

# Kok Keong Chong

## List of Publications by Year in descending order

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84  
papers

1,717  
citations

236612

25  
h-index

301761

39  
g-index

86  
all docs

86  
docs citations

86  
times ranked

992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of zwitterionic surfactant-assisted molybdenum oxide/reduced graphene oxide nanocomposite with enhanced photocatalytic and antimicrobial activities. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 269-279.	0.8	7
2	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.	5.1	12
3	Performance analyses of various commercial photovoltaic modules based on local spectral irradiances in Malaysia using genetic algorithm. <i>Energy</i> , 2021, 223, 120009.	4.5	10
4	Optical performance of a hybrid compound parabolic concentrator and parabolic trough concentrator system for dual concentration. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101538.	1.7	2
5	Review of Active and Passive Daylighting Technologies for Sustainable Building. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-27.	1.4	11
6	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.	1.4	2
7	Solar powered a wearable Electrocardiography (ECG) device with battery storage. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 945, 012048.	0.2	1
8	Rectangular Glass Optical Fiber for Transmitting Sunlight in a Hybrid Concentrator Photovoltaic and Daylighting System. <i>International Journal of Photoenergy</i> , 2020, 2020, 1-15.	1.4	2
9	A review on various configurations of hybrid concentrator photovoltaic and thermoelectric generator system. <i>Solar Energy</i> , 2020, 201, 122-148.	2.9	91
10	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.	2.9	20
11	Optimization study of solar farm layout for concentrator photovoltaic system on azimuth-elevation sun-tracker. <i>Solar Energy</i> , 2020, 204, 726-737.	2.9	7
12	Comprehensive analysis on the assembly of a dielectric-filled crossed compound parabolic concentrator and a concentrator photovoltaic module. <i>Applied Optics</i> , 2020, 59, 4557.	0.9	1
13	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.	0.2	3
14	Performance Improvement Optimisation of a Photovoltaic System located at the Tropical Climate using Water-Film Cooling Method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012033.	0.2	0
15	Space optimization of concentrator photovoltaic systems based on levelized cost of electricity in solar power plant. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012047.	0.2	0
16	Comprehensive analysis of active and passive daylighting towards power savings in an office room. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012084.	0.2	0
17	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
18	Theoretical Analysis of Hybrid Dense-Array Concentrator Photovoltaic and Stirling Engine System. <i>Energy Procedia</i> , 2019, 158, 284-290.	1.8	0

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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	Optical characterization of two-stage non-imaging solar concentrator for active daylighting system. <i>Solar Energy</i> , 2019, 185, 24-33.	2.9	9
21	Stand-alone Solar Photovoltaic System and Its Application in Mist Cooling of Vehicle. , 2019, , .		1
22	Numerical analysis with experimental verification to predict outdoor power conversion efficiency of inverted organic solar devices. <i>Renewable Energy</i> , 2019, 135, 589-596.	4.3	7
23	Photoluminescence emission behavior on the reduced band gap of Fe doping in CeO <sub>2</sub> -SiO <sub>2</sub> nanocomposite and photophysical properties. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 561-575.	2.4	57
24	Synergy study on charge transport dynamics in hybrid organic solar cell: Photocurrent mapping and performance analysis under local spectrum. <i>Current Applied Physics</i> , 2018, 18, 1564-1570.	1.1	3
25	Feasibility study of tuned liquid column damper for ocean wave energy extraction. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
26	Prototype of Dense-array Concentrator Photovoltaic System Using Non-imaging Dish Concentrators and Cross Compound Parabolic Concentrator. <i>Energy Procedia</i> , 2017, 105, 131-136.	1.8	8
27	Design and construction of active daylighting system using two-stage non-imaging solar concentrator. <i>Applied Energy</i> , 2017, 207, 45-60.	5.1	41
28	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
29	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.	2.9	47
30	Rectifying structural deflection effect of large solar concentrator via correction of sun-tracking angle in the concentrator photovoltaic system. <i>Solar Energy</i> , 2017, 148, 140-148.	2.9	10
31	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.	5.1	31
32	Performance improvement of dye-sensitized solar cell by introducing Sm <sup>3+</sup> /Y <sup>3+</sup> co-doped TiO <sub>2</sub> film as an efficient blocking layer. <i>Thin Solid Films</i> , 2017, 631, 141-146.	0.8	10
33	Sun-tracking Method for Correcting Self-weight Induced Optical Misalignment in Dense-array Concentrator Photovoltaic System. <i>Energy Procedia</i> , 2017, 105, 155-161.	1.8	3
34	A novel anti-theft security system for photovoltaic modules. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
35	Design and Construction of Prototype Mobile Sun-Tracking System for Concentrator Photovoltaic System. <i>Energy Procedia</i> , 2017, 142, 736-742.	1.8	4
36	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.	0.2	5

