Richard D Sandberg

List of Publications by Citations

181 papers	2,520 citations	25 h-index	44 g-index
217 ext. papers	3,149 ext. citations	2.8 avg, IF	5.89 L-index

#	Paper	IF	Citations
181	Direct numerical simulations of forced and unforced separation bubbles on an airfoil at incidence. *Journal of Fluid Mechanics*, **2008**, 602, 175-207	3.7	255
180	Stability and receptivity characteristics of a laminar separation bubble on an aerofoil. *Journal of Fluid Mechanics*, **2010**, 648, 257-296	3.7	117
179	Nonreflecting Zonal Characteristic Boundary Condition for Direct Numerical Simulation of Aerodynamic Sound. *AIAA Journal*, **2006**, 44, 402-405	2.1	113
178	A novel evolutionary algorithm applied to algebraic modifications of the RANS stress–strain relationship. *Journal of Computational Physics*, **2016**, 325, 22-37	4.1	104
177	Acoustic and hydrodynamic analysis of the flow around an aerofoil with trailing-edge serrations. *Journal of Fluid Mechanics*, **2012**, 706, 295-322	3.7	85
176	Direct numerical simulation of turbulent flow past a trailing edge and the associated noise generation. *Journal of Fluid Mechanics*, **2008**, 596, 353-385	3.7	75
175	Numerical analysis of tonal airfoil self-noise and acoustic feedback-loops. *Journal of Sound and Vibration*, **2011**, 330, 6137-6152	3.9	70
174	Compressible Direct Numerical Simulation of Low-Pressure Turbines—Part II: Effect of Inflow Disturbances. *Journal of Turbomachinery*, **2015**, 137,	1.8	66
173	RANS turbulence model development using CFD-driven machine learning. *Journal of Computational Physics*, **2020**, 411, 109413	4.1	61
172	Direct numerical simulations of tonal noise generated by laminar flow past airfoils. *Journal of Sound and Vibration*, **2009**, 320, 838-858	3.9	57
171	Direct numerical simulations of low Reynolds number flow over airfoils with trailing-edge serrations. *Journal of Sound and Vibration*, **2011**, 330, 3818-3831	3.9	53
170	Numerical investigation of transitional supersonic axisymmetric wakes. *Journal of Fluid Mechanics*, **2006**, 563, 1	3.7	53
169	Compressible Direct Numerical Simulation of Low-Pressure Turbines—Part I: Methodology. *Journal of Turbomachinery*, **2015**, 137,	1.8	52
168	The development of algebraic stress models using a novel evolutionary algorithm. *International Journal of Heat and Fluid Flow*, **2017**, 68, 298-318	2.4	50
167	Direct Numerical Simulations of a High-Pressure Turbine Vane. *Journal of Turbomachinery*, **2016**, 138,	1.8	50
166	DNS of compressible pipe flow exiting into a coflow. *International Journal of Heat and Fluid Flow*, **2012**, 35, 33-44	2.4	43
165	Direct numerical simulation of the early development of a turbulent mixing layer downstream of a splitter plate. *Journal of Turbulence*, **2009**, 10, N1	2.1	43

