

Evangelos Bellos

List of Publications by Year in descending order

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Version: 2024-02-01

187
papers

9,837
citations

24978

57
h-index

46693

89
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189
all docs

189
docs citations

189
times ranked

4089
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal enhancement of solar parabolic trough collectors by using nanofluids and converging-diverging absorber tube. <i>Renewable Energy</i> , 2016, 94, 213-222.	4.3	340
2	Alternative designs of parabolic trough solar collectors. <i>Progress in Energy and Combustion Science</i> , 2019, 71, 81-117.	15.8	246
3	A detailed working fluid investigation for solar parabolic trough collectors. <i>Applied Thermal Engineering</i> , 2017, 114, 374-386.	3.0	228
4	Enhancing the performance of parabolic trough collectors using nanofluids and turbulators. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 358-375.	8.2	217
5	Energetic and financial investigation of a stand-alone solar-thermal Organic Rankine Cycle power plant. <i>Energy Conversion and Management</i> , 2016, 126, 421-433.	4.4	195
6	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. <i>Physics Reports</i> , 2022, 946, 1-94.	10.3	179
7	Energetic and exergetic analysis of waste heat recovery systems in the cement industry. <i>Energy</i> , 2013, 58, 147-156.	4.5	176
8	The use of nanofluids in solar concentrating technologies: A comprehensive review. <i>Journal of Cleaner Production</i> , 2018, 196, 84-99.	4.6	167
9	Thermal and optical efficiency investigation of a parabolic trough collector. <i>Case Studies in Thermal Engineering</i> , 2015, 6, 226-237.	2.8	166
10	Recent advances on nanofluids for low to medium temperature solar collectors: energy, exergy, economic analysis and environmental impact. <i>Progress in Energy and Combustion Science</i> , 2021, 84, 100898.	15.8	166
11	A comprehensive review on minimum quantity lubrication (MQL) in machining processes using nano-cutting fluids. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2057-2086.	1.5	159
12	Energetic and financial evaluation of solar assisted heat pump space heating systems. <i>Energy Conversion and Management</i> , 2016, 120, 306-319.	4.4	154
13	A review of industrial waste heat recovery system for power generation with Organic Rankine Cycle: Recent challenges and future outlook. <i>Journal of Cleaner Production</i> , 2021, 287, 125070.	4.6	152
14	Exergetic, energetic and financial evaluation of a solar driven absorption cooling system with various collector types. <i>Applied Thermal Engineering</i> , 2016, 102, 749-759.	3.0	150
15	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <i>Nano Energy</i> , 2021, 86, 106069.	8.2	149
16	Enhancing the performance of automotive radiators using nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 183-194.	8.2	146
17	Thermal enhancement of parabolic trough collector with internally finned absorbers. <i>Solar Energy</i> , 2017, 157, 514-531.	2.9	131
18	Parametric investigation of nanofluids utilization in parabolic trough collectors. <i>Thermal Science and Engineering Progress</i> , 2017, 2, 71-79.	1.3	130

