

Yiji Lu

List of Publications by Year in descending order

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67
papers

1,387
citations

331670

21
h-index

361022

35
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68
all docs

68
docs citations

68
times ranked

896
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel approach for Lithium-ion battery thermal management with streamline shape mini channel cooling plates. Applied Thermal Engineering, 2019, 157, 113623.	6.0	141
2	Applications and technological challenges for heat recovery, storage and utilisation with latent thermal energy storage. Applied Energy, 2021, 283, 116277.	10.1	131
3	Comparative study of combustion and emissions of kerosene (RP-3), kerosene-pentanol blends and diesel in a compression ignition engine. Applied Energy, 2017, 203, 91-100.	10.1	93
4	Investigation of organic Rankine cycle integrated with double latent thermal energy storage for engine waste heat recovery. Energy, 2019, 170, 1098-1112.	8.8	73
5	Study on the thermal interaction and heat dissipation of cylindrical Lithium-Ion Battery cells. Energy Procedia, 2017, 142, 4029-4036.	1.8	54
6	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
7	Comparative study of using multi-wall carbon nanotube and two different sizes of cerium oxide nanopowders as fuel additives under various diesel engine conditions. Fuel, 2019, 256, 115904.	6.4	47
8	Experimental investigation on an innovative resorption system for energy storage and upgrade. Energy Conversion and Management, 2017, 138, 651-658.	9.2	41
9	Parametric study for small scale engine coolant and exhaust heat recovery system using different Organic Rankine cycle layouts. Applied Thermal Engineering, 2017, 127, 1252-1266.	6.0	40
10	Study on a liquid cooled battery thermal management system pertaining to the transient regime. Applied Thermal Engineering, 2020, 180, 115793.	6.0	38
11	Effects of fluctuating thermal sources on a shell-and-tube latent thermal energy storage during charging process. Energy, 2020, 199, 117400.	8.8	37
12	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
13	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. Applied Energy, 2015, 160, 892-901.	10.1	35
14	Comparison study of Trilateral Rankine Cycle, Organic Flash Cycle and basic Organic Rankine Cycle for low grade heat recovery. Energy Procedia, 2017, 142, 1441-1447.	1.8	33
15	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
16	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. Applied Energy, 2017, 204, 767-779.	10.1	29
17	A review of compressed air energy systems in vehicle transport. Energy Strategy Reviews, 2021, 33, 100583.	7.3	27
18	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. Applied Energy, 2017, 204, 979-993.	10.1	26

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19	Investigation of equilibrium and dynamic performance of SrCl ₂ -expanded graphite composite in chemisorption refrigeration system. <i>Applied Thermal Engineering</i> , 2019, 147, 52-60.	6.0	24
20	Parametric study on melting process of a shell-and-tube latent thermal energy storage under fluctuating thermal conditions. <i>Applied Thermal Engineering</i> , 2020, 180, 115898.	6.0	24
21	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. <i>Applied Energy</i> , 2017, 190, 1029-1038.	10.1	23
22	Experimental study of a pneumatic engine with heat supply to improve the overall performance. <i>Applied Thermal Engineering</i> , 2018, 134, 78-85.	6.0	21
23	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
24	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
25	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
26	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
27	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. <i>Energy Conversion and Management</i> , 2017, 145, 20-29.	9.2	15
28	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
29	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
30	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
31	Analysis of a 1 kW organic Rankine cycle using a scroll expander for engine coolant and exhaust heat recovery. <i>Frontiers in Energy</i> , 2017, 11, 527-534.	2.3	12
32	Experimental investigation of a U-tube thermocell under various Fe(CN) ₆ ³⁻ /4 ⁻ concentration. <i>Energy Conversion and Management</i> , 2020, 217, 113005.	9.2	12
33	Sensitivity analysis of thermophysical properties on PCM selection under steady and fluctuating heat sources: A comparative study. <i>Applied Thermal Engineering</i> , 2021, 186, 116527.	6.0	11
34	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. <i>Applied Energy</i> , 2018, 215, 457-467.	10.1	10
35	Analysis of a combined trilateral cycle - organic Rankine cycle (TLC-ORC) system for waste heat recovery. <i>Energy Procedia</i> , 2019, 158, 1786-1791.	1.8	10
36	Working fluid selection for a small-scale organic Rankine cycle recovering engine waste heat. <i>Energy Procedia</i> , 2017, 123, 346-352.	1.8	9

