

# 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	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
2	Advances and limitations of increasing solar irradiance for concentrating photovoltaics thermal system. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110517.	16.4	37
3	Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. <i>Applied Thermal Engineering</i> , 2021, 182, 115868.	6.0	40
4	Temperature regulation of concentrating photovoltaic window using argon gas and polymer dispersed liquid crystal films. <i>Renewable Energy</i> , 2021, 164, 96-108.	8.9	36
5	Graphene as a pre-illumination cooling approach for a concentrator photovoltaic (CPV) system. <i>Solar Energy Materials and Solar Cells</i> , 2021, 222, 110922.	6.2	15
6	Modelling technique and analysis of porous anti-reflective coatings for reducing wide angle reflectance of thin-film solar cells. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 025901.	2.2	9
7	A winged solar biomass reactor for producing 5-hydroxymethylfurfural (5-HMF). <i>Solar Energy</i> , 2021, 218, 455-468.	6.1	7
8	Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV). <i>Solar Energy</i> , 2021, 227, 321-333.	6.1	8
9	Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system. <i>Applied Thermal Engineering</i> , 2021, 199, 117528.	6.0	19
10	Analysis of the daylight performance of window integrated photovoltaics systems. <i>Renewable Energy</i> , 2020, 145, 153-163.	8.9	49
11	Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system. <i>Materials Letters</i> , 2020, 277, 128332.	2.6	15
12	Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application. <i>Materials Letters</i> , 2020, 275, 128145.	2.6	9
13	Theoretical Investigation of the Temperature Limits of an Actively Cooled High Concentration Photovoltaic System. <i>Energies</i> , 2020, 13, 1902.	3.1	27
14	Indoor and outdoor characterization of concentrating photovoltaic attached to multi-layered microchannel heat sink. <i>Solar Energy</i> , 2020, 202, 55-72.	6.1	23
15	An experimental analysis of the optical, thermal and power to weight performance of plastic and glass optics with AR coatings for embedded CPV windows. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110027.	6.2	9
16	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
17	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
18	Evaluation of concentrating photovoltaic performance under different homogeniser materials. <i>Materials Letters</i> , 2019, 241, 219-222.	2.6	4

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19	A >3000 suns high concentrator photovoltaic design based on multiple Fresnel lens primaries focusing to one central solar cell. <i>Solar Energy</i> , 2018, 169, 457-467.	6.1	55
20	Prototype fabrication and experimental investigation of a conjugate refractive reflective homogeniser in a cassegrain concentrator. <i>Solar Energy</i> , 2017, 142, 97-108.	6.1	27
21	Reliability investigation for a built ultrahigh concentrator prototype. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
22	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
23	Theoretical investigation considering manufacturing errors of a high concentrating photovoltaic of cassegrain design and its experimental validation. <i>Solar Energy</i> , 2016, 131, 235-245.	6.1	38
24	Optics for concentrating photovoltaics: Trends, limits and opportunities for materials and design. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 394-407.	16.4	220
25	Thin photovoltaic modules at ultra high concentration. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	4
26	White butterflies as solar photovoltaic concentrators. <i>Scientific Reports</i> , 2015, 5, 12267.	3.3	36
27	High-Concentration Optics for Photovoltaic Applications. <i>Green Energy and Technology</i> , 2015, , 85-113.	0.6	10
28	The design of a parabolic reflector system with high tracking tolerance for high solar concentration. , 2014, , .		5