

Arã;nzazu Fernã;ndez-Garcã-a

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,439
citations

687363

13
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Parabolic-trough solar collectors and their applications. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1695-1721.	16.4	865
2	A parabolic-trough collector for cleaner industrial process heat. <i>Journal of Cleaner Production</i> , 2015, 89, 272-285.	9.3	95
3	Durability of solar reflector materials for secondary concentrators used in CSP systems. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 51-63.	6.2	51
4	Equipment and methods for measuring reflectance of concentrating solar reflector materials. <i>Solar Energy Materials and Solar Cells</i> , 2017, 167, 28-52.	6.2	45
5	Sand erosion on solar reflectors: Accelerated simulation and comparison with field data. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 303-313.	6.2	40
6	A Review of Conventional and Innovative- Sustainable Methods for Cleaning Reflectors in Concentrating Solar Power Plants. <i>Sustainability</i> , 2018, 10, 3937.	3.2	38
7	Spectral characterization of specular reflectance of solar mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 248-254.	6.2	30
8	Assessment of the erosion risk of sandstorms on solar energy technology at two sites in Morocco. <i>Solar Energy</i> , 2018, 162, 217-228.	6.1	30
9	Sandstorm erosion testing of anti-reflective glass coatings for solar energy applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 10-16.	6.2	22
10	Study of the Effect of Acid Atmospheres in Solar Reflectors Durability under Accelerated Aging Conditions. <i>Energy Procedia</i> , 2014, 49, 1682-1691.	1.8	19
11	Reflectometer comparison for assessment of back-silvered glass solar mirrors. <i>Solar Energy</i> , 2017, 155, 496-505.	6.1	19
12	The effect of incidence angle on the reflectance of solar mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 119-133.	6.2	19
13	Soiling and Cleaning of Polymer Film Solar Reflectors. <i>Energies</i> , 2016, 9, 1006.	3.1	17
14	Hydrophilic anti-soiling coating for improved efficiency of solar reflectors. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	13
15	Water Saving in CSP Plants by a Novel Hydrophilic Anti-Soiling Coating for Solar Reflectors. <i>Coatings</i> , 2019, 9, 739.	2.6	13
16	Uncertainty Study of Reflectance Measurements for Concentrating Solar Reflectors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7218-7232.	4.7	12
17	Comparison of Degradation on Aluminum Reflectors for Solar Collectors due to Outdoor Exposure and Accelerated Aging. <i>Energies</i> , 2016, 9, 916.	3.1	11
18	Lifetime prediction of aluminum solar mirrors by correlating accelerated aging and outdoor exposure experiments. <i>Solar Energy</i> , 2018, 174, 149-163.	6.1	11

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19	Solar Reflector Materials Degradation Due to the Sand Deposited on the Backside Protective Paints. Energies, 2018, 11, 808.	3.1	9
20	Simplified analysis of solar-weighted specular reflectance for mirrors with high specularity. AIP Conference Proceedings, 2016, , .	0.4	8
21	Lifetime prediction model of reflector materials for concentrating solar thermal energies in corrosive environments. Solar Energy Materials and Solar Cells, 2021, 224, 110996.	6.2	8
22	Durability Studies of Solar Reflectors Used in Concentrating Solar Thermal Technologies under Corrosive Sulfurous Atmospheres. Sustainability, 2018, 10, 3008.	3.2	7
23	Advanced measurement techniques to characterize the near-specular reflectance of solar mirrors. AIP Conference Proceedings, 2019, , .	0.4	7
24	A Simplified Method to Avoid Shadows at Parabolic-Trough Solar Collectors Facilities. Symmetry, 2020, 12, 278.	2.2	7
25	Standards for components in concentrating solar thermal power plants - status of the Spanish working group. AIP Conference Proceedings, 2016, , .	0.4	6
26	Performance assessment of the anti-soiling coating on solar mirrors soiling in the arid climate of Ouarzazate-Morocco. Solar Energy, 2022, 241, 13-23.	6.1	5
27	Sandstorm erosion simulation on solar mirrors and comparison with field data. AIP Conference Proceedings, 2017, , .	0.4	4
28	Advanced cyclic accelerated aging testing of solar reflector materials. AIP Conference Proceedings, 2019, , .	0.4	4
29	Enhanced equivalent model algorithm for solar mirrors. AIP Conference Proceedings, 2020, , .	0.4	4
30	Towards standardized testing methodologies for optical properties of components in concentrating solar thermal power plants. AIP Conference Proceedings, 2017, , .	0.4	3
31	Durability testing of a newly developed hydrophilic anti-soiling coating for solar reflectors. AIP Conference Proceedings, 2019, , .	0.4	3
32	Advanced Analysis of Corroded Solar Reflectors. Coatings, 2019, 9, 749.	2.6	3
33	Effect of long term outdoor exposure on anti-soiling coatings for solar reflectors. AIP Conference Proceedings, 2020, , .	0.4	3
34	Accelerated aging test of solar reflectors according to the new AENOR standard “ results of a round Robin test. AIP Conference Proceedings, 2018, , .	0.4	2
35	Integration of a non-immersion ultrasonic cleaning system in a solar concentrating field. AIP Conference Proceedings, 2019, , .	0.4	2
36	New set-up to test secondary concentrators under real solar radiation with high concentration. AIP Conference Proceedings, 2019, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Surfaces and Interfaces for Renewable Energy. Coatings, 2019, 9, 838.	2.6	1
38	Indirect method to determine near-normal sun-conic reflectance. AIP Conference Proceedings, 2020, , .	0.4	1
39	A guideline for realistic accelerated aging testing of silvered-glass reflectors. AIP Conference Proceedings, 2022, , .	0.4	0
40	RAISELIFE project extends the lifetime of functional CSP materials. AIP Conference Proceedings, 2022, , .	0.4	0