Armando C Oliveira

List of Publications by Year
in descending order

123 papers	3,421 citations	136950 32 h-index	149698 56 g-index
124 all docs	124 docs citations	124 times ranked	2948 citing authors

#	Article	IF	Citations
1	A key review of building integrated photovoltaic (BIPV) systems. Engineering Science and Technology, an International Journal, 2017, 20, 833-858.	3.2	207
2	Effect of louver shading devices on building energy requirements. Applied Energy, 2010, 87, 2040-2049.	10.1	193
3	Solar chimneys: simulation and experiment. Energy and Buildings, 2000, 32, 71-79.	6.7	188
4	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.	10.1	177
5	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.	10.1	161
6	Numerical assessment of steam ejector efficiencies using CFD. International Journal of Refrigeration, 2009, 32, 1203-1211.	3.4	143
7	Influence of geometrical factors on steam ejector performance â€“ A numerical assessment. International Journal of Refrigeration, 2009, 32, 1694-1701.	3.4	137
8	Numerical simulation of a trapezoidal cavity receiver for a linear Fresnel solar collector concentrator. Renewable Energy, 2011, 36, 90-96.	8.9	107
9	Natural refrigerants for refrigeration and air-conditioning systems. Applied Thermal Engineering, 1997, 17, 33-42.	6.0	96
10	Dynamic simulation of an integrated solar-driven ejector based air conditioning system with PCM cold storage. Applied Energy, 2017, 190, 600-611.	10.1	91
11	Concentrated solar power for renewable electricity and hydrogen production from waterâ€”a review. Energy and Environmental Science, 2010, 3, 1398.	30.8	78
12	Experimental and numerical analysis of a variable area ratio steam ejector. International Journal of Refrigeration, 2011, 34, 1668-1675.	3.4	74
13	Thermal behaviour of closed wet cooling towers for use with chilled ceilings. Applied Thermal Engineering, 2000, 20, 1225-1236.	6.0	73
14	CFD study of a variable area ratio ejector using R600a and R152a refrigerants. International Journal of Refrigeration, 2013, 36, 157-165.	3.4	66
15	Characterisation of thermal diode panels for use in the cooling season in buildings. Energy and Buildings, 2002, 34, 227-235.	6.7	65
16	A field study on building inertia and its effects on indoor thermal environment. Renewable Energy, 2012, 37, 89-96.	8.9	63
17	A combined heat and power system for buildings driven by solar energy and gas. Applied Thermal Engineering, 2002, 22, 587-593.	6.0	60
18	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.	9.2	60

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19	Numerical simulation of a hybrid concentrated solar power/biomass mini power plant. Applied Thermal Engineering, 2017, 111, 1378-1386.	6.0	60
20	Experimental study of natural convection heat transfer in a microencapsulated phase change material slurry. Energy, 2010, 35, 2688-2693.	8.8	54
21	Experimental results with a variable geometry ejector using R600a as working fluid. International Journal of Refrigeration, 2014, 46, 77-85.	3.4	52
22	A new thermal comfort approach comparing adaptive and PMV models. Renewable Energy, 2011, 36, 951-956.	8.9	51
23	Applying a variable geometry ejector in a solar ejector refrigeration system. International Journal of Refrigeration, 2020, 113, 187-195.	3.4	50
24	Experimental and numerical studies to assess the energy performance of naturally ventilated PV faÃ§ade systems. Solar Energy, 2017, 147, 37-51.	6.1	49
25	A method of strategic evaluation of energy performance of Building Integrated Photovoltaic in the urban context. Journal of Cleaner Production, 2018, 184, 82-91.	9.3	47
26	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.	8.9	46
27	Thermal performance of a novel air conditioning system using a liquid desiccant. Applied Thermal Engineering, 2000, 20, 1213-1223.	6.0	43
28	Analysis of a solar-assisted ejector cooling system for air conditioning. International Journal of Low-Carbon Technologies, 2009, 4, 2-8.	2.6	37
29	Evaluation of a solar thermal system using building louvre shading devices. Solar Energy, 2006, 80, 545-554.	6.1	36
30	Energy saving with passive climate control methods in Spanish office buildings. Energy and Buildings, 2009, 41, 823-828.	6.7	35
31	Preliminary experimental results with a solar driven ejector air conditioner in Portugal. Renewable Energy, 2017, 109, 83-92.	8.9	35
32	Heat and mass transfer correlations for the design of small indirect contact cooling towers. Applied Thermal Engineering, 2004, 24, 1969-1978.	6.0	34
33	Numerical simulation of a solar-assisted ejector air conditioning system with cold storage. Energy, 2011, 36, 1280-1291.	8.8	32
34	Research on the Brayton cycle design conditions for reliquefaction cooling of LNG boil off. Journal of Marine Science and Technology, 2012, 17, 532-541.	2.9	31
35	Evaluation of the Use of Artificial Neural Networks for the Simulation of Hybrid Solar Collectors. International Journal of Green Energy, 2004, 1, 337-352.	3.8	29
36	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.	6.1	29

