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List of Publications by Year
in descending order

30 papers	1,739 citations	361413 20 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	1293 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. Solar Energy, 2009, 83, 2165-2176.	6.1	394
2	Performance analysis of an Integrated Solar Combined Cycle using Direct Steam Generation in parabolic trough collectors. Applied Energy, 2011, 88, 3228-3238.	10.1	214
3	Performance of a direct steam generation solar thermal power plant for electricity production as a function of the solar multiple. Solar Energy, 2009, 83, 679-689.	6.1	172
4	Solar radiation concentration features in Linear Fresnel Reflector arrays. Energy Conversion and Management, 2012, 54, 133-144.	9.2	109
5	Comparison of Heat Transfer Fluid and Direct Steam Generation technologies for Integrated Solar Combined Cycles. Applied Thermal Engineering, 2013, 52, 264-274.	6.0	101
6	A novel supercritical CO2 recompression Brayton power cycle for power tower concentrating solar plants. Applied Energy, 2020, 263, 114644.	10.1	82
7	Analysis and comparison of Integrated Solar Combined Cycles using parabolic troughs and linear Fresnel reflectors as concentrating systems. Applied Energy, 2016, 162, 990-1000.	10.1	81
8	A comparative analysis of configurations of linear Fresnel collectors for concentrating solar power. Energy, 2014, 73, 192-203.	8.8	75
9	Thermofluidynamic Model and Comparative Analysis of Parabolic Trough Collectors Using Oil, Water/Steam, or Molten Salt as Heat Transfer Fluids. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	69
10	Parabolic trough collector or linear Fresnel collector? A comparison of optical features including thermal quality based on commercial solutions. Solar Energy, 2016, 124, 198-215.	6.1	53
11	Energy management in solar thermal power plants with double thermal storage system and subdivided solar field. Applied Energy, 2011, 88, 4055-4066.	10.1	46
12	Proposal of a fluid flow layout to improve the heat transfer in the active absorber surface of solar central cavity receivers. Applied Thermal Engineering, 2012, 35, 220-232.	6.0	41
13	Performance model and thermal comparison of different alternatives for the Fresnel single-tube receiver. Applied Thermal Engineering, 2016, 104, 162-175.	6.0	41
14	Advances in the linear Fresnel single-tube receivers: Hybrid loops with non-evacuated and evacuated receivers. Energy Conversion and Management, 2017, 149, 318-333.	9.2	36
15	Optical features of linear Fresnel collectors with different secondary reflector technologies. Applied Energy, 2018, 232, 386-397.	10.1	31
16	Safety issues of nuclear production of hydrogen. Energy Conversion and Management, 2006, 47, 2732-2739.	9.2	30
17	Optimization of Brayton cycles for low-to-moderate grade thermal energy sources. Energy, 2013, 55, 403-416.	8.8	30
18	Design of an innovative linear Fresnel collector by means of optical performance optimization: A comparison with parabolic trough collectors for different latitudes. Solar Energy, 2017, 153, 459-470.	6.1	25

#	Article	IF	Citations
19	A new approach for the prediction of thermal efficiency in solar receivers. Energy Conversion and Management, 2016, 123, 498-511.	9.2	21
20	Off-design analysis of a Hybrid Rankine-Brayton cycle used as the power block of a solar thermal power plant. Energy, 2017, 134, 369-381.	8.8	20
21	Simulation and comparison between fixed and sliding-pressure strategies in parabolic-trough solar power plants with direct steam generation. Applied Thermal Engineering, 2017, 125, 735-745.	6.0	14
22	Comparison of Different Technologies for Integrated Solar Combined Cycles: Analysis of Concentrating Technology and Solar Integration. Energies, 2018, 11, 1064.	3.1	13
23	A new design of multi-tube receiver for Fresnel technology to increase the thermal performance. Applied Thermal Engineering, 2022, 204, 117970.	6.0	11
24	On the improvement of annual performance of solar thermal power plants through exergy management. International Journal of Energy Research, 2014, 38, 658-673.	4.5	10
25	Thermodynamic cycles for solar thermal power plants: A review. Wiley Interdisciplinary Reviews: Energy and Environment, 2022, 11, e420.	4.1	7
26	Going further with Fresnel Receiver: New Design Window for Direct Steam Generation. Energy Procedia, 2014, 49, 184-192.	1.8	4
27	Methodology for the thermal characterization of linear Fresnel collectors: Comparative of different configurations and working fluids. AIP Conference Proceedings, 2017, , .	0.4	3
28	A Quest to the Cheapest Method for Electricity Generation in Concentrating Solar Power Plants. Energy Procedia, 2015, 75, 514-520.	1.8	2
29	A Concentrating Solar Power Prototype for validating a new Fresnel-based plant design. Energy Procedia, 2015, 75, 423-429.	1.8	2
30	Proposal of optimized power cycles for the DEMO power plant (EUROfusion). Fusion Engineering and Design, 2019, 148, 111290.	1.9	2