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List of Publications by Year
in descending order

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123 papers	3,421 citations	136740 32 h-index	149479 56 g-index
124 all docs	124 docs citations	124 times ranked	2948 citing authors

#	Article	IF	Citations
1	Comparison of nZEB indicators for hotel renovations under different European climatic conditions. International Journal of Low-Carbon Technologies, 2021, 16, 246-257.	1.2	3
2	A dynamic model for once-through direct steam generation in linear focus solar collectors. Renewable Energy, 2021, 163, 246-261.	4.3	8
3	Performance evaluation of a variable geometry ejector applied in a multi-effect thermal vapor compression desalination system. Applied Thermal Engineering, 2021, 195, 117177.	3.0	15
4	Feasibility of Utilizing Photovoltaics for Irrigation Purposes in Moamba, Mozambique. Sustainability, 2021, 13, 10998.	1.6	6
5	Educational solar energy tool in Matlab environment. Energy Reports, 2020, 6, 490-495.	2.5	3
6	Analysis of swimming pool solar heating using the utilizability method. Energy Reports, 2020, 6, 717-724.	2.5	2
7	Thermal and electrical performance assessment of a solar polygeneration system. Energy Reports, 2020, 6, 725-731.	2.5	1
8	Sustainability assessment of a hybrid CSP/biomass. Results of a prototype plant in Tunisia. Sustainable Energy Technologies and Assessments, 2020, 42, 100862.	1.7	5
9	Sustainability assessment of a novel micro solar thermal: Biomass heat and power plant in Morocco. Journal of Industrial Ecology, 2020, 24, 1379-1392.	2.8	5
10	Experimental assessment of pine wood chips gasification at steady and part-load performance. Biomass and Bioenergy, 2020, 139, 105625.	2.9	14
11	Benchmarking for realistic nZEB hotel buildings. Journal of Building Engineering, 2020, 30, 101298.	1.6	10
12	Applying a variable geometry ejector in a solar ejector refrigeration system. International Journal of Refrigeration, 2020, 113, 187-195.	1.8	50
13	Energetic analysis of a thermal building using geothermal and solar energy sources. Energy Reports, 2020, 6, 201-206.	2.5	12
14	Sustainability indicators of a naturally ventilated photovoltaic faÃ§ade system. Journal of Cleaner Production, 2020, 266, 121946.	4.6	9
15	SmallSolDes - Development of a small-scale desalination unit driven by solar energy using a variable geometry ejector. AIP Conference Proceedings, 2020, , .	0.3	1
16	Numerical simulation and economic assessment of solar process heat and cooling for a Portuguese brewing factory. AIP Conference Proceedings, 2020, , .	0.3	1
17	Improvements of CSP/biomass hybridisation with single-phase fluids. AIP Conference Proceedings, 2020, , .	0.3	0
18	Energy assessment of the implementation of renewable energies in a Portuguese household. International Journal of Low-Carbon Technologies, 2019, 14, 452-460.	1.2	0

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19	POLYSOL â€“ Thermal and electrical performance assessment of a cost-effective polygeneration system. IOP Conference Series: Earth and Environmental Science, 2019, 352, 012052.	0.2	0
20	A method of strategic evaluation of energy performance of Building Integrated Photovoltaic in the urban context. Journal of Cleaner Production, 2018, 184, 82-91.	4.6	47
21	Evaluation of the performance of a photovoltaic power plant installed in a building in the north of Portugal. Energy Procedia, 2018, 153, 42-47.	1.8	5
22	Numerical simulation and assessment of a 5 MWel hybrid system with a parabolic trough once-through steam generator coupled to biomass gasification. AIP Conference Proceedings, 2018, , .	0.3	1
23	Evaluation of the performance of hybrid CSP/biomass power plants. International Journal of Low-Carbon Technologies, 2018, 13, 380-387.	1.2	16
24	Thermoeconomic Analysis and Evaluation of a Building-Integrated Photovoltaic (BIPV) System Based on Actual Operational Data. Green Energy and Technology, 2018, , 877-886.	0.4	0
25	Testing and Modeling of Direct Steam Generating Parabolic Trough Collectors. , 2018, , .		0
26	Dynamic simulation of an integrated solar-driven ejector based air conditioning system with PCM cold storage. Applied Energy, 2017, 190, 600-611.	5.1	91
27	A Trnsys simulation of a solar-driven ejector air conditioning system with an integrated PCM cold storage. AIP Conference Proceedings, 2017, , .	0.3	4
28	A key review of building integrated photovoltaic (BIPV) systems. Engineering Science and Technology, an International Journal, 2017, 20, 833-858.	2.0	207
29	Experimental and numerical studies to assess the energy performance of naturally ventilated PV faÃ§ade systems. Solar Energy, 2017, 147, 37-51.	2.9	49
30	Preliminary experimental results with a solar driven ejector air conditioner in Portugal. Renewable Energy, 2017, 109, 83-92.	4.3	35
31	On the selection of a turbulence model for the simulation of steam ejectors using CFD. International Journal of Low-Carbon Technologies, 2017, 12, 233-243.	1.2	28
32	Numerical simulation of a hybrid CSP/Biomass 5 MWel power plant. AIP Conference Proceedings, 2017, , .	0.3	2
33	Numerical simulation of a hybrid concentrated solar power/biomass mini power plant. Applied Thermal Engineering, 2017, 111, 1378-1386.	3.0	60
34	Performance evaluation of a building integrated photovoltaic (BIPV) system combined with a wastewater source heat pump (WWSHP) system. Energy Procedia, 2017, 140, 434-446.	1.8	7
35	Validation of a CFD model for the simulation of heat transfer in a tubes-in-tank PCM storage unit. Renewable Energy, 2016, 89, 371-379.	4.3	46
36	Effect of Collector Self-Shading on the Performance of a Biomass/solar Micro-Chp System. , 2016, , .		0