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37	Optimization of an atmospheric air volumetric central receiver system: Impact of solar multiple, storage capacity and control strategy. Renewable Energy, 2014, 63, 392-401.	8.9	28
38	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.	2.6	28
39	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.	8.9	27
40	Analysis of a solar assisted micro-cogeneration ORC system. International Journal of Low-Carbon Technologies, 2008, 3, 254-264.	2.6	24
41	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.	2.1	21
42	Ventilation terminals for use with light pipes in buildings: a CFD study. Applied Thermal Engineering, 2000, 20, 1743-1752.	6.0	20
43	Hourly indoor thermal comfort and air quality acceptance with passive climate control methods. Renewable Energy, 2009, 34, 2735-2742.	8.9	19
44	Readdressing working fluid selection with a view to designing a variable geometry ejector. International Journal of Low-Carbon Technologies, 2015, 10, 205-215.	2.6	19
45	A new simplified method for evaluating the thermal behaviour of direct gain passive solar buildings. Solar Energy, 1992, 48, 227-233.	6.1	18
46	Comparison of software prediction and measured performance of a grid-connected photovoltaic power plant. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	18
47	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.	6.7	16
48	Evaluation of the performance of hybrid CSP/biomass power plants. International Journal of Low-Carbon Technologies, 2018, 13, 380-387.	2.6	16
49	Experimental and numerical analysis of natural ventilation with combined light/vent pipes. Applied Thermal Engineering, 2001, 21, 1925-1936.	6.0	15
50	Performance evaluation of a variable geometry ejector applied in a multi-effect thermal vapor compression desalination system. Applied Thermal Engineering, 2021, 195, 117177.	6.0	15
51	A new look at the long-term performance of general solar thermal systems. Solar Energy, 2007, 81, 1361-1368.	6.1	14
52	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.	2.9	14
53	Pre-design of a Mini CSP Plant. Energy Procedia, 2015, 69, 1613-1622.	1.8	14
54	Experimental assessment of pine wood chips gasification at steady and part-load performance. Biomass and Bioenergy, 2020, 139, 105625.	5.7	14

