List of Publications by Year in descending order

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ARDAHAM KDIRUS

#	Article	IF	CITATIONS
1	Solar spectral beam splitting for photochemical conversion and polygeneration. Energy Conversion and Management, 2022, 258, 115525.	4.4	8
2	Thermochemically regenerative flow batteries for solar electricity generation and storage. , 2021, , 35-56.		0
3	Polyhydroxyalkanoates and biochar from green macroalgal Ulva sp. biomass subcritical hydrolysates: Process optimization and a priori economic and greenhouse emissions break-even analysis. Science of the Total Environment, 2021, 770, 145281.	3.9	8
4	â€~Dualâ€reference' method for highâ€precision infrared measurement of leaf surface temperature under field conditions. New Phytologist, 2021, 232, 2535-2546.	3.5	7
5	Hybrid solar-seaweed biorefinery for co-production of biochemicals, biofuels, electricity, and water: Thermodynamics, life cycle assessment, and cost-benefit analysis. Energy Conversion and Management, 2021, 246, 114679.	4.4	12
6	Mono-specific algal diets shape microbial networking in the gut of the sea urchin Tripneustes gratilla elatensis. Animal Microbiome, 2021, 3, 79.	1.5	7
7	Hydrothermal processing of a green seaweed Ulva sp. for the production of monosaccharides, polyhydroxyalkanoates, and hydrochar. Bioresource Technology, 2020, 318, 124263.	4.8	33
8	Biorefinery for the co-production of protein, hydrochar and additional co-products from a green seaweed Ulva sp. with subcritical water hydrolysis. Energy Conversion and Management, 2020, 225, 113380.	4.4	24
9	Carrier recombination dynamics in Ga0.51In0.49P double-heterostructures up to 500 K. Semiconductor Science and Technology, 2020, 35, 055001.	1.0	0
10	Large-Scale characterization of Two-Dimensional Monolayer MoS2 Island Domains Using Spectroscopic Ellipsometry and Reflectometry. Applied Surface Science, 2020, 524, 146418.	3.1	18
11	Algae Window for reducing energy consumption of building structures in the Mediterranean city of Tel-Aviv, Israel. Energy and Buildings, 2019, 204, 109460.	3.1	13
12	Co-production of Monosaccharides and Hydrochar from Green Macroalgae Ulva (Chlorophyta) sp. with Subcritical Hydrolysis and Carbonization. Bioenergy Research, 2019, 12, 1090-1103.	2.2	10
13	Method for accurate measurement of infrared emissivity for opaque low-reflectance materials. Applied Optics, 2019, 58, 4599.	0.9	13
14	A cooler for dense-array CPV receivers based on metal foam. Solar Energy, 2018, 160, 25-31.	2.9	11
15	Solar Thermionicâ€Thermoelectric Generator (ST ² G): Concept, Materials Engineering, and Prototype Demonstration. Advanced Energy Materials, 2018, 8, 1802310.	10.2	77
16	Thermo-electro-chemical storage (TECS) of solar energy. Applied Energy, 2017, 190, 788-799.	5.1	14
17	Dense Wire Mesh as a High-Efficiency Solar Volumetric Absorber. , 2017, , .		3
18	Highâ€Temperature Latentâ€Heat Energy Storage Concept Based on Thermoelectronic Energy Conversion. Energy Technology, 2017, 5, 2234-2243.	1.8	8

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19	Investigation of contact grid geometry for photon-enhanced thermionic emission (PETE) silicon based solar converters. Solar Energy, 2016, 133, 259-273.	2.9	10
20	Experimental study of ceramic foams used as high temperature volumetric solar absorber. Solar Energy, 2016, 136, 226-235.	2.9	81
21	Minority carrier recombination of ordered Ga0.51In0.49P at high temperatures. Applied Physics Letters, 2016, 109, 222106.	1.5	9
22	Solar energy conversion with photon-enhanced thermionic emission. Journal of Optics (United) Tj ETQq0 0 0 rgB1	- /Overlock 1.0	₹ 10 Tf 50 62
23	Annual energy and environment analysis of solarized steam injection gas turbine (STIG) cycle for Indian regions. Applied Thermal Engineering, 2016, 94, 679-696.	3.0	5
24	Radiative and Convective Transport in Solar Volumetric Absorbers. , 2016, , .		0
25	Preliminary characterization of ST2G: Solar thermionic-thermoelectric generator for concentrating systems. AIP Conference Proceedings, 2015, , .	0.3	21
26	Limit of efficiency for photon-enhanced thermionic emission vs. photovoltaic and thermal conversion. Solar Energy Materials and Solar Cells, 2015, 140, 464-476.	3.0	58
27	Exergy analysis and annual exergetic performance evaluation of solar hybrid STIG (steam injected gas) Tj ETQq1 1	0,784314 4.5	l rgBT /Overl
28	Performance of the solar hybrid STIG cycle with latent heat storage. Applied Energy, 2015, 155, 791-803.	5.1	13
29	An economic analysis of solar hybrid steam injected gas turbine (STIG) plant for Indian conditions. Applied Thermal Engineering, 2015, 75, 1055-1064.	3.0	21
30	PCM Storage System with Integrated Active Heat Pipe. Energy Procedia, 2014, 49, 1061-1070.	1.8	7
31	Annual Thermodynamic Analysis of Solar Power with Steam Injection Gas Turbine (STIG) Cycle for Indian Conditions. Energy Procedia, 2014, 57, 2920-2929.	1.8	7
32	Solar electricity with photon-enhanced thermionic emission (PETE). , 2014, , .		0
33	The promise and challenge of solar volumetric absorbers. Solar Energy, 2014, 110, 463-481.	2.9	115
34	Annual performance of the solar hybrid STIG cycle. Solar Energy, 2014, 107, 278-291.	2.9	9
35	Parametric Study of Volumetric Absorber Performance. Energy Procedia, 2014, 49, 408-417.	1.8	23
36	Optimization of High Temperature SiC Volumetric Solar Absorber. Energy Procedia, 2014, 49, 478-487.	1.8	33