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19	Thermal analysis of parabolic trough collector operating with mono and hybrid nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 26, 105-115.	1.7	130
20	Parametric analysis and optimization of a solar driven trigeneration system based on ORC and absorption heat pump. <i>Journal of Cleaner Production</i> , 2017, 161, 493-509.	4.6	126
21	A detailed exergetic analysis of parabolic trough collectors. <i>Energy Conversion and Management</i> , 2017, 149, 275-292.	4.4	126
22	A review on performance and environmental effects of conventional and nanofluid-based thermal photovoltaics. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 302-316.	8.2	124
23	Multi-criteria evaluation of parabolic trough collector with internally finned absorbers. <i>Applied Energy</i> , 2017, 205, 540-561.	5.1	121
24	Solar-driven polygeneration systems: Recent progress and outlook. <i>Applied Energy</i> , 2020, 264, 114764.	5.1	118
25	Thermal, hydraulic and exergetic evaluation of a parabolic trough collector operating with thermal oil and molten salt based nanofluids. <i>Energy Conversion and Management</i> , 2018, 156, 388-402.	4.4	113
26	Experimental and numerical investigation on the optical and thermal performance of solar parabolic dish and corrugated spiral cavity receiver. <i>Journal of Cleaner Production</i> , 2017, 150, 75-92.	4.6	109
27	The impact of internal longitudinal fins in parabolic trough collectors operating with gases. <i>Energy Conversion and Management</i> , 2017, 135, 35-54.	4.4	108
28	The use of gas working fluids in parabolic trough collectors – An energetic and exergetic analysis. <i>Applied Thermal Engineering</i> , 2016, 109, 1-14.	3.0	104
29	Investigation of a star flow insert in a parabolic trough solar collector. <i>Applied Energy</i> , 2018, 224, 86-102.	5.1	103
30	A review of concentrating solar thermal collectors with and without nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 763-786.	2.0	103
31	Design, simulation and optimization of a compound parabolic collector. <i>Sustainable Energy Technologies and Assessments</i> , 2016, 16, 53-63.	1.7	98
32	Energetic, exergetic and financial evaluation of a solar driven absorption chiller – A dynamic approach. <i>Energy Conversion and Management</i> , 2017, 137, 34-48.	4.4	98
33	Investigation of a hybrid ORC driven by waste heat and solar energy. <i>Energy Conversion and Management</i> , 2018, 156, 427-439.	4.4	96
34	Progress in the design and the applications of linear Fresnel reflectors – A critical review. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 112-137.	1.3	95
35	Parametric analysis and optimization of an Organic Rankine Cycle with nanofluid based solar parabolic trough collectors. <i>Renewable Energy</i> , 2017, 114, 1376-1393.	4.3	91
36	Multi-objective optimization of a solar driven trigeneration system. <i>Energy</i> , 2018, 149, 47-62.	4.5	91

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37	Exergetic and energetic comparison of LiCl-H ₂ O and LiBr-H ₂ O working pairs in a solar absorption cooling system. Energy Conversion and Management, 2016, 123, 453-461.	4.4	90
38	Experimental and numerical investigation of a linear Fresnel solar collector with flat plate receiver. Energy Conversion and Management, 2016, 130, 44-59.	4.4	90
39	Optimum number of internal fins in parabolic trough collectors. Applied Thermal Engineering, 2018, 137, 669-677.	3.0	90
40	Energy, exergy, economic and environmental (4E) analysis of a parabolic trough solar collector using MXene based silicone oil nanofluids. Solar Energy Materials and Solar Cells, 2022, 239, 111633.	3.0	85
41	Daily performance of parabolic trough solar collectors. Solar Energy, 2017, 158, 663-678.	2.9	83
42	Comparative study of spiral and conical cavity receivers for a solar dish collector. Energy Conversion and Management, 2018, 178, 111-122.	4.4	80
43	An innovative Trombe wall as a passive heating system for a building in Athens – A comparison with the conventional Trombe wall and the insulated wall. Energy and Buildings, 2016, 133, 754-769.	3.1	77
44	Exergetic investigation of a solar dish collector with smooth and corrugated spiral absorber operating with various nanofluids. Journal of Cleaner Production, 2018, 174, 1147-1160.	4.6	75
45	Performance analysis and optimization of an absorption chiller driven by nanofluid based solar flat plate collector. Journal of Cleaner Production, 2018, 174, 256-272.	4.6	74
46	Energetic and financial evaluation of a solar assisted heat pump heating system with other usual heating systems in Athens. Applied Thermal Engineering, 2016, 106, 87-97.	3.0	71
47	Multiple cylindrical inserts for parabolic trough solar collector. Applied Thermal Engineering, 2018, 143, 80-89.	3.0	70
48	Energetic, Exergetic, Economic and Environmental (4E) analysis of a solar assisted refrigeration system for various operating scenarios. Energy Conversion and Management, 2017, 148, 1055-1069.	4.4	68
49	Experimental investigation and parametric analysis of a solar thermal dish collector with spiral absorber. Applied Thermal Engineering, 2017, 121, 126-135.	3.0	67
50	Energetic investigation of solar assisted heat pump underfloor heating systems with and without phase change materials. Energy Conversion and Management, 2018, 173, 626-639.	4.4	65
51	Investigation of a nanofluid-based compound parabolic trough solar collector under laminar flow conditions. Applied Thermal Engineering, 2019, 149, 366-376.	3.0	64
52	Thermal efficiency enhancement of nanofluid-based parabolic trough collectors. Journal of Thermal Analysis and Calorimetry, 2019, 135, 597-608.	2.0	64
53	Investigation of a solar-biomass polygeneration system. Energy Conversion and Management, 2018, 173, 283-295.	4.4	63
54	Commercial parabolic trough CSP plants: Research trends and technological advancements. Solar Energy, 2020, 211, 1422-1458.	2.9	62

