

# Tapas Mallick

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186 papers	4,142 citations	37 h-index	53 g-index
192 ext. papers	5,406 ext. citations	6.3 avg, IF	6.6 L-index

#	Paper	IF	Citations
186	Thermal performance evaluation and energy saving potential of semi-transparent CdTe in Faade BIPV. <i>Solar Energy</i> , <b>2022</b> , 232, 84-91	6.8	3
185	Novel thermal conductivity enhancing containers for performance enhancement of solar photovoltaics system integrated with phase change material. <i>Energy</i> , <b>2022</b> , 243, 122923	7.9	1
184	Smart glazing thermal comfort improvement through near-infrared shielding paraffin incorporated SnO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> composite. <i>Construction and Building Materials</i> , <b>2022</b> , 331, 127319	6.7	1
183	Review of high concentration photovoltaic thermal hybrid systems for highly efficient energy cogeneration. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 163, 112512	16.2	0
182	Nanoparticles to Enhance Melting Performance of Phase Change Materials for Thermal Energy Storage. <i>Nanomaterials</i> , <b>2022</b> , 12, 1864	5.4	1
181	Cotton soot derived carbon nanoparticles for NiO supported processing temperature tuned ambient perovskite solar cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 23388	4.9	2
180	Optimization of a novel Hybrid Wind Bio Battery Solar Photovoltaic System Integrated with Phase Change Material. <i>Energies</i> , <b>2021</b> , 14, 6373	3.1	1
179	Experimental and numerical study on the effect of multiple phase change materials thermal energy storage system. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102226	7.8	11
178	Role of Hafnium Doping on Wetting Transition Tuning the Wettability Properties of ZnO and Doped Thin Films: Self-Cleaning Coating for Solar Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 25540-25552	9.5	9
177	Integrating Concentrated Optics for Ambient Perovskite Solar Cells. <i>Energies</i> , <b>2021</b> , 14, 2714	3.1	0
176	Performance Improvement of a CPV System: Experimental Investigation into Passive Cooling with Phase Change Materials. <i>Energies</i> , <b>2021</b> , 14, 3550	3.1	2
175	Investigation of Thermal Stress Arising in a Graphene Neutral Density Filter for Concentrated Photovoltaic System. <i>Energies</i> , <b>2021</b> , 14, 3515	3.1	1
174	State-of-the-Art Review on the Energy Performance of Semi-Transparent Building Integrated Photovoltaic across a Range of Different Climatic and Environmental Conditions. <i>Energies</i> , <b>2021</b> , 14, 3412	3.1	3
173	Three dimensional analysis of dye-sensitized, perovskite and monocrystalline silicon solar photovoltaic cells under non uniform solar flux. <i>Applied Thermal Engineering</i> , <b>2021</b> , 182, 115613	5.8	2
172	Advances and limitations of increasing solar irradiance for concentrating photovoltaics thermal system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 138, 110517	16.2	13
171	Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. <i>Applied Thermal Engineering</i> , <b>2021</b> , 182, 115868	5.8	17
170	Temperature regulation of concentrating photovoltaic window using argon gas and polymer dispersed liquid crystal films. <i>Renewable Energy</i> , <b>2021</b> , 164, 96-108	8.1	24

