

Kok Keong Chong

List of Publications by Year in descending order

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84
papers

1,717
citations

236925

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docs citations

86
times ranked

992
citing authors

#	ARTICLE	IF	CITATIONS
1	General formula for on-axis sun-tracking system and its application in improving tracking accuracy of solar collector. <i>Solar Energy</i> , 2009, 83, 298-305.	6.1	170
2	Non-Imaging, Focusing Heliostat. <i>Solar Energy</i> , 2001, 71, 155-164.	6.1	93
3	A review on various configurations of hybrid concentrator photovoltaic and thermoelectric generator system. <i>Solar Energy</i> , 2020, 201, 122-148.	6.1	91
4	Study of a solar water heater using stationary V-trough collector. <i>Renewable Energy</i> , 2012, 39, 207-215.	8.9	76
5	Design and construction of non-imaging planar concentrator for concentrator photovoltaic system. <i>Renewable Energy</i> , 2009, 34, 1364-1370.	8.9	75
6	Design and development in optics of concentrator photovoltaic system. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 598-612.	16.4	72
7	Comparison of Two Sun Tracking Methods in the Application of a Heliostat Field. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2004, 126, 638-644.	1.8	70
8	Report of the first prototype of non-imaging focusing heliostat and its application in high temperature solar furnace. <i>Solar Energy</i> , 2002, 72, 531-544.	6.1	61
9	Integration of an On-Axis General Sun-Tracking Formula in the Algorithm of an Open-Loop Sun-Tracking System. <i>Sensors</i> , 2009, 9, 7849-7865.	3.8	61
10	Photoluminescence emission behavior on the reduced band gap of Fe doping in CeO ₂ -SiO ₂ nanocomposite and photophysical properties. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 561-575.	5.2	57
11	A comprehensive study of dense-array concentrator photovoltaic system using non-imaging planar concentrator. <i>Renewable Energy</i> , 2014, 62, 542-555.	8.9	47
12	Performance study of water-cooled multiple-channel heat sinks in the application of ultra-high concentrator photovoltaic system. <i>Solar Energy</i> , 2017, 147, 314-327.	6.1	47
13	Study of residual aberration for non-imaging focusing heliostat. <i>Solar Energy Materials and Solar Cells</i> , 2003, 79, 1-20.	6.2	41
14	Design and construction of active daylighting system using two-stage non-imaging solar concentrator. <i>Applied Energy</i> , 2017, 207, 45-60.	10.1	41
15	Optical characterization of nonimaging dish concentrator for the application of dense-array concentrator photovoltaic system. <i>Applied Optics</i> , 2014, 53, 475.	1.8	39
16	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
17	Range of motion study for two different sun-tracking methods in the application of heliostat field. <i>Solar Energy</i> , 2011, 85, 1837-1850.	6.1	36
18	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