164	Efficient parallel computing with a compact finite difference scheme. *Computers and Fluids*, **2012**, 58, 70-87	2.8	42
163	Numerical investigation of turbulent supersonic axisymmetric wakes. *Journal of Fluid Mechanics*, **2012**, 702, 488-520	3.7	34
162	A Methodology for Simulating Compressible Turbulent Flows. *Journal of Applied Mechanics, Transactions ASME*, **2006**, 73, 405-412	2.7	34
161	Tandem cylinder flow and noise predictions using a hybrid RANS/LES approach. *International Journal of Heat and Fluid Flow*, **2014**, 50, 263-278	2.4	32
160	Compressible-Flow DNS with Application to Airfoil Noise. *Flow, Turbulence and Combustion*, **2015**, 95, 211-229	2.5	31
159	Direct numerical simulations of trailing-edge noise generated by boundary-layer instabilities. *Journal of Sound and Vibration*, **2007**, 304, 677-690	3.9	31
158	Identification and quantification of losses in a LPT cascade by POD applied to LES data. *International Journal of Heat and Fluid Flow*, **2018**, 70, 28-40	2.4	29
157	High-Fidelity Simulations of Low-Pressure Turbines: Effect of Flow Coefficient and Reduced Frequency on Losses. *Journal of Turbomachinery*, **2016**, 138,	1.8	28
156	Direct Numerical Simulations of Transitional Supersonic Base Flows. *AIAA Journal*, **2006**, 44, 848-858	2.1	23
155	Application of an evolutionary algorithm to LES modelling of turbulent transport in premixed flames. *Journal of Computational Physics*, **2018**, 374, 1166-1179	4.1	22
154	Acoustic Source Identification for Transitional Airfoil Flows Using Cross Correlations. *AIAA Journal*, **2010**, 48, 2299-2312	2.1	22
153	Applying Machine Learnt Explicit Algebraic Stress and Scalar Flux Models to a Fundamental Trailing Edge Slot. *Journal of Turbomachinery*, **2018**, 140,	1.8	21
152	The boundary data immersion method for compressible flows with application to aeroacoustics. *Journal of Computational Physics*, **2017**, 333, 440-461	4.1	20
151	Self-similarity of fluid residence time statistics in a turbulent round jet. *Journal of Fluid Mechanics*, **2017**, 823, 1-25	3.7	19
150	Variation of enstrophy production and strain rotation relation in a turbulent boundary layer. *Journal of Fluid Mechanics*, **2017**, 812, 321-348	3.7	18
149	Identification of large coherent structures in supersonic axisymmetric wakes. *Computers and Fluids*, **2009**, 38, 1638-1650	2.8	18
148	The Current State of High-Fidelity Simulations for Main Gas Path Turbomachinery Components and Their Industrial Impact. *Flow, Turbulence and Combustion*, **2019**, 102, 797-848	2.5	18
147	A framework to develop data-driven turbulence models for flows with organised unsteadiness. *Journal of Computational Physics*, **2019**, 383, 148-165	4.1	17

146	Loss Prediction in an Axial Compressor Cascade at Off-Design Incidences With Free Stream Disturbances Using Large Eddy Simulation. *Journal of Turbomachinery*, **2018**, 140,	1.8	17
145	Numerical Investigation of Airfoil Self-Noise Reduction by Addition of Trailing-Edge Serrations **2010**,		17
144	Data-driven scalar-flux model development with application to jet in cross flow. *International Journal of Heat and Mass Transfer*, **2020**, 147, 118931	4.9	17
143	Development and Use of Machine-Learnt Algebraic Reynolds Stress Models for Enhanced Prediction of Wake Mixing in Low-Pressure Turbines. *Journal of Turbomachinery*, **2019**, 141,	1.8	16
142	Hybrid Reynolds-Averaged/Large-Eddy Simulation Methodology from Symbolic Regression: Formulation and Application. *AIAA Journal*, **2017**, 55, 3734-3746	2.1	15
141	Direct numerical simulations of noise generated by turbulent flow over airfoils **2008**,		15
140	Propagating helical waves as a building block of round turbulent jets. *Physical Review Fluids*, **2018**, 3,	2.8	14
139	Bypass transition in boundary layers subject to strong pressure gradient and curvature effects. *Journal of Fluid Mechanics*, **2020**, 888,	3.7	13
138	Fluid□tructure coupling mechanism and its aerodynamic effect on membrane aerofoils. *Journal of Fluid Mechanics*, **2018**, 848, 1127-1156	3.7	13
137	Direct numerical simulations of airfoil self-noise. *Procedia Engineering*, **2010**, 6, 274-282		13
136	Investigation of the Accuracy of RANS Models to Predict the Flow Through a Low-Pressure Turbine. *Journal of Turbomachinery*, **2016**, 138,	1.8	13
135	Large Eddy Simulation and RANS Analysis of the End-Wall Flow in a Linear Low-Pressure-Turbine Cascade□art II: Loss Generation. *Journal of Turbomachinery*, **2019**, 141,	1.8	13
134	Machine Learning for Turbulence Model Development Using a High-Fidelity HPT Cascade Simulation **2017**,		12
133	Numerical Investigation of Transitional Supersonic Base Flows with Flow Control. *Journal of Spacecraft and Rockets*, **2007**, 44, 1021-1028	1.5	12
132	Evolution of the velocity gradient tensor invariant dynamics in a turbulent boundary layer. *Journal of Fluid Mechanics*, **2017**, 815, 223-242	3.7	11
131	Effects of pressure gradient on the evolution of velocity-gradient tensor invariant dynamics on a controlled-diffusion aerofoil at. *Journal of Fluid Mechanics*, **2019**, 868, 584-610	3.7	11
130	Direct numerical simulation of turbulent flow with an impedance condition. *Journal of Sound and Vibration*, **2015**, 344, 28-37	3.9	11
129	Iterative Learning Control for Improved Aerodynamic Load Performance of Wind Turbines With Smart Rotors. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 967-979	4.8	11