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55	The use of parabolic trough collectors for solar cooling – A case study for Athens climate. Case Studies in Thermal Engineering, 2016, 8, 403-413.	2.8	61
56	A review of solar-driven organic Rankine cycles: Recent challenges and future outlook. Renewable and Sustainable Energy Reviews, 2021, 150, 111410.	8.2	61
57	Research and review study of solar dish concentrators with different nanofluids and different shapes of cavity receiver: Experimental tests. Renewable Energy, 2020, 145, 783-804.	4.3	60
58	Parametric analysis and optimization of a cooling system with ejector-absorption chiller powered by solar parabolic trough collectors. Energy Conversion and Management, 2018, 168, 329-342.	4.4	59
59	Numerical comparison of a solar dish concentrator with different cavity receivers and working fluids. Journal of Cleaner Production, 2018, 198, 1013-1030.	4.6	58
60	A numerical simulation of a linear Fresnel solar reflector directed to produce steam for the power plant. Journal of Cleaner Production, 2019, 231, 494-508.	4.6	58
61	Optimization of a Solar-Driven Trigeration System with Nanofluid-Based Parabolic Trough Collectors. Energies, 2017, 10, 848.	1.6	57
62	Numerical simulation of a solar cooling system with and without phase change materials in radiant walls of a building. Energy Conversion and Management, 2019, 188, 40-53.	4.4	57
63	Energetic and financial sustainability of solar assisted heat pump heating systems in Europe. Sustainable Cities and Society, 2017, 33, 70-84.	5.1	57
64	Energetic and financial analysis of solar cooling systems with single effect absorption chiller in various climates. Applied Thermal Engineering, 2017, 126, 809-821.	3.0	56
65	Multi-criteria evaluation of a nanofluid-based linear Fresnel solar collector. Solar Energy, 2018, 163, 200-214.	2.9	56
66	Multi-objective optimization of a solar assisted heat pump-driven by hybrid PV. Applied Thermal Engineering, 2019, 149, 528-535.	3.0	56
67	Parametric analysis and optimization of a solar assisted gas turbine. Energy Conversion and Management, 2017, 139, 151-165.	4.4	55
68	GMDH modeling and experimental investigation of thermal performance enhancement of hemispherical cavity receiver using MWCNT/oil nanofluid. Solar Energy, 2018, 171, 790-803.	2.9	55
69	A detailed parametric analysis of a solar dish collector. Sustainable Energy Technologies and Assessments, 2018, 25, 99-110.	1.7	51
70	Investigation of a nanofluid-based concentrating thermal photovoltaic with a parabolic reflector. Energy Conversion and Management, 2019, 180, 171-182.	4.4	50
71	Optimum design of a solar ejector refrigeration system for various operating scenarios. Energy Conversion and Management, 2017, 154, 11-24.	4.4	48
72	Thermodynamic investigation of LiCl-H ₂ O working pair in a double effect absorption chiller driven by parabolic trough collectors. Thermal Science and Engineering Progress, 2017, 3, 75-87.	1.3	48

