

# Anthony P Roskilly

## List of Publications by Year in descending order

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233  
papers

8,624  
citations

38738

50  
h-index

64791

79  
g-index

241  
all docs

241  
docs citations

241  
times ranked

5689  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of free-piston engine history and applications. <i>Applied Thermal Engineering</i> , 2007, 27, 2339-2352.	6.0	372
2	Low grade thermal energy sources and uses from the process industry in the UK. <i>Applied Energy</i> , 2012, 89, 3-20.	10.1	263
3	Experimental investigation on the performance and emissions of a diesel engine fuelled with ethanol–diesel blends. <i>Applied Thermal Engineering</i> , 2009, 29, 2484-2490.	6.0	251
4	The design and simulation of a two-stroke free-piston compression ignition engine for electrical power generation. <i>Applied Thermal Engineering</i> , 2008, 28, 589-600.	6.0	169
5	A review of chemical heat pumps, thermodynamic cycles and thermal energy storage technologies for low grade heat utilisation. <i>Applied Thermal Engineering</i> , 2013, 50, 1257-1273.	6.0	167
6	Levelised Cost of Storage for Pumped Heat Energy Storage in comparison with other energy storage technologies. <i>Energy Conversion and Management</i> , 2017, 152, 221-228.	9.2	166
7	An operational and economic study of a reverse osmosis desalination system for potable water and land irrigation. <i>Desalination</i> , 2016, 397, 174-184.	8.2	145
8	Recent advances in sustainable drying of agricultural produce: A review. <i>Applied Energy</i> , 2019, 233-234, 367-385.	10.1	145
9	The control of a free-piston engine generator. Part 1: Fundamental analyses. <i>Applied Energy</i> , 2010, 87, 1273-1280.	10.1	142
10	A novel approach for Lithium-ion battery thermal management with streamline shape mini channel cooling plates. <i>Applied Thermal Engineering</i> , 2019, 157, 113623.	6.0	141
11	The control of a free-piston engine generator. Part 2: Engine dynamics and piston motion control. <i>Applied Energy</i> , 2010, 87, 1281-1287.	10.1	138
12	Applications and technological challenges for heat recovery, storage and utilisation with latent thermal energy storage. <i>Applied Energy</i> , 2021, 283, 116277.	10.1	131
13	Heat utilisation technologies: A critical review of heat pipes. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 615-627.	16.4	123
14	Predictive piston motion control in a free-piston internal combustion engine. <i>Applied Energy</i> , 2010, 87, 1722-1728.	10.1	119
15	Development and validation of a free-piston engine generator numerical model. <i>Energy Conversion and Management</i> , 2015, 91, 333-341.	9.2	118
16	A computational study of free-piston diesel engine combustion. <i>Applied Energy</i> , 2009, 86, 1136-1143.	10.1	110
17	A review of the current automotive manufacturing practice from an energy perspective. <i>Applied Energy</i> , 2020, 261, 114074.	10.1	107
18	An experimental investigation into the starting process of free-piston engine generator. <i>Applied Energy</i> , 2015, 157, 798-804.	10.1	106

