

A.M. Pradeep

List of Publications by Year in descending order

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79
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citations

687363

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79
all docs

79
docs citations

79
times ranked

278
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance deterioration of axial compressor rotor due to uniform and non-uniform surface roughness. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 2687-2707.	1.3	2
2	Response of a Tandem-Staged Compressor to Circumferential Inflow Distortion. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	0
3	Transient nature of secondary vortices in an axial compressor stage with a tandem rotor. Physics of Fluids, 2022, 34, .	4.0	12
4	Influence of distorted inflows on the performance of a contra-rotating fan. Aeronautical Journal, 2021, 125, 702-719.	1.6	0
5	Windmilling Characteristics of a Contra-Rotating Fan. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
6	Experimental investigation of tandem rotor under clean and radially distorted inflows. Propulsion and Power Research, 2021, , .	4.3	6
7	Design and off-design behavior of a tandem rotor stage. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 927-942.	1.3	12
8	Stall inception mechanisms in a contra-rotating fan operating at different speed combinations. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 1041-1052.	1.4	8
9	The effect of inlet distortion on low bypass ratio turbofan engines. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 1395-1413.	1.3	3
10	Stall inception in a contra-rotating fan under radially distorted inflows. Aerospace Science and Technology, 2020, 105, 105909.	4.8	8
11	Windmilling Characteristics of a Contra-Rotating Fan. , 2020, , .		0
12	Pre-Stall Waves: Precursors to Stall Inception in a Contra-Rotating Axial Fan. , 2020, , .		1
13	Understanding Unsteady Flow Behaviour in a Low Aspect Ratio Contra-Rotating Axial Fan Under Radially Distorted Inflow. , 2019, , .		0
14	Flow Interactions in Low Bypass Ratio Multi-Spool Turbofan Engines. , 2019, , .		1
15	Performance Evaluation of Contra-Rotating Fans Operating Under Different Speed Combinations. , 2019, , .		1
16	Performance Evaluation of a Tandem Rotor Under Design and Off-Design Operation. , 2018, , .		5
17	Effect of Tandem Blading in Contra-Rotating Axial Flow Fans. , 2018, , .		0
18	Simulation of a temperature drop for the flow of rarefied gases in microchannels. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1066-1079.	2.1	13

#	ARTICLE	IF	CITATIONS
19	Experimental Investigation of Stall Inception and its Propagation in a Contra Rotating Axial Fan Under Radial Inflow Distortion. , 2017, , .		1
20	Effect of Spanwise Variation of Chord on the Performance of a Turbine Cascade. , 2017, , .		0
21	Experimental investigation of stall inception of a low speed contra rotating axial flow fan under circumferential distorted flow condition. Aerospace Science and Technology, 2017, 70, 534-548.	4.8	25
22	Improvement of effectiveness of EMHD flow separation control. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3947-3963.	1.6	7
23	Experimental assessment on effect of lower porosities of bend skewed casing treatment on the performance of high speed compressor stage with tip critical rotor characteristics. Aerospace Science and Technology, 2017, 60, 193-202.	4.8	18
24	Stability management of high speed axial flow compressor stage through axial extensions of bend skewed casing treatment. Propulsion and Power Research, 2016, 5, 236-249.	4.3	8
25	Study of Effects of Rotor Tip Tailoring in Axial Flow Compressors. , 2015, , .		1
26	Influence of Tip Jet Mass Flow and Blowing Rate on the Performance of an Axial Diffuser at Different Inlet Total Pressure Profiles. , 2015, , .		1
27	Experimental Investigation of Stall Inception Mechanisms of Low Speed Contra Rotating Axial Flow Fan Stage. International Journal of Rotating Machinery, 2015, 2015, 1-14.	0.8	9
28	Benefits of Nonaxisymmetric Endwall Contouring in a Compressor Cascade With a Tip Clearance. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	17
29	Low Mach number slip flow through diverging microchannel. Computers and Fluids, 2015, 111, 46-61.	2.5	35
30	Slip flow through a converging microchannel: experiments and 3D simulations. Journal of Micromechanics and Microengineering, 2015, 25, 025015.	2.6	14
31	Propagation of Different Types of Inflow Distortions through a Contra Rotating Fan Stage. International Journal of Turbo and Jet Engines, 2015, 32, .	0.7	0
32	Early onset of flow separation with rarefied gas flowing in a 90° bend tube. Experimental Thermal and Fluid Science, 2015, 66, 221-234.	2.7	9
33	Velocity measurement in low Reynolds and low Mach number slip flow through a tube. Experimental Thermal and Fluid Science, 2015, 60, 284-289.	2.7	5
34	Study of temperature drop in microchannel using direct simulation Monte Carlo method. , 2014, , .		3
35	Experimental Study of the Effect of Radially Distorted Inflow on a Contrarotating Fan Stage. International Journal of Rotating Machinery, 2014, 2014, 1-14.	0.8	5
36	Improvement of Moderately Loaded Transonic Axial Compressor Performance Using Low Porosity Bend Skewed Casing Treatment. International Journal of Rotating Machinery, 2014, 2014, 1-14.	0.8	5