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73	Optical and thermal analysis of a linear Fresnel reflector operating with thermal oil, molten salt and liquid sodium. <i>Applied Thermal Engineering</i> , 2018, 133, 70-80.	3.0	48
74	Enhancing the Performance of Evacuated and Non-Evacuated Parabolic Trough Collectors Using Twisted Tape Inserts, Perforated Plate Inserts and Internally Finned Absorber. <i>Energies</i> , 2018, 11, 1129.	1.6	48
75	Development of empirical models for estimation of global solar radiation exergy in India. <i>Journal of Cleaner Production</i> , 2019, 207, 1-16.	4.6	48
76	Enhancing the performance of a parabolic trough collector with combined thermal and optical techniques. <i>Applied Thermal Engineering</i> , 2020, 164, 114496.	3.0	47
77	Parametric analysis and yearly performance of a trigeneration system driven by solar-dish collectors. <i>International Journal of Energy Research</i> , 2019, 43, 1534-1546.	2.2	46
78	Analytical Expression of Parabolic Trough Solar Collector Performance. <i>Designs</i> , 2018, 2, 9.	1.3	45
79	Energetic, exergetic and financial evaluation of a solar driven trigeneration system. <i>Thermal Science and Engineering Progress</i> , 2018, 7, 99-106.	1.3	45
80	Thermal and exergy performance of a nanofluid-based solar dish collector with spiral cavity receiver. <i>Applied Thermal Engineering</i> , 2018, 135, 206-217.	3.0	44
81	Thermal performance comparison between Al ₂ O ₃ /oil and SiO ₂ /oil nanofluids in cylindrical cavity receiver based on experimental study. <i>Renewable Energy</i> , 2018, 129, 652-665.	4.3	44
82	Design, simulation and optimization of a solar dish collector with spiral-coil thermal absorber. <i>Thermal Science</i> , 2016, 20, 1387-1397.	0.5	42
83	Assessment of linear solar concentrating technologies for Greek climate. <i>Energy Conversion and Management</i> , 2018, 171, 1502-1513.	4.4	42
84	Solar desalination system with a focal point concentrator using different nanofluids. <i>Applied Thermal Engineering</i> , 2020, 174, 115058.	3.0	42
85	Financial and energetic evaluation of solar-assisted heat pump underfloor heating systems with phase change materials. <i>Applied Thermal Engineering</i> , 2019, 149, 548-564.	3.0	41
86	Parametric analysis and optimization of an underfloor solar assisted heating system with phase change materials. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 59-72.	1.3	41
87	Parametric investigation of supercritical carbon dioxide utilization in parabolic trough collectors. <i>Applied Thermal Engineering</i> , 2017, 127, 736-747.	3.0	38
88	A systematic parametric thermal analysis of nanofluid-based parabolic trough solar collectors. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100714.	1.7	38
89	Generalized models for estimation of global solar radiation based on sunshine duration and detailed comparison with the existing: A case study for India. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 31, 179-198.	1.7	37
90	Evaluating energy efficiency and economic effect of heat transfer in copper tube for small solar linear Fresnel reflector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 4197-4215.	2.0	37

