

Katie Shanks

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

724
citations

623734

14
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	Optics for concentrating photovoltaics: Trends, limits and opportunities for materials and design. Renewable and Sustainable Energy Reviews, 2016, 60, 394-407.	16.4	220
2	A >3000 suns high concentrator photovoltaic design based on multiple Fresnel lens primaries focusing to one central solar cell. Solar Energy, 2018, 169, 457-467.	6.1	55
3	Analysis of the daylight performance of window integrated photovoltaics systems. Renewable Energy, 2020, 145, 153-163.	8.9	49
4	Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. Applied Thermal Engineering, 2021, 182, 115868.	6.0	40
5	Theoretical investigation considering manufacturing errors of a high concentrating photovoltaic of cassegrain design and its experimental validation. Solar Energy, 2016, 131, 235-245.	6.1	38
6	Advances and limitations of increasing solar irradiance for concentrating photovoltaics thermal system. Renewable and Sustainable Energy Reviews, 2021, 138, 110517.	16.4	37
7	White butterflies as solar photovoltaic concentrators. Scientific Reports, 2015, 5, 12267.	3.3	36
8	Temperature regulation of concentrating photovoltaic window using argon gas and polymer dispersed liquid crystal films. Renewable Energy, 2021, 164, 96-108.	8.9	36
9	Prototype fabrication and experimental investigation of a conjugate refractive reflective homogeniser in a cassegrain concentrator. Solar Energy, 2017, 142, 97-108.	6.1	27
10	Theoretical Investigation of the Temperature Limits of an Actively Cooled High Concentration Photovoltaic System. Energies, 2020, 13, 1902.	3.1	27
11	Indoor and outdoor characterization of concentrating photovoltaic attached to multi-layered microchannel heat sink. Solar Energy, 2020, 202, 55-72.	6.1	23
12	Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system. Applied Thermal Engineering, 2021, 199, 117528.	6.0	19
13	Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system. Materials Letters, 2020, 277, 128332.	2.6	15
14	Graphene as a pre-illumination cooling approach for a concentrator photovoltaic (CPV) system. Solar Energy Materials and Solar Cells, 2021, 222, 110922.	6.2	15
15	High-Concentration Optics for Photovoltaic Applications. Green Energy and Technology, 2015, , 85-113.	0.6	10
16	An experimental analysis of the optical, thermal and power to weight performance of plastic and glass optics with AR coatings for embedded CPV windows. Solar Energy Materials and Solar Cells, 2019, 200, 110027.	6.2	9
17	Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application. Materials Letters, 2020, 275, 128145.	2.6	9
18	Modelling technique and analysis of porous anti-reflective coatings for reducing wide angle reflectance of thin-film solar cells. Journal of Optics (United Kingdom), 2021, 23, 025901.	2.2	9

#	ARTICLE	IF	CITATIONS
19	Comprehensive analysis of electrical-optical performance and application potential for 3D concentrating photovoltaic window. <i>Renewable Energy</i> , 2022, 189, 369-382.	8.9	9
20	Conjugate refractive-reflective homogeniser in a 500Å— Cassegrain concentrator: design and limits. <i>IET Renewable Power Generation</i> , 2016, 10, 440-447.	3.1	8
21	Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV). <i>Solar Energy</i> , 2021, 227, 321-333.	6.1	8
22	A winged solar biomass reactor for producing 5-hydroxymethylfurfural (5-HMF). <i>Solar Energy</i> , 2021, 218, 455-468.	6.1	7
23	The design of a parabolic reflector system with high tracking tolerance for high solar concentration. , 2014, , .		5
24	Optical Modelling and Phylogenetic Analysis Provide Clues to the Likely Function of Corneal Nipple Arrays in Butterflies and Moths. <i>Insects</i> , 2019, 10, 262.	2.2	5
25	Thin photovoltaic modules at ultra high concentration. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	4
26	Evaluation of concentrating photovoltaic performance under different homogeniser materials. <i>Materials Letters</i> , 2019, 241, 219-222.	2.6	4
27	Reliability investigation for a built ultrahigh concentrator prototype. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
28	Prototype optical modelling procedure and outdoor characterization of an embedded polyolefin crossed compound parabolic concentrator for integrated photovoltaic windows. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0