169	Graphene as a pre-illumination cooling approach for a concentrator photovoltaic (CPV) system. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 222, 110922	6.4	6
168	Efficient carbon counter electrodes for BaSnO <sub>3</sub> -based dye-sensitized solar cells. <i>Materials Today: Proceedings</i> , <b>2021</b> , 45, 3685-3691	1.4	
167	A Review on Heavy Metal Ions and Containing Dyes Removal Through Graphene Oxide-Based Adsorption Strategies for Textile Wastewater Treatment. <i>Chemical Record</i> , <b>2021</b> , 21, 1570-1610	6.6	59
166	Cu <sub>2</sub> ZnSnS <sub>4</sub> , a Fascinating Counter Electrode for TiO <sub>2</sub> -Free Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , <b>2021</b> , 6, 1541-1547	1.8	3
165	Experimental study on the comprehensive performance of building curtain wall integrated compound parabolic concentrating photovoltaic. <i>Energy</i> , <b>2021</b> , 227, 120507	7.9	0
164	Understanding the Semi-Switchable Thermochromic Behavior of Mixed Halide Hybrid Perovskite Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18058-18070	3.8	7
163	Effect of dye sensitization temperature on ZnO-based solar cells. <i>Chemical Physics Letters</i> , <b>2021</b> , 776, 138688	2.5	2
162	Model Based Generation Prediction of SPV Power Plant Due to Weather Stressed Soiling. <i>Energies</i> , <b>2021</b> , 14, 5305	3.1	1
161	In-situ assessment of photovoltaic soiling mitigation techniques in northern Nigeria. <i>Energy Conversion and Management</i> , <b>2021</b> , 244, 114442	10.6	5
160	Experimental Investigations for Dust build-up on Low-Iron Glass exterior and its effects on the performance of Solar PV systems. <i>Energy</i> , <b>2021</b> , 122213	7.9	6
159	Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system. <i>Applied Thermal Engineering</i> , <b>2021</b> , 199, 117528	5.8	1
158	Simulation study for a switchable adaptive polymer dispersed liquid crystal smart window for two climate zones (Riyadh and London). <i>Energy and Buildings</i> , <b>2021</b> , 251, 111381	7	7
157	Soiling on PV performance influenced by weather parameters in Northern Nigeria. <i>Renewable Energy</i> , <b>2021</b> , 180, 874-892	8.1	5
156	The emergence of concentrator photovoltaics for perovskite solar cells. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041324	17.3	2
155	Application of MSVPC- 5G Multicast SDN Network Eminence Video Transmission in Drone Thermal Imaging for Solar Farm Monitoring. <i>Energies</i> , <b>2021</b> , 14, 8255	3.1	1
154	Incorporating Solution-Processed Mesoporous WO as an Interfacial Cathode Buffer Layer for Photovoltaic Applications. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 5709-5719	2.8	17
153	Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application. <i>Materials Letters</i> , <b>2020</b> , 275, 128145	3.3	6
152	Single Parameter Exponential Time Series Smoothing to Dampen Wind Power Irregularities in Grid-Integrated Doubly Fed Induction Generator <b>2020</b> ,		1

151	Solar Photovoltaic Panels with Finned Phase Change Material Heat Sinks. <i>Energies</i> , <b>2020</b> , 13, 2558	3.1	5
150	Experimental investigation of solar photovoltaic panel integrated with phase change material and multiple conductivity-enhancing-containers. <i>Energy</i> , <b>2020</b> , 205, 118047	7.9	13
149	Highly conductive double perovskite oxides A <sub>2</sub> LuTaO <sub>6</sub> (A = Ba, Sr, Ca) as promising photoanode material for dye sensitized solar cells. <i>Materials Letters</i> , <b>2020</b> , 276, 128220	3.3	9
148	Impact of different light induced effect on organic hole-transporting layer in perovskite solar cells. <i>Materials Letters</i> , <b>2020</b> , 268, 127568	3.3	9
147	Design and analysis of dense array CPV receiver for square parabolic dish system with CPC array as secondary concentrator. <i>Solar Energy</i> , <b>2020</b> , 199, 782-795	6.8	16
146	Modelling photovoltaic soiling losses through optical characterization. <i>Scientific Reports</i> , <b>2020</b> , 10, 58	4.9	38
145	Dust and PV Performance in Nigeria: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 121, 109704	16.2	45
144	Theoretical Investigation of the Temperature Limits of an Actively Cooled High Concentration Photovoltaic System. <i>Energies</i> , <b>2020</b> , 13, 1902	3.1	11
143	Synergistic effect of nanoflower-like CdS for removal of highly toxic aqueous Cr(VI). <i>Materials Letters</i> , <b>2020</b> , 270, 127734	3.3	9
142	An analytical indoor experimental study on the effect of soiling on PV, focusing on dust properties and PV surface material. <i>Solar Energy</i> , <b>2020</b> , 203, 46-68	6.8	48
141	Symmetric and asymmetric freeform lens to produce uniform illumination. <i>Optical Engineering</i> , <b>2020</b> , 59, 1	1.1	0
140	Realization of Poly(methyl methacrylate)-Encapsulated Solution-Processed Carbon-Based Solar Cells: An Emerging Candidate for Buildings' Comfort. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11063-11071	3.9	33
139	Performance assessment of cadmium telluride-based semi-transparent glazing for power saving in façade buildings. <i>Energy and Buildings</i> , <b>2020</b> , 215, 109585	7	30
138	Hydrophilic and Superhydrophilic Self-Cleaning Coatings by Morphologically Varying ZnO Microstructures for Photovoltaic and Glazing Applications. <i>ACS Omega</i> , <b>2020</b> , 5, 1033-1039	3.9	46
137	Increasing efficiency of perovskite solar cells using low concentrating photovoltaic systems. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 528-537	5.8	36
136	Performance of WO-Incorporated Carbon Electrodes for Ambient Mesoscopic Perovskite Solar Cells. <i>ACS Omega</i> , <b>2020</b> , 5, 422-429	3.9	28
135	Thermal performance of semitransparent CdTe BIPV window at temperate climate. <i>Solar Energy</i> , <b>2020</b> , 195, 536-543	6.8	49
134	Power improvement of finned solar photovoltaic phase change material system. <i>Energy</i> , <b>2020</b> , 193, 116735	7.35	13

