Yangjun Zhang

List of Publications by Year
in descending order

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54	1,377	361413 20	361022 35
papers	citations	h-index	g-index

54	54	54	937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel cascade organic Rankine cycle (ORC) system for waste heat recovery of truck diesel engines. Energy Conversion and Management, 2017, 138, 210-223.	9.2	121
2	Dynamic thermal behavior of micro heat pipe array-air cooling battery thermal management system based on thermal network model. Applied Thermal Engineering, 2019, 162, 114183.	6.0	119
3	A review of heat transfer and thermal management methods for temperature gradient reduction in solid oxide fuel cell (SOFC) stacks. Applied Energy, 2020, 280, 115899.	10.1	103
4	A model predicting performance of proton exchange membrane fuel cell stack thermal systems. Applied Thermal Engineering, 2004, 24, 501-513.	6.0	84
5	A novel heat dissipation structure based on flat heat pipe for battery thermal management system. International Journal of Energy Research, 2022, 46, 15961-15980.	4.5	79
6	Progress and perspective of high strain NBT-based lead-free piezoceramics and multilayer actuators. Journal of Materiomics, 2021, 7, 508-544.	5.7	76
7	Study of two-stage turbine characteristic and its influence on turbo-compound engine performance. Energy Conversion and Management, 2015, 95, 414-423.	9.2	57
8	Parametric study of power turbine for diesel engine waste heat recovery. Applied Thermal Engineering, 2014, 67, 308-319.	6.0	50
9	Numerical study on steam injection in a turbocompound diesel engine for waste heat recovery. Applied Energy, 2017, 185, 506-518.	10.1	44
10	An Enhanced Online Temperature Estimation for Lithium-Ion Batteries. IEEE Transactions on Transportation Electrification, 2020, 6, 375-390.	7.8	42
11	An MPC-Based Control Strategy for Electric Vehicle Battery Cooling Considering Energy Saving and Battery Lifespan. IEEE Transactions on Vehicular Technology, 2020, 69, 14657-14673.	6.3	41
12	Comparative study on different water/steam injection layouts for fuel reduction in a turbocompound diesel engine. Energy Conversion and Management, 2018, 171, 1487-1501.	9.2	37
13	A Review of Thermal Designs for Improving Power Density in Electrical Machines. IEEE Transactions on Transportation Electrification, 2020, 6, 1386-1400.	7.8	36
14	Parametric study of a turbocompound diesel engine based on an analytical model. Energy, 2016, 115, 435-445.	8.8	35
15	Waste Heat Recovery of a PEMFC System by Using Organic Rankine Cycle. Energies, 2016, 9, 267.	3.1	29
16	Performance analysis and optimization of a novel cooling plate with non-uniform pin-fins for lithium battery thermal management. Applied Thermal Engineering, 2021, 194, 117022.	6.0	28
17	Characterization of two-stage turbine system under steady and pulsating flow conditions. Energy, 2018, 148, 407-423.	8.8	26
18	Optimization of an Electric Turbo Compounding System for Gasoline Engine Exhaust Energy Recovery. , 0, , .		25