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37	Influence of Circumferential Inflow Distortion on the Performance of a Low Speed, High Aspect Ratio Contra Rotating Axial Fan. Journal of Turbomachinery, 2014, 136, .	1.7	22
38	Behaviour of rarefied gas flow near the junction of a suddenly expanding tube. Journal of Fluid Mechanics, 2014, 739, 363-391.	3.4	38
39	Experimental study of rarefied gas flow near sudden contraction junction of a tube. Physics of Fluids, 2014, 26, .	4.0	17
40	Experimental investigation of a high aspect ratio, low speed contra-rotating fan stage with complex inflow distortion. Propulsion and Power Research, 2014, 3, 68-81.	4.3	9
41	Performance Characterization of the Effect of Axial Positioning of Bend Skewed Casing Treatment Retrofitted to a Transonic Axial Flow Compressor. , 2014, , .		5
42	Experimental Investigation on the Effect of Porosity of Bend Skewed Casing Treatment on a Single Stage Transonic Axial Flow Compressor. , 2014, , .		2
43	On Understanding the Effect of Plenum Chamber of a Bend Skewed Casing Treatment on the Performance of a Transonic Axial Flow Compressor. , 2014, , .		3
44	Investigations on Stator Hub End Losses and its Control in an Axial Flow Compressor. , 2014, , .		5
45	Understanding the Steady and Transient Behavior of the Moderately Loaded High Speed Axial Flow Compressor Stage at Off-Design Conditions. , 2014, , .		0
46	Non-Axisymmetric Endwall Contouring in a Compressor Cascade With Tip Gap. , 2014, , .		0
47	Investigation of the Shear Flow Effect on Secondary Flow and Losses in a Low Speed Axial Flow Compressor Cascade. International Journal of Gas Turbine, Propulsion and Power Systems, 2014, 6, 17-26.	0.4	0
48	Effect of Geometry Changes in an Aggressive Turbine Exhaust Delivery System. , 2013, , .		0
49	Effect of variation in axial spacing and rotor speed combinations on the performance of a high aspect ratio contra-rotating axial fan stage. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2013, 227, 138-146.	1.4	36
50	Investigation of the Shear Flow Effect and Tip Clearance on a Low Speed Axial Flow Compressor Cascade. International Journal of Rotating Machinery, 2013, 2013, 1-22.	0.8	1
51	Investigations on the Effect of Inflow Distortion on the Performance of a High Aspect Ratio, Low Speed Contra Rotating Fan Stage. , 2013, , .		7
52	Study of the Velocity Flow Field Under Distorted Inflow Conditions for a High Aspect Ratio Low Speed Contra Rotating Fan. , 2013, , .		2
53	Numerical Investigation of the Effect of Moving Endwall and Tip Clearance on the Losses in a Low Speed Axial Flow Compressor Cascade. , 2013, , .		4
54	Experimental Studies on Stall Behavior in a Single Stage Transonic Axial Flow Compressor. , 2013, , .		0