128	An axis treatment for flow equations in cylindrical coordinates based on parity conditions. *Computers and Fluids*, **2011**, 49, 166-172	2.8	11
127	Mach-number scaling of individual azimuthal modes of subsonic co-flowing jets. *Journal of Fluid Mechanics*, **2016**, 793, 209-228	3.7	11
126	A sliding characteristic interface condition for direct numerical simulations. *Computers and Fluids*, **2015**, 107, 165-177	2.8	10
125	Highly Resolved Large Eddy Simulation Study of Gap Size Effect on Low-Pressure Turbine Stage. *Journal of Turbomachinery*, **2018**, 140,	1.8	10
124	The Influence of Different Wake Profiles on Losses in a Low Pressure Turbine Cascade. *International Journal of Turbomachinery, Propulsion and Power*, **2018**, 3, 10	1	10
123	Trailing-edge broadband noise prediction of an airfoil with boundary-layer tripping. *Journal of Sound and Vibration*, **2020**, 482, 115450	3.9	10
122	Machine-Learnt Turbulence Closures for Low-Pressure Turbines With Unsteady Inflow Conditions. *Journal of Turbomachinery*, **2019**, 141,	1.8	9
121	Numerical investigation of the flow over a model transonic turbine blade tip. *Journal of Fluid Mechanics*, **2016**, 803, 119-143	3.7	9
120	Iterative learning control applied to a non-linear vortex panel model for improved aerodynamic load performance of wind turbines with smart rotors. *International Journal of Control*, **2016**, 89, 55-68	1.5	8
119	Linear Stability Prediction of Vortex Structures on High Pressure Turbine Blades. *International Journal of Turbomachinery, Propulsion and Power*, **2017**, 2, 8	1	8
118	Direct Numerical Simulation of Turbulent Fluid Flow **2010**,		8
117	On the Identification and Decomposition of the Unsteady Losses in a Turbine Cascade. *Journal of Turbomachinery*, **2019**, 141,	1.8	8
116	LES and RANS Analysis of the End-Wall Flow in a Linear LPT Cascade: Part I Flow and Secondary Vorticity Fields Under Varying Inlet Condition **2018**,		8
115	Flow structures of a lobed mixer and effects of streamwise vortices on mixing enhancement. *Physics of Fluids*, **2019**, 31, 066102	4.4	7
114	Direct Numerical Simulations of a Transonic Tip Flow With Free-Stream Disturbances **2013**,		7
113	DNS of a Compliant Trailing-Edge Flow **2013**,		7
112	Direct Numerical Simulation of the Self-Noise Radiated by an Airfoil in a Narrow Stream **2012**,		7
111	Investigation of Supersonic Wakes Using Conventional and Hybrid Turbulence Models. *AIAA Journal* , **2006**, 44, 2071-2083	2.1	7