133	Evaluation of thermal performance for a smart switchable adaptive polymer dispersed liquid crystal (PDLC) glazing. <i>Solar Energy</i> , <b>2020</b> , 195, 185-193	6.8	58
132	Perceiving the temperature coefficients of carbon-based perovskite solar cells. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 6283-6298	5.8	19
131	Study of COVID-19 pandemic in London (UK) from urban context. <i>Cities</i> , <b>2020</b> , 106, 102928	5.6	29
130	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> , <b>2020</b> , 277, 128332	3.3	7
129	Perovskite Solar Cells for BIPV Application: A Review. <i>Buildings</i> , <b>2020</b> , 10, 129	3.2	22
128	A poly(styrene-co-acrylonitrile) gel electrolyte for dye-sensitized solar cells with improved photoelectrochemical performance. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 20212-20221	3.6	1
127	Emplacement of screen-printed graphene oxide coating for building thermal comfort discernment. <i>Scientific Reports</i> , <b>2020</b> , 10, 15578	4.9	7
126	Photoelectrochemical Water Splitting Using a Concentrated Solar Flux-Assisted LaFeO <sub>3</sub> Photocathode. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9002-9009	6.1	1
125	Analysis of the daylight performance of window integrated photovoltaics systems. <i>Renewable Energy</i> , <b>2020</b> , 145, 153-163	8.1	23
124	Ultralight three-dimensional, carbon-based nanocomposites for thermal energy storage. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 36, 70-78	9.1	15
123	Carbon counter electrode mesoscopic ambient processed & characterised perovskite for adaptive BIPV fenestration. <i>Renewable Energy</i> , <b>2020</b> , 145, 2151-2158	8.1	28
122	Estimation of the performance limits of a concentrator solar cell coupled with a micro heat sink based on a finite element simulation. <i>Applied Thermal Engineering</i> , <b>2020</b> , 176, 115315	5.8	14
121	Indoor and outdoor characterization of concentrating photovoltaic attached to multi-layered microchannel heat sink. <i>Solar Energy</i> , <b>2020</b> , 202, 55-72	6.8	15
120	Numerical studies of thermal comfort for semi-transparent building integrated photovoltaic (BIPV)-vacuum glazing system. <i>Solar Energy</i> , <b>2019</b> , 190, 608-616	6.8	46
119	Evaluation of concentrating photovoltaic performance under different homogeniser materials. <i>Materials Letters</i> , <b>2019</b> , 241, 219-222	3.3	3
118	Enhanced Efficiency of Carbon-Based Mesoscopic Perovskite Solar Cells through a Tungsten Oxide Nanoparticle Additive in the Carbon Electrode. <i>Scientific Reports</i> , <b>2019</b> , 9, 8778	4.9	23
117	Correlating photovoltaic soiling losses to waveband and single-value transmittance measurements. <i>Energy</i> , <b>2019</b> , 180, 376-386	7.9	24
116	Enhanced efficiency for building integrated concentrator photovoltaic modules based on rare earth doped optics. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 199, 83-90	6.4	12