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19	Optical Characterization of Nonimaging Planar Concentrator for the Application in Concentrator Photovoltaic System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2010, 132, .	1.8	35
20	Investigating the Performance Improvement of a Photovoltaic System in a Tropical Climate using Water Cooling Method. <i>Energy Procedia</i> , 2019, 159, 78-83.	1.8	33
21	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
22	Cost-effective solar furnace system using fixed geometry Non-Imaging Focusing Heliostat and secondary parabolic concentrator. <i>Renewable Energy</i> , 2011, 36, 1595-1602.	8.9	28
23	Optical analysis for simplified astigmatic correction of non-imaging focusing heliostat. <i>Solar Energy</i> , 2010, 84, 1356-1365.	6.1	26
24	Comparison Study of Two Different Sun-Tracking Methods in Optical Efficiency of Heliostat Field. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-10.	2.5	26
25	Performance optimization of dense-array concentrator photovoltaic system considering effects of circumsolar radiation and slope error. <i>Optics Express</i> , 2015, 23, A841.	3.4	26
26	Study of automotive radiator cooling system for dense-array concentration photovoltaic system. <i>Solar Energy</i> , 2012, 86, 2632-2643.	6.1	25
27	Influence of self-weight on electrical power conversion of dense-array concentrator photovoltaic system. <i>Renewable Energy</i> , 2016, 87, 445-457.	8.9	20
28	Industrial design and implementation of a large-scale dual-axis sun tracker with a vertical-axis-rotating-platform and multiple-row-elevation structures. <i>Solar Energy</i> , 2020, 199, 596-616.	6.1	20
29	Optimization of nonimaging focusing heliostat in dynamic correction of astigmatism for a wide range of incident angles. <i>Optics Letters</i> , 2010, 35, 1614.	3.3	19
30	Comprehensive method for analyzing the power conversion efficiency of organic solar cells under different spectral irradiances considering both photonic and electrical characteristics. <i>Applied Energy</i> , 2016, 180, 516-523.	10.1	18
31	A Systematic Method of Interconnection Optimization for Dense-Array Concentrator Photovoltaic System. <i>Scientific World Journal, The</i> , 2013, 2013, 1-11.	2.1	17
32	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
33	High Acceptance Angle Optical Fiber Based Daylighting System Using Two-stage Reflective Non-imaging Dish Concentrator. <i>Energy Procedia</i> , 2017, 105, 498-504.	1.8	14
34	Latitude-orientated mode of non-imaging focusing heliostat using spinning-elevation tracking method. <i>Solar Energy</i> , 2016, 135, 253-264.	6.1	13
35	Dense-array concentrator photovoltaic system using non-imaging dish concentrator and crossed compound parabolic concentrator. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	12
36	Mathematical modelling, performance evaluation and exergy analysis of a hybrid photovoltaic/thermal-solar thermoelectric system integrated with compound parabolic concentrator and parabolic trough concentrator. <i>Applied Energy</i> , 2022, 320, 119294.	10.1	12

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37	General Formula for On-Axis Sun-Tracking System. , 0, , .		11
38	Review of Active and Passive Daylighting Technologies for Sustainable Building. International Journal of Photoenergy, 2021, 2021, 1-27.	2.5	11
39	Novel Optical Scanner Using Photodiodes Array for Two-Dimensional Measurement of Light Flux Distribution. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2918-2925.	4.7	10
40	Rectifying structural deflection effect of large solar concentrator via correction of sun-tracking angle in the concentrator photovoltaic system. Solar Energy, 2017, 148, 140-148.	6.1	10
41	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
42	Performance analyses of various commercial photovoltaic modules based on local spectral irradiances in Malaysia using genetic algorithm. Energy, 2021, 223, 120009.	8.8	10
43	Optical characterization of two-stage non-imaging solar concentrator for active daylighting system. Solar Energy, 2019, 185, 24-33.	6.1	9
44	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
45	Solar flux distribution study of non-imaging dish concentrator using linear array of triple-junction solar cells scanning technique. Solar Energy, 2016, 125, 86-98.	6.1	7
46	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
47	Numerical analysis with experimental verification to predict outdoor power conversion efficiency of inverted organic solar devices. Renewable Energy, 2019, 135, 589-596.	8.9	7
48	Optimization study of solar farm layout for concentrator photovoltaic system on azimuth-elevation sun-tracker. Solar Energy, 2020, 204, 726-737.	6.1	7
49	Facile synthesis of zwitterionic surfactant-assisted molybdenum oxide/reduced graphene oxide nanocomposite with enhanced photocatalytic and antimicrobial activities. Journal of the Chinese Chemical Society, 2022, 69, 269-279.	1.4	7
50	Open-loop azimuth-elevation sun-tracking system using on-axis general sun-tracking formula for achieving tracking accuracy of below 1 mrad. , 2010, , .		6
51	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
52	Study of image quality of mirror via solar flux distribution measurement using a high speed optical scanner. Applied Optics, 2011, 50, 4927.	2.1	5
53	Temperature effects on the performance of dense array concentrator photovoltaic system. , 2012, , .		5
54	Design optimization of ultra-high concentrator photovoltaic system using two-stage non-imaging solar concentrator. IOP Conference Series: Earth and Environmental Science, 2017, 93, 012012.	0.3	5