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19	Post-combustion CO <sub>2</sub> capture from a natural gas combined cycle power plant using activated carbon adsorption. <i>Applied Energy</i> , 2019, 245, 1-15.	10.1	106
20	Quality and Energy Evaluation in Meat Cooking. <i>Food Engineering Reviews</i> , 2016, 8, 435-447.	5.9	104
21	Energy saving technologies and mass-thermal network optimization for decarbonized iron and steel industry: A review. <i>Journal of Cleaner Production</i> , 2020, 274, 122997.	9.3	97
22	Performance simulation of a spark ignited free-piston engine generator. <i>Applied Thermal Engineering</i> , 2008, 28, 1726-1733.	6.0	94
23	Recent commercial free-piston engine developments for automotive Applications. <i>Applied Thermal Engineering</i> , 2015, 75, 493-503.	6.0	94
24	Comparative study of combustion and emissions of kerosene (RP-3), kerosene-pentanol blends and diesel in a compression ignition engine. <i>Applied Energy</i> , 2017, 203, 91-100.	10.1	93
25	A study and comparison of frictional losses in free-piston engine and crankshaft engines. <i>Applied Thermal Engineering</i> , 2018, 140, 217-224.	6.0	92
26	The performance and the gaseous emissions of two small marine craft diesel engines fuelled with biodiesel. <i>Applied Thermal Engineering</i> , 2008, 28, 872-880.	6.0	89
27	Design and simulation of a two- or four-stroke free-piston engine generator for range extender applications. <i>Energy Conversion and Management</i> , 2016, 111, 289-298.	9.2	85
28	An analytic study of applying Miller cycle to reduce NO <sub>x</sub> emission from petrol engine. <i>Applied Thermal Engineering</i> , 2007, 27, 1779-1789.	6.0	84
29	Coupled dynamic multidimensional modelling of free-piston engine combustion. <i>Applied Energy</i> , 2009, 86, 89-95.	10.1	84
30	Comparative study of performance and emissions of a diesel engine using Chinese pistache and jatropha biodiesel. <i>Fuel Processing Technology</i> , 2010, 91, 1761-1767.	7.2	81
31	Thermodynamics and economics of liquid desiccants for heating, ventilation and air-conditioning An overview. <i>Applied Energy</i> , 2018, 220, 455-479.	10.1	81
32	Research on combustion process of a free piston diesel linear generator. <i>Applied Energy</i> , 2016, 161, 395-403.	10.1	76
33	PEF plastic synthesized from industrial carbon dioxide and biowaste. <i>Nature Sustainability</i> , 2020, 3, 761-767.	23.7	76
34	Comparative techno-economic analysis of biomass fuelled combined heat and power for commercial buildings. <i>Applied Energy</i> , 2013, 112, 518-525.	10.1	73
35	Life cycle assessment (LCA) from analysing methodology development to introducing an LCA framework for marine photovoltaic (PV) systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 352-378.	16.4	73
36	Investigation of organic Rankine cycle integrated with double latent thermal energy storage for engine waste heat recovery. <i>Energy</i> , 2019, 170, 1098-1112.	8.8	73

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37	Piston motion control of a free-piston engine generator: A new approach using cascade control. Applied Energy, 2016, 179, 1166-1175.	10.1	72
38	A comparison of Miller and Otto cycle natural gas engines for small scale CHP applications. Applied Energy, 2009, 86, 922-927.	10.1	70
39	Performance exploration of temperature swing adsorption technology for carbon dioxide capture. Energy Conversion and Management, 2018, 165, 396-404.	9.2	64
40	Biochar and renewable energy generation from poultry litter waste: A technical and economic analysis based on computational simulations. Applied Energy, 2015, 160, 656-663.	10.1	63
41	Macroscopic spray characteristics of next-generation bio-derived diesel fuels in comparison to mineral diesel. Applied Energy, 2017, 186, 562-573.	10.1	61
42	A fast response free-piston engine generator numerical model for control applications. Applied Energy, 2016, 162, 321-329.	10.1	60
43	Effect of closed-loop controlled resonance based mechanism to start free piston engine generator: Simulation and test results. Applied Energy, 2016, 164, 532-539.	10.1	60
44	Application of the Miller cycle to reduce NOx emissions from petrol engines. Applied Energy, 2008, 85, 463-474.	10.1	57
45	Modelling of a chemisorption refrigeration and power cogeneration system. Applied Energy, 2014, 119, 351-362.	10.1	54
46	Study on the thermal interaction and heat dissipation of cylindrical Lithium-Ion Battery cells. Energy Procedia, 2017, 142, 4029-4036.	1.8	54
47	Investigating the implications of a new-build hybrid power system for Roll-on/Roll-off cargo ships from a sustainability perspective – A life cycle assessment case study. Applied Energy, 2016, 181, 416-434.	10.1	53
48	Study on solidification process of sodium acetate trihydrate for seasonal solar thermal energy storage. Solar Energy Materials and Solar Cells, 2017, 172, 99-107.	6.2	53
49	A hybrid reverse osmosis/adsorption desalination plant for irrigation and drinking water. Desalination, 2018, 444, 44-52.	8.2	53
50	Experimental study of the operation characteristics of an air-driven free-piston linear expander. Applied Energy, 2017, 195, 93-99.	10.1	52
51	Effect of feeding frequency and organic loading rate on biomethane production in the anaerobic digestion of rice straw. Applied Energy, 2017, 207, 156-165.	10.1	52
52	A resorption cycle for the cogeneration of electricity and refrigeration. Applied Energy, 2013, 106, 56-64.	10.1	51
53	Experimental study of the gaseous and particulate matter emissions from a gas turbine combustor burning butyl butyrate and ethanol blends. Applied Energy, 2017, 195, 693-701.	10.1	49
54	Feasibility study of seasonal solar thermal energy storage in domestic dwellings in the UK. Solar Energy, 2018, 162, 489-499.	6.1	49