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37	Energetic Analysis of the Implementation of Renewable Energies in a Canary Island Hotel. , 2016, , .		0
38	Comparison of software prediction and measured performance of a grid-connected photovoltaic power plant. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	18
39	Development and Performance of an Advanced Ejector Cooling System for a Sustainable Built Environment. Frontiers in Mechanical Engineering, 2015, 1, .	0.8	8
40	Experimental determination of the heat transfer and cold storage characteristics of a microencapsulated phase change material in a horizontal tank. Energy Conversion and Management, 2015, 94, 275-285.	4.4	60
41	Pre-design of a Mini CSP Plant. Energy Procedia, 2015, 69, 1613-1622.	1.8	14
42	Readdressing working fluid selection with a view to designing a variable geometry ejector. International Journal of Low-Carbon Technologies, 2015, 10, 205-215.	1.2	19
43	Modelling and analysis of photovoltaic/thermal collectors â€“ influence of PV cell location and area. International Journal of Ambient Energy, 2015, 36, 76-86.	1.4	3
44	Biomass and central receiver system (CRS) hybridization: Integration of syngas/biogas on the atmospheric air volumetric CRS heat recovery steam generator duct burner. Renewable Energy, 2015, 75, 665-674.	4.3	27
45	Small Scale Solar-Driven CHP System Pre-Dimensioning Sensitiveness to Solar Field and ORC Power Block Components Efficiencies. , 2015, , .		0
46	Optimization of an atmospheric air volumetric central receiver system: Impact of solar multiple, storage capacity and control strategy. Renewable Energy, 2014, 63, 392-401.	4.3	28
47	Experimental results with a variable geometry ejector using R600a as working fluid. International Journal of Refrigeration, 2014, 46, 77-85.	1.8	52
48	CFD study of a variable area ratio ejector using R600a and R152a refrigerants. International Journal of Refrigeration, 2013, 36, 157-165.	1.8	66
49	Realistic Solutions for Wind Power Production with Climate Change. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 912-918.	1.2	8
50	Case study of safe working conditions in spanish merchant ships. Polish Maritime Research, 2012, 19, .	0.6	1
51	Biomass and central receiver system (CRS) hybridization: Volumetric air CRS and integration of a biomass waste direct burning boiler on steam cycle. Solar Energy, 2012, 86, 2912-2922.	2.9	29
52	An Experimental Test of Low Speed Wind Turbine Concentrators. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 1222-1230.	1.2	6
53	Research on the Brayton cycle design conditions for reliquefaction cooling of LNG boil off. Journal of Marine Science and Technology, 2012, 17, 532-541.	1.3	31
54	An indoor air perception method to detect fungi growth in flats. Expert Systems With Applications, 2012, 39, 3740-3746.	4.4	8