115	An experimental and numerical study on the effect of inclination angle of phase change materials thermal energy storage system. <i>Journal of Energy Storage</i> , <b>2019</b> , 23, 57-68	7.8	46
114	Investigation of semi-transparent dye-sensitized solar cells for fenestration integration. <i>Renewable Energy</i> , <b>2019</b> , 141, 516-525	8.1	38
113	Colour properties and glazing factors evaluation of multicrystalline based semi-transparent Photovoltaic-vacuum glazing for BIPV application. <i>Renewable Energy</i> , <b>2019</b> , 131, 730-736	8.1	39
112	Improving spectral modification for applications in solar cells: A review. <i>Renewable Energy</i> , <b>2019</b> , 132, 186-205	8.1	115
111	Color Comfort Evaluation of Dye-Sensitized Solar Cell (DSSC) Based Building-Integrated Photovoltaic (BIPV) Glazing after 2 Years of Ambient Exposure. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23834-23837	3.8	41
110	Investigations on Performance Enhancement Measures of the Bidirectional Converter in PVWind Interconnected Microgrid System. <i>Energies</i> , <b>2019</b> , 12, 2672	3.1	19
109	Use of Nanofluids in Solar PV/Thermal Systems. <i>International Journal of Photoenergy</i> , <b>2019</b> , 2019, 1-17	2.1	40
108	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> , <b>2019</b> , 200, 110027	6.4	4
107	Fins integrated phase change material for solar photovoltaic for South East United Kingdom <b>2019</b> ,		2
106	Optical study of a cocktail structural Space-based Solar Power Station. <i>Solar Energy</i> , <b>2019</b> , 194, 156-166	6.8	4
105	Electrical enhancement period of solar photovoltaic using phase change material. <i>Journal of Cleaner Production</i> , <b>2019</b> , 221, 878-884	10.3	24
104	The Assembly of Embedded Systems for Integrated Photovoltaic windows in Rural Buildings (E-IPB). <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 556, 012040	0.4	
103	Photovoltaic Characteristics of Low Concentration CdTe Solar Cells. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 556, 012005	0.4	1
102	Plasmonic nickel nanoparticles decorated on to LaFeO <sub>3</sub> photocathode for enhanced solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 578-586	6.7	16
101	Evaluation of solar factor using spectral analysis for CdTe photovoltaic glazing. <i>Materials Letters</i> , <b>2019</b> , 237, 332-335	3.3	17
100	Soft-template synthesis of high surface area mesoporous titanium dioxide for dye-sensitized solar cells. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 523-534	4.5	25
99	Experimental and Numerical Thermal Analysis of Multi-Layered Microchannel Heat Sink for Concentrating Photovoltaic Application. <i>Energies</i> , <b>2019</b> , 12, 122	3.1	23
98	Optimization of fins fitted phase change material equipped solar photovoltaic under various working circumstances. <i>Energy Conversion and Management</i> , <b>2019</b> , 180, 1185-1195	10.6	28

