

Zhibin Yu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,510
citations

293460

24
h-index

355658

38
g-index

47
all docs

47
docs citations

47
times ranked

928
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and analysis of a dual-acoustic-driver thermoacoustic heat pump. <i>Thermal Science and Engineering Progress</i> , 2022, 30, 101270.	1.3	7
2	Life cycle assessment of biodiesel production from rapeseed oil: Influence of process parameters and scale. <i>Bioresource Technology</i> , 2022, 360, 127532.	4.8	29
3	Experimental investigation of an Organic Rankine cycle system using an oil-free scroll expander for low grade heat recovery. <i>International Journal of Green Energy</i> , 2021, 18, 812-821.	2.1	7
4	Mode transition in a standing-wave thermoacoustic engine: A numerical study. <i>Journal of Sound and Vibration</i> , 2021, 504, 116119.	2.1	22
5	Multi-physics coupling in thermoacoustic devices: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 146, 111170.	8.2	74
6	Heat exchangers for cooling supercritical carbon dioxide and heat transfer enhancement: A review and assessment. <i>Energy Reports</i> , 2021, 7, 4085-4105.	2.5	34
7	An electret-based thermoacoustic-electrostatic power generator. <i>International Journal of Energy Research</i> , 2020, 44, 2298-2305.	2.2	20
8	Large eddy simulation of thermally induced oscillatory flow in a thermoacoustic engine. <i>Applied Energy</i> , 2020, 276, 115458.	5.1	30
9	Roadblocks to Low Temperature District Heating. <i>Energies</i> , 2020, 13, 5893.	1.6	10
10	Particle Image Velocimetry (PIV) experiment of the buoyant flow field of a thermal chimney model designed for geothermal power plants. <i>International Journal of Green Energy</i> , 2020, 17, 951-960.	2.1	4
11	Investigation of a refrigeration system based on combined supercritical CO ₂ power and transcritical CO ₂ refrigeration cycles by waste heat recovery of engine. <i>International Journal of Refrigeration</i> , 2020, 118, 470-482.	1.8	51
12	Underlying physics of limit-cycle, beating and quasi-periodic oscillations in thermoacoustic devices. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 215502.	1.3	19
13	Theoretical analysis of a regenerative supercritical carbon dioxide Brayton cycle/organic Rankine cycle dual loop for waste heat recovery of a diesel/natural gas dual-fuel engine. <i>Energy Conversion and Management</i> , 2019, 197, 111845.	4.4	70
14	An Investigation into the Limitations of Low Temperature District Heating on Traditional Tenement Buildings in Scotland. <i>Energies</i> , 2019, 12, 2603.	1.6	8
15	Experimental Investigation of a Small-Scale ORC Power Plant Using a Positive Displacement Expander with and without a Regenerator. <i>Energies</i> , 2019, 12, 1452.	1.6	4
16	District Heating Challenges for the UK. <i>Energies</i> , 2019, 12, 310.	1.6	37
17	A Waste Heat-Driven Cooling System Based on Combined Organic Rankine and Vapour Compression Refrigeration Cycles. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4242.	1.3	15
18	A regenerative supercritical-subcritical dual-loop organic Rankine cycle system for energy recovery from the waste heat of internal combustion engines. <i>Applied Energy</i> , 2017, 190, 574-590.	5.1	101

