

Yiji Lu

List of Publications by Year in descending order

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67
papers

1,387
citations

377584

21
h-index

406436

35
g-index

68
all docs

68
docs citations

68
times ranked

1021
citing authors

#	ARTICLE	IF	CITATIONS
1	Spray and engine performance of cerium oxide nanopowder and carbon nanotubes modified alternative fuel. <i>Fuel</i> , 2022, 320, 123952.	3.4	6
2	Visualization study on the uniformity of refrigerant distribution in parallel multi-channels. <i>Applied Thermal Engineering</i> , 2022, 213, 118804.	3.0	3
3	Study of a hybrid pneumatic-combustion engine under steady-state and transient conditions for transport application. <i>International Journal of Engine Research</i> , 2021, 22, 528-539.	1.4	3
4	Numerical Study on Charging Process of Latent Thermal Energy Storage Under Fluctuating Thermal Conditions. , 2021, , 879-882.		0
5	A review of compressed air energy systems in vehicle transport. <i>Energy Strategy Reviews</i> , 2021, 33, 100583.	3.3	27
6	Applications and technological challenges for heat recovery, storage and utilisation with latent thermal energy storage. <i>Applied Energy</i> , 2021, 283, 116277.	5.1	131
7	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.	3.0	11
8	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.	3.0	24
9	Study on a liquid cooled battery thermal management system pertaining to the transient regime. <i>Applied Thermal Engineering</i> , 2020, 180, 115793.	3.0	38
10	Editorial: Organic Rankine Cycle for Efficiency Improvement of Industrial Processes and Urban Systems. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	1
11	Experimental investigation of a U-tube thermocell under various $\text{Fe}(\text{CN})_6^{3-}/4^{-}$ concentration. <i>Energy Conversion and Management</i> , 2020, 217, 113005.	4.4	12
12	Effects of fluctuating thermal sources on a shell-and-tube latent thermal energy storage during charging process. <i>Energy</i> , 2020, 199, 117400.	4.5	37
13	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.	4.5	16
14	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.	3.4	47
15	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
16	Study of a novel hybrid refrigeration system for industrial waste heat recovery. <i>Energy Procedia</i> , 2019, 158, 2196-2201.	1.8	7
17	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 179-185.	1.3	5
18	A novel approach for Lithium-ion battery thermal management with streamline shape mini channel cooling plates. <i>Applied Thermal Engineering</i> , 2019, 157, 113623.	3.0	141

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19	Investigation of organic Rankine cycle integrated with double latent thermal energy storage for engine waste heat recovery. <i>Energy</i> , 2019, 170, 1098-1112.	4.5	73
20	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.	2.5	17
21	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.	3.0	24
22	Lean ignition and blow-off behaviour of butyl butyrate and ethanol blends in a gas turbine combustor. <i>Fuel</i> , 2019, 239, 1351-1362.	3.4	14
23	Investigation of the macroscopic characteristics of Hydrotreated Vegetable Oil (HVO) spray using CFD method. <i>Fuel</i> , 2019, 237, 28-39.	3.4	6
24	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. <i>Applied Energy</i> , 2018, 215, 457-467.	5.1	10
25	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.	5.1	19
26	Experimental study of a pneumatic engine with heat supply to improve the overall performance. <i>Applied Thermal Engineering</i> , 2018, 134, 78-85.	3.0	21
27	Investigation on innovative thermal conductive composite strontium chloride for ammonia sorption refrigeration. <i>International Journal of Refrigeration</i> , 2018, 85, 157-166.	1.8	7
28	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.	1.6	9
29	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. <i>Applied Energy</i> , 2017, 190, 1029-1038.	5.1	23
30	Study of different cooling structures on the thermal status of an Internal Combustion Engine. <i>Applied Thermal Engineering</i> , 2017, 116, 419-432.	3.0	20
31	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. <i>Applied Thermal Engineering</i> , 2017, 121, 410-418.	3.0	31
32	Experimental study of the gaseous and particulate matter emissions from a gas turbine combustor burning butyl butyrate and ethanol blends. <i>Applied Energy</i> , 2017, 195, 693-701.	5.1	49
33	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. <i>Energy Conversion and Management</i> , 2017, 145, 20-29.	4.4	15
34	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
35	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. <i>Energy Procedia</i> , 2017, 105, 921-926.	1.8	5
36	Experimental investigation on an innovative resorption system for energy storage and upgrade. <i>Energy Conversion and Management</i> , 2017, 138, 651-658.	4.4	41