#	Article	IF	Citations
19	An investigation on the performance of a Brayton cycle waste heat recovery system for turbocharged diesel engines. Journal of Mechanical Science and Technology, 2013, 27, 1721-1729.	1.5	23
20	A one-dimensional unsteady performance model for turbocharger turbines. Energy, 2017, 132, 341-355.	8.8	22
21	Unsteady Leakage Flow Through Axial Clearance of an ORC Scroll Expander. Energy Procedia, 2017, 129, 355-362.	1.8	22
22	The impact of a bilateral symmetric discharge structure on the performance of a scroll expander for ORC power generation system. Energy, 2018, 158, 458-470.	8.8	22
23	A resistance-based electro-thermal coupled model for an air-cooled battery pack that considers branch current variation. International Journal of Thermal Sciences, 2021, 159, 106611.	4.9	19
24	An Enhanced Electro-Thermal Model for EV Battery Packs Considering Current Distribution in Parallel Branches. IEEE Transactions on Power Electronics, 2022, 37, 1027-1043.	7.9	16
25	Modeling of Ducted-Fan and Motor in an Electric Aircraft and a Preliminary Integrated Design. SAE International Journal of Aerospace, 0, 11, 115-126.	4.0	15
26	An Online SOC-SOTD Joint Estimation Algorithm for Pouch Li-Ion Batteries Based on Spatio-Temporal Coupling Correction Method. IEEE Transactions on Power Electronics, 2022, 37, 7370-7386.	7.9	14
27	Local heat transfer enhancement by recirculation flows for temperature gradient reduction in a tubular SOFC. International Journal of Green Energy, 2022, 19, 1132-1147.	3.8	13
28	Local heat generation management for temperature gradient reduction in tubular solid oxide fuel cells. Applied Thermal Engineering, 2022, 211, 118453.	6.0	13
29	Research progress and future prospects of battery thermal management system based on heat pipe technology. Chinese Science Bulletin, 2019, 64, 682-693.	0.7	12
30	Thermal Performance of a Micro Heat Pipe Array for Battery Thermal Management Under Special Vehicle-Operating Conditions. Automotive Innovation, 2020, 3, 317-327.	5.1	11
31	An integrated turbocharger design approach to improve engine performance. Science China Technological Sciences, 2010, 53, 69-74.	4.0	10
32	Improving the Air-Cooling Performance for Battery Packs via Electrothermal Modeling and Particle Swarm Optimization. IEEE Transactions on Transportation Electrification, 2021, 7, 1285-1302.	7.8	10
33	Rankine cycle waste heat recovery for a heavy-duty natural gas engine meeting China VI emission standards. Applied Thermal Engineering, 2022, 202, 117886.	6.0	10
34	Qualitative assessment and global mapping of supercritical CO2 power cycle technology. Sustainable Energy Technologies and Assessments, 2021, 43, 100978.	2.7	9
35	A quasi-dynamic model and thermal analysis for vapor chambers with multiple heat sources based on thermal resistance network model. Case Studies in Thermal Engineering, 2022, 35, 102110.	5.7	9
36	Falling film on flexible wall in the limit of weak viscoelasticity. Journal of Non-Newtonian Fluid Mechanics, 2014, 210, 85-95.	2.4	8

#	Article	IF	Citations
37	Research on the Integrated Intercooler Intake System of Turbocharged Diesel Engine. International Journal of Automotive Technology, 2020, 21, 339-349.	1.4	8
38	Performance Improvement of a Centrifugal Compressor for the Fuel Cell Vehicle by Tip Leakage Vortex Control. Journal of Thermal Science, 2021, 30, 2099-2111.	1.9	8
39	Study on the Influence of Flat Heat Pipe Structural Parameters in Battery Thermal Management System. Frontiers in Energy Research, 2022, 9, .	2.3	8
40	Numerical study of a two-stage turbine characteristic under pulsating flow conditions. Journal of Mechanical Science and Technology, 2016, 30, 557-565.	1.5	7
41	Characteristic and regulation method of parallel turbocompound engine with steam injection for waste heat recovery. Energy, 2020, 208, 118422.	8.8	7
42	Falling film on a flexible wall in the presence of insoluble surfactant. Journal of Engineering Mathematics, 2016, 97, 33-48.	1.2	6
43	Thermal Field Analysis of Electric Propulsion Drive Motors with Flat Heat Pipe Cooling. , 2021, , .		6
44	Integrated System Simulation for Turbocharged IC Engines. , 2008, , .		5
45	Numerical Simulation of a Transonic Centrifugal Compressor Blades Tip Clearance Flow of Vehicle Turbocharger. , 2008, , .		5
46	Effects of pulse flow and leading edge sweep on mixed flow turbines for engine exhaust heat recovery. Science China Technological Sciences, 2011, 54, 295-301.	4.0	5
47	Unsteady Flow Loss Mechanism and Aerodynamic Improvement of Two-Stage Turbine under Pulsating Conditions. Entropy, 2019, 21, 985.	2.2	5
48	Design of a Centrifugal Compressor With Low Specific Speed for Automotive Fuel Cell. , 2008, , .		4
49	Adaptive flow optimization of a turbocharger compressor to improve engine low speed performance. Journal of Mechanical Science and Technology, 2013, 27, 1581-1587.	1.5	4
50	A method of turbocharger design optimization for a diesel engine with exhaust gas recirculation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2572-2584.	1.9	3
51	Numerical simulation of three-dimensional gas/liquid two-phase flow in a proton exchange membrane fuel cell. Frontiers of Energy and Power Engineering in China, 2007, 1, 305-310.	0.4	2
52	Experimental research on battery thermal management system based on vapor chamber technology. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2019, 49, 1023-1030.	0.5	2
53	Numerical Study of a Fuel Cell Air Management System with a Centrifugal Compressor and Surge Control. , 2008, , .		1
54	Cyclic coupling mechanisms in a novel turbo-piston combined cycle engine concept for heavy vehicle applications. Applied Thermal Engineering, 2022, 209, 118284.	6.0	1