97	Screening of effective electrolyte additives for zinc-based redox flow battery systems. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 44-54	8.9	31
96	Supervisory Control for Power Management of an Islanded AC Microgrid Using a Frequency Signalling-Based Fuzzy Logic Controller. <i>IEEE Transactions on Sustainable Energy</i> , <b>2019</b> , 10, 94-104	8.2	21
95	Control Strategy for Uninterrupted Microgrid Mode Transfer During Unintentional Islanding Scenarios. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 4831-4839	8.9	35
94	Electronic properties of $\text{TaON}$ and its surfaces for solar water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 24-31	21.8	39
93	Morphology tuned $\text{BaSnO}_3$ active layer for ambient perovskite solar cells. <i>Materials Letters</i> , <b>2018</b> , 219, 166-169	3.3	11
92	Conceptual design and performance evaluation of a hybrid concentrating photovoltaic system in preparation for energy. <i>Energy</i> , <b>2018</b> , 147, 547-560	7.9	18
91	Charge transfer mechanics in transparent dye-sensitized solar cells under low concentration. <i>Materials Letters</i> , <b>2018</b> , 222, 78-81	3.3	8
90	Optimization of solar photovoltaic system integrated with phase change material. <i>Solar Energy</i> , <b>2018</b> , 163, 591-599	6.8	69
89	The colour rendering index and correlated colour temperature of dye-sensitized solar cell for adaptive glazing application. <i>Solar Energy</i> , <b>2018</b> , 163, 537-544	6.8	49
88	A review on applications of $\text{Cu}_2\text{ZnSnS}_4$ as alternative counter electrodes in dye-sensitized solar cells. <i>AIP Advances</i> , <b>2018</b> , 8, 070701	1.5	12
87	Investigation of thermal and electrical performances of a combined semi-transparent PV-vacuum glazing. <i>Applied Energy</i> , <b>2018</b> , 228, 1591-1600	10.7	56
86	Multiple Phase Change Material (PCM) Configuration for PCM-Based Heat Sinks: An Experimental Study. <i>Energies</i> , <b>2018</b> , 11, 1629	3.1	39
85	Development, indoor characterisation and comparison to optical modelling of four Fresnel-based high-CPV units equipped with refractive secondary optics. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 186, 273-283	6.4	17
84	A >3000 suns high concentrator photovoltaic design based on multiple Fresnel lens primaries focusing to one central solar cell. <i>Solar Energy</i> , <b>2018</b> , 169, 457-467	6.8	34
83	Climatic behaviour of solar photovoltaic integrated with phase change material. <i>Energy Conversion and Management</i> , <b>2018</b> , 166, 590-601	10.6	45
82	Enhanced Photoactivity and Hydrogen Generation of $\text{LaFeO}_3$ Photocathode by Plasmonic Silver Nanoparticle Incorporation. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3449-3456	6.1	21
81	Influence of atmospheric clearness on PDLC switchable glazing transmission. <i>Energy and Buildings</i> , <b>2018</b> , 172, 257-264	7	31
80	Producing uniform illumination within a rectangular area by using a nonimaging optic. <i>Applied Optics</i> , <b>2018</b> , 57, 9357-9364	1.7	2



79	Daylight characteristics of a polymer dispersed liquid crystal switchable glazing. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 174, 572-576	6.4	37
78	Enhancing the efficiency of transparent dye-sensitized solar cells using concentrated light. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 175, 29-34	6.4	74
77	Structural and electronic properties of oxygen defective and Se-doped p-type BiVO <sub>4</sub> (001) thin film for the applications of photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 895-903	21.8	79
76	Electricity enhancement and thermal energy production from concentrated photovoltaic integrated with a 3-layered stacked micro-channel heat sink <b>2018</b> ,		4
75	Experimental and Theoretical Research on Bending Behavior of Photovoltaic Panels with a Special Boundary Condition. <i>Energies</i> , <b>2018</b> , 11, 3435	3.1	7
74	Integrated semi-transparent cadmium telluride photovoltaic glazing into windows: Energy and daylight performance for different architecture designs. <i>Applied Energy</i> , <b>2018</b> , 231, 972-984	10.7	48
73	Photovoltaic system integrated with phase change material for South west UK climate <b>2018</b> ,		4
72	Deformation of receiver in solar parabolic trough collector due to non uniform temperature and solar flux distribution and use of bimetallic absorber tube with multiple supports. <i>Energy</i> , <b>2018</b> , 165, 1078-1088	7.9	11
71	Effect of climate on electrical performance of finned phase change material integrated solar photovoltaic. <i>Solar Energy</i> , <b>2018</b> , 174, 593-605	6.8	25
70	Thermal stress in bimetallic receiver of solar parabolic trough concentrator induced due to non uniform temperature and solar flux distribution. <i>Solar Energy</i> , <b>2018</b> , 176, 301-311	6.8	9
69	Optimization of finned solar photovoltaic phase change material (finned pv pcm) system. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 130, 313-322	4.1	80
68	Conjugate refractive reflective based building integrated photovoltaic system. <i>Materials Letters</i> , <b>2018</b> , 228, 25-28	3.3	2
67	Experimental performance investigations of an elliptical hyperbolic non-imaging solar concentrator with trapezoidal surface receiver for process heat applications. <i>Journal of Cleaner Production</i> , <b>2018</b> , 192, 735-750	10.3	4
66	Modelling and experimental analysis of a seasonally tracked V-trough PV/T system in India. <i>Solar Energy</i> , <b>2018</b> , 170, 618-632	6.8	8
65	Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602328	21.8	48
64	Technological Development for Capturing Regeneration, Standardization, and Storage of Solar Energy: Current Status and Future Direction <b>2017</b> , 391-432		
63	Performance analysis of tilted photovoltaic system integrated with phase change material under varying operating conditions. <i>Energy</i> , <b>2017</b> , 133, 887-899	7.9	92
62	Prototype fabrication and experimental investigation of a conjugate refractive reflective homogeniser in a cassegrain concentrator. <i>Solar Energy</i> , <b>2017</b> , 142, 97-108	6.8	16