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55	Simplification of heat transfer modelling for 3-D open cell copper foam by using single-direction aligned cylinder-bank geometry. Applied Thermal Engineering, 2016, 107, 1192-1200.	6.0	4
56	Design and Construction of Prototype Mobile Sun-Tracking System for Concentrator Photovoltaic System. Energy Procedia, 2017, 142, 736-742.	1.8	4
57	Solar flux distribution analysis of Non-Imaging Planar Concentrator for the application in concentrator photovoltaic system. , 2010, , .		3
58	Sun-tracking Method for Correcting Self-weight Induced Optical Misalignment in Dense-array Concentrator Photovoltaic System. Energy Procedia, 2017, 105, 155-161.	1.8	3
59	Synergy study on charge transport dynamics in hybrid organic solar cell: Photocurrent mapping and performance analysis under local spectrum. Current Applied Physics, 2018, 18, 1564-1570.	2.4	3
60	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
61	A study on cooling of concentrator photovoltaic cells using CFD. , 2012, , .		2
62	Optimizing performance of dense-array concentrator photovoltaic system. , 2013, , .		2
63	Rectangular Glass Optical Fiber for Transmitting Sunlight in a Hybrid Concentrator Photovoltaic and Daylighting System. International Journal of Photoenergy, 2020, 2020, 1-15.	2.5	2
64	Optical performance of a hybrid compound parabolic concentrator and parabolic trough concentrator system for dual concentration. Sustainable Energy Technologies and Assessments, 2021, 47, 101538.	2.7	2
65	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
66	Digitalized Mirror Array and Its Application in Large Telescope: Principle and Case Studies. Communications in Theoretical Physics, 2009, 52, 750-760.	2.5	1
67	A generic sun-tracking algorithm for on-axis solar collector in mobile platforms. AIP Conference Proceedings, 2015, , .	0.4	1
68	Feasibility study of tuned liquid column damper for ocean wave energy extraction. AIP Conference Proceedings, 2017, , .	0.4	1
69	A novel anti-theft security system for photovoltaic modules. AIP Conference Proceedings, 2017, , .	0.4	1
70	Stand-alone Solar Photovoltaic System and Its Application in Mist Cooling of Vehicle. , 2019, , .		1
71	Comprehensive analysis on the assembly of a dielectric-filled crossed compound parabolic concentrator and a concentrator photovoltaic module. Applied Optics, 2020, 59, 4557.	1.8	1
72	Solar powered a wearable Electrocardiography (ECG) device with battery storage. IOP Conference Series: Earth and Environmental Science, 2021, 945, 012048.	0.3	1

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73	Performance of gamma type low temperature differential Stirling Engine powered by steam. , 2010, , .		0
74	Optical characterization of solar furnace system using fixed geometry nonimaging focusing heliostat and secondary parabolic concentrator. Proceedings of SPIE, 2011, , .	0.8	0
75	Optical characterization of nonimaging focusing heliostat. Proceedings of SPIE, 2011, , .	0.8	0
76	Non-Imaging Focusing Technology for the Application in Concentrator Photovoltaic System. Advances in Robotics & Automation, 2012, 01, .	0.2	0
77	An interconnection reconfiguration method for concentrator photovoltaic array. , 2013, , .		0
78	New computational code for two tracking methods to analyze shadowing and blocking efficiencies of heliostat field. , 2014, , .		0
79	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
80	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
81	Comprehensive analysis of active and passive daylighting towards power savings in an office room. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012084.	0.3	0
82	Theoretical Analysis of Hybrid Dense-Array Concentrator Photovoltaic and Stirling Engine System. Energy Procedia, 2019, 158, 284-290.	1.8	0
83	Flux Distribution Analysis of Non-Imaging Planar Concentrator Considering Effects of Circumsolar Radiation and Mirror Slope Error. , 2014, , .		0
84	Analytical Model of Non-Imaging Planar Concentrator for the Application in Dense-Array Concentrator Photovoltaic System. Academic Platform Journal of Engineering and Science, 2014, 2, 55-61.	0.6	0