

Boon Han Lim

List of Publications by Year in descending order

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324
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#	ARTICLE	IF	CITATIONS
1	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
2	Recovery of the Solar Irradiance Data using Artificial Neural Network. IOP Conference Series: Earth and Environmental Science, 2021, 721, 012006.	0.3	2
3	Imputation of Missing Values for Solar Irradiance Data under Different Weathers using Univariate Methods. IOP Conference Series: Earth and Environmental Science, 2021, 721, 012004.	0.3	3
4	Passive design of buildings: A review of configuration features for natural ventilation and daylighting. Journal of Physics: Conference Series, 2021, 2053, 012009.	0.4	2
5	Comprehensive Methodology to Evaluate Parasitic Energy Consumption for Different Types of Dual-Axis Sun Tracking Systems. International Journal of Photoenergy, 2021, 2021, 1-12.	2.5	2
6	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
7	Numerical modelling of the power pack system for remote islands electrification. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012103.	0.3	0
8	Optical and Electrical Performance Evaluation of the Crossed Compound Parabolic Concentrator Module for the Application of Ultra-High Concentrator Photovoltaic System. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012031.	0.3	3
9	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
10	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
11	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
12	Theoretical Analysis of Hybrid Dense-Array Concentrator Photovoltaic and Stirling Engine System. Energy Procedia, 2019, 158, 284-290.	1.8	0
13	Optimization Study of Parasitic Energy Losses in Photovoltaic System with Dual-Axis Solar Tracker Located at Different Latitudes. Energy Procedia, 2019, 158, 302-308.	1.8	7
14	Optical characterization of two-stage non-imaging solar concentrator for active daylighting system. Solar Energy, 2019, 185, 24-33.	6.1	9
15	Comparative Study for Time-specific Ross Coefficient and Overall Ross Coefficient for Estimation of Photovoltaic Module Temperature. , 2019, , .		1
16	Stand-alone Solar Photovoltaic System and Its Application in Mist Cooling of Vehicle. , 2019, , .		1
17	Feasibility study of tuned liquid column damper for ocean wave energy extraction. AIP Conference Proceedings, 2017, , .	0.4	1
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	Dense-array concentrator photovoltaic prototype using non-imaging dish concentrator and an array of cross compound parabolic concentrators. <i>Applied Energy</i> , 2017, 204, 898-911.	10.1	31
20	Performance improvement of dye-sensitized solar cell by introducing Sm ³⁺ /Y ³⁺ co-doped TiO ₂ film as an efficient blocking layer. <i>Thin Solid Films</i> , 2017, 631, 141-146.	1.8	10
21	A novel anti-theft security system for photovoltaic modules. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
22	Design and Construction of Prototype Mobile Sun-Tracking System for Concentrator Photovoltaic System. <i>Energy Procedia</i> , 2017, 142, 736-742.	1.8	4
23	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
24	Sol-hydrothermal synthesis of TiO ₂ :Sm ³⁺ nanoparticles and their enhanced photovoltaic properties. <i>Journal of Alloys and Compounds</i> , 2016, 686, 803-809.	5.5	15
25	Latitude-orientated mode of non-imaging focusing heliostat using spinning-elevation tracking method. <i>Solar Energy</i> , 2016, 135, 253-264.	6.1	13
26	A generic sun-tracking algorithm for on-axis solar collector in mobile platforms. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
27	Dense-array concentrator photovoltaic system using non-imaging dish concentrator and crossed compound parabolic concentrator. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	12
28	Performance study of crossed compound parabolic concentrator as secondary optics in non-imaging dish concentrator for the application of dense-array concentrator photovoltaic system. <i>Solar Energy</i> , 2015, 120, 296-309.	6.1	38
29	Development of silicon purification by strong radiation catalysis method. <i>Chinese Physics B</i> , 2010, 19, 118105.	1.4	4
30	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
31	Realization of Tip Tilting By 8-Step Line Tilting. <i>Communications in Theoretical Physics</i> , 2009, 52, 549-554.	2.5	2
32	Silicon Purification by a New Type of Solar Furnace. <i>Chinese Physics Letters</i> , 2009, 26, 078103.	3.3	4
33	Off-axis aberration correction surface in solar energy application. <i>Solar Energy</i> , 2006, 80, 268-271.	6.1	23
34	General Sun Tracking Formula for Heliostats With Arbitrarily Oriented Axes. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2006, 128, 245-250.	1.8	42
35	Complete Solution of Sun Tracking for Heliostat. <i>Communications in Theoretical Physics</i> , 2006, 45, 165-166.	2.5	1
36	Report on the second prototype of non-imaging focusing heliostat and its application in food processing. <i>Solar Energy</i> , 2005, 79, 280-289.	6.1	35

#	ARTICLE	IF	CITATIONS
37	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
38	High precision (1 part in 10 ⁴) reflectivity measurement for the study of reflective materials used in solar collectors. Solar Energy Materials and Solar Cells, 2003, 80, 305-314.	6.2	5
39	Study of residual aberration for non-imaging focusing heliostat. Solar Energy Materials and Solar Cells, 2003, 79, 1-20.	6.2	41
40	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
41	Non-Imaging, Focusing Heliostat. Solar Energy, 2001, 71, 155-164.	6.1	93