

Yangjun Zhang

List of Publications by Year in descending order

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papers

1,377
citations

361413

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all docs

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docs citations

54
times ranked

937
citing authors

#	ARTICLE	IF	CITATIONS
1	An Enhanced Electro-Thermal Model for EV Battery Packs Considering Current Distribution in Parallel Branches. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 1027-1043.	7.9	16
2	Local heat transfer enhancement by recirculation flows for temperature gradient reduction in a tubular SOFC. <i>International Journal of Green Energy</i> , 2022, 19, 1132-1147.	3.8	13
3	Rankine cycle waste heat recovery for a heavy-duty natural gas engine meeting China VI emission standards. <i>Applied Thermal Engineering</i> , 2022, 202, 117886.	6.0	10
4	An Online SOC-SOTD Joint Estimation Algorithm for Pouch Li-Ion Batteries Based on Spatio-Temporal Coupling Correction Method. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 7370-7386.	7.9	14
5	Study on the Influence of Flat Heat Pipe Structural Parameters in Battery Thermal Management System. <i>Frontiers in Energy Research</i> , 2022, 9, .	2.3	8
6	Local heat generation management for temperature gradient reduction in tubular solid oxide fuel cells. <i>Applied Thermal Engineering</i> , 2022, 211, 118453.	6.0	13
7	Cyclic coupling mechanisms in a novel turbo-piston combined cycle engine concept for heavy vehicle applications. <i>Applied Thermal Engineering</i> , 2022, 209, 118284.	6.0	1
8	A quasi-dynamic model and thermal analysis for vapor chambers with multiple heat sources based on thermal resistance network model. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102110.	5.7	9
9	A novel heat dissipation structure based on flat heat pipe for battery thermal management system. <i>International Journal of Energy Research</i> , 2022, 46, 15961-15980.	4.5	79
10	A resistance-based electro-thermal coupled model for an air-cooled battery pack that considers branch current variation. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106611.	4.9	19
11	Progress and perspective of high strain NBT-based lead-free piezoceramics and multilayer actuators. <i>Journal of Materiomics</i> , 2021, 7, 508-544.	5.7	76
12	Qualitative assessment and global mapping of supercritical CO2 power cycle technology. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100978.	2.7	9
13	Performance Improvement of a Centrifugal Compressor for the Fuel Cell Vehicle by Tip Leakage Vortex Control. <i>Journal of Thermal Science</i> , 2021, 30, 2099-2111.	1.9	8
14	Performance analysis and optimization of a novel cooling plate with non-uniform pin-fins for lithium battery thermal management. <i>Applied Thermal Engineering</i> , 2021, 194, 117022.	6.0	28
15	Improving the Air-Cooling Performance for Battery Packs via Electrothermal Modeling and Particle Swarm Optimization. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 1285-1302.	7.8	10
16	Thermal Field Analysis of Electric Propulsion Drive Motors with Flat Heat Pipe Cooling. , 2021, , .		6
17	A review of heat transfer and thermal management methods for temperature gradient reduction in solid oxide fuel cell (SOFC) stacks. <i>Applied Energy</i> , 2020, 280, 115899.	10.1	103
18	Characteristic and regulation method of parallel turbocompound engine with steam injection for waste heat recovery. <i>Energy</i> , 2020, 208, 118422.	8.8	7

