

Eduardo Zarza

List of Publications by Year in descending order

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49
papers

3,727
citations

236925

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h-index

254184

43
g-index

49
all docs

49
docs citations

49
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Parabolic-trough concentrating solar power systems. , 2021, , 219-266.		12
2	Modeling and Hourly Time-Scale Characterization of the Main Energy Parameters of Parabolic-Trough Solar Thermal Power Plants Using a Simplified Quasi-Dynamic Model. Energies, 2021, 14, 221.	3.1	4
3	Analysis of a failure mechanism in parabolic troughs receivers due to bellows cap overirradiation. Engineering Failure Analysis, 2020, 111, 104491.	4.0	10
4	A new concept of solar thermal power plants with large-aperture parabolic-trough collectors and sCO ₂ as working fluid. Energy Conversion and Management, 2019, 199, 112030.	9.2	31
5	SMALL-SIZED parabolic-trough solar collectors: Development of a test loop and evaluation of testing conditions. Energy, 2018, 152, 401-415.	8.8	17
6	Influence of the displacement of solar receiver tubes on the performance of a parabolic-trough collector. Energy, 2018, 159, 472-481.	8.8	26
7	Direct steam generation in parabolic-trough collectors: A review about the technology and a thermo-economic analysis of a hybrid system. Renewable and Sustainable Energy Reviews, 2017, 74, 453-473.	16.4	58
8	New PSA high concentration solar furnace SF40. AIP Conference Proceedings, 2016, , .	0.4	25
9	Review and validation of Solar Thermal Electricity potential methodologies. Energy Conversion and Management, 2016, 126, 42-50.	9.2	11
10	Test bench HEATREC for heat loss measurement on solar receiver tubes. AIP Conference Proceedings, 2016, , .	0.4	7
11	Liquid Crystals: A Different Approach for Storing Latent Energy in a DSG Plant. Energy Procedia, 2015, 69, 1014-1022.	1.8	4
12	Modelling and testing of a solar-receiver system applied to high-temperature processes. Renewable Energy, 2015, 76, 608-618.	8.9	29
13	Thermal analysis and design of a volumetric solar absorber depending on the porosity. Renewable Energy, 2014, 62, 116-128.	8.9	90
14	Modeling direct steam generation in solar collectors with multiphase CFD. Applied Energy, 2014, 113, 1338-1348.	10.1	91
15	Lessons learnt during the design, construction and start-up phase of a molten salt testing facility. Applied Thermal Engineering, 2014, 62, 520-528.	6.0	27
16	Optical and thermal performance of large-size parabolic-trough solar collectors from outdoor experiments: A test method and a case study. Energy, 2014, 70, 456-464.	8.8	116
17	Theoretical basis and experimental facility for parabolic trough collectors at high temperature using gas as heat transfer fluid. Applied Energy, 2014, 135, 373-381.	10.1	77
18	Performance model and annual yield comparison of parabolic-trough solar thermal power plants with either nitrogen or synthetic oil as heat transfer fluid. Energy Conversion and Management, 2014, 87, 238-249.	9.2	52

