ArÃ¡nzazu FernÃ¡ndez-GarcÃ-a

List of Publications by Year
in descending order

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	A guideline for realistic accelerated aging testing of silvered-glass reflectors. AIP Conference Proceedings, 2022, , .	0.4	0
2	RAISELIFE project extends the lifetime of functional CSP materials. AIP Conference Proceedings, 2022, , .	0.4	0
3	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
4	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
5	Effect of long term outdoor exposure on anti-soiling coatings for solar reflectors. AIP Conference Proceedings, 2020, , .	0.4	3
6	Uncertainty Study of Reflectance Measurements for Concentrating Solar Reflectors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7218-7232.	4.7	12
7	A Simplified Method to Avoid Shadows at Parabolic-Trough Solar Collectors Facilities. Symmetry, 2020, 12, 278.	2.2	7
8	Enhanced equivalent model algorithm for solar mirrors. AIP Conference Proceedings, 2020, , .	0.4	4
9	Indirect method to determine near-normal sun-conic reflectance. AIP Conference Proceedings, 2020, , .	0.4	1
10	Integration of a non-immersion ultrasonic cleaning system in a solar concentrating field. AIP Conference Proceedings, 2019, , .	0.4	2
11	New set-up to test secondary concentrators under real solar radiation with high concentration. AIP Conference Proceedings, 2019, , .	0.4	2
12	Advanced cyclic accelerated aging testing of solar reflector materials. AIP Conference Proceedings, 2019, , .	0.4	4
13	Advanced measurement techniques to characterize the near-specular reflectance of solar mirrors. AIP Conference Proceedings, 2019, , .	0.4	7
14	Durability testing of a newly developed hydrophilic anti-soiling coating for solar reflectors. AIP Conference Proceedings, 2019, , .	0.4	3
15	Surfaces and Interfaces for Renewable Energy. Coatings, 2019, 9, 838.	2.6	1
16	Water Saving in CSP Plants by a Novel Hydrophilic Anti-Soiling Coating for Solar Reflectors. Coatings, 2019, 9, 739.	2.6	13
17	Advanced Analysis of Corroded Solar Reflectors. Coatings, 2019, 9, 749.	2.6	3
18	Sandstorm erosion testing of anti-reflective glass coatings for solar energy applications. Solar Energy Materials and Solar Cells, 2018, 179, 10-16.	6.2	22

#	ARTICLE	IF	CITATIONS
19	Assessment of the erosion risk of sandstorms on solar energy technology at two sites in Morocco. Solar Energy, 2018, 162, 217-228.	6.1	30
20	The effect of incidence angle on the reflectance of solar mirrors. Solar Energy Materials and Solar Cells, 2018, 176, 119-133.	6.2	19
21	Accelerated aging test of solar reflectors according to the new AENOR standard â€“ results of a round Robin test. AIP Conference Proceedings, 2018, , .	0.4	2
22	A Review of Conventional and Innovative- Sustainable Methods for Cleaning Reflectors in Concentrating Solar Power Plants. Sustainability, 2018, 10, 3937.	3.2	38
23	Hydrophilic anti-soiling coating for improved efficiency of solar reflectors. AIP Conference Proceedings, 2018, , .	0.4	13
24	Durability Studies of Solar Reflectors Used in Concentrating Solar Thermal Technologies under Corrosive Sulfurous Atmospheres. Sustainability, 2018, 10, 3008.	3.2	7
25	Lifetime prediction of aluminum solar mirrors by correlating accelerated aging and outdoor exposure experiments. Solar Energy, 2018, 174, 149-163.	6.1	11
26	Solar Reflector Materials Degradation Due to the Sand Deposited on the Backside Protective Paints. Energies, 2018, 11, 808.	3.1	9
27	Equipment and methods for measuring reflectance of concentrating solar reflector materials. Solar Energy Materials and Solar Cells, 2017, 167, 28-52.	6.2	45
28	Sandstorm erosion simulation on solar mirrors and comparison with field data. AIP Conference Proceedings, 2017, , .	0.4	4
29	Towards standardized testing methodologies for optical properties of components in concentrating solar thermal power plants. AIP Conference Proceedings, 2017, , .	0.4	3
30	Reflectometer comparison for assessment of back-silvered glass solar mirrors. Solar Energy, 2017, 155, 496-505.	6.1	19
31	Soiling and Cleaning of Polymer Film Solar Reflectors. Energies, 2016, 9, 1006.	3.1	17
32	Comparison of Degradation on Aluminum Reflectors for Solar Collectors due to Outdoor Exposure and Accelerated Aging. Energies, 2016, 9, 916.	3.1	11
33	Standards for components in concentrating solar thermal power plants - status of the Spanish working group. AIP Conference Proceedings, 2016, , .	0.4	6
34	Simplified analysis of solar-weighted specular reflectance for mirrors with high specularity. AIP Conference Proceedings, 2016, , .	0.4	8
35	Spectral characterization of specular reflectance of solar mirrors. Solar Energy Materials and Solar Cells, 2016, 145, 248-254.	6.2	30
36	Sand erosion on solar reflectors: Accelerated simulation and comparison with field data. Solar Energy Materials and Solar Cells, 2016, 145, 303-313.	6.2	40

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37	A parabolic-trough collector for cleaner industrial process heat. Journal of Cleaner Production, 2015, 89, 272-285.	9.3	95
38	Study of the Effect of Acid Atmospheres in Solar Reflectors Durability under Accelerated Aging Conditions. Energy Procedia, 2014, 49, 1682-1691.	1.8	19
39	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
40	Parabolic-trough solar collectors and their applications. Renewable and Sustainable Energy Reviews, 2010, 14, 1695-1721.	16.4	865