61	Donor-acceptor polymer for the design of All-Solid-State dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 914-922	5.7	27
60	Outdoor performance of a reflective type 3D LCPV system under different climatic conditions <b>2017</b> ,		1
59	Thermal Performance Analysis of Multi-Phase Change Material Layer-Integrated Building Roofs for Energy Efficiency in Built-Environment. <i>Energies</i> , <b>2017</b> , 10, 1367	3.1	28
58	Design and characterization of refractive secondary optical elements for a point-focus Fresnel lens-based high CPV system <b>2017</b> ,		1
57	Performance analysis of perovskite and dye-sensitized solar cells under varying operating conditions and comparison with monocrystalline silicon cell. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 559-565	5.8	22
56	Hydrogen-Rich Syngas from Jatropha curcas Shell Biomass Char in Fresnel Lens Solar Concentrator Assembly. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 8335-8347	4.1	2
55	Polypyrrole/TiO <sub>2</sub> composites for the application of photocatalysis. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 1161-1169	8.5	70
54	Thermal analysis of a multi-layer microchannel heat sink for cooling concentrator photovoltaic (CPV) cells <b>2017</b> ,		12
53	Performance Comparison of a Freeform Lens and a CDTIRO When Combined With an LED. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-8	1.8	5
52	Techno-Economic Investigation of Solar Powered Electric Auto-Rickshaw for a Sustainable Transport System. <i>Energies</i> , <b>2017</b> , 10, 754	3.1	7
51	Potential of Implementing the Low Concentration Photovoltaic Systems in the United Kingdom. <i>International Journal of Electrical and Computer Engineering</i> , <b>2017</b> , 7, 1398	1.4	4
50	Optical modeling of four Fresnel-based high-CPV units. <i>Solar Energy</i> , <b>2017</b> , 155, 805-815	6.8	29
49	Density Functional Theory Study of Selenium-Substituted Low-Bandgap Donor-Acceptor Donor Polymer. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27200-27211	3.8	16
48	Conjugate refractive-reflective homogeniser in a 500 $\times$ Cassegrain concentrator: design and limits. <i>IET Renewable Power Generation</i> , <b>2016</b> , 10, 440-447	2.9	5
47	DC microgrid power coordination based on fuzzy logic control <b>2016</b> ,		6
46	Ba <sub>6</sub> B <sub>x</sub> Nd <sub>8+2x</sub> Ti <sub>18</sub> O <sub>54</sub> Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 1894-1899	1.9	14
45	Theoretical investigation considering manufacturing errors of a high concentrating photovoltaic of cassegrain design and its experimental validation. <i>Solar Energy</i> , <b>2016</b> , 131, 235-245	6.8	28
44	Thermal effectiveness and mass usage of horizontal micro-fins under natural convection. <i>Applied Thermal Engineering</i> , <b>2016</b> , 97, 39-47	5.8	17

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28	Experimental comparison of micro-scaled plate-fins and pin-fins under natural convection. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 75, 59-66	5.8	29
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5	Opportunities and challenges in micro- and nano-technologies for concentrating photovoltaic cooling: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 20, 595-610	16.2	92
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