

Gaowen Liu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

223
citations

933447

10
h-index

1058476

14
g-index

27
all docs

27
docs citations

27
times ranked

58
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental testing for the influences of rotation and tip clearance on the labyrinth seal in a compressor stator well. <i>Aerospace Science and Technology</i> , 2017, 71, 556-567.	4.8	33
2	Prediction of the sealing flow effect on the temperature drop characteristics of a pre-swirl system in an aero-engine. <i>Applied Thermal Engineering</i> , 2021, 189, 116717.	6.0	22
3	Evaluation and analysis of evaporation cooling on thermodynamic and pressure characteristics of intake air in a precooled turbine engine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24410-24424.	7.1	20
4	Comprehensive evaluations on performance and energy consumption of pre-swirl rotor-stator system in gas turbine engines. <i>Energy Conversion and Management</i> , 2021, 244, 114440.	9.2	17
5	Theoretical and experimental evaluation of temperature drop and power consumption in a cover-plate pre-swirl system for gas turbine cooling. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101221.	5.7	16
6	Aerodynamic and thermodynamic analysis of an aero-engine pre-swirl system based on structure design and performance improvement. <i>Aerospace Science and Technology</i> , 2022, 123, 107466.	4.8	14
7	Experimental and CFD analysis on the pressure ratio and entropy increment in a cover-plate pre-swirl system of gas turbine engine. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 476-489.	3.1	13
8	Experimental Testing and Numerical Analysis on the Nozzle Effects in Preswirl System. <i>Journal of Propulsion and Power</i> , 2018, 34, 1015-1025.	2.2	12
9	Numerical analysis of air supply parameters and non-uniform characteristics in a cover-plate pre-swirl system with the adjustable flow path. <i>International Journal of Energy Research</i> , 2021, 45, 8763-8779.	4.5	12
10	Comprehensive investigations on fluid flow and heat transfer characteristics of a high-speed rotating turbine disk cavity system of aero-engine. <i>International Communications in Heat and Mass Transfer</i> , 2022, 136, 106170.	5.6	10
11	Effects of rotational speed on the leakage behavior, temperature increase, and swirl development of labyrinth seal in a compressor stator well. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Aerospace Engineering</i> , 2017, 231, 2362-2374.	1.3	7
12	Design and Numerical Analysis of a Vane Shaped Receiver Hole in a Cover-Plate Preswirl System. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	7
13	Theoretical and Numerical Analysis on the Temperature Drop and Power Consumption of a Pre-Swirl System. , 2016, , .		6
14	Performance evaluation of the inter-stage labyrinth seal for different tooth positions in an axial compressor. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 579-592.	1.4	5
15	Measurement of Pressures and Temperatures in a Cover-Plate Pre-Swirl System. , 2018, , .		5
16	Experimental investigations on flow and heat transfer characteristics in a high-speed rotor-stator disk cavity with axial throughflow. <i>Applied Thermal Engineering</i> , 2022, 214, 118630.	6.0	5
17	Design and Numerical Analysis of a New Type of Pre-Swirl Nozzle. , 2016, , .		4
18	Investigation on the Leakage Flow, Windage Heating and Swirl Development of Rotating Labyrinth Seal in a Compressor Stator Well. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	Attempts on the Reduction of Leakage Flow Through the Stator Well in an Axial Compressor. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	3
20	Effect of pre-swirl nozzle closure modes on unsteady flow and heat transfer characteristics in a pre-swirl system of aero-engine. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 685-703.	1.3	3
21	A new design of vane-shaped hole pre-swirl nozzle. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 14-24.	1.4	2
22	Comprehensive evaluations of heat transfer performance with conjugate heat dissipation effect in high-speed rotating free-disk system of aero-engines. Fundamental Research, 2022, , .	3.3	1
23	Numerical Analysis on the Flow Characteristics of Rotating Axial Orifices under Non-rotation Method. , 2018, , .		0
24	Experimental and Numerical Investigations on the Flow Characteristics of Tower-type Labyrinth Seal in a Compressor Stator Well. , 2019, , .		0
25	Experimental Analysis of Clearance Leakage Characteristics at Blade Edge Plates of a Gas Turbine Engine. Energies, 2022, 15, 2303.	3.1	0