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91	Energy and exergy investigation of alumina/oil and silica/oil nanofluids in hemispherical cavity receiver: Experimental Study. <i>Energy</i> , 2018, 164, 275-287.	4.5	36
92	Secondary concentrator optimization of a linear Fresnel reflector using Bezier polynomial parametrization. <i>Solar Energy</i> , 2018, 171, 716-727.	2.9	36
93	Investigation and optimization of a solar-assisted pumped thermal energy storage system with flat plate collectors. <i>Energy Conversion and Management</i> , 2021, 237, 114137.	4.4	36
94	Enhancing the performance of a linear Fresnel reflector using nanofluids and internal finned absorber. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 237-255.	2.0	34
95	Working fluid selection for regenerative supercritical Brayton cycle combined with bottoming ORC driven by molten salt solar power tower using energy exergy analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100699.	1.7	34
96	Assessment of the thermal enhancement methods in parabolic trough collectors. <i>International Journal of Energy and Environmental Engineering</i> , 2018, 9, 59-70.	1.3	31
97	Investigation of a booster secondary reflector for a parabolic trough solar collector. <i>Solar Energy</i> , 2019, 179, 174-185.	2.9	31
98	Development of analytical expressions for the incident angle modifiers of a linear Fresnel reflector. <i>Solar Energy</i> , 2018, 173, 769-779.	2.9	30
99	Optical and thermal analysis of different cavity receiver designs for solar dish concentrators. <i>Energy Conversion and Management: X</i> , 2019, 2, 100013.	0.9	30
100	Numerical Optimization Study of Archimedes Screw Turbine (AST): A case study. <i>Renewable Energy</i> , 2020, 145, 2130-2143.	4.3	30
101	An up-to-date review on evacuated tube solar collectors. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2873-2889.	2.0	30
102	Energetic and exergetic evaluation of a novel trigeneration system driven by parabolic trough solar collectors. <i>Thermal Science and Engineering Progress</i> , 2018, 6, 41-47.	1.3	29
103	A Theoretical Comparative Study of CO ₂ Cascade Refrigeration Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 790.	1.3	29
104	A critical review of power generation using geothermal-driven organic Rankine cycle. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101028.	1.3	28
105	Investigation and optimization of a solar assisted heat pump driven by nanofluid-based hybrid PV. <i>Energy Conversion and Management</i> , 2019, 198, 111831.	4.4	27
106	Sensitivity analysis of parabolic trough concentrator using rectangular cavity receiver. <i>Applied Thermal Engineering</i> , 2020, 169, 114948.	3.0	27
107	Yearly investigation of a solar-driven absorption refrigeration system with ammonia-water absorption pair. <i>Thermal Science and Engineering Progress</i> , 2021, 23, 100885.	1.3	27
108	Reducing the optical end losses of a linear Fresnel reflector using novel techniques. <i>Solar Energy</i> , 2019, 186, 247-256.	2.9	26

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109	Review on influencing parameters in the performance of concentrated solar power collector based on materials, heat transfer fluids and design. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 33-51.	2.0	26
110	Energetic and exergetic investigation of a parabolic trough collector with internal fins operating with carbon dioxide. <i>International Journal of Energy and Environmental Engineering</i> , 2017, 8, 109-122.	1.3	25
111	Energy and financial analysis of a solar driven thermoelectric generator. <i>Journal of Cleaner Production</i> , 2020, 264, 121534.	4.6	25
112	Energy and environmental investigation of R744 all-in-one configurations for refrigeration and heating/air conditioning needs of a supermarket. <i>Journal of Cleaner Production</i> , 2021, 279, 123234.	4.6	25
113	Daily, monthly and yearly performance of a linear Fresnel reflector. <i>Solar Energy</i> , 2018, 173, 517-529.	2.9	24
114	Enhancing the performance of a CO ₂ refrigeration system with the use of an absorption chiller. <i>International Journal of Refrigeration</i> , 2019, 108, 37-52.	1.8	24
115	A Comparative Study of Solar-Driven Trigeneration Systems for the Building Sector. <i>Energies</i> , 2020, 13, 2074.	1.6	24
116	Investigation of energy and financial performance of a novel CO ₂ supercritical solar-biomass trigeneration system for operation in the climate of Athens. <i>Energy Conversion and Management</i> , 2021, 245, 114583.	4.4	24
117	Energy, Financial, and Environmental Investigation of a Direct Steam Production Power Plant Driven by Linear Fresnel Solar Reflectors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021, 143, .	1.1	24
118	Effects of size and volume fraction of alumina nanoparticles on the performance of a solar organic Rankine cycle. <i>Energy Conversion and Management</i> , 2019, 182, 398-411.	4.4	23
119	A comparative study of CO ₂ refrigeration systems. <i>Energy Conversion and Management: X</i> , 2019, 1, 100002.	0.9	22
120	Effect of use of MWCNT/oil nanofluid on the performance of solar organic Rankine cycle. <i>Energy Reports</i> , 2020, 6, 782-794.	2.5	22
121	Efficiency enhancement of a solar dish collector operating with a novel soybean oil-based-MXene nanofluid and different cavity receivers. <i>Journal of Cleaner Production</i> , 2021, 317, 128430.	4.6	22
122	Parametric investigation and optimization of an innovative trigeneration system. <i>Energy Conversion and Management</i> , 2016, 127, 515-525.	4.4	20
123	Energy and financial investigation of a cogeneration system based on linear Fresnel reflectors. <i>Energy Conversion and Management</i> , 2019, 198, 111821.	4.4	20
124	Investigation of the Environmentally-Friendly Refrigerant R152a for Air Conditioning Purposes. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 119.	1.3	20
125	Parametric analysis of a solar-driven trigeneration system with an organic Rankine cycle and a vapor compression cycle. <i>Energy and Built Environment</i> , 2021, 2, 278-289.	2.9	20
126	Dynamic investigation and optimization of a solar-fed trigeneration system. <i>Applied Thermal Engineering</i> , 2021, 191, 116869.	3.0	20