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19	Using a side-branched volume to tune the acoustic field in a looped-tube travelling-wave thermoacoustic engine with a RC load. <i>Energy Conversion and Management</i> , 2017, 150, 814-821.	4.4	17
20	Dynamic control strategy of a distillation system for a composition-adjustable organic Rankine cycle. <i>Energy</i> , 2017, 141, 1038-1051.	4.5	29
21	Investigation on efficiency improvement of a Kalina cycle by sliding condensation pressure method. <i>Energy Conversion and Management</i> , 2017, 151, 123-135.	4.4	27
22	Parametric optimization and heat transfer analysis of a dual loop ORC (organic Rankine cycle) system for CNG engine waste heat recovery. <i>Energy</i> , 2017, 118, 753-775.	4.5	65
23	Numerical investigation of a looped-tube traveling-wave thermoacoustic generator with a bypass pipe. <i>Energy Procedia</i> , 2017, 142, 1474-1481.	1.8	4
24	Numerical Analysis of an Organic Rankine Cycle with Adjustable Working Fluid Composition, a Volumetric Expander and a Recuperator. <i>Energies</i> , 2017, 10, 440.	1.6	10
25	A dynamic organic Rankine cycle using a zeotropic mixture as the working fluid with composition tuning to match changing ambient conditions. <i>Applied Energy</i> , 2016, 171, 581-591.	5.1	95
26	A numerical analysis of a composition-adjustable Kalina cycle power plant for power generation from low-temperature geothermal sources. <i>Applied Energy</i> , 2016, 180, 834-848.	5.1	56
27	Numerical investigation of a looped-tube travelling-wave thermoacoustic engine with a bypass pipe. <i>Energy</i> , 2016, 112, 111-120.	4.5	11
28	A two-stage traveling-wave thermoacoustic electric generator with loudspeakers as alternators. <i>Applied Energy</i> , 2015, 137, 9-17.	5.1	58
29	Experimental study of heat transfer in oscillatory gas flow inside a parallel-plate channel with imposed axial temperature gradient. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 1023-1032.	2.5	39
30	NUMERICAL ANALYSIS OF A THERMALLY DRIVEN THERMOACOUSTIC HEAT PUMP FOR LOW-GRADE HEAT RECOVERY. <i>Computational Thermal Sciences</i> , 2014, 6, 317-327.	0.5	4
31	Non-linear phenomena occurring during the start-up process of a travelling-wave looped-tube thermoacoustic engine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2012, 226, 822-836.	0.8	12
32	Travelling-wave thermoacoustic electricity generator using an ultra-compliant alternator for utilization of low-grade thermal energy. <i>Applied Energy</i> , 2012, 99, 135-145.	5.1	152
33	DEVELOPMENT OF EXPERIMENTAL METHODS TO CAPTURE THE UNSTEADY TEMPERATURE FIELD DISTRIBUTIONS IN THERMOACOUSTIC DEVICES. <i>Experimental Techniques</i> , 2011, 35, 68-75.	0.9	0
34	Design and experimental validation of looped-tube thermoacoustic engine. <i>Journal of Thermal Science</i> , 2011, 20, 423-429.	0.9	12
35	A method of characterising performance of audio loudspeakers for linear alternator applications in low-cost thermoacoustic electricity generators. <i>Applied Acoustics</i> , 2011, 72, 260-267.	1.7	30
36	Investigation into the Strouhal numbers associated with vortex shedding from parallel-plate thermoacoustic stacks in oscillatory flow conditions. <i>European Journal of Mechanics, B/Fluids</i> , 2011, 30, 206-217.	1.2	18

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37	Selection and experimental evaluation of low-cost porous materials for regenerator applications in thermoacoustic engines. <i>Materials & Design</i> , 2011, 32, 217-228.	5.1	51
38	Fishbone-like instability in a looped-tube thermoacoustic engine. <i>Journal of the Acoustical Society of America</i> , 2010, 128, EL188-EL194.	0.5	23
39	Impact of acoustic impedance and flow resistance on the power output capacity of the regenerators in travelling-wave thermoacoustic engines. <i>Energy Conversion and Management</i> , 2010, 51, 350-359.	4.4	52
40	Vortex shedding flow patterns and their transitions in oscillatory flows past parallel-plate thermoacoustic stacks. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 954-965.	1.5	34
41	Application of laser-based instrumentation for measurement of time-resolved temperature and velocity fields in the thermoacoustic system. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1688-1701.	2.6	36
42	Design of a Low-Cost Thermoacoustic Electricity Generator and Its Experimental Verification. , 2010, , .		2
43	Entrance effects in the channels of the parallel plate stack in oscillatory flow conditions. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 495-502.	1.5	33
44	Design and Testing of a Travelling-Wave Looped-Tube Engine for Low-Cost Electricity Generators in Remote and Rural Areas. , 2009, , .		6
45	PIV studies of coherent structures generated at the end of a stack of parallel plates in a standing wave acoustic field. <i>Experiments in Fluids</i> , 2008, 45, 833-846.	1.1	28
46	Experimental investigation on a thermoacoustic engine having a looped tube and resonator. <i>Cryogenics</i> , 2005, 45, 566-571.	0.9	37
47	Investigation on the oscillation modes in a thermoacoustic Stirling prime mover: mode stability and mode transition. <i>Cryogenics</i> , 2003, 43, 687-691.	0.9	27