

Boon Han Lim

List of Publications by Year in descending order

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papers

613
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759233

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41
all docs

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41
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Imaging, Focusing Heliostat. Solar Energy, 2001, 71, 155-164.	6.1	93
2	Comparison of Two Sun Tracking Methods in the Application of a Heliostat Field. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 638-644.	1.8	70
3	Report of the first prototype of non-imaging focusing heliostat and its application in high temperature solar furnace. Solar Energy, 2002, 72, 531-544.	6.1	61
4	General Sun Tracking Formula for Heliostats With Arbitrarily Oriented Axes. Journal of Solar Energy Engineering, Transactions of the ASME, 2006, 128, 245-250.	1.8	42
5	Study of residual aberration for non-imaging focusing heliostat. Solar Energy Materials and Solar Cells, 2003, 79, 1-20.	6.2	41
6	Performance study of crossed compound parabolic concentrator as secondary optics in non-imaging dish concentrator for the application of dense-array concentrator photovoltaic system. Solar Energy, 2015, 120, 296-309.	6.1	38
7	Report on the second prototype of non-imaging focusing heliostat and its application in food processing. Solar Energy, 2005, 79, 280-289.	6.1	35
8	Investigating the Performance Improvement of a Photovoltaic System in a Tropical Climate using Water Cooling Method. Energy Procedia, 2019, 159, 78-83.	1.8	33
9	Dense-array concentrator photovoltaic prototype using non-imaging dish concentrator and an array of cross compound parabolic concentrators. Applied Energy, 2017, 204, 898-911.	10.1	31
10	Off-axis aberration correction surface in solar energy application. Solar Energy, 2006, 80, 268-271.	6.1	23
11	Industrial design and implementation of a large-scale dual-axis sun tracker with a vertical-axis-rotating-platform and multiple-row-elevation structures. Solar Energy, 2020, 199, 596-616.	6.1	20
12	Sol-hydrothermal synthesis of TiO ₂ :Sm ³⁺ nanoparticles and their enhanced photovoltaic properties. Journal of Alloys and Compounds, 2016, 686, 803-809.	5.5	15
13	Latitude-orientated mode of non-imaging focusing heliostat using spinning-elevation tracking method. Solar Energy, 2016, 135, 253-264.	6.1	13
14	Dense-array concentrator photovoltaic system using non-imaging dish concentrator and crossed compound parabolic concentrator. AIP Conference Proceedings, 2015, , .	0.4	12
15	Performance improvement of dye-sensitized solar cell by introducing Sm ³⁺ /Y ³⁺ co-doped TiO ₂ film as an efficient blocking layer. Thin Solid Films, 2017, 631, 141-146.	1.8	10
16	Optical characterization of two-stage non-imaging solar concentrator for active daylighting system. Solar Energy, 2019, 185, 24-33.	6.1	9
17	A case study in the tropical region to evaluate univariate imputation methods for solar irradiance data with different weather types. Sustainable Energy Technologies and Assessments, 2022, 50, 101764.	2.7	9
18	Prototype of Dense-array Concentrator Photovoltaic System Using Non-imaging Dish Concentrators and Cross Compound Parabolic Concentrator. Energy Procedia, 2017, 105, 131-136.	1.8	8

#	ARTICLE	IF	CITATIONS
19	Optimization Study of Parasitic Energy Losses in Photovoltaic System with Dual-Axis Solar Tracker Located at Different Latitudes. <i>Energy Procedia</i> , 2019, 158, 302-308.	1.8	7
20	High precision (1 part in 104) reflectivity measurement for the study of reflective materials used in solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 2003, 80, 305-314.	6.2	5
21	Design optimization of ultra-high concentrator photovoltaic system using two-stage non-imaging solar concentrator. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 93, 012012.	0.3	5
22	Silicon Purification by a New Type of Solar Furnace. <i>Chinese Physics Letters</i> , 2009, 26, 078103.	3.3	4
23	Development of silicon purification by strong radiation catalysis method. <i>Chinese Physics B</i> , 2010, 19, 118105.	1.4	4
24	Design and Construction of Prototype Mobile Sun-Tracking System for Concentrator Photovoltaic System. <i>Energy Procedia</i> , 2017, 142, 736-742.	1.8	4
25	Optical and Electrical Performance Evaluation of the Crossed Compound Parabolic Concentrator Module for the Application of Ultra-High Concentrator Photovoltaic System. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012031.	0.3	3
26	Imputation of Missing Values for Solar Irradiance Data under Different Weathers using Univariate Methods. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 721, 012004.	0.3	3
27	Realization of Tip Tilting By 8-Step Line Tilting. <i>Communications in Theoretical Physics</i> , 2009, 52, 549-554.	2.5	2
28	Recovery of the Solar Irradiance Data using Artificial Neural Network. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 721, 012006.	0.3	2
29	Passive design of buildings: A review of configuration features for natural ventilation and daylighting. <i>Journal of Physics: Conference Series</i> , 2021, 2053, 012009.	0.4	2
30	Comprehensive Methodology to Evaluate Parasitic Energy Consumption for Different Types of Dual-Axis Sun Tracking Systems. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-12.	2.5	2
31	Complete Solution of Sun Tracking for Heliostat. <i>Communications in Theoretical Physics</i> , 2006, 45, 165-166.	2.5	1
32	Digitalized Mirror Array and Its Application in Large Telescope: Principle and Case Studies. <i>Communications in Theoretical Physics</i> , 2009, 52, 750-760.	2.5	1
33	A generic sun-tracking algorithm for on-axis solar collector in mobile platforms. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
34	Feasibility study of tuned liquid column damper for ocean wave energy extraction. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
35	A novel anti-theft security system for photovoltaic modules. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
36	Comparative Study for Time-specific Ross Coefficient and Overall Ross Coefficient for Estimation of Photovoltaic Module Temperature. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Stand-alone Solar Photovoltaic System and Its Application in Mist Cooling of Vehicle. , 2019, , .		1
38	Numerical modelling of the power pack system for remote islands electrification. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012103.	0.3	0
39	Performance Improvement Optimisation of a Photovoltaic System located at the Tropical Climate using Water-Film Cooling Method. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012033.	0.3	0
40	Space optimization of concentrator photovoltaic systems based on levelized cost of electricity in solar power plant. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012047.	0.3	0
41	Theoretical Analysis of Hybrid Dense-Array Concentrator Photovoltaic and Stirling Engine System. Energy Procedia, 2019, 158, 284-290.	1.8	0