

James C Tyacke

List of Publications by Year in descending order

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42
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42
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42
times ranked

274
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulation of a wall jet: flow physics. Journal of Fluid Mechanics, 2018, 852, 507-542.	3.4	46
2	Future Use of Large Eddy Simulation in Aeroengines. Journal of Turbomachinery, 2015, 137, .	1.7	44
3	Turbomachinery simulation challenges and the future. Progress in Aerospace Sciences, 2019, 110, 100554.	12.1	44
4	Large Eddy Simulation for Turbines: Methodologies, Cost and Future Outlooks. Journal of Turbomachinery, 2014, 136, .	1.7	33
5	A numerical study of a plane wall jet with heat transfer. International Journal of Heat and Fluid Flow, 2017, 63, 99-107.	2.4	31
6	Predictive Large Eddy Simulation for Jet Aeroacoustics – Current Approach and Industrial Application. Journal of Turbomachinery, 2017, 139, .	1.7	22
7	Large-Scale Multifidelity, Multiphysics, Hybrid Reynolds-Averaged Navier–Stokes/Large-Eddy Simulation of an Installed Aeroengine. Journal of Propulsion and Power, 2016, 32, 997-1008.	2.2	20
8	LES – RANS of Installed Ultra-High-Bypass-Ratio Coaxial Jet Aeroacoustics with Flight Stream. AIAA Journal, 2019, 57, 1215-1236.	2.6	20
9	Large eddy simulation of turbine internal cooling ducts. Computers and Fluids, 2015, 114, 130-140.	2.5	18
10	Hybrid LES Approach for Practical Turbomachinery Flows – Part I: Hierarchy and Example Simulations. Journal of Turbomachinery, 2012, 134, .	1.7	17
11	LES of heat transfer in electronics. Applied Mathematical Modelling, 2012, 36, 3112-3133.	4.2	14
12	Hybrid LES Approach for Practical Turbomachinery Flows – Part II: Further Applications. Journal of Turbomachinery, 2012, 134, .	1.7	13
13	Block Topology Generation for Structured Multi-block Meshing with Hierarchical Geometry Handling. Procedia Engineering, 2016, 163, 212-224.	1.2	10
14	LES-RANS of installed ultra-high bypass-ratio coaxial jet aeroacoustics with a finite span wing-flap geometry and flight stream - Part 1: round nozzle. , 2017, , .		10
15	Improved Hierarchical Modelling for Aerodynamically Coupled Systems. , 2017, , .		9
16	Parallel computation of aeroacoustics of industrially relevant complex-geometry aeroengine jets. Computers and Fluids, 2019, 178, 166-178.	2.5	9
17	Comparison of low Reynolds number turbulence and conjugate heat transfer modelling for pin-fin roughness elements. Applied Mathematical Modelling, 2022, 103, 696-713.	4.2	9
18	Application of LES to labyrinth seals. , 2011, , .		7

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19	LES for Turbines: Methodologies, Cost and Future Outlooks. , 2013, , .		7
20	Hybrid LES Approach for Practical Turbomachinery Flows: Part 1â€”Hierarchy and Example Simulations. , 2010, , .		6
21	Hybrid LES Approach for Practical Turbomachinery Flows: Part 2â€”Further Applications. , 2010, , .		6
22	LES of jet flow and noise with internal and external geometry features. , 2015, , .		6
23	Efficient preprocessing of complex geometries for CFD simulations. International Journal of Computational Fluid Dynamics, 2019, 33, 98-114.	1.2	6
24	Hybrid LES/RANS Predictions of Flows and Acoustics from an Ultra-High-Bypass-Ratio Serrated Nozzle. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 465-478.	0.3	5
25	LESâ€”RANS Study of Serrated Nozzle Jet Aeroacoustics for an Installed Ultra-High-Bypass-Ratio Aeroengine. AIAA Journal, 2021, 59, 4155-4165.	2.6	5
26	Impact of rib shape on heat transfer using LES. Applied Mathematical Modelling, 2021, 97, 244-267.	4.2	5
27	Unsteady CFD Modelling for Electronics Cooling. , 2007, , .		4
28	Large eddy simulation of serration effects on an ultra-high-bypass-ratio engine exhaust jet. Comptes Rendus - Mecanique, 2018, 346, 964-977.	2.1	4
29	On LES Methods Applied to Seal Geometries. , 2012, , .		3
30	Highâ€”order detached eddy simulation, zonal LES and URANS of cavity and labyrinth seal flows. International Journal for Numerical Methods in Fluids, 2013, 73, 830-846.	1.6	3
31	Body Force Modelling of Internal Geometry for Jet Noise Prediction. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2016, , 97-109.	0.3	3
32	Eddy resolving simulations in aerospace â€” Invited paper (Numerical Fluid 2014). Applied Mathematics and Computation, 2016, 272, 582-592.	2.2	3
33	LES-RANS of installed ultra-high bypass-ratio coaxial jet aeroacoustics with a finite span wing-flap geometry and flight stream - Part 2: chevron nozzle. , 2017, , .		2
34	Design optimisation of labyrinth seals using LES. Mathematical Modelling of Natural Phenomena, 2021, 16, 2.	2.4	2
35	Strategies for Modeling Turbulent Flows in Electronics. IEEE Semiconductor Thermal Measurement and Management Symposium, 2008, , .	0.0	0
36	Unsteady CFD modelling of turbulent flows for electronics. , 2008, , .		0

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37	Large Eddy Simulation of Turbine Internal Cooling Ducts. , 2013, , .		0
38	Future Use of Large Eddy Simulation in Aeroengines. , 2014, , .		0
39	Noise source, length and time scale distributions in installed jets with a flight stream. , 2018, , .		0
40	ZONAL RANS-LES MODELING FOR TURBINES IN AEROENGINES. Computational Thermal Sciences, 2012, 4, 497-506.	0.9	0
41	ZONAL RANS-LES MODELLING FOR TURBINE AEROENGINES. , 2012, , .		0
42	Separated flow prediction and assessment using LES and machine learning. AIP Conference Proceedings, 2020, , .	0.4	0