

John W Chew

List of Publications by Year in descending order

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153
citing authors

#	ARTICLE	IF	CITATIONS
1	Ekman Layer Scrubbing and Shroud Heat Transfer in Centrifugal Buoyancy-Driven Convection. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	11
2	Transient Aero-Thermo-Mechanical Multidimensional Analysis of a High Pressure Turbine Assembly Through a Square Cycle. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	5
3	Wall-Modeled Large Eddy Simulations of Axial Turbine Rim Sealing. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	8
4	Performance of a Turbine Rim Seal Subject to Rotationally-Driven and Pressure-Driven Ingestion. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	3
5	Evaluation and application of advanced CFD models for rotating disc flows. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 6847-6864.	2.1	11
6	Sealing Performance of a Turbine Rim Chute Seal Under Rotationally-Induced Ingestion. Journal of Physics: Conference Series, 2021, 1909, 012035.	0.4	2
7	Flow and Ingestion in a Turbine Disc Cavity under Rotationally-Dominated Conditions. International Journal of Turbomachinery, Propulsion and Power, 2021, 6, 29.	1.1	1
8	Numerical investigation of buoyancy-induced flow in a sealed rapidly rotating disc cavity. International Journal of Heat and Mass Transfer, 2020, 147, 118860.	4.8	21
9	Inertial waves in turbine rim seal flows. Physical Review Fluids, 2020, 5, .	2.5	27
10	The Effect of Inlet Swirl on Brush Seal Bristle Deflections and Stability. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	4
11	Effect of an axial throughflow on buoyancy-induced flow in a rotating cavity. International Journal of Heat and Fluid Flow, 2019, 80, 108468.	2.4	22
12	Large-Eddy Simulation of Buoyancy-Induced Flow in a Sealed Rotating Cavity. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	17
13	Heat Transfer Prediction From Large Eddy Simulation of a Rotating Cavity With Radial Inflow. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	3
14	Flow mechanisms in axial turbine rim sealing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 7637-7657.	2.1	31
15	Large-eddy simulation of unsteady turbine rim sealing flows. International Journal of Heat and Fluid Flow, 2018, 70, 160-170.	2.4	25
16	Large-Eddy Simulation of Buoyancy-Induced Flow in a Sealed Rotating Cavity. , 2018, , .		3
17	Direct Numerical Simulation of Rotating Cavity Flows Using a Spectral Element-Fourier Method. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	22
18	Onset of convection induced by centrifugal buoyancy in a rotating cavity. Journal of Fluid Mechanics, 2017, 826, 484-502.	3.4	23

#	ARTICLE	IF	CITATIONS
19	Coupled Aerothermal Modeling of a Rotating Cavity With Radial Inflow. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	17
20	LES Validation for a Rotating Cylindrical Cavity With Radial Inflow. , 2016, , .		3
21	Velocity pick-up and discharge coefficient for round orifices with cross flow at inlet. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2728-2737.	2.1	0
22	Rotating Flow and Heat Transfer in Cylindrical Cavities With Radial Inflow. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	12
23	CFD Analysis of Flow and Heat Transfer in a Direct Transfer Preswirl System. Journal of Turbomachinery, 2012, 134, .	1.7	20
24	Efficient Finite Element Analysis/Computational Fluid Dynamics Thermal Coupling for Engineering Applications. Journal of Turbomachinery, 2010, 132, .	1.7	45
25	Automatic Optimization of Preswirl Nozzle Design. Journal of Engineering for Gas Turbines and Power, 2007, 129, 387-393.	1.1	15
26	LES and RANS Investigations Into Buoyancy-Affected Convection in a Rotating Cavity With a Central Axial Throughflow. Journal of Engineering for Gas Turbines and Power, 2007, 129, 318-325.	1.1	25
27	Computational fluid dynamics for turbomachinery internal air systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2587-2611.	3.4	34
28	LES and RANS Investigations Into Buoyancy-Affected Convection in a Rotating Cavity With a Central Axial Throughflow. , 2006, , 1355.		11
29	Combined Three-Dimensional Fluid Dynamics and Mechanical Modeling of Brush Seals. Journal of Turbomachinery, 2006, 128, 188-195.	1.7	22
30	Numerical Simulation of Three-Dimensional Bristle Bending in Brush Seals. Journal of Engineering for Gas Turbines and Power, 2005, 127, 583-591.	1.1	10
31	Numerical Simulation of Natural Convection in Stationary and Rotating Cavities. , 2004, , 381.		26
32	Numerical Simulation of 3D Bristle Bending in Brush Seals. , 2004, , 277.		9
33	ICAS-GT: A European Collaborative Research Programme on Internal Cooling Air Systems for Gas Turbines. , 2002, , 907.		25
34	Experimental Investigation and Mathematical Modelling of Clearance Brush Seals. , 1997, , .		13
35	An integral method for the calculation of turbulent forced convection in a rotating cavity with radial outflow. International Journal of Heat and Fluid Flow, 1988, 9, 37-48.	2.4	15
36	Computation of convective laminar flow in rotating cavities. Journal of Fluid Mechanics, 1985, 153, 339.	3.4	26