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127	Multi-objective optimization of a solar-driven polygeneration system based on CO ₂ working fluid. <i>Energy Conversion and Management</i> , 2022, 252, 115136.	4.4	20
128	Experimental investigation of the daily performance of an integrated linear Fresnel reflector system. <i>Solar Energy</i> , 2018, 167, 220-230.	2.9	19
129	Performance Assessment of a Solar Dryer System Using Small Parabolic Dish and Alumina/Oil Nanofluid: Simulation and Experimental Study. <i>Energies</i> , 2019, 12, 4747.	1.6	19
130	Investigation and optimization of a CO ₂ -based polygeneration unit for supermarkets. <i>Applied Energy</i> , 2022, 311, 118717.	5.1	18
131	Exergy and economic assessments of solar organic Rankine cycle system with linear V-Shape cavity. <i>Energy Conversion and Management</i> , 2019, 199, 111997.	4.4	17
132	A review of experimental studies on cylindrical two-phase closed thermosyphon using refrigerant for low-temperature applications. <i>International Journal of Refrigeration</i> , 2020, 120, 296-313.	1.8	17
133	Numerical study on the thermo-hydraulic performance analysis of fly ash nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2101-2113.	2.0	17
134	CO ₂ Transcritical Refrigeration Cycle with Dedicated Subcooling: Mechanical Compression vs. Absorption Chiller. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1605.	1.3	16
135	Annual performance of a supermarket refrigeration system using different configurations with CO ₂ refrigerant. <i>Energy Conversion and Management: X</i> , 2019, 1, 100006.	0.9	16
136	Parametric Investigation of a Trigeneration System with an Organic Rankine Cycle and Absorption Heat Pump Driven by Parabolic Trough Collectors for the Building Sector. <i>Energies</i> , 2020, 13, 1800.	1.6	16
137	Development of an analytical model for the daily performance of solar thermal systems with experimental validation. <i>Sustainable Energy Technologies and Assessments</i> , 2018, 28, 22-29.	1.7	15
138	A cylindrical insert for parabolic trough solar collector. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1846-1876.	1.6	15
139	Investigation of a novel solar-driven refrigeration system with ejector. <i>Thermal Science and Engineering Progress</i> , 2018, 8, 284-295.	1.3	14
140	Solar concentrating systems and applications in Greece – A critical review. <i>Journal of Cleaner Production</i> , 2020, 272, 122855.	4.6	14
141	Thermal Behavior of a Building with Incorporated Phase Change Materials in the South and the North Wall. <i>Computation</i> , 2019, 7, 2.	1.0	13
142	Energetic and exergetic investigation of a novel solar assisted mechanical compression refrigeration system. <i>Energy Conversion and Management</i> , 2017, 147, 1-18.	4.4	12
143	Parametric analysis and multi-objective optimization of a solar heating system for various building envelopes. <i>Thermal Science and Engineering Progress</i> , 2018, 8, 307-317.	1.3	12
144	Financial Optimization of a Solar-Driven Organic Rankine Cycle. <i>Applied System Innovation</i> , 2020, 3, 23.	2.7	12