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55	Life cycle sustainability assessment of grid-connected photovoltaic power generation: A case study of Northeast England. <i>Applied Energy</i> , 2018, 227, 465-479.	10.1	48
56	Comparative study of using multi-wall carbon nanotube and two different sizes of cerium oxide nanopowders as fuel additives under various diesel engine conditions. <i>Fuel</i> , 2019, 256, 115904.	6.4	47
57	Reprint of "A review of chemical heat pumps, thermodynamic cycles and thermal energy storage technologies for low grade heat utilisation". <i>Applied Thermal Engineering</i> , 2013, 53, 160-176.	6.0	45
58	Stable Operation and Electricity Generating Characteristics of a Single-Cylinder Free Piston Engine Linear Generator: Simulation and Experiments. <i>Energies</i> , 2015, 8, 765-785.	3.1	45
59	Integrated chemisorption cycles for ultra-low grade heat recovery and thermo-electric energy storage and exploitation. <i>Applied Energy</i> , 2016, 164, 228-236.	10.1	45
60	A comparative life cycle assessment of marine power systems. <i>Energy Conversion and Management</i> , 2016, 127, 477-493.	9.2	45
61	Office building cooling load reduction using thermal analysis method "A case study. <i>Applied Energy</i> , 2017, 185, 1574-1584.	10.1	45
62	Particulate number and NO trade-off comparisons between HVO and mineral diesel in HD applications. <i>Fuel</i> , 2018, 215, 90-101.	6.4	45
63	Opportunities and barriers for efficient energy use in a medium-sized brewery. <i>Applied Thermal Engineering</i> , 2013, 53, 397-404.	6.0	44
64	Thermodynamic analysis of ammonia-water power/chilling cogeneration cycle with low-grade waste heat. <i>Applied Thermal Engineering</i> , 2014, 64, 483-490.	6.0	44
65	Investigation on an innovative resorption system for seasonal thermal energy storage. <i>Energy Conversion and Management</i> , 2017, 149, 129-139.	9.2	43
66	Modelling and simulation of a distributed power generation system with energy storage to meet dynamic household electricity demand. <i>Applied Thermal Engineering</i> , 2013, 50, 523-535.	6.0	42
67	Investigation on a small-scale pumpless Organic Rankine Cycle (ORC) system driven by the low temperature heat source. <i>Applied Energy</i> , 2017, 195, 478-486.	10.1	41
68	Experimental investigation on an innovative resorption system for energy storage and upgrade. <i>Energy Conversion and Management</i> , 2017, 138, 651-658.	9.2	41
69	Comparative analysis on temperature swing adsorption cycle for carbon capture by using internal heat/mass recovery. <i>Applied Thermal Engineering</i> , 2020, 169, 114973.	6.0	41
70	Parametric study for small scale engine coolant and exhaust heat recovery system using different Organic Rankine cycle layouts. <i>Applied Thermal Engineering</i> , 2017, 127, 1252-1266.	6.0	40
71	Reciprocating Joule-cycle engine for domestic CHP systems. <i>Applied Energy</i> , 2005, 80, 169-185.	10.1	39
72	Performance study of solar photovoltaic-thermal collector for domestic hot water use and thermochemical sorption seasonal storage. <i>Energy Conversion and Management</i> , 2019, 180, 1068-1084.	9.2	39