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55	Effect of Speed Ratio and Axial Spacing Variations on the Performance of a High Aspect Ratio, Low Speed Contra-Rotating Fan. , 2012, , .		2
56	Boundary Layer Control in Turbine Exhaust Diffusers Using Casing Injection and Design Modifications. , 2012, , .		0
57	Understanding the Flow Behavior in a Low Hub-Tip Ratio, High Aspect Ratio Contra-Rotating Axial Fan Stage. , 2012, , .		0
58	Effect of Turbine Tip Leakage Flows on Exhaust Diffuser Performance. , 2011, , .		6
59	Active feedback control of stall in an axial flow fan under dynamic inflow distortion. Experimental Thermal and Fluid Science, 2011, 35, 1135-1142.	2.7	11
60	Theoretical analysis of the effect of water and ethanol injection on axial compressor instabilities. Applied Thermal Engineering, 2011, 31, 1703-1711.	6.0	1
61	Study of Gas Turbine Exhaust Diffuser Performance and Its Enhancement by Shape Modifications. , 2010, , .		1
62	Theoretical Analysis of Rotating Stall Under Static Inflow Distortion Including Effect of Tip Injection. International Journal of Turbo and Jet Engines, 2010, 27, .	0.7	4
63	Thermal Stress Induced by Inclined Impinging Heating Jet on a Flat Plate. Journal of Thermophysics and Heat Transfer, 2010, 24, 218-222.	1.6	1
64	Stall inception and its control in an axial flow fan under dynamic inflow distortion. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 383-398.	1.4	6
65	Stall Inception Mechanism in an Axial Flow Fan Under Clean and Distorted Inflows. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	17
66	Study of Tip Flows in High Hub-to-Tip Ratio Axial Compressors at Low Speed With Varying Tip Gaps, Inflow Conditions and Tip Shapes. , 2010, , .		0
67	Tip injection as a means for rotating stall control in an axial flow fan. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 55-70.	1.4	4
68	Asymmetric entrainment effect on the local surface temperature of a flat plate heated by an obliquely impinging two-dimensional jet. International Journal of Heat and Mass Transfer, 2009, 52, 5250-5257.	4.8	18
69	Boundary Layer Control in a Compressor Cascade Using Distributed Suction. , 2008, , .		0
70	Active Flow Control in Circular and Transitioning S-duct Diffusers. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 1192-1203.	1.5	9
71	Active Separation Control in Circular and Transitioning S-Duct Diffusers Using Vortex Generator Jets. , 2006, , .		0
72	Detection of separation in S-duct diffusers using shear sensitive liquid crystals. Journal of Visualization, 2004, 7, 299-307.	1.8	6

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73	Secondary Flow Control Using Vortex Generator Jets. Journal of Fluids Engineering, Transactions of the ASME, 2004, 126, 650-657.	1.5	19
74	Application of Boundary Layer Fences and Vortex Generators in Improving Performance of S-Duct Diffusers. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 136-142.	1.5	42
75	Effect of Rotor Tip Gap Variation at the Rear Stages of an Axial Flow Compressor. Applied Mechanics and Materials, 0, 225, 233-238.	0.2	1
76	Design methodology of a highly loaded tandem rotor and its performance analysis under clean and distorted inflows. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110160.	2.1	4
77	Effect of radial inflow distortion on the performance of a highly loaded tandem stage. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 0, , 095765092110316.	1.4	1
78	Flow Characteristics in an Inter-Turbine Duct Under Off Design Conditions. , 0, , .		0
79	Spike type of stall inception in the tandem rotor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622211046.	2.1	0