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55	A field study on building inertia and its effects on indoor thermal environment. Renewable Energy, 2012, 37, 89-96.	4.3	63
56	Improvement in quality control for applications used by marine engineers. Computer Applications in Engineering Education, 2012, 20, 187-192.	2.2	3
57	Passive Methods as a Solution for Improving Indoor Environments. Green Energy and Technology, 2012, , .	0.4	6
58	Thermal Comfort and Indoor Air Quality. Green Energy and Technology, 2012, , 1-13.	0.4	4
59	Indoor Air Standards and Models. Green Energy and Technology, 2012, , 15-47.	0.4	2
60	Real Indoor Environments. Green Energy and Technology, 2012, , 49-70.	0.4	0
61	Passive Methods. Green Energy and Technology, 2012, , 71-97.	0.4	0
62	Future Research Work. Green Energy and Technology, 2012, , 131-147.	0.4	0
63	Permeable Coverings. Green Energy and Technology, 2012, , 99-129.	0.4	1
64	Experimental and numerical analysis of a variable area ratio steam ejector. International Journal of Refrigeration, 2011, 34, 1668-1675.	1.8	74
65	Software tools for HVAC research. Advances in Engineering Software, 2011, 42, 846-851.	1.8	10
66	Reducing energy peak consumption with passive climate control methods. Energy and Buildings, 2011, 43, 2282-2288.	3.1	6
67	Numerical simulation of a solar-assisted ejector air conditioning system with cold storage. Energy, 2011, 36, 1280-1291.	4.5	32
68	Numerical simulation of a trapezoidal cavity receiver for a linear Fresnel solar collector concentrator. Renewable Energy, 2011, 36, 90-96.	4.3	107
69	A new thermal comfort approach comparing adaptive and PMV models. Renewable Energy, 2011, 36, 951-956.	4.3	51
70	Temperature influence on the thermal and structural properties of electrodeposited nanostructured black nickel cermet on high conductive C81100 copper. International Journal of Low-Carbon Technologies, 2011, 6, 86-92.	1.2	3
71	Comparison of CFD and experimental performance results of a variable area ratio steam ejector. International Journal of Low-Carbon Technologies, 2011, 6, 119-124.	1.2	13
72	Performance simulation of a solar-assisted micro-tri-generation system: hotel case study. International Journal of Low-Carbon Technologies, 2011, 6, 309-317.	1.2	9

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73	Utilities and Effluent Treatment | Refrigeration. , 2011, , 596-601.		0
74	Passive Methods to Address the Sick Building Syndrome in Public Buildings. , 2011, , 481-492.		0
75	Assessment of work-related risk criteria onboard a ship as an aid to designing its onboard environment. Journal of Marine Science and Technology, 2010, 15, 16-22.	1.3	14
76	Experimental assessment of heat storage properties and heat transfer characteristics of a phase change material slurry for air conditioning applications. Applied Energy, 2010, 87, 620-628.	5.1	161
77	Effect of louver shading devices on building energy requirements. Applied Energy, 2010, 87, 2040-2049.	5.1	193
78	Implementation of a method in EN ISO 13790 for calculating the utilisation factor taking into account different permeability levels of internal coverings. Energy and Buildings, 2010, 42, 598-604.	3.1	16
79	Experimental study of natural convection heat transfer in a microencapsulated phase change material slurry. Energy, 2010, 35, 2688-2693.	4.5	54
80	Impact of climate change on cooling energy consumption. Journal of the Energy Institute, 2010, 83, 171-177.	2.7	4
81	Research on heating and cooling requirements of buildings with solar louvre devices. Advances in Building Energy Research, 2010, 4, 1-21.	1.1	5
82	Simulation of a linear Fresnel solar collector concentrator. International Journal of Low-Carbon Technologies, 2010, 5, 125-129.	1.2	7
83	New procedure for wind farm maintenance. Industrial Management and Data Systems, 2010, 110, 861-882.	2.2	13
84	Concentrated solar power for renewable electricity and hydrogen production from waterâ€"a review. Energy and Environmental Science, 2010, 3, 1398.	15.6	78
85	EXPERIMENTAL QUANTIFICATION OF THE OPERATIVE TIME OF A PASSIVE HVAC SYSTEM USING POROUS COVERING MATERIALS. Journal of Porous Media, 2010, 13, 637-643.	1.0	3
86	Low speed wind concentrator to improve wind farm power generation. , 2009, , .		2
87	Analysis of a solar-assisted ejector cooling system for air conditioning. International Journal of Low-Carbon Technologies, 2009, 4, 2-8.	1.2	37
88	Influence of geometrical factors on steam ejector performance â€" A numerical assessment. International Journal of Refrigeration, 2009, 32, 1694-1701.	1.8	137
89	Numerical assessment of steam ejector efficiencies using CFD. International Journal of Refrigeration, 2009, 32, 1203-1211.	1.8	143
90	Energy saving with passive climate control methods in Spanish office buildings. Energy and Buildings, 2009, 41, 823-828.	3.1	35