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73	Algae to Energy: Engine Performance Using Raw Algal Oil. Energy Procedia, 2014, 61, 656-659.	1.8	38
74	Dynamic modelling and experimental validation of scroll expander for small scale power generation system. Applied Energy, 2017, 186, 262-281.	10.1	38
75	Performance analysis on a novel sorption air conditioner for electric vehicles. Energy Conversion and Management, 2018, 156, 515-524.	9.2	38
76	Seasonal solar thermal energy storage using thermochemical sorption in domestic dwellings in the UK. Energy, 2019, 166, 213-222.	8.8	38
77	An investigation of a household size trigeneration running with hydrogen. Applied Energy, 2011, 88, 2176-2182.	10.1	37
78	Desalination using low grade heat in the process industry: Challenges and perspectives. Applied Thermal Engineering, 2012, 48, 446-457.	6.0	37
79	Investigating a conventional and retrofit power plant on-board a Roll-on/Roll-off cargo ship from a sustainability perspective – A life cycle assessment case study. Energy Conversion and Management, 2016, 117, 305-318.	9.2	37
80	Design and assessment on a novel integrated system for power and refrigeration using waste heat from diesel engine. Applied Thermal Engineering, 2015, 91, 591-599.	6.0	36
81	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. Applied Energy, 2015, 160, 892-901.	10.1	35
82	Application of Miller cycle with turbocharger and ethanol to reduce NOx and particulates emissions from diesel engine – A numerical approach with model validations. Applied Thermal Engineering, 2019, 150, 904-911.	6.0	35
83	Investigation of the Starting Process of Free-piston Engine Generator by Mechanical Resonance. Energy Procedia, 2014, 61, 572-577.	1.8	34
84	Chemisorption cooling and electric power cogeneration system driven by low grade heat. Energy, 2014, 72, 590-598.	8.8	33
85	Towards sustainable farming: Feasibility study into energy recovery from bio-waste on a small-scale dairy farm. Journal of Cleaner Production, 2018, 174, 899-904.	9.3	33
86	Solar Powered Cascading Cogeneration Cycle with ORC and Adsorption Technology for Electricity and Refrigeration. Heat Transfer Engineering, 2014, 35, 1028-1034.	1.9	32
87	Effect of fuel injection characteristics on the performance of a free-piston diesel engine linear generator: CFD simulation and experimental results. Energy Conversion and Management, 2018, 160, 302-312.	9.2	32
88	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. Applied Thermal Engineering, 2017, 121, 410-418.	6.0	31
89	Development Approach of a Spark-Ignited Free-Piston Engine Generator. , 0, , .		30
90	Disturbance analysis of a free-piston engine generator using a validated fast-response numerical model. Applied Energy, 2017, 185, 440-451.	10.1	29