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55	The energy shift: towards a renewable future. International Journal of Low-Carbon Technologies, 2007, 2, 289-299.	2.6	13
56	New procedure for wind farm maintenance. Industrial Management and Data Systems, 2010, 110, 861-882.	3.7	13
57	Comparison of CFD and experimental performance results of a variable area ratio steam ejector. International Journal of Low-Carbon Technologies, 2011, 6, 119-124.	2.6	13
58	Heat and Mass Transfer in an Indirect Contact Cooling Tower: CFD Simulation and Experiment. Numerical Heat Transfer; Part A: Applications, 2008, 54, 933-944.	2.1	12
59	Energetic analysis of a thermal building using geothermal and solar energy sources. Energy Reports, 2020, 6, 201-206.	5.1	12
60	Analysis of Energetic, Design and Operational Criteria When Choosing an Adequate Working Fluid for Small ORC Systems. , 2009, , .		11
61	Software tools for HVAC research. Advances in Engineering Software, 2011, 42, 846-851.	3.8	10
62	Benchmarking for realistic nZEB hotel buildings. Journal of Building Engineering, 2020, 30, 101298.	3.4	10
63	Performance simulation of a solar-assisted micro-tri-generation system: hotel case study. International Journal of Low-Carbon Technologies, 2011, 6, 309-317.	2.6	9
64	Sustainability indicators of a naturally ventilated photovoltaic faÃ§ade system. Journal of Cleaner Production, 2020, 266, 121946.	9.3	9
65	Realistic Solutions for Wind Power Production with Climate Change. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 912-918.	2.3	8
66	An indoor air perception method to detect fungi growth in flats. Expert Systems With Applications, 2012, 39, 3740-3746.	7.6	8
67	Development and Performance of an Advanced Ejector Cooling System for a Sustainable Built Environment. Frontiers in Mechanical Engineering, 2015, 1, .	1.8	8
68	A dynamic model for once-through direct steam generation in linear focus solar collectors. Renewable Energy, 2021, 163, 246-261.	8.9	8
69	Analysis of a plate heat pipe solar collector. International Journal of Low-Carbon Technologies, 2006, 1, 1-9.	2.6	7
70	Simulation of a linear Fresnel solar collector concentrator. International Journal of Low-Carbon Technologies, 2010, 5, 125-129.	2.6	7
71	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
72	Analysis of a micro-cogeneration system using hybrid solar/gas collectors. International Journal of Low-Carbon Technologies, 2006, 1, 285-297.	2.6	6

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73	Reducing energy peak consumption with passive climate control methods. Energy and Buildings, 2011, 43, 2282-2288.	6.7	6
74	An Experimental Test of Low Speed Wind Turbine Concentrators. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 1222-1230.	2.3	6
75	Passive Methods as a Solution for Improving Indoor Environments. Green Energy and Technology, 2012, , .	0.6	6
76	Feasibility of Utilizing Photovoltaics for Irrigation Purposes in Moamba, Mozambique. Sustainability, 2021, 13, 10998.	3.2	6
77	Experimental uncertainty analysis in solar collectors. International Journal of Ambient Energy, 2006, 27, 59-64.	2.5	5
78	Research on heating and cooling requirements of buildings with solar louvre devices. Advances in Building Energy Research, 2010, 4, 1-21.	2.3	5
79	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
80	Sustainability assessment of a hybrid CSP/biomass. Results of a prototype plant in Tunisia. Sustainable Energy Technologies and Assessments, 2020, 42, 100862.	2.7	5
81	Sustainability assessment of a novel micro solar thermal: Biomass heat and power plant in Morocco. Journal of Industrial Ecology, 2020, 24, 1379-1392.	5.5	5
82	Thermal performance of a closed wet cooling tower for chilled ceilings: measurement and CFD simulation. International Journal of Energy Research, 2000, 24, 1171-1179.	4.5	4
83	Evaluation of a solar cooling system with louvre thermal collectors. International Journal of Low-Carbon Technologies, 2007, 2, 99-108.	2.6	4
84	Impact of climate change on cooling energy consumption. Journal of the Energy Institute, 2010, 83, 171-177.	5.3	4
85	A Trnsys simulation of a solar-driven ejector air conditioning system with an integrated PCM cold storage. AIP Conference Proceedings, 2017, , .	0.4	4
86	Thermal Comfort and Indoor Air Quality. Green Energy and Technology, 2012, , 1-13.	0.6	4
87	Testing of an integrated solar louvre collector. International Journal of Ambient Energy, 2004, 25, 171-176.	2.5	3
88	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.	4.5	3
89	Simulation study of an electrogasdynamic power converter using CFD. International Journal of Low-Carbon Technologies, 2006, 1, 245-261.	2.6	3
90	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.	2.6	3