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91	Hourly indoor thermal comfort and air quality acceptance with passive climate control methods. Renewable Energy, 2009, 34, 2735-2742.	4.3	19
92	Energy and economic analysis of an integrated solar absorption cooling and heating system in different building types and climates. Applied Energy, 2009, 86, 949-957.	5.1	177
93	Analysis of Energetic, Design and Operational Criteria When Choosing an Adequate Working Fluid for Small ORC Systems. , 2009, , .		11
94	Heat and Mass Transfer in an Indirect Contact Cooling Tower: CFD Simulation and Experiment. Numerical Heat Transfer; Part A: Applications, 2008, 54, 933-944.	1.2	12
95	Study of a hybrid PV-Thermal solar system to provide electricity and heat in Portugal. International Journal of Ambient Energy, 2008, 29, 153-161.	1.4	2
96	Analysis of a solar assisted micro-cogeneration ORC system. International Journal of Low-Carbon Technologies, 2008, 3, 254-264.	1.2	24
97	Evaluation of a solar louvre collector system for building heating and cooling. International Journal of Ambient Energy, 2008, 29, 59-64.	1.4	2
98	The energy shift: towards a renewable future. International Journal of Low-Carbon Technologies, 2007, 2, 289-299.	1.2	13
99	Evaluation of a solar cooling system with louvre thermal collectors. International Journal of Low-Carbon Technologies, 2007, 2, 99-108.	1.2	4
100	A new look at the long-term performance of general solar thermal systems. Solar Energy, 2007, 81, 1361-1368.	2.9	14
101	Analysis of a plate heat pipe solar collector. International Journal of Low-Carbon Technologies, 2006, 1, 1-9.	1.2	7
102	Evaluation of a solar thermal system using building louvre shading devices. Solar Energy, 2006, 80, 545-554.	2.9	36
103	Simulation study of an electrogasdynamic power converter using CFD. International Journal of Low-Carbon Technologies, 2006, 1, 245-261.	1.2	3
104	Analysis of a micro-cogeneration system using hybrid solar/gas collectors. International Journal of Low-Carbon Technologies, 2006, 1, 285-297.	1.2	6
105	Experimental uncertainty analysis in solar collectors. International Journal of Ambient Energy, 2006, 27, 59-64.	1.4	5
106	The effect of condenser heat transfer on the energy performance of a plate heat pipe solar collector. International Journal of Energy Research, 2005, 29, 903-912.	2.2	3
107	Modeling Laminar Heat Transfer in a Curved Rectangular Duct with a Computational Fluid Dynamics Code. Numerical Heat Transfer; Part A: Applications, 2005, 48, 165-177.	1.2	21
108	Heat and mass transfer correlations for the design of small indirect contact cooling towers. Applied Thermal Engineering, 2004, 24, 1969-1978.	3.0	34

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109	Testing of an integrated solar louvre collector. International Journal of Ambient Energy, 2004, 25, 171-176.	1.4	3
110	Evaluation of the Use of Artificial Neural Networks for the Simulation of Hybrid Solar Collectors. International Journal of Green Energy, 2004, 1, 337-352.	2.1	29
111	Numerical simulation of an integrated solar louvre collector system. International Journal of Ambient Energy, 2003, 24, 6-12.	1.4	2
112	A combined heat and power system for buildings driven by solar energy and gas. Applied Thermal Engineering, 2002, 22, 587-593.	3.0	60
113	Characterisation of thermal diode panels for use in the cooling season in buildings. Energy and Buildings, 2002, 34, 227-235.	3.1	65
114	Experimental and numerical analysis of natural ventilation with combined light/vent pipes. Applied Thermal Engineering, 2001, 21, 1925-1936.	3.0	15
115	Thermal performance of a closed wet cooling tower for chilled ceilings: measurement and CFD simulation. International Journal of Energy Research, 2000, 24, 1171-1179.	2.2	4
116	Ventilation terminals for use with light pipes in buildings: a CFD study. Applied Thermal Engineering, 2000, 20, 1743-1752.	3.0	20
117	Thermal performance of a novel air conditioning system using a liquid desiccant. Applied Thermal Engineering, 2000, 20, 1213-1223.	3.0	43
118	Thermal behaviour of closed wet cooling towers for use with chilled ceilings. Applied Thermal Engineering, 2000, 20, 1225-1236.	3.0	73
119	Solar chimneys: simulation and experiment. Energy and Buildings, 2000, 32, 71-79.	3.1	188
120	Combining light pipe and stack ventilation â€" some development aspects. , 2000, , 395-400.		3
121	Natural refrigerants for refrigeration and air-conditioning systems. Applied Thermal Engineering, 1997, 17, 33-42.	3.0	96
122	A new simplified method for evaluating the thermal behaviour of direct gain passive solar buildings. Solar Energy, 1992, 48, 227-233.	2.9	18
123	A novel solar faÃ§ade concept for energy polygeneration in buildings. International Journal of Low-Carbon Technologies, 0, , ctv020.	1.2	2