

Kok Keong Chong

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,717
citations

236612

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301761

39
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86
all docs

86
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. | 2.9 | 170 |
| 2 | Non-Imaging, Focusing Heliostat. <i>Solar Energy</i> , 2001, 71, 155-164. | 2.9 | 93 |
| 3 | A review on various configurations of hybrid concentrator photovoltaic and thermoelectric generator system. <i>Solar Energy</i> , 2020, 201, 122-148. | 2.9 | 91 |
| 4 | Study of a solar water heater using stationary V-trough collector. <i>Renewable Energy</i> , 2012, 39, 207-215. | 4.3 | 76 |
| 5 | Design and construction of non-imaging planar concentrator for concentrator photovoltaic system. <i>Renewable Energy</i> , 2009, 34, 1364-1370. | 4.3 | 75 |
| 6 | Design and development in optics of concentrator photovoltaic system. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 598-612. | 8.2 | 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. | 1.1 | 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. | 2.9 | 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. | 2.1 | 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. | 2.4 | 57 |
| 11 | A comprehensive study of dense-array concentrator photovoltaic system using non-imaging planar concentrator. <i>Renewable Energy</i> , 2014, 62, 542-555. | 4.3 | 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. | 2.9 | 47 |
| 13 | Study of residual aberration for non-imaging focusing heliostat. <i>Solar Energy Materials and Solar Cells</i> , 2003, 79, 1-20. | 3.0 | 41 |
| 14 | 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 |
| 15 | Optical characterization of nonimaging dish concentrator for the application of dense-array concentrator photovoltaic system. <i>Applied Optics</i> , 2014, 53, 475. | 0.9 | 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. | 2.9 | 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. | 2.9 | 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. | 2.9 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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, . | 1.1 | 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. | 5.1 | 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. | 4.3 | 28 |
| 23 | Optical analysis for simplified astigmatic correction of non-imaging focusing heliostat. <i>Solar Energy</i> , 2010, 84, 1356-1365. | 2.9 | 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. | 1.4 | 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. | 1.7 | 26 |
| 26 | Study of automotive radiator cooling system for dense-array concentration photovoltaic system. <i>Solar Energy</i> , 2012, 86, 2632-2643. | 2.9 | 25 |
| 27 | Influence of self-weight on electrical power conversion of dense-array concentrator photovoltaic system. <i>Renewable Energy</i> , 2016, 87, 445-457. | 4.3 | 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. | 2.9 | 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. | 1.7 | 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. | 5.1 | 18 |
| 31 | A Systematic Method of Interconnection Optimization for Dense-Array Concentrator Photovoltaic System. <i>Scientific World Journal, The</i> , 2013, 2013, 1-11. | 0.8 | 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. | 2.8 | 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. | 2.9 | 13 |
| 35 | Dense-array concentrator photovoltaic system using non-imaging dish concentrator and crossed compound parabolic concentrator. <i>AIP Conference Proceedings</i> , 2015, , . | 0.3 | 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. | 5.1 | 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. | 1.4 | 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. | 2.4 | 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. | 2.9 | 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. | 0.8 | 10 |
| 42 | Performance analyses of various commercial photovoltaic modules based on local spectral irradiances in Malaysia using genetic algorithm. Energy, 2021, 223, 120009. | 4.5 | 10 |
| 43 | Optical characterization of two-stage non-imaging solar concentrator for active daylighting system. Solar Energy, 2019, 185, 24-33. | 2.9 | 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. | 2.9 | 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. | 4.3 | 7 |
| 48 | Optimization study of solar farm layout for concentrator photovoltaic system on azimuth-elevation sun-tracker. Solar Energy, 2020, 204, 726-737. | 2.9 | 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. | 0.8 | 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. | 3.0 | 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. | 0.2 | 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. | 3.0 | 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. | 1.1 | 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. | 0.2 | 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. | 1.4 | 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. | 1.7 | 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. | 1.4 | 2 |
| 66 | Digitalized Mirror Array and Its Application in Large Telescope: Principle and Case Studies. Communications in Theoretical Physics, 2009, 52, 750-760. | 1.1 | 1 |
| 67 | A generic sun-tracking algorithm for on-axis solar collector in mobile platforms. AIP Conference Proceedings, 2015, , . | 0.3 | 1 |
| 68 | Feasibility study of tuned liquid column damper for ocean wave energy extraction. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 69 | A novel anti-theft security system for photovoltaic modules. AIP Conference Proceedings, 2017, , . | 0.3 | 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. | 0.9 | 1 |
| 72 | Solar powered a wearable Electrocardiography (ECG) device with battery storage. IOP Conference Series: Earth and Environmental Science, 2021, 945, 012048. | 0.2 | 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. | 0.2 | 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. | 0.2 | 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. | 0.2 | 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. | 0.5 | 0 |