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37	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. Applied Energy, 2017, 204, 979-993.	5.1	26
38	A techno-economic case study using heat driven absorption refrigeration technology in UK industry. Energy Procedia, 2017, 123, 173-179.	1.8	7
39	Working fluid selection for a small-scale organic Rankine cycle recovering engine waste heat. Energy Procedia, 2017, 123, 346-352.	1.8	9
40	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.	3.0	40
41	Experimental Exploration of a Novel Chemisorption Composite of SrCl ₂ -NEG Adding with Carbon Coated Ni. Energy Procedia, 2017, 105, 4655-4660.	1.8	7
42	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. Energy Conversion and Management, 2017, 148, 110-119.	4.4	9
43	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. Applied Energy, 2017, 204, 767-779.	5.1	29
44	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.	5.1	93
45	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
46	Numerical study of using different Organic Rankine cycle working fluids for engine coolant energy recovery. Energy Procedia, 2017, 142, 1448-1454.	1.8	0
47	Experimental and Numerical Investigation on the Macroscopic Characteristics of Hydrotreated Vegetable Oil (HVO) Spray. Energy Procedia, 2017, 142, 474-480.	1.8	2
48	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.	1.2	12
49	Simulation study of Ferricyanide/Ferrocyanide concentric annulus thermocell with different electrode spacing and cell direction. Energy Procedia, 2017, 142, 374-380.	1.8	5
50	Study on the thermal interaction and heat dissipation of cylindrical Lithium-Ion Battery cells. Energy Procedia, 2017, 142, 4029-4036.	1.8	54
51	Evaluation of ideal double-tank hybrid pneumatic engine system under different compression cycle scenarios. Energy Procedia, 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. Energy Procedia, 2017, 142, 3968-3974.	1.8	5
53	Effect of Fire-Deck Thickness on thermal status of cylinder head. Energy Procedia, 2017, 142, 4022-4028.	1.8	3
54	Conceptual study of scroll-type rotary gasoline Internal Combustion Engine. Energy Procedia, 2017, 142, 1545-1551.	1.8	1

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55	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
56	Investigation of a novel composite sorbent for improved sorption characteristic. Energy Procedia, 2017, 142, 1455-1461.	1.8	1
57	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.	0.3	2
58	Fabrication and thermal conductivity improvement of novel composite adsorbents adding with nanoparticles. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 1114-1119.	1.9	14
59	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. Energy Procedia, 2015, 75, 1027-1032.	1.8	4
60	Modelling and Optimisation on Scroll Expander for Waste Heat Recovery Organic Rankine Cycle. Energy Procedia, 2015, 75, 1603-1608.	1.8	7
61	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. Applied Energy, 2015, 160, 892-901.	5.1	35
62	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.	3.0	36
63	Investigation of a Heat Pipe Heat Exchanger Integrated with a Water Spray for the Heat Recovery from Boil Exhaust Gas. Energy Procedia, 2014, 61, 2141-2144.	1.8	5
64	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. Energy Procedia, 2014, 61, 1103-1106.	1.8	8
65	Experimental study on the performance of the labyrinth sealing displacer for 10K G-M refrigerator. Cryogenics, 2011, 51, 187-191.	0.9	2
66	Experimental study on the sealing clearance between the labyrinth sealing displacer and cylinder in the 10K G-M refrigerator. Cryogenics, 2011, 51, 203-208.	0.9	7
67	The Development and Application of Organic Rankine Cycle for Vehicle Waste Heat Recovery. , 0, , .		4