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37	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. <i>Energy Conversion and Management</i> , 2017, 148, 110-119.	9.2	9
38	Investigation of an Innovative Cascade Cycle Combining a Trilateral Cycle and an Organic Rankine Cycle (TLC-ORC) for Industry or Transport Application. <i>Energies</i> , 2018, 11, 3032.	3.1	9
39	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. <i>Energy Procedia</i> , 2014, 61, 1103-1106.	1.8	8
40	Experimental study on the sealing clearance between the labyrinth sealing displacer and cylinder in the 10K G-M refrigerator. <i>Cryogenics</i> , 2011, 51, 203-208.	1.7	7
41	Modelling and Optimisation on Scroll Expander for Waste Heat Recovery Organic Rankine Cycle. <i>Energy Procedia</i> , 2015, 75, 1603-1608.	1.8	7
42	A techno-economic case study using heat driven absorption refrigeration technology in UK industry. <i>Energy Procedia</i> , 2017, 123, 173-179.	1.8	7
43	Experimental Exploration of a Novel Chemisorption Composite of SrCl ₂ -NEG Adding with Carbon Coated Ni. <i>Energy Procedia</i> , 2017, 105, 4655-4660.	1.8	7
44	Investigation on innovative thermal conductive composite strontium chloride for ammonia sorption refrigeration. <i>International Journal of Refrigeration</i> , 2018, 85, 157-166.	3.4	7
45	Study of a novel hybrid refrigeration system for industrial waste heat recovery. <i>Energy Procedia</i> , 2019, 158, 2196-2201.	1.8	7
46	Investigation of the macroscopic characteristics of Hydrotreated Vegetable Oil (HVO) spray using CFD method. <i>Fuel</i> , 2019, 237, 28-39.	6.4	6
47	Spray and engine performance of cerium oxide nanopowder and carbon nanotubes modified alternative fuel. <i>Fuel</i> , 2022, 320, 123952.	6.4	6
48	Investigation of a Heat Pipe Heat Exchanger Integrated with a Water Spray for the Heat Recovery from Boil Exhaust Gas. <i>Energy Procedia</i> , 2014, 61, 2141-2144.	1.8	5
49	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. <i>Energy Procedia</i> , 2017, 105, 921-926.	1.8	5
50	Simulation study of Ferricyanide/Ferrocyanide concentric annulus thermocell with different electrode spacing and cell direction. <i>Energy Procedia</i> , 2017, 142, 374-380.	1.8	5
51	Evaluation of ideal double-tank hybrid pneumatic engine system under different compression cycle scenarios. <i>Energy Procedia</i> , 2017, 142, 1388-1394.	1.8	5
52	Experiment study of multi-fans cooling module using different shroud structures for advanced vehicle thermal management system. <i>Energy Procedia</i> , 2017, 142, 3968-3974.	1.8	5
53	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 179-185.	2.7	5
54	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. <i>Energy Procedia</i> , 2015, 75, 1027-1032.	1.8	4

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55	The Development and Application of Organic Rankine Cycle for Vehicle Waste Heat Recovery. , 0, , .		4
56	Effect of Fire-Deck Thickness on thermal status of cylinder head. Energy Procedia, 2017, 142, 4022-4028.	1.8	3
57	Study of a hybrid pneumatic-combustion engine under steady-state and transient conditions for transport application. International Journal of Engine Research, 2021, 22, 528-539.	2.3	3
58	Visualization study on the uniformity of refrigerant distribution in parallel multi-channels. Applied Thermal Engineering, 2022, 213, 118804.	6.0	3
59	Experimental study on the performance of the labyrinth sealing displacer for 10K G-M refrigerator. Cryogenics, 2011, 51, 187-191.	1.7	2
60	Experimental and Numerical Investigation on the Macroscopic Characteristics of Hydrotreated Vegetable Oil (HVO) Spray. Energy Procedia, 2017, 142, 474-480.	1.8	2
61	Development and testing of novel Chemisorption Composite using SrCl ₂ -NEG adding with Carbon coated Ni and Al. Energy Procedia, 2017, 142, 4037-4043.	1.8	2
62	QUANTIFYING THE EFFECTS OF FUEL COMPOSITIONS AND PROCESS VARIABLES ON PLANAR SURFACE AREA AND SPRAY NONUNIFORMITY VIA COMBINED MIXTURE-PROCESS DESIGN OF EXPERIMENT. Atomization and Sprays, 2017, 27, 707-722.	0.8	2
63	Conceptual study of scroll-type rotary gasoline Internal Combustion Engine. Energy Procedia, 2017, 142, 1545-1551.	1.8	1
64	Investigation of a novel composite sorbent for improved sorption characteristic. Energy Procedia, 2017, 142, 1455-1461.	1.8	1
65	Editorial: Organic Rankine Cycle for Efficiency Improvement of Industrial Processes and Urban Systems. Frontiers in Energy Research, 2020, 8, .	2.3	1
66	Numerical study of using different Organic Rankine cycle working fluids for engine coolant energy recovery. Energy Procedia, 2017, 142, 1448-1454.	1.8	0
67	Numerical Study on Charging Process of Latent Thermal Energy Storage Under Fluctuating Thermal Conditions. , 2021, , 879-882.		0