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19	Thermal Performance of a Micro Heat Pipe Array for Battery Thermal Management Under Special Vehicle-Operating Conditions. <i>Automotive Innovation</i> , 2020, 3, 317-327.	5.1	11
20	A Review of Thermal Designs for Improving Power Density in Electrical Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 1386-1400.	7.8	36
21	An Enhanced Online Temperature Estimation for Lithium-Ion Batteries. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 375-390.	7.8	42
22	Research on the Integrated Intercooler Intake System of Turbocharged Diesel Engine. <i>International Journal of Automotive Technology</i> , 2020, 21, 339-349.	1.4	8
23	An MPC-Based Control Strategy for Electric Vehicle Battery Cooling Considering Energy Saving and Battery Lifespan. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 14657-14673.	6.3	41
24	Dynamic thermal behavior of micro heat pipe array-air cooling battery thermal management system based on thermal network model. <i>Applied Thermal Engineering</i> , 2019, 162, 114183.	6.0	119
25	Unsteady Flow Loss Mechanism and Aerodynamic Improvement of Two-Stage Turbine under Pulsating Conditions. <i>Entropy</i> , 2019, 21, 985.	2.2	5
26	A method of turbocharger design optimization for a diesel engine with exhaust gas recirculation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 2572-2584.	1.9	3
27	Research progress and future prospects of battery thermal management system based on heat pipe technology. <i>Chinese Science Bulletin</i> , 2019, 64, 682-693.	0.7	12
28	Experimental research on battery thermal management system based on vapor chamber technology. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019, 49, 1023-1030.	0.5	2
29	Characterization of two-stage turbine system under steady and pulsating flow conditions. <i>Energy</i> , 2018, 148, 407-423.	8.8	26
30	Comparative study on different water/steam injection layouts for fuel reduction in a turbocompound diesel engine. <i>Energy Conversion and Management</i> , 2018, 171, 1487-1501.	9.2	37
31	The impact of a bilateral symmetric discharge structure on the performance of a scroll expander for ORC power generation system. <i>Energy</i> , 2018, 158, 458-470.	8.8	22
32	A novel cascade organic Rankine cycle (ORC) system for waste heat recovery of truck diesel engines. <i>Energy Conversion and Management</i> , 2017, 138, 210-223.	9.2	121
33	A one-dimensional unsteady performance model for turbocharger turbines. <i>Energy</i> , 2017, 132, 341-355.	8.8	22
34	Unsteady Leakage Flow Through Axial Clearance of an ORC Scroll Expander. <i>Energy Procedia</i> , 2017, 129, 355-362.	1.8	22
35	Numerical study on steam injection in a turbocompound diesel engine for waste heat recovery. <i>Applied Energy</i> , 2017, 185, 506-518.	10.1	44
36	Waste Heat Recovery of a PEMFC System by Using Organic Rankine Cycle. <i>Energies</i> , 2016, 9, 267.	3.1	29

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37	Parametric study of a turbocompound diesel engine based on an analytical model. Energy, 2016, 115, 435-445.	8.8	35
38	Falling film on a flexible wall in the presence of insoluble surfactant. Journal of Engineering Mathematics, 2016, 97, 33-48.	1.2	6
39	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
40	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
41	Falling film on flexible wall in the limit of weak viscoelasticity. Journal of Non-Newtonian Fluid Mechanics, 2014, 210, 85-95.	2.4	8
42	Parametric study of power turbine for diesel engine waste heat recovery. Applied Thermal Engineering, 2014, 67, 308-319.	6.0	50
43	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
44	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
45	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
46	An integrated turbocharger design approach to improve engine performance. Science China Technological Sciences, 2010, 53, 69-74.	4.0	10
47	Design of a Centrifugal Compressor With Low Specific Speed for Automotive Fuel Cell. , 2008, , .		4
48	Numerical Study of a Fuel Cell Air Management System with a Centrifugal Compressor and Surge Control. , 2008, , .		1
49	Integrated System Simulation for Turbocharged IC Engines. , 2008, , .		5
50	Numerical Simulation of a Transonic Centrifugal Compressor Blades Tip Clearance Flow of Vehicle Turbocharger. , 2008, , .		5
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	A model predicting performance of proton exchange membrane fuel cell stack thermal systems. Applied Thermal Engineering, 2004, 24, 501-513.	6.0	84
53	Optimization of an Electric Turbo Compounding System for Gasoline Engine Exhaust Energy Recovery. , 0, , .		25
54	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