

Claudio A Estrada

List of Publications by Year in descending order

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63
papers

1,433
citations

331259

21
h-index

344852

36
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65
all docs

65
docs citations

65
times ranked

1425
citing authors

#	ARTICLE	IF	CITATIONS
1	First experimental studies of solar redox reactions of copper oxides for thermochemical energy storage. <i>Solar Energy</i> , 2015, 115, 297-305.	2.9	108
2	Water desalination by air humidification: Mathematical model and experimental study. <i>Solar Energy</i> , 2012, 86, 1070-1076.	2.9	100
3	Solar photocatalytic degradation of Aldrin. <i>Catalysis Today</i> , 2002, 76, 189-199.	2.2	96
4	An overview of the solar thermochemical processes for hydrogen and syngas production: Reactors, and facilities. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 894-908.	8.2	96
5	Numerical study of heat transfer by laminar and turbulent natural convection in tall cavities of facade elements. <i>Energy and Buildings</i> , 2005, 37, 787-794.	3.1	77
6	Optical design of a high radiative flux solar furnace for Mexico. <i>Solar Energy</i> , 2010, 84, 792-800.	2.9	63
7	Solar photoreactors comparison based on oxalic acid photocatalytic degradation. <i>Solar Energy</i> , 2004, 77, 503-512.	2.9	60
8	Numerical study of heat transfer by natural convection and surface thermal radiation in an open cavity receiver. <i>Solar Energy</i> , 2012, 86, 1118-1128.	2.9	47
9	The behaviour of a hybrid compressor and ejector refrigeration system with refrigerants 134a and 142b. <i>Applied Thermal Engineering</i> , 2004, 24, 1765-1783.	3.0	36
10	Mathematical simulation of a solar ejector-compression refrigeration system. <i>Applied Thermal Engineering</i> , 1996, 16, 669-675.	3.0	34
11	Heat flux sensors: Calorimeters or radiometers?. <i>Solar Energy</i> , 2006, 80, 1314-1320.	2.9	33
12	Theoretical and experimental study of natural convection with surface thermal radiation in a side open cavity. <i>Applied Thermal Engineering</i> , 2015, 75, 1176-1186.	3.0	33
13	Spectrally selective laminated glazing consisting of solar control and heat mirror coated glass: preparation, characterization and modelling of heat transfer. <i>Solar Energy</i> , 2005, 78, 113-124.	2.9	32
14	Photocatalytic degradation of DBSNa using solar energy. <i>Solar Energy Materials and Solar Cells</i> , 2000, 60, 85-95.	3.0	31
15	Radiation absorption and rate constants for carbaryl photocatalytic degradation in a solar collector. <i>Catalysis Today</i> , 2002, 76, 149-159.	2.2	31
16	Heat transfer in a conical cavity calorimeter for measuring thermal power of a point focus concentrator. <i>Solar Energy</i> , 2006, 80, 1434-1442.	2.9	29
17	Solar absorptance and thermal emittance of cermets with large particles. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2489-2496.	1.3	28
18	Heat transfer analysis in a calorimeter for concentrated solar radiation measurements. <i>Solar Energy</i> , 2007, 81, 1306-1313.	2.9	27

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19	Design of a novel CPC collector for the photodegradation of carbaryl pesticides as a function of the solar concentration ratio. <i>Solar Energy</i> , 2015, 115, 537-551.	2.9	27
20	High-heat-flux sensor calibration using calorimetry. <i>Metrologia</i> , 2004, 41, 314-318.	0.6	23
21	A flat-plate calorimeter for concentrated solar flux evaluation. <i>Renewable Energy</i> , 2008, 33, 2322-2328.	4.3	23
22	Chemically Deposited Bi ₂ S ₃ -CaCu x Solar Control Coatings. <i>Journal of the Electrochemical Society</i> , 1993, 140, 212-215.	1.3	22
23	Influence of the size of facets on point focus solar concentrators. <i>Renewable Energy</i> , 2011, 36, 966-970.	4.3	22
24	Synthesis of silicon carbide using concentrated solar energy. <i>Solar Energy</i> , 2015, 116, 238-246.	2.9	21
25	Thermal performance of solar control coatings: a mathematical model and its experimental verification. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 2249-2257.	1.3	20
26	Theoretical analysis of the thermal performance of chemically deposited solar control coatings. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 1304-1309.	1.3	19
27	Experimental aspects of CuO reduction in solar-driven reactors: Comparative performance of a rotary kiln and a packed-bed. <i>Renewable Energy</i> , 2017, 105, 665-673.	4.3	19
28	Three-Dimensional Analysis of a Concentrated Solar Flux. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008, 130, .	1.1	18
29	Theoretical analysis of the thermal performance of all-glass evacuated tube solar collectors with absorber coating on the outside or inside of the inner tube. <i>Renewable Energy</i> , 1992, 2, 477-483.	4.3	16
30	Conical receiver for a paraboloidal concentrator with large rim angle. <i>Solar Energy</i> , 2012, 86, 1053-1062.	2.9	16
31	Micro-facet solar concentrator. <i>International Journal of Sustainable Energy</i> , 2008, 27, 61-71.	1.3	15
32	Transient heat transfer simulation of a 1kWth moving front solar thermochemical reactor for thermal dissociation of compressed ZnO. <i>Chemical Engineering Research and Design</i> , 2015, 93, 174-184.	2.7	14
33	Development and Modeling of Solar Photocatalytic Reactors. <i>Advances in Chemical Engineering</i> , 2009, 36, 185-227.	0.5	13
34	The thermal response of laminated glass with solar control coating. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 3057-3065.	1.3	12
35	Numerical heat transfer in a cavity with a solar control coating deposited to a vertical semitransparent wall. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 34, 585-607.	0.9	12
36	Study of a Solar Booster Assisted Ejector Refrigeration System With R134a. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005, 127, 53-59.	1.1	12