110	Large eddy simulations of wall jets with coflow for the study of turbulent Prandtl number variations and data-driven modeling. *Physical Review Fluids*, **2020**, 5,	2.8	7
109	On the noise generated by a controlled-diffusion aerofoil at Rec=1.5105. *Journal of Sound and Vibration*, **2020**, 487, 115620	3.9	7
108	Different noise generation mechanisms of a controlled diffusion aerofoil and their dependence on Mach number. *Journal of Sound and Vibration*, **2020**, 476, 115317	3.9	6
107	Influence of Free Stream Effects on Jet Noise Generation and Propagation within the Goldstein Acoustic Analogy Approach for Fully Turbulent Jet Inflow Boundary Conditions. *International Journal of Aeroacoustics*, **2015**, 14, 413-429	2.1	6
106	Direct Numerical Simulations for Flow and Noise Studies. *Procedia Engineering*, **2013**, 61, 356-362		6
105	Direct Numerical Simulations of Noise Generated by Airfoil Trailing Edges **2007**,		6
104	Direct Numerical Simulations of Transitional Supersonic Base Flows **2005**,		6
103	A Methodology for Simulating Compressible Turbulent Flows **2003**, 1887		6
102	Instability Mechanisms in Supersonic Base Flows **2004**,		6
101	Application of a new Flow Simulation Methodology for Supersonic Axisymmetric Wakes **2004**,		6
100	Using a New Entropy Loss Analysis to Assess the Accuracy of RANS Predictions of an High-Pressure Turbine Vane. *Journal of Turbomachinery*, **2020**, 142,	1.8	6
99	Detailed Investigation of RANS and LES Predictions of Loss Generation in an Axial Compressor Cascade at Off Design Incidences **2016**,		6
98	Application of Gene Expression Programming to a-posteriori LES modeling of a Taylor Green Vortex. *Journal of Computational Physics*, **2021**, 424, 109859	4.1	6
97	Development and Use of Machine-Learnt Algebraic Reynolds Stress Models for Enhanced Prediction of Wake Mixing in LPTs **2018**,		6
96	Direct Numerical Simulation of the Self-Noise Radiated by the Installed Controlled-Diffusion Airfoil at Transitional Reynolds Number **2018**,		6
95	Direct Numerical Simulations of Membrane Wings at Low Reynolds Number **2015**,		5
94	Implementation of a stable high-order overset grid method for high-fidelity simulations. *Computers and Fluids*, **2020**, 211, 104449	2.8	5
93	Compressibility and variable inertia effects on heat transfer in turbulent impinging jets. *Journal of Fluid Mechanics*, **2020**, 887,	3.7	5

92	Reduced-order modeling and feedback control of a flexible wing at low Reynolds numbers. *Journal of Fluids and Structures*, **2018**, 79, 137-157	3.1	5
91	High-Fidelity Simulations of a Linear HPT Vane Cascade Subject to Varying Inlet Turbulence **2017**,		5
90	Implementation and Evaluation of an Embedded LES-RANS Solver. *Flow, Turbulence and Combustion*, **2017**, 98, 697-724	2.5	5
89	DNS of fully turbulent jet flows in flight conditions including a canonical nozzle **2011**,		5
88	Direct Numerical Simulations of Noise Generated by the Flow over an Airfoil with Trailing Edge Serrations **2009**,		5
87	A Flow Simulation Methodology for Compressible Turbulent Axisymmetric Wakes **2003**,		5
86	Towards robust and accurate Reynolds-averaged closures for natural convection via multi-objective CFD-driven machine learning. *International Journal of Heat and Mass Transfer*, **2022**, 187, 122557	4.9	5
85	Large-Eddy Simulation and RANS Analysis of the End-Wall Flow in a Linear Low-Pressure Turbine Cascade, Part I: Flow and Secondary Vorticity Fields Under Varying Inlet Condition. *Journal of Turbomachinery*, **2019**, 141,	1.8	5
84	Improved Junction Body Flow Modeling Through Data-Driven Symbolic Regression. *Journal of Ship Research*, **2019**, 63, 283-293	0.9	5
83	Simulations of compressibility effects in centrifugal buoyancy-induced flow in a closed rotating cavity. *International Journal of Heat and Fluid Flow*, **2020**, 85, 108656	2.4	5
82	Integration of Machine Learning and Computational Fluid Dynamics to Develop Turbulence Models for Improved Low-Pressure Turbine Wake Mixing Prediction. *Journal of Turbomachinery*, **2021**, 143,	1.8	5
81	Transition Modeling for Low Pressure Turbines Using Computational Fluid Dynamics Driven Machine Learning. *Energies*, **2021**, 14, 4680	3.1	5
80	A Comparative Study of Contrasting Machine Learning Frameworks Applied to RANS Modeling of Jets in Crossflow **2017**,		4
79	Investigation of the Accuracy of RANS Models to Predict the Flow Through a Low-Pressure Turbine **2015**,		4
78	Direct Numerical Simulations of a High Pressure Turbine Vane **2015**,		4
77	Numerical Investigation of Tonal Airfoil Self-Noise Generated by an Acoustic Feedback-Loop **2010**,		4
76	Multi-objective CFD-driven development of coupled turbulence closure models. *Journal of Computational Physics*, **2022**, 452, 110922	4.1	4
75	Fluid Dynamics of Axial Turbomachinery: Blade- and Stage-Level Simulations and Models. *Annual Review of Fluid Mechanics*, **2022**, 54,	22	4

