

John W Chew

List of Publications by Year in descending order

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36
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153
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Efficient Finite Element Analysis/Computational Fluid Dynamics Thermal Coupling for Engineering Applications. Journal of Turbomachinery, 2010, 132, . | 1.7 | 45 |
| 2 | Computational fluid dynamics for turbomachinery internal air systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2587-2611. | 3.4 | 34 |
| 3 | 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 |
| 4 | Inertial waves in turbine rim seal flows. Physical Review Fluids, 2020, 5, . | 2.5 | 27 |
| 5 | Computation of convective laminar flow in rotating cavities. Journal of Fluid Mechanics, 1985, 153, 339. | 3.4 | 26 |
| 6 | Numerical Simulation of Natural Convection in Stationary and Rotating Cavities. , 2004, , 381. | | 26 |
| 7 | ICAS-GT: A European Collaborative Research Programme on Internal Cooling Air Systems for Gas Turbines. , 2002, , 907. | | 25 |
| 8 | 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 |
| 9 | Large-eddy simulation of unsteady turbine rim sealing flows. International Journal of Heat and Fluid Flow, 2018, 70, 160-170. | 2.4 | 25 |
| 10 | Onset of convection induced by centrifugal buoyancy in a rotating cavity. Journal of Fluid Mechanics, 2017, 826, 484-502. | 3.4 | 23 |
| 11 | Combined Three-Dimensional Fluid Dynamics and Mechanical Modeling of Brush Seals. Journal of Turbomachinery, 2006, 128, 188-195. | 1.7 | 22 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | CFD Analysis of Flow and Heat Transfer in a Direct Transfer Preswirl System. Journal of Turbomachinery, 2012, 134, . | 1.7 | 20 |
| 16 | Coupled Aerothermal Modeling of a Rotating Cavity With Radial Inflow. Journal of Engineering for Gas Turbines and Power, 2016, 138, . | 1.1 | 17 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Automatic Optimization of Preswirl Nozzle Design. Journal of Engineering for Gas Turbines and Power, 2007, 129, 387-393. | 1.1 | 15 |
| 20 | Experimental Investigation and Mathematical Modelling of Clearance Brush Seals. , 1997, , . | | 13 |
| 21 | Rotating Flow and Heat Transfer in Cylindrical Cavities With Radial Inflow. Journal of Engineering for Gas Turbines and Power, 2013, 135, . | 1.1 | 12 |
| 22 | LES and RANS Investigations Into Buoyancy-Affected Convection in a Rotating Cavity With a Central Axial Throughflow. , 2006, , 1355. | | 11 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Numerical Simulation of 3D Bristle Bending in Brush Seals. , 2004, , 277. | | 9 |
| 27 | Wall-Modeled Large Eddy Simulations of Axial Turbine Rim Sealing. Journal of Engineering for Gas Turbines and Power, 2021, 143, . | 1.1 | 8 |
| 28 | 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 |
| 29 | 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 |
| 30 | LES Validation for a Rotating Cylindrical Cavity With Radial Inflow. , 2016, , . | | 3 |
| 31 | Large-Eddy Simulation of Buoyancy-Induced Flow in a Sealed Rotating Cavity. , 2018, , . | | 3 |
| 32 | 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 |
| 33 | 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 |
| 34 | Sealing Performance of a Turbine Rim Chute Seal Under Rotationally-Induced Ingestion. Journal of Physics: Conference Series, 2021, 1909, 012035. | 0.4 | 2 |
| 35 | 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 |
| 36 | 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 |