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37	Thermal analysis of a finned receiver for a central tower solar system. <i>Renewable Energy</i> , 2019, 131, 1002-1012.	4.3	12
38	A device for measuring the angular distribution of incident radiation on tubular solar collectors. <i>Renewable Energy</i> , 1995, 6, 843-847.	4.3	11
39	Beam Solar Irradiation Assessment for Sonora, Mexico. <i>Energy Procedia</i> , 2014, 49, 2290-2296.	1.8	11
40	Heliostat image drift behavior for different error sources. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	11
41	Thermal performance of an architectural window with chemically deposited SnSi ₃ -CuxS solar control coating. <i>Renewable Energy</i> , 1993, 3, 683-690.	4.3	10
42	Synthesis and characterization of tantalum carbide nanoparticles using concentrated solar energy. <i>Advanced Powder Technology</i> , 2019, 30, 2574-2579.	2.0	10
43	Catalytic photodegradation of alkyl surfactants. <i>Water Science and Technology</i> , 2000, 42, 101-106.	1.2	10
44	Three-dimensional Analysis of Solar Radiation Distribution at the Focal Zone of the Solar Furnace of IER_UNAM. <i>Energy Procedia</i> , 2014, 57, 3031-3040.	1.8	9
45	Unraveling the mechanisms of lead adsorption and ageing process on high-temperature biochar. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 775-784.	1.6	8
46	Theoretical efficiency of an all-glass tubular solar collector using a chemically deposited SnS-CuxS absorber inside the inner tube. <i>Journal Physics D: Applied Physics</i> , 1992, 25, 1142-1147.	1.3	7
47	Transient heat conduction in a glass with chemically deposited SnSi ₃ -CuxS solar control coating. <i>Renewable Energy</i> , 1995, 6, 1023-1027.	4.3	7
48	Compensation of heliostat drift by seasonal sampling. <i>Solar Energy</i> , 2014, 105, 330-340.	2.9	6
49	Retos y oportunidades para el aprovechamiento y manejo ambiental del ex lago de Texcoco. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2015, 67, 145-166.	0.1	6
50	Correction of the concentrated sunlight spot's drift of the IER-UNAM's solar furnace. <i>Applied Thermal Engineering</i> , 2015, 75, 1187-1191.	3.0	5
51	Potential of solar central tower systems for thermal applications in the production chain of copper by pyrometallurgical route. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
52	Transient thermal response in nuclear waste repositories. <i>Nuclear Engineering and Design</i> , 2000, 198, 307-316.	0.8	4
53	Linear and nonlinear transient heat conduction in nuclear waste repositories. <i>Mathematical and Computer Modelling</i> , 1988, 10, 739-745.	2.0	3
54	A new approach for evaluating flux uniformity for dense array concentrator photovoltaic cells. <i>Solar Energy</i> , 2018, 171, 330-342.	2.9	3

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55	Theoretical approximation to transient heat conduction in nuclear waste repositories. Journal of Engineering Mathematics, 1987, 21, 287-293.	0.6	2
56	Dynamic Drift Compensation for Heliostats. Energy Procedia, 2014, 49, 2109-2117.	1.8	2
57	Solar synthesis of nanostructured zirconia: microstructural and thermal characterization. Materials Research Express, 2020, 7, 115014.	0.8	2
58	Analysis of Drift Phenomena in Heliostat Images. , 2012, , .		1
59	Solar production of WO ₃ : a green approach. Green Processing and Synthesis, 2015, 4, .	1.3	1
60	The performance of energy absorption in structural profiles with different discontinuities. International Journal of Advanced Manufacturing Technology, 2015, 84, 1081.	1.5	1
61	Study of a Solar Booster Assisted Ejector Refrigeration System With R134a. , 2003, , 343.		0
62	Efficient Operation of a Booster Assisted Ejector Refrigeration System. , 2006, , 117.		0
63	Heliostat Characterization by Optical Techniques and Image Processing. , 2012, , .		0