Marc RÃ¶ger

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7476949/publications.pdf

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36	612	759233	610901
papers	citations	12 h-index	24 g-index

36	36	36	469
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in heliostat development. Solar Energy, 2017, 152, 3-37.	6.1	115
2	Face-Down Solid Particle Receiver Using Recirculation. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	67
3	Assessment of a falling solid particle receiver with numerical simulation. Solar Energy, 2015, 115, 505-517.	6.1	55
4	Durability of solar reflector materials for secondary concentrators used in CSP systems. Solar Energy Materials and Solar Cells, 2014, 130, 51-63.	6.2	51
5	Techniques to Measure Solar Flux Density Distribution on Large-Scale Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	40
6	Review of heliostat calibration and tracking control methods. Solar Energy, 2020, 207, 110-132.	6.1	37
7	Airborne shape measurement of parabolic trough collector fields. Solar Energy, 2013, 91, 68-78.	6.1	24
8	A comparative analysis of opto-thermal figures of merit for high temperature solar thermal absorber coatings. Renewable and Sustainable Energy Reviews, 2022, 154, 111818.	16.4	21
9	Efficiency determination of tubular solar receivers in central receiver systems. Solar Energy, 2016, 139, 179-189.	6.1	20
10	The effect of incidence angle on the reflectance of solar mirrors. Solar Energy Materials and Solar Cells, 2018, 176, 119-133.	6.2	19
11	Infrared-Reflective Coating on Fused Silica for a Solar High-Temperature Receiver. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	15
12	Air return ratio measurements at the solar tower JÃ¼lich using a tracer gas method. Solar Energy, 2017, 146, 351-358.	6.1	14
13	Heliostat Shape and Orientation by Edge Detection. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	13
14	Techno-economic analysis of receiver replacement scenarios in a parabolic trough field. AIP Conference Proceedings, 2016, , .	0.4	12
15	Dynamic photogrammetry applied to a real scale heliostat: Insights into the wind-induced behavior and effects on the optical performance. Solar Energy, 2020, 212, 297-308.	6.1	11
16	Automatic Noncontact Quality Inspection System for Industrial Parabolic Trough Assembly. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	10
17	Flux density measurement for industrial-scale solar power towers using the reflection off the absorber. AIP Conference Proceedings, 2019, , .	0.4	10
18	Induced Infrared Thermography: Flow visualizations under the extreme conditions of an open volumetric receiver of a solar tower. International Journal of Heat and Fluid Flow, 2017, 65, 105-113.	2.4	7

#	Article	IF	Citations
19	Airborne soiling measurements of entire solar fields with Qfly. AIP Conference Proceedings, 2020, , .	0.4	7
20	A tracer gas leak rate measurement method for circular air circuits. Flow Measurement and Instrumentation, 2016, 47, 45-53.	2.0	6
21	Heliostat testing according to SolarPACES task III guideline. AIP Conference Proceedings, 2019, , .	0.4	6
22	A Transient Thermography Method to Separate Heat Loss Mechanisms in Parabolic Trough Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	5
23	Modelling, Simulation and Identification of Heat Loss Mechanisms for Parabolic Trough Receivers Installed in Concentrated Solar Power Plants. IFAC-PapersOnLine, 2015, 48, 372-377.	0.9	5
24	Characterization and Corrections for Clamp-On Fluid Temperature Measurements in Turbulent Flows. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	5
25	Selection of Solar Concentrator Design Concepts for Planar Photoelectrochemical Water Splitting Devices. Energies, 2020, 13, 5196.	3.1	5
26	Forty shades of black: A benchmark of high temperature sprayable black coatings applied on Haynes 230. AIP Conference Proceedings, 2020, , .	0.4	5
27	Air-borne shape measurement of parabolic trough collector fields. AIP Conference Proceedings, 2017, , .	0.4	4
28	Airborne characterization of the Andasol 3 solar field. AIP Conference Proceedings, 2018, , .	0.4	4
29	A two-stage method for measuring the heliostat offset. AIP Conference Proceedings, 2022, , .	0.4	4
30	Solar blind pyrometric temperature measurement on pressurized volumetric power tower receivers. Quantitative InfraRed Thermography Journal, 2006, 3, 5-24.	4.2	3
31	Sunshape measurements with conventional rotating shadowband irradiometers. AIP Conference Proceedings, 2018, , .	0.4	3
32	Flow through calorimeter to measure fluid heat capacity in CSP applications. Solar Energy, 2019, 194, 804-814.	6.1	3
33	Status update of the SolarPACES heliostat testing activities. AIP Conference Proceedings, 2022, , .	0.4	3
34	From research to industry: Development of a high-resolution measurement system for mirrored heliostats in series production. AIP Conference Proceedings, 2019, , .	0.4	2
35	State-of-the-Art Measurement Instrumentation and Most Recent Measurement Techniques for Parabolic Trough Collector Fields. Energies, 2021, 14, 7166.	3.1	1
36	Heat flux and temperature measurements on glass envelope and bellows of parabolic trough receivers. AIP Conference Proceedings, 2018, , .	0.4	0