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91	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. Applied Energy, 2017, 204, 767-779.	10.1	29
92	Experimental study of the performance and emission characteristics of diesel engine using direct and indirect injection systems and different fuels. Fuel Processing Technology, 2011, 92, 1380-1386.	7.2	28
93	A review of compressed air energy systems in vehicle transport. Energy Strategy Reviews, 2021, 33, 100583.	7.3	27
94	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. Applied Energy, 2017, 204, 979-993.	10.1	26
95	Investigations into the effects of illumination and acceleration on optical mouse sensors as contact-free 2D measurement devices. Sensors and Actuators A: Physical, 2009, 149, 87-92.	4.1	25
96	Optimization of Malaysia's power generation mix to meet the electricity demand by 2050. Energy Procedia, 2017, 142, 2844-2851.	1.8	25
97	Forecasting Electricity Generation Capacity in Malaysia: An Auto Regressive Integrated Moving Average Approach. Energy Procedia, 2017, 105, 3471-3478.	1.8	24
98	Design, modelling and validation of a linear Joule Engine generator designed for renewable energy sources. Energy Conversion and Management, 2018, 165, 25-34.	9.2	24
99	Investigation of equilibrium and dynamic performance of SrCl <sub>2</sub> -expanded graphite composite in chemisorption refrigeration system. Applied Thermal Engineering, 2019, 147, 52-60.	6.0	24
100	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. Applied Energy, 2017, 190, 1029-1038.	10.1	23
101	Thermodynamic modelling and parameter determination of ejector for ejection refrigeration systems. International Journal of Refrigeration, 2017, 75, 117-128.	3.4	23
102	Microbial community composition and diversity in rice straw digestion bioreactors with and without dairy manure. Applied Microbiology and Biotechnology, 2018, 102, 8599-8612.	3.6	23
103	Thermal conductivity, permeability and reaction characteristic enhancement of ammonia solid sorbents: A review. International Journal of Heat and Mass Transfer, 2019, 130, 1206-1225.	4.8	23
104	Trigeneration running with raw jatropha oil. Fuel Processing Technology, 2010, 91, 348-353.	7.2	22
105	Chemisorption power generation driven by low grade heat – Theoretical analysis and comparison with pumpless ORC. Applied Energy, 2017, 186, 282-290.	10.1	22
106	Principle investigation on advanced absorption power generation cycles. Energy Conversion and Management, 2017, 150, 800-813.	9.2	22
107	Passive Cooling Using Phase Change Material and Insulation for High-rise Office Building in Tropical Climate. Energy Procedia, 2017, 142, 2295-2302.	1.8	21
108	Experimental study of a pneumatic engine with heat supply to improve the overall performance. Applied Thermal Engineering, 2018, 134, 78-85.	6.0	21

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109	A hybrid resorption-compression heat transformer for energy storage and upgrade with a large temperature lift. <i>Applied Energy</i> , 2020, 280, 115910.	10.1	21
110	Electricity-assisted thermochemical sorption system for seasonal solar energy storage. <i>Energy Conversion and Management</i> , 2020, 209, 112659.	9.2	21
111	Evaluation of performance characteristics of a novel hydrogen-fuelled free-piston engine generator. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 33314-33324.	7.1	21
112	Performance analysis of ultralow grade waste heat upgrade using absorption heat transformer. <i>Applied Thermal Engineering</i> , 2016, 101, 350-361.	6.0	20
113	An optimised chemisorption cycle for power generation using low grade heat. <i>Applied Energy</i> , 2017, 186, 251-261.	10.1	20
114	Study of different cooling structures on the thermal status of an Internal Combustion Engine. <i>Applied Thermal Engineering</i> , 2017, 116, 419-432.	6.0	20
115	A chemisorption power generation cycle with multi-stage expansion driven by low grade heat. <i>Energy Conversion and Management</i> , 2017, 150, 956-965.	9.2	20
116	Operation and performance of Brayton Pumped Thermal Energy Storage with additional latent storage. <i>Applied Energy</i> , 2022, 312, 118700.	10.1	20
117	Technical feasibility study of scroll-type rotary gasoline engine: A compact and efficient small-scale Humphrey cycle engine. <i>Applied Energy</i> , 2018, 221, 67-74.	10.1	19
118	Moving towards low-carbon manufacturing in the UK automotive industry. <i>Energy Procedia</i> , 2019, 158, 3381-3386.	1.8	19
119	Investigation of the optimum operating condition of a dual piston type free piston engine generator during engine cold start-up process. <i>Applied Thermal Engineering</i> , 2021, 182, 116124.	6.0	19
120	The techno-economics potential of hydrogen interconnectors for electrical energy transmission and storage. <i>Journal of Cleaner Production</i> , 2022, 335, 130045.	9.3	19
121	Comparative analysis on friction characteristics between free-piston engine generator and traditional crankshaft engine. <i>Energy Conversion and Management</i> , 2021, 245, 114630.	9.2	18
122	A combined heat and green hydrogen (CHH) generator integrated with a heat network. <i>Energy Conversion and Management</i> , 2021, 246, 114686.	9.2	18
123	Design and performance analysis of a resorption cogeneration system. <i>International Journal of Low-Carbon Technologies</i> , 2013, 8, i85-i91.	2.6	17
124	A Regional Life Cycle Sustainability Assessment Approach and its Application on Solar Photovoltaic. <i>Energy Procedia</i> , 2017, 105, 3320-3325.	1.8	17
125	The characteristics of a Linear Joule Engine Generator operating on a dry friction principle. <i>Applied Energy</i> , 2019, 237, 49-59.	10.1	17
126	State-of-the-Art Technologies on Low-Grade Heat Recovery and Utilization in Industry. , 0, , .		17