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37	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.	3.0	4
38	Comprehensive method for analyzing the power conversion efficiency of organic solar cells under different spectral irradiances considering both photonic and electrical characteristics. Applied Energy, 2016, 180, 516-523.	5.1	18
39	Sol-hydrothermal synthesis of TiO <sub>2</sub> :Sm <sup>3+</sup> nanoparticles and their enhanced photovoltaic properties. Journal of Alloys and Compounds, 2016, 686, 803-809.	2.8	15
40	Latitude-orientated mode of non-imaging focusing heliostat using spinning-elevation tracking method. Solar Energy, 2016, 135, 253-264.	2.9	13
41	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.	2.9	7
42	Influence of self-weight on electrical power conversion of dense-array concentrator photovoltaic system. Renewable Energy, 2016, 87, 445-457.	4.3	20
43	A generic sun-tracking algorithm for on-axis solar collector in mobile platforms. AIP Conference Proceedings, 2015, , .	0.3	1
44	Dense-array concentrator photovoltaic system using non-imaging dish concentrator and crossed compound parabolic concentrator. AIP Conference Proceedings, 2015, , .	0.3	12
45	Performance optimization of dense-array concentrator photovoltaic system considering effects of circumsolar radiation and slope error. Optics Express, 2015, 23, A841.	1.7	26
46	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.	2.9	38
47	Optical characterization of nonimaging dish concentrator for the application of dense-array concentrator photovoltaic system. Applied Optics, 2014, 53, 475.	0.9	39
48	New computational code for two tracking methods to analyze shadowing and blocking efficiencies of heliostat field. , 2014, , .		0
49	A comprehensive study of dense-array concentrator photovoltaic system using non-imaging planar concentrator. Renewable Energy, 2014, 62, 542-555.	4.3	47
50	Flux Distribution Analysis of Non-Imaging Planar Concentrator Considering Effects of Circumsolar Radiation and Mirror Slope Error. , 2014, , .		0
51	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.	0.5	0
52	Design and development in optics of concentrator photovoltaic system. Renewable and Sustainable Energy Reviews, 2013, 19, 598-612.	8.2	72
53	An interconnection reconfiguration method for concentrator photovoltaic array. , 2013, , .		0
54	Optimizing performance of dense-array concentrator photovoltaic system. , 2013, , .		2

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55	A Systematic Method of Interconnection Optimization for Dense-Array Concentrator Photovoltaic System. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	17
56	Comparison Study of Two Different Sun-Tracking Methods in Optical Efficiency of Heliostat Field. International Journal of Photoenergy, 2012, 2012, 1-10.	1.4	26
57	Temperature effects on the performance of dense array concentrator photovoltaic system. , 2012, , .		5
58	Study of automotive radiator cooling system for dense-array concentration photovoltaic system. Solar Energy, 2012, 86, 2632-2643.	2.9	25
59	A study on cooling of concentrator photovoltaic cells using CFD. , 2012, , .		2
60	Non-Imaging Focusing Technology for the Application in Concentrator Photovoltaic System. Advances in Robotics & Automation, 2012, 01, .	0.2	0
61	Study of a solar water heater using stationary V-trough collector. Renewable Energy, 2012, 39, 207-215.	4.3	76
62	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
63	Optical characterization of solar furnace system using fixed geometry nonimaging focusing heliostat and secondary parabolic concentrator. Proceedings of SPIE, 2011, , .	0.8	0
64	Optical characterization of nonimaging focusing heliostat. Proceedings of SPIE, 2011, , .	0.8	0
65	Novel Optical Scanner Using Photodiodes Array for Two-Dimensional Measurement of Light Flux Distribution. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2918-2925.	2.4	10
66	Cost-effective solar furnace system using fixed geometry Non-Imaging Focusing Heliostat and secondary parabolic concentrator. Renewable Energy, 2011, 36, 1595-1602.	4.3	28
67	Range of motion study for two different sun-tracking methods in the application of heliostat field. Solar Energy, 2011, 85, 1837-1850.	2.9	36
68	Optical analysis for simplified astigmatic correction of non-imaging focusing heliostat. Solar Energy, 2010, 84, 1356-1365.	2.9	26
69	Optical Characterization of Nonimaging Planar Concentrator for the Application in Concentrator Photovoltaic System. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.1	35
70	Open-loop azimuth-elevation sun-tracking system using on-axis general sun-tracking formula for achieving tracking accuracy of below 1 mrad. , 2010, , .		6
71	Optimization of nonimaging focusing heliostat in dynamic correction of astigmatism for a wide range of incident angles. Optics Letters, 2010, 35, 1614.	1.7	19
72	Solar flux distribution analysis of Non-Imaging Planar Concentrator for the application in concentrator photovoltaic system. , 2010, , .		3

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73	Performance of gamma type low temperature differential Stirling Engine powered by steam. , 2010, , .		0
74	Integration of an On-Axis General Sun-Tracking Formula in the Algorithm of an Open-Loop Sun-Tracking System. Sensors, 2009, 9, 7849-7865.	2.1	61
75	Digitalized Mirror Array and Its Application in Large Telescope: Principle and Case Studies. Communications in Theoretical Physics, 2009, 52, 750-760.	1.1	1
76	General formula for on-axis sun-tracking system and its application in improving tracking accuracy of solar collector. Solar Energy, 2009, 83, 298-305.	2.9	170
77	Design and construction of non-imaging planar concentrator for concentrator photovoltaic system. Renewable Energy, 2009, 34, 1364-1370.	4.3	75
78	Report on the second prototype of non-imaging focusing heliostat and its application in food processing. Solar Energy, 2005, 79, 280-289.	2.9	35
79	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.	1.1	70
80	High precision (1 part in 104) reflectivity measurement for the study of reflective materials used in solar collectors. Solar Energy Materials and Solar Cells, 2003, 80, 305-314.	3.0	5
81	Study of residual aberration for non-imaging focusing heliostat. Solar Energy Materials and Solar Cells, 2003, 79, 1-20.	3.0	41
82	Report of the first prototype of non-imaging focusing heliostat and its application in high temperature solar furnace. Solar Energy, 2002, 72, 531-544.	2.9	61
83	Non-Imaging, Focusing Heliostat. Solar Energy, 2001, 71, 155-164.	2.9	93
84	General Formula for On-Axis Sun-Tracking System. , 0, , .		11