74	RANS predictions of trailing-edge slot flows using heat-flux closures developed with CFD-driven machine learning. *Journal of the Global Power and Propulsion Society*, **2021**, 1-13	0.4	4
73	Assessment of Grid Resolution Requirements for Accurate Simulation of Disparate Scales of Turbulent Flow in Low-Pressure Turbines **2016**,		4
72	Highly Resolved LES of a Linear HPT Vane Cascade Using Structured and Unstructured Codes **2016**,		4
71	Computational study of the effect of structural compliance on the noise radiated from an elastic trailing-edge. *Journal of Sound and Vibration*, **2020**, 485, 115533	3.9	3
70	Direct numerical simulation of turbulent premixed jet flames: Influence of inflow boundary conditions. *Combustion and Flame*, **2020**, 213, 240-254	5.3	3
69	Effect of the leading and trailing edge geometry on the fluid-structural coupling of membrane aerofoils **2016**,		3
68	Compressible Direct Numerical Simulation of Low-Pressure Turbines: Part II Effect of Inflow Disturbances **2014**,		3
67	On the effect of Mach number and coflow for turbulent jet noise sources **2012**,		3
66	Investigation and Prediction of Transitional Airfoil Self-Noise **2009**,		3
65	Numerical Investigation of Flow Control Mechanisms for Drag Reduction in Supersonic Base-Flows **2006**,		3
64	DNS of a canonical compressible nozzle flow. *ERCOFTAC Series*, **2011**, 291-296	0.1	3
63	High-Fidelity Simulations of a High-Pressure Turbine Vane Subject to Large Disturbances: Effect of Exit Mach Number on Losses. *Journal of Turbomachinery*, **2021**, 143,	1.8	3
62	Large-Eddy Simulations of High Rossby Number Flow in the High-Pressure Compressor Inter-Disk Cavity. *Journal of Turbomachinery*, **2021**, 143,	1.8	3
61	Inferring empirical wall pressure spectral models with Gene Expression Programming. *Journal of Sound and Vibration*, **2021**, 506, 116162	3.9	3
60	Data-driven algebraic models of the turbulent Prandtl number for buoyancy-affected flow near a vertical surface. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121737	4.9	3
59	Machine-learning for turbulence and heat-flux model development: A review of challenges associated with distinct physical phenomena and progress to date. *International Journal of Heat and Fluid Flow*, **2022**, 95, 108983	2.4	3
58	Effect of trailing-edge boundary conditions on acoustic feedback loops in high-pressure turbines. *Journal of Sound and Vibration*, **2019**, 461, 114917	3.9	2
57	Feedback control of vortex shedding using a resolvent-based modelling approach. *Journal of Fluid Mechanics*, **2020**, 897,	3.7	2

56	Application of a POD-Galerkin based method to time resolved and time unresolved data for the determination of the Convective Velocity of Large-Scale Coherent Structures in High Speed Flows. *International Journal of Heat and Fluid Flow*, **2020**, 85, 108647	2.4	2
55	Compressible plane turbulent wakes under pressure gradients evolving in a constant area section. *Journal of Fluid Mechanics*, **2020**, 892,	3.7	2
54	Nonlinear reduced-order modeling of the forced and autonomous aeroelastic response of a membrane wing using Harmonic Balance methods. *Journal of Fluids and Structures*, **2019**, 91, 102699	3.1	2
53	Parametric study of multiple aerofoil self-noise sources using direct noise computation **2019**,		2
52	LES Loss Prediction in an Axial Compressor Cascade at Off-Design Incidences With Free Stream Disturbances **2017**,		2
51	Use of Symbolic Regression for construction of Reynolds-stress damping functions for Hybrid RANS/LES **2015**,		2
50	Compressible Direct Numerical Simulation of Low-Pressure Turbines: Part I Methodology **2014**,		2
49	Global response to forcing in a subsonic jet: instability wavepackets and acoustic radiation **2013**,		2
48	Suitability of Explicit Algebraic Stress Models for Predicting Complex Three-Dimensional Flows **2009**,		2
47	MACHINE LEARNING FOR THE DEVELOPMENT OF DATA DRIVEN TURBULENCE CLOSURES IN COOLANT SYSTEMS. *Journal of Turbomachinery*,1-13	1.8	2
46	Using a New Entropy Loss Analysis to Assess the Accuracy of RANS Predictions of an HPT Vane **2019**,		2
45	Unsteady Simulations of a Trailing-Edge Slot Using Machine-Learnt Turbulence Stress and Heat-Flux Closures **2020**,		2
44	Loss Analysis of Unsteady Turbomachinery Flows Based on the Mechanical Work Potential. *Journal of Turbomachinery*, **2020**, 142,	1.8	2
43	Two Dimensional Analysis of Hybrid Spectral/Finite Difference Schemes for Linearized Compressible Navier Stokes Equations. *Journal of Scientific Computing*, **2021**, 87, 1	2.3	2
42	Data-Driven RANS Closures for Trailing Edge Noise Predictions **2019**,		2
41	LES and RANS Analysis of the End-Wall Flow in a Linear LPT Cascade With Variable Inlet Conditions: Part II Loss Generation **2018**,		2
40	Large Eddy Simulations of a Low-Pressure Turbine: Roughness Modeling and the Effects on Boundary Layer Transition and Losses **2018**,		2
39	Data-driven model development for large-eddy simulation of turbulence using gene-expression programing. *Physics of Fluids*, **2021**, 33, 125127	4.4	2