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127	Experimental investigation of two-phase flow and heat transfer performance in a cooling gallery under forced oscillation. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1306-1318.	4.8	17
128	Experimental and numerical study on the initial tip structure evolution of diesel fuel spray under various injection and ambient pressures. <i>Energy</i> , 2019, 186, 115867.	8.8	16
129	Design and Parametric Analysis of Linear Joule-cycle Engine with Out-of-cylinder Combustion. <i>Energy Procedia</i> , 2014, 61, 1111-1114.	1.8	15
130	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. <i>Energy Conversion and Management</i> , 2017, 145, 20-29.	9.2	15
131	Techno-Economic Analysis of a Cogeneration System for Post-Harvest Loss Reduction: A Case Study in Sub-Saharan Rural Community. <i>Energies</i> , 2019, 12, 872.	3.1	15
132	Performance analysis on a hybrid compression-assisted sorption thermal battery for seasonal heat storage in severe cold region. <i>Renewable Energy</i> , 2021, 180, 398-409.	8.9	15
133	The application of FLOX/COSTAIR technologies to reduce NOx emissions from coal/biomass fired power plant: A technical assessment based on computational simulation. <i>Fuel</i> , 2007, 86, 2101-2108.	6.4	14
134	The fuel efficiency and exhaust gas emissions of a low heat rejection free-piston diesel engine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2009, 223, 379-386.	1.4	14
135	Waste biomass from production process co-firing with coal in a steam boiler to reduce fossil fuel consumption: A case study. <i>Journal of Energy Chemistry</i> , 2013, 22, 413-419.	12.9	14
136	Phase change material thermal storage for biofuel preheating in micro trigeneration application: A numerical study. <i>Applied Energy</i> , 2015, 137, 832-844.	10.1	14
137	Fabrication and thermal conductivity improvement of novel composite adsorbents adding with nanoparticles. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 1114-1119.	3.7	14
138	Design and Parametric Study of an Organic Rankine Cycle using a Scroll Expander for Engine Waste Heat Recovery. <i>Energy Procedia</i> , 2017, 105, 1420-1425.	1.8	14
139	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. <i>Applied Thermal Engineering</i> , 2018, 134, 29-38.	6.0	14
140	Techno-economic analysis of a biogas driven poly-generation system for postharvest loss reduction in a Sub-Saharan African rural community. <i>Energy Conversion and Management</i> , 2019, 196, 591-604.	9.2	14
141	Lean ignition and blow-off behaviour of butyl butyrate and ethanol blends in a gas turbine combustor. <i>Fuel</i> , 2019, 239, 1351-1362.	6.4	14
142	The potential of decarbonising rice and wheat by incorporating carbon capture, utilisation and storage into fertiliser production. <i>Green Chemistry</i> , 2020, 22, 882-894.	9.0	14
143	Reprint of "Desalination using low grade heat in the process industry: Challenges and perspectives" <i>Applied Thermal Engineering</i> , 2013, 53, 234-245.	6.0	13
144	<i>Croton megalocarpus</i> oil-fired micro-trigeneration prototype for remote and self-contained applications: experimental assessment of its performance and gaseous and particulate emissions. <i>Interface Focus</i> , 2013, 3, 20120041.	3.0	13

