle in urban traffic. <i>Transportation Research, Part D: Transport and Environment</i> , 2011, 16, 194-200.	6.8	71
5	Optimization of heat recovery steam generators for combined cycle gas turbine power plants. <i>Applied Thermal Engineering</i> , 2001, 21, 1149-1159.	6.0	69
6	Thermoeconomic optimisation of heat recovery steam generators of combined cycle gas turbine power plants considering off-design operation. <i>Energy Conversion and Management</i> , 2011, 52, 1840-1849.	9.2	69
7	Energy management in solar thermal power plants with double thermal storage system and subdivided solar field. <i>Applied Energy</i> , 2011, 88, 4055-4066.	10.1	46
8	Assessment of vehicle emissions projections in Madrid (Spain) from 2004 to 2012 considering several control strategies. <i>Transportation Research, Part A: Policy and Practice</i> , 2008, 42, 646-658.	4.2	35
9	Optical features of linear Fresnel collectors with different secondary reflector technologies. <i>Applied Energy</i> , 2018, 232, 386-397.	10.1	31
10	A model to predict the behaviour at part load operation of once-through heat recovery steam generators working with water at supercritical pressure. <i>Applied Thermal Engineering</i> , 2010, 30, 1652-1658.	6.0	30
11	Influence of the heat recovery steam generator design parameters on the thermoeconomic performances of combined cycle gas turbine power plants. <i>International Journal of Energy Research</i> , 2004, 28, 1243-1254.	4.5	29
12	Thermodynamic cycles optimised for medium enthalpy units of concentrating solar power. <i>Energy</i> , 2014, 67, 176-185.	8.8	26
13	Design of an innovative linear Fresnel collector by means of optical performance optimization: A comparison with parabolic trough collectors for different latitudes. <i>Solar Energy</i> , 2017, 153, 459-470.	6.1	25
14	A methodology for the geometric design of heat recovery steam generators applying genetic algorithms. <i>Applied Thermal Engineering</i> , 2013, 52, 77-83.	6.0	24
15	A new methodology to solve non-linear equation systems using genetic algorithms. Application to combined cycle gas turbine simulation. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1424-1435.	2.8	21
16	Innovative thermal storage strategies for Fresnel-based concentrating solar plants with East-West orientation. <i>Applied Energy</i> , 2018, 230, 983-995.	10.1	17
17	Thermal efficiency of direct, inverse and sCO ₂ gas turbine cycles intended for small power plants. <i>Energy</i> , 2016, 100, 66-72.	8.8	16
18	Comparison of Different Technologies for Integrated Solar Combined Cycles: Analysis of Concentrating Technology and Solar Integration. <i>Energies</i> , 2018, 11, 1064.	3.1	13

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19	A structured methodology to calculate traffic emissions inventories for city centres. <i>Science of the Total Environment</i> , 2004, 334-335, 101-109.	8.0	12
20	On the improvement of annual performance of solar thermal power plants through exergy management. <i>International Journal of Energy Research</i> , 2014, 38, 658-673.	4.5	10
21	Heat Transfer in Separated Flows on the Pressure Side of Turbine Blades. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011, 60, 666-684.	2.1	9
22	Modular micro-trigeneration system for a novel rotatory solar Fresnel collector: A design space analysis. <i>Energy Conversion and Management</i> , 2021, 227, 113599.	9.2	9
23	A method to determine the economic cost of fouling of gas turbine compressors. <i>Applied Thermal Engineering</i> , 2014, 69, 261-266.	6.0	6
24	Reynolds-number-dependent efficiency characterization of a micro-scale centrifugal compressor using non-conventional working fluids. <i>Energy Conversion and Management</i> , 2018, 177, 224-232.	9.2	5
25	Analytical prediction of Reynolds-number effects on miniaturized centrifugal compressors under off-design conditions. <i>Energy</i> , 2021, 227, 120477.	8.8	5
26	Design of Carbon Pistons Using Transient Heat Transfer and Stress Analyses. , 2001, , .		4
27	The Influence of Atmospheric Conditions on the Performance of Combined Cycle Gas Turbine Power Plants. , 2006, , 495.		3
28	Thermoeconomic Coherence: A Methodology for the Analysis and Optimisation of Thermal Systems. <i>Entropy</i> , 2016, 18, 250.	2.2	3
29	A Quest to the Cheapest Method for Electricity Generation in Concentrating Solar Power Plants. <i>Energy Procedia</i> , 2015, 75, 514-520.	1.8	2
30	A novel three-tank storage system for east-west oriented Fresnel solar plants: Comparative analysis with parabolic trough collectors. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1