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37	Operation strategies and performance of solar thermal power plants operating from PCM storage. Solar Energy, 2013, 95, 170-180.	2.9	24
38	Loss mechanisms and back surface field effect in photon enhanced thermionic emission converters. Journal of Applied Physics, 2013, 114, .	1.1	40
39	Performance of CPV modules based on vertical multi-junction cells under non-uniform illumination. Solar Energy, 2013, 88, 120-128.	2.9	35
40	Kaleidoscope homogenizers sensitivity to shading. Solar Energy, 2013, 88, 204-214.	2.9	18
41	High performance isothermal photo-thermionic solar converters. Solar Energy Materials and Solar Cells, 2013, 113, 114-123.	3.0	42
42	Performance of heat engines with non-zero heat capacity. Energy Conversion and Management, 2013, 65, 108-119.	4.4	3
43	Performance and Water Consumption of the Solar Steam-Injection Gas Turbine Cycle. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	8
44	Single bandgap solar converters unbounded by the Shockley Queisser limit. , 2013, , .		1
45	Wet-chemistry based selective coatings for concentrating solar power. , 2013, , .		1
46	Synergistic effect of heat and solar UV on DNA damage and water disinfection of E. coli and bacteriophage MS2. Journal of Water and Health, 2012, 10, 605-618.	1.1	19
47	Concentrating Solar Power in Europe, the Middle East and North Africa: A Review of Development Issues and Potential to 2050. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134,	1.1	41
48	Solar STIG Cycle Annual Analysis. , 2012, , .		4
49	Front-side interconnected large area concentrator cells for compact concentrator modules. AIP Conference Proceedings, 2012, , .	0.3	4
50	High performance photo-thermionic solar converters. , 2012, , .		0
51	Efficiency of photon enhanced thermionic emission solar converters. Solar Energy Materials and Solar Cells, 2012, 107, 125-130.	3.0	58
52	Vertical junction Si cells for concentrating photovoltaics. Progress in Photovoltaics: Research and Applications, 2012, 20, 197-208.	4.4	33
53	Solar hybrid steam injection gas turbine (STIC) cycle. Solar Energy, 2012, 86, 190-199.	2.9	60
54	Equivalent circuit models for triple-junction concentrator solar cells. Solar Energy Materials and Solar Cells, 2012, 98, 57-65.	3.0	106

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55	Vertical Junction Si Photovoltaic Cells for Concentrating PV. , 2010, , .		Ο
56	Analysis of a microscale â€~Saturation Phase-change Internal Carnot Engine'. Energy Conversion and Management, 2010, 51, 1202-1209.	4.4	14
57	Impact of the Thomson effect on concentrating photovoltaic cells. Solar Energy Materials and Solar Cells, 2010, 94, 1421-1425.	3.0	6
58	Water desalination with concentrating photovoltaic/thermal (CPVT) systems. Solar Energy, 2009, 83, 1322-1334.	2.9	120
59	PCM storage for solar DHW: An unfulfilled promise?. Solar Energy, 2008, 82, 861-869.	2.9	97
60	A Micro Heat Engine Executing an Internal Carnot Cycle. , 2008, , .		1
61	Potential of Polygeneration With Solar Thermal and Photovoltaic Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.1	34
62	Solar cooling with concentrating photovoltaic/thermal (CPVT) systems. Energy Conversion and Management, 2007, 48, 2481-2490.	4.4	244
63	A miniature concentrating photovoltaic and thermal system. Energy Conversion and Management, 2006, 47, 3582-3590.	4.4	171
64	Theoretical and Practical Progress of New Heliostat by Chen et al Communications in Theoretical Physics, 2006, 45, 163-164.	1.1	3
65	Cogeneration With Concentrating Photovoltaic Systems. , 2005, , 477.		4
66	A High Temperature Solar Particle Receiver. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 826-826.	1.1	2
67	Continuous Tracking of Heliostats. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 842-849.	1.1	6
68	Experimentally Determined Optical Properties of a Polydisperse Carbon Black Cloud for a Solar Particle Receiver. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 833-841.	1.1	19
69	Heat Transfer in Miniature Heat Engines. Heat Transfer Engineering, 2004, 25, 1-3.	1.2	3
70	Closed loop control of heliostats. Energy, 2004, 29, 905-913.	4.5	59
71	Experimental evaluation of a non-isothermal high temperature solar particle receiver. Energy, 2004, 29, 687-700.	4.5	120
72	Systematic errors in the measurement of emissivity caused by directional effects. Applied Optics, 2003, 42, 1839.	2.1	12