#	ARTICLE	IF	CITATIONS
19	Uncertainty and global sensitivity analysis in the design of parabolic-trough direct steam generation plants for process heat applications. <i>Applied Energy</i> , 2014, 121, 233-244.	10.1	36
20	PTTL "A Life-size Test Loop for Parabolic Trough Collectors. <i>Energy Procedia</i> , 2014, 49, 136-144.	1.8	5
21	PSA Vertical Axis Solar Furnace SF5. <i>Energy Procedia</i> , 2014, 49, 1511-1522.	1.8	26
22	Thermal analysis and design of a solar prototype for high-temperature processes. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 309-318.	4.8	12
23	Thermal analysis of solar receiver pipes with superheated steam. <i>Applied Energy</i> , 2013, 103, 73-84.	10.1	119
24	Sensitivity Analysis of Saturated Steam Production in Parabolic Trough Collectors. <i>Energy Procedia</i> , 2012, 30, 765-774.	1.8	12
25	Parabolic-trough solar thermal power plant simulation scheme, multi-objective genetic algorithm calibration and validation. <i>Solar Energy</i> , 2012, 86, 531-540.	6.1	47
26	Development of a Small-Sized Parabolic-Trough Collector. Final Results of Capsol Project. , 2011, , .		3
27	Modelling of a Small-Sized Parabolic-Trough Solar Collector Field for Process Heat in the Cork Industry. , 2011, , .		1
28	Pressure Losses in Small-Sized Parabolic-Trough Solar Fields for Industrial Process Heat. , 2011, , .		2
29	Influence of Measurement Equipment on the Uncertainty of Performance Data from Test Loops for Concentrating Solar Collectors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2010, 132, .	1.8	8
30	Parabolic-trough solar collectors and their applications. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1695-1721.	16.4	865
31	Analysis of the experimental behaviour of a 100kW _{th} latent heat storage system for direct steam generation in solar thermal power plants. <i>Applied Thermal Engineering</i> , 2010, 30, 2643-2651.	6.0	107
32	Object-oriented modelling and simulation of ACUREX solar thermal power plant. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2010, 16, 211-224.	2.2	8
33	Object oriented modelling and simulation of parabolic trough collectors with modelica. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2008, 14, 361-375.	2.2	7
34	Solar thermal power plants for the Spanish electricity market. <i>International Journal of Energy Technology and Policy</i> , 2007, 5, 261.	0.2	3
35	Development Steps for Parabolic Trough Solar Power Technologies With Maximum Impact on Cost Reduction. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007, 129, 371-377.	1.8	64
36	INDITEP: The first pre-commercial DSG solar power plant. <i>Solar Energy</i> , 2006, 80, 1270-1276.	6.1	165

#	ARTICLE	IF	CITATIONS
37	Control scheme for direct steam generation in parabolic troughs under recirculation operation mode. Solar Energy, 2006, 80, 1-17.	6.1	57
38	Saturated steam process with direct steam generating parabolic troughs. Solar Energy, 2006, 80, 1424-1433.	6.1	53
39	Control concepts for direct steam generation in parabolic troughs. Solar Energy, 2005, 78, 301-311.	6.1	88
40	Development Steps for Concentrating Solar Power Technologies With Maximum Impact on Cost Reduction: Results of the European ECOSTAR Study. , 2005, , 773.		10
41	Direct steam generation in parabolic troughs: Final results and conclusions of the DISS project. Energy, 2004, 29, 635-644.	8.8	205
42	Direct steam generation in solar boilers. IEEE Control Systems, 2004, 24, 15-29.	0.8	59
43	Applied research concerning the direct steam generation in parabolic troughs. Solar Energy, 2003, 74, 341-351.	6.1	162
44	The DISS Project: Direct Steam Generation in Parabolic Trough Systems. Operation and Maintenance Experience and Update on Project Status. Journal of Solar Energy Engineering, Transactions of the ASME, 2002, 124, 126-133.	1.8	84
45	Advances in Parabolic Trough Solar Power Technology. Journal of Solar Energy Engineering, Transactions of the ASME, 2002, 124, 109-125.	1.8	677
46	EuroTrough Design Issues and Prototype Testing at PSA. , 2001, , .		51
47	Advanced MED solar desalination plants. Configurations, costs, future " seven years of experience at the Plataforma Solar de Almeria (Spain). Desalination, 1997, 108, 51-58.	8.2	63
48	Solar thermal desalination project at the Plataforma Solar de Almeria. Solar Energy Materials and Solar Cells, 1991, 24, 608-622.	0.4	19
49	Development of a rugged design of a high efficiency multi-stage solar still. Desalination, 1991, 82, 145-152.	8.2	22