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145	Sensitivity analysis of a parabolic trough concentrator with linear V-shaped cavity. Energy Science and Engineering, 2020, 8, 3544-3560.	1.9	12
146	Optical analysis and performance evaluation of a solar parabolic dish concentrator. Thermal Science, 2016, 20, 1237-1249.	0.5	12
147	Concentrating Solar Collectors for a Trigeneration System – A Comparative Study. Applied Sciences (Switzerland), 2020, 10, 4492.	1.3	11
148	A comprehensive review on Crossflow turbine for hydropower applications. Ocean Engineering, 2021, 240, 110015.	1.9	11
149	Optimum geometry of parabolic trough collectors with optical and thermal criteria. International Review of Applied Sciences and Engineering, 2017, 8, 45-50.	0.3	10
150	Solar-driven water pump with organic Rankine cycle for pressurized irrigation systems: A case study. Thermal Science and Engineering Progress, 2021, 25, 100960.	1.3	10
151	Thermal and exergetic evaluation of parabolic trough collectors with finned absorbers operating with air. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 631-644.	0.8	10
152	Energetic, Exergetic, and Financial Investigation of Biomass-Driven Trigeneration System. Journal of Energy Engineering - ASCE, 2019, 145, .	1.0	9
153	Investigation of Different Storage Systems for Solar-Driven Organic Rankine Cycle. Applied System Innovation, 2020, 3, 52.	2.7	9
154	LNG vs. MDO in Marine Fuel Emissions Tracking. Sustainability, 2022, 14, 3860.	1.6	9
155	Parametric Analysis of a Polygeneration System with CO ₂ Working Fluid. Applied Sciences (Switzerland), 2021, 11, 3215.	1.3	8
156	Design of a solar-driven cogeneration system using flat plate collectors and evacuated tube collectors. International Journal of Energy Research, 2019, 43, 5841-5851.	2.2	7
157	Thermal and exergetic investigation of a solar dish collector operating with mono and hybrid nanofluids. Thermal Science, 2018, 22, 1383-1393.	0.5	7
158	Experimental investigations on modified thermosyphons using R134a/Al ₂ O ₃ and comparative machine learning analysis. Applied Thermal Engineering, 2022, 212, 118554.	3.0	7
159	Incorporation of an organic Rankine cycle in a transcritical booster CO ₂ refrigeration system. International Journal of Energy Research, 2020, 44, 7974-7988.	2.2	6
160	Pumped Thermal Energy Storage System for Trigeneration: The Concept of Power to XYZ. Applied Sciences (Switzerland), 2022, 12, 970.	1.3	6
161	Energetic and Financial Optimization of Solar Heat Industry Process with Parabolic Trough Collectors. Designs, 2018, 2, 24.	1.3	5
162	A Realistic Approach of the Maximum Work Extraction from Solar Thermal Collectors. Applied System Innovation, 2018, 1, 6.	2.7	5

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163	Evaluation of a solar driven trigeneration system with conventional and new criteria. International Journal of Sustainable Energy, 2019, 38, 238-252.	1.3	5
164	Characterization of a micro thermal cavity receiver “ Experimental and analytical investigation. Thermal Science and Engineering Progress, 2020, 18, 100554.	1.3	5
165	Assessment of a solar-driven cogeneration system for electricity and desalination. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1711-1731.	2.0	5
166	Parametric Investigation of a Ground Source CO2 Heat Pump for Space Heating. Energies, 2021, 14, 3563.	1.6	5
167	Investigation of a Novel CO2 Transcritical Organic Rankine Cycle Driven by Parabolic Trough Solar Collectors. Applied System Innovation, 2021, 4, 53.	2.7	5
168	Solar Energy Management Using Phase Change Materials Passive Systems in the Athens Area Buildings. International Journal of Mechanical Systems Engineering, 2015, 1, .	0.2	5
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