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73	Thermal Integral Micro-Generation Systems for Solar and Conventional Use. Journal of Solar Energy Engineering, Transactions of the ASME, 2002, 124, 189-197.	1.1	25
74	Optical In-Situ Assessment of a Nonimaging Secondary Concentrator in a Solar Tower. Journal of Solar Energy Engineering, Transactions of the ASME, 2002, 124, 223-229.	1.1	1
75	A high-efficiency triple cycle for solar power generation. Solar Energy, 2002, 72, 1-11.	2.9	38
76	LiMoNAED: a limited motion, non-shading, asymmetric, ecliptic-tracking dish. Solar Energy, 2002, 73, 337-344.	2.9	4
77	Effective Radiative Properties of a Cylinder Array. Journal of Heat Transfer, 2002, 124, 198-200.	1.2	8
78	Measurements of velocity fields in finite cylinder arrays with and without tip clearance. Experimental Thermal and Fluid Science, 2001, 24, 157-167.	1.5	5
79	Volumetric optical properties of fully anisotropic participating media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 69, 415-430.	1.1	3
80	Radiative Transport in Anisotropic Media. Lecture Notes in Physics, 2001, , 151-162.	0.3	0
81	Optical fibers and solar power generation. Solar Energy, 2000, 68, 405-416.	2.9	44
82	Performance of a rectangular secondary concentrator with an asymmetric heliostat field. Solar Energy, 2000, 69, 139-151.	2.9	15
83	Optimized secondary concentrators for a partitioned central receiver system. Solar Energy, 2000, 69, 153-162.	2.9	13
84	Faceted concentrators optimized for homogeneous radiation. Applied Optics, 2000, 39, 1152.	2.1	20
85	Optical assessment of nonimaging concentrators. Applied Optics, 2000, 39, 5679.	2.1	12
86	The Trof (Tower Reflector with Optical Fibers). , 2000, , 266-271.		0
87	A Multistage Solar Receiver. , 2000, , 258-265.		0
88	<title>Optimized CPC-type concentrators built of plane facets</title> . , 1999, , .		0
89	A Multistage Solar Receiver:. Solar Energy, 1999, 67, 3-11.	2.9	95
90	The TROF (tower reflector with optical fibers): a new degree of freedom for solar energy systems. Solar Energy, 1999, 67, 13-22.	2.9	15

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91	Non-axisymmetric reflectors concentrating radiation from an asymmetric heliostat field onto a circular absorber. Solar Energy, 1998, 63, 23-30.	2.9	12
92	A solar-driven combined cycle power plant. Solar Energy, 1998, 62, 121-129.	2.9	182
93	EXTENSION OF THE HERMITE EXPANSION METHOD FOR CASSEGRAINIAN SOLAR CENTRAL RECEIVER SYSTEMS. Solar Energy, 1998, 63, 337-343.	2.9	12
94	Solar ?tower reflector? systems: A new approach for high-temperature solar plants. International Journal of Hydrogen Energy, 1998, 23, 239-245.	3.8	107
95	Performance Limits of Heliostat Fields. Journal of Solar Energy Engineering, Transactions of the ASME, 1998, 120, 240-246.	1.1	18
96	<title>Toward large-scale solar energy systems with peak concentrations of 20,000 suns</title> . , 1997, , .		3
97	<title>Asymmetrical cone-type secondary concentrators for Fresnel-type reflectors in solar towers</title> . , 1997, 3139, 86.		0
98	Inherent Limitations of Volumetric Solar Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 1996, 118, 151-155.	1.1	77
99	Nonisothermal Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 1995, 117, 259-261.	1.1	37
100	Buoyancy-Induced Flow of a Tracer in Vertical Conduits. Water Resources Research, 1995, 31, 1167-1173.	1.7	11
101	Instability of strongly nonlinear waves in vortex flows. Journal of Fluid Mechanics, 1994, 269, 247-264.	1.4	12
102	Optical Performance of Conical Windows for Concentrated Solar Radiation. Journal of Solar Energy Engineering, Transactions of the ASME, 1994, 116, 47-52.	1.1	16
103	Large-amplitude wavetrains and solitary waves in vortices. Journal of Fluid Mechanics, 1990, 216, 459-504.	1.4	87

104 Concentrating solar thermal power. , 0, , 272-288.