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91	Improvement in quality control for applications used by marine engineers. Computer Applications in Engineering Education, 2012, 20, 187-192.	3.4	3
92	Modelling and analysis of photovoltaic/thermal collectors â€“ influence of PV cell location and area. International Journal of Ambient Energy, 2015, 36, 76-86.	2.5	3
93	Educational solar energy tool in Matlab environment. Energy Reports, 2020, 6, 490-495.	5.1	3
94	Comparison of nZEB indicators for hotel renovations under different European climatic conditions. International Journal of Low-Carbon Technologies, 2021, 16, 246-257.	2.6	3
95	Combining light pipe and stack ventilation â€” some development aspects. , 2000, , 395-400.		3
96	EXPERIMENTAL QUANTIFICATION OF THE OPERATIVE TIME OF A PASSIVE HVAC SYSTEM USING POROUS COVERING MATERIALS. Journal of Porous Media, 2010, 13, 637-643.	1.9	3
97	Numerical simulation of an integrated solar louvre collector system. International Journal of Ambient Energy, 2003, 24, 6-12.	2.5	2
98	Study of a hybrid PV-Thermal solar system to provide electricity and heat in Portugal. International Journal of Ambient Energy, 2008, 29, 153-161.	2.5	2
99	Evaluation of a solar louvre collector system for building heating and cooling. International Journal of Ambient Energy, 2008, 29, 59-64.	2.5	2
100	Low speed wind concentrator to improve wind farm power generation. , 2009, , .		2
101	A novel solar faÃ§ade concept for energy polygeneration in buildings. International Journal of Low-Carbon Technologies, 0, , ctv020.	2.6	2
102	Numerical simulation of a hybrid CSP/Biomass 5 MWel power plant. AIP Conference Proceedings, 2017, , .	0.4	2
103	Analysis of swimming pool solar heating using the utilizability method. Energy Reports, 2020, 6, 717-724.	5.1	2
104	Indoor Air Standards and Models. Green Energy and Technology, 2012, , 15-47.	0.6	2
105	Case study of safe working conditions in spanish merchant ships. Polish Maritime Research, 2012, 19, .	1.9	1
106	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, , .	0.4	1
107	Thermal and electrical performance assessment of a solar polygeneration system. Energy Reports, 2020, 6, 725-731.	5.1	1
108	Permeable Coverings. Green Energy and Technology, 2012, , 99-129.	0.6	1

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109	SmallSolDes - Development of a small-scale desalination unit driven by solar energy using a variable geometry ejector. AIP Conference Proceedings, 2020, , .	0.4	1
110	Numerical simulation and economic assessment of solar process heat and cooling for a Portuguese brewing factory. AIP Conference Proceedings, 2020, , .	0.4	1
111	Thermoeconomic Analysis and Evaluation of a Building-Integrated Photovoltaic (BIPV) System Based on Actual Operational Data. Green Energy and Technology, 2018, , 877-886.	0.6	0
112	Energy assessment of the implementation of renewable energies in a Portuguese household. International Journal of Low-Carbon Technologies, 2019, 14, 452-460.	2.6	0
113	POLYSOL â€“ Thermal and electrical performance assessment of a cost-effective polygeneration system. IOP Conference Series: Earth and Environmental Science, 2019, 352, 012052.	0.3	0
114	Utilities and Effluent Treatment | Refrigeration. , 2011, , 596-601.		0
115	Passive Methods to Address the Sick Building Syndrome in Public Buildings. , 2011, , 481-492.		0
116	Real Indoor Environments. Green Energy and Technology, 2012, , 49-70.	0.6	0
117	Passive Methods. Green Energy and Technology, 2012, , 71-97.	0.6	0
118	Future Research Work. Green Energy and Technology, 2012, , 131-147.	0.6	0
119	Small Scale Solar-Driven CHP System Pre-Dimensioning Sensitiveness to Solar Field and ORC Power Block Components Efficiencies. , 2015, , .		0
120	Effect of Collector Self-Shading on the Performance of a Biomass/solar Micro-Chp System. , 2016, , .		0
121	Energetic Analysis of the Implementation of Renewable Energies in a Canary Island Hotel. , 2016, , .		0
122	Testing and Modeling of Direct Steam Generating Parabolic Trough Collectors. , 2018, , .		0
123	Improvements of CSP/biomass hybridisation with single-phase fluids. AIP Conference Proceedings, 2020, , .	0.4	0