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145	Techno-economic Analysis of BioChar Production and Energy Generation from Poultry Litter Waste. Energy Procedia, 2014, 61, 714-717.	1.8	13
146	The first carbon atlas of the state of Kuwait. Energy, 2017, 133, 317-326.	8.8	13
147	Dynamic and thermodynamic characteristics of a linear Joule engine generator with different operating conditions. Energy Conversion and Management, 2018, 173, 375-382.	9.2	13
148	Voltage Build-Up Analysis of Self-Excited Induction Generator With Multi-Timescale Reduced-Order Model. IEEE Access, 2019, 7, 48003-48012.	4.2	13
149	The impact of disruptive powertrain technologies on energy consumption and carbon dioxide emissions from heavy-duty vehicles. Energy Conversion and Management: X, 2020, 6, 100030.	1.6	13
150	Analysis of a 1 kW organic Rankine cycle using a scroll expander for engine coolant and exhaust heat recovery. Frontiers in Energy, 2017, 11, 527-534.	2.3	12
151	Biogas Tri-generation for Postharvest Processing of Agricultural Products in a Rural Community: Techno-economic Perspectives. Energy Procedia, 2017, 142, 63-69.	1.8	12
152	Effect of the stroke-to-bore ratio on the performance of a dual-piston free piston engine generator. Applied Thermal Engineering, 2021, 185, 116456.	6.0	12
153	Economic and environmental analysis of waste-based bioenergy integration into industrial cassava starch processes in Africa. Sustainable Production and Consumption, 2022, 31, 67-81.	11.0	12
154	Micro distributed energy system driven with preheated Croton megalocarpus oil " A performance and particulate emission study. Applied Energy, 2013, 112, 1383-1392.	10.1	11
155	Sustainable thermal energy management. Applied Energy, 2017, 186, 249-250.	10.1	11
156	Analysis on innovative resorption cycle for power and refrigeration cogeneration. Applied Energy, 2018, 218, 10-21.	10.1	11
157	Research on the engine combustion characteristics of a free-piston diesel engine linear generator. Energy Conversion and Management, 2018, 168, 629-638.	9.2	11
158	Investigation on thermal properties of a novel fuel blend and its diesel engine performance. Energy Conversion and Management, 2018, 171, 1540-1548.	9.2	11
159	Techno-economic analysis of the thermal energy saving options for high-voltage direct current interconnectors. Applied Energy, 2019, 247, 60-77.	10.1	11
160	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. Applied Energy, 2018, 215, 457-467.	10.1	10
161	A Detailed Optimisation of Solar Photovoltaic/Thermal Systems and its Application.. Energy Procedia, 2019, 158, 1141-1148.	1.8	10
162	Energy Recovery from Brewery Waste: experimental and modelling perspectives. Energy Procedia, 2019, 161, 24-31.	1.8	10

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163	Development and thermal characteristics of a novel composite oleic acid for cold storage. International Journal of Refrigeration, 2019, 100, 55-62.	3.4	10
164	Parametric analysis of a semi-closed-loop linear joule engine generator using argon and oxy-hydrogen combustion. Energy, 2021, 217, 119357.	8.8	10
165	Thermophysical characterization of magnesium chloride and its application in open sorption thermal energy storage system. Solar Energy Materials and Solar Cells, 2021, 236, 111528.	6.2	10
166	Cleaning by means of the HISMAR autonomous robot. Russian Engineering Research, 2011, 31, 589-592.	0.6	9
167	Reprint of "Modelling and simulation of a distributed power generation system with energy storage to meet dynamic household electricity demand". Applied Thermal Engineering, 2013, 53, 312-324.	6.0	9
168	Working fluid selection for a small-scale organic Rankine cycle recovering engine waste heat. Energy Procedia, 2017, 123, 346-352.	1.8	9
169	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. Energy Conversion and Management, 2017, 148, 110-119.	9.2	9
170	Investigation of an Innovative Cascade Cycle Combining a Trilateral Cycle and an Organic Rankine Cycle (TLC-ORC) for Industry or Transport Application. Energies, 2018, 11, 3032.	3.1	9
171	Use Cases with Economics and Simulation for Thermo-Chemical District Networks. Sustainability, 2018, 10, 599.	3.2	9
172	Identification and analysis on the variation sources of a dual-cylinder free piston engine generator and their influence on system operating characteristics. Energy, 2022, 242, 123001.	8.8	9
173	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. Energy Procedia, 2014, 61, 1103-1106.	1.8	8
174	Performance analysis on a novel self-adaptive sorption system to reduce nitrogen oxides emission of diesel engine. Applied Thermal Engineering, 2017, 127, 1077-1085.	6.0	8
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