

# Jie Gao

## List of Publications by Year in descending order

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44  
papers

369  
citations

840776

11  
h-index

888059

17  
g-index

44  
all docs

44  
docs citations

44  
times ranked

265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugate heat transfer analysis of leading edge and downstream mist-air film cooling on turbine vane. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 613-626.	4.8	39
2	Characterization of a salt-tolerant bacterium <i>Bacillus</i> sp. from a membrane bioreactor for saline wastewater treatment. <i>Journal of Environmental Sciences</i> , 2014, 26, 1369-1374.	6.1	34
3	Aerothermal characteristics of a transonic tip flow in a turbine cascade with tip clearance variations. <i>Applied Thermal Engineering</i> , 2016, 107, 271-283.	6.0	29
4	Numerical Simulation on Turbine Blade Leading-Edge High-Efficiency Film Cooling by the Application of Water Mist. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 1341-1364.	2.1	26
5	Aero-thermal performance improvements of unshrouded turbines through management of tip leakage and injection flows. <i>Energy</i> , 2014, 69, 648-660.	8.8	21
6	Inlet conditions effect on tip leakage vortex breakdown in unshrouded axial turbines. <i>Energy</i> , 2015, 91, 255-263.	8.8	21
7	Investigation on film cooling with swirling coolant flow by optimizing the inflow chamber. <i>International Communications in Heat and Mass Transfer</i> , 2017, 88, 99-107.	5.6	18
8	Reduction of Tip Clearance Losses in an Unshrouded Turbine by Rotor Casing Contouring. <i>Journal of Propulsion and Power</i> , 2012, 28, 936-945.	2.2	15
9	Experimental and numerical investigations of tip clearance flow and loss in a variable geometry turbine cascade. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 157-169.	1.4	15
10	Experimental and numerical investigations of trailing edge injection in a transonic turbine cascade. <i>Aerospace Science and Technology</i> , 2019, 92, 258-268.	4.8	13
11	The Design and Its Application in Secure Communication and Image Encryption of a New Lorenz-Like System with Varying Parameter. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-11.	1.1	11
12	Effects of flow incidence on aerothermal performance of transonic blade tip clearance flows. <i>Energy</i> , 2017, 139, 196-209.	8.8	11
13	Effect of honeycomb seals on loss characteristics in shroud cavities of an axial turbine. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2013, 26, 69-77.	3.7	10
14	Control of Tip Leakage Vortex Breakdown by Tip Injection in Unshrouded Turbines. <i>Journal of Propulsion and Power</i> , 2014, 30, 1510-1519.	2.2	10
15	Control of shroud leakage flows to reduce mixing losses in a shrouded axial turbine. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 1263-1277.	2.1	9
16	Numerical analysis of flows and aerodynamic forces in honeycomb and labyrinth seals. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 1965-1979.	2.1	9
17	Performance improvement of shrouded turbines with the management of casing endwall interaction flows. <i>Energy</i> , 2014, 75, 430-442.	8.8	8
18	Comparative investigation of unsteady flow interactions in endwall regions of shrouded and unshrouded turbines. <i>Computers and Fluids</i> , 2014, 105, 204-217.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Effect of axially non-uniform rotor tip clearance on aerodynamic performance of an unshrouded axial turbine. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 231-244.	1.4	7
20	Conjugate heat transfer simulation of turbine blade high efficiency cooling method with mist injection. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2738-2749.	2.1	6
21	Improved clearance designs to minimize aerodynamic losses in a variable geometry turbine vane cascade. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3085-3101.	2.1	6
22	Comparative investigation of tip leakage flow and its effect on stage performance in shrouded and unshrouded turbines. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2013, 227, 1265-1276.	1.3	5
23	Variable Geometry Design of a High Endwall Angle Power Turbine for Marine Gas Turbines. , 2015, , .		5
24	The Comparative Study Between Swirl and Impingement of Mist/Air Cooling on Blade Leading Edge. , 2015, , .		4
25	Effects of blade rotation on axial turbine tip leakage vortex breakdown and loss. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 1634-1649.	1.3	4
26	Experimental Investigation of Aerodynamic Performance of a Turbine Cascade with Trailing-Edge Injection. Journal of Aerospace Engineering, 2017, 30, 04017074.	1.4	4
27	Experimental and numerical investigations of hole injection on the suction side throat of transonic turbine vanes in a cascade with trailing edge injection. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 1454-1466.	1.3	4
28	Advances in axial turbine blade profile aerodynamics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 652-669.	2.1	3
29	Experimental Investigation of Effects of Tip Cavity on Tip Clearance Flow in a Variable-Geometry Turbine Cascade. Journal of Aerospace Engineering, 2017, 30, 04016069.	1.4	2
30	Advances in aerodynamic, structural design and test technology of variable geometry turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 364-390.	1.4	2
31	Advances in coupled axial turbine and nonaxisymmetric exhaust volute aerodynamics for turbomachinery. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 981-993.	1.3	2
32	Study of Viscous Controlled Vortex Design of a LP Turbine Stage. , 2010, , .		1
33	Reduction of turbine tip clearance losses at design and off-design incidences by non-uniform tip injection. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2014, 228, 889-902.	1.4	1
34	Experimental Investigation on the Annular Sector Cascade of a High Endwall-Angle Turbine. , 2016, , .		1
35	Flow Interactions Between Shrouded Power Turbine and Nonaxisymmetric Exhaust Volute for Marine Gas Turbines. , 2017, , .		1
36	Numerical Investigation on a High Endwall Angle Turbine With Swept-Curved Vanes. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Reduction of aerodynamic forces on turbine blading by asymmetric layout of struts based on flow interaction between rotor-strut-volute. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 974-987.	1.4	1
38	Advances in variable geometry turbine aerodynamic technology for gas turbines. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2018, 48, 1141-1150.	0.5	1
39	Analysis of Flow Field and Loss Characteristics of High Endwall Angle Variable-geometry Power Turbine. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2017, 53, 193.	0.5	1
40	Feasibility Study of Incorporating Flow Unsteadiness in Control of Secondary Flows in Shrouded Turbines. , 2013, , .		0
41	Research on Film Cooling Mechanism of Vortex Reconstruction Induced by Swirling Coolant Flow. , 2017, , .		0
42	Steady and unsteady numerical investigation of flow interaction between low-pressure turbine blade, intermediate turbine duct and power turbine vane. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4312-4331.	2.1	0
43	Numerical Simulation of ITD Flows in the Presence of HP Blade and LP Vane. , 2018, , .		0
44	Numerical Investigation on Aerodynamic Characteristics of Variable Geometry Turbine Vane Cascade for Marine Gas Turbines. , 2020, , .		0