38	Direct Numerical Simulation of Transitional Airfoil Noise **2017**,		1
37	Measurement and analysis of the shear layer instabilities in supersonic impinging jets **2020**,		1
36	A Summary of Recent NASA Electric Sail Propulsion System Investigations **2018**,		1
35	DNS of Noise Radiation from a Turbulent Flow Convecting over an Elastic Trailing-Edge **2016**,		1
34	DNS of a Turbulent Jet Issuing from an Acoustically Lined Pipe **2016**, 378-387		1
33	Resolvent analysis-based pressure modeling for trailing edge noise prediction **2019**,		1
32	Computational fluid dynamics based iterative learning control for smart rotor enabled fatigue load reduction in wind turbines **2014**,		1
31	On the wavenumber spectra for sound within subsonic jets. *Journal of the Acoustical Society of America*, **2014**, 136, 1029	2.2	1
30	Application of a phased array technique to DNS-Generated turbulent subsonic jet data: source identification and comparisons with experiment and analytic models **2013**,		1
29	Stability analysis of axisymmetric supersonic wakes using various basic states. *Journal of Physics: Conference Series*, **2011**, 318, 032017	0.3	1
28	Application of a Phased Array Technique to DNS-Generated Turbulent Subsonic Jet Data **2012**,		1
27	Direct Numerical Simulations of Trailing-Edge Noise Generated by Turbulent Boundary-Layers **2007** ,		1
26	DNS of Trailing-Edge Noise Generated by Boundary-Layer Instabilities **2006**,		1
25	Experimental and Computational Study of 2D Smooth Wall Turbulent Boundary Layers in Pressure Gradient **2022**,		1
24	Surface pressure spectrum variation with Mach number on a CD airfoil. *Journal of Sound and Vibration*, **2022**, 116762	3.9	1
23	Local and Global Stability of Airfoil Flows at Low Reynolds Number. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 201-206	0.3	1
22	Direct numerical simulations of turbulent supersonic axisymmetric wakes. *ERCOFTAC Series*, **2011**, 297-302	0.1	1
21	High-Fidelity Simulations of Multi-Jet Impingement Cooling Flows. *Journal of Turbomachinery*, **2021** , 143,	1.8	1

20	Reynolds Stress Structures in the Hybrid RANS/LES of a Planar Channel. *Journal of Physics: Conference Series*, **2016**, 708, 012008	0.3	1
19	Applying Machine Learnt Explicit Algebraic Stress and Scalar Flux Models to a Fundamental Trailing Edge Slot **2018**,		1
18	Stability characteristics of different aerofoil flows at Rec=150,000 and the implications for aerofoil self-noise. *Journal of Sound and Vibration*, **2021**, 506, 116152	3.9	1
17	Assessment of Machine-Learned Turbulence Models Trained for Improved Wake-Mixing in Low-Pressure Turbine Flows. *Energies*, **2021**, 14, 8327	3.1	1
16	Reynolds-averaged stress and scalar-flux closures via symbolic regression for vertical natural convection. *International Journal of Heat and Fluid Flow*, **2022**, 96, 108981	2.4	1
15	A New Reynolds Stress Damping Function for Hybrid RANS/LES with an Evolved Functional Form **2016**, 330-339		0
14	The Effect of Wall Normal Actuation on a Turbulent Boundary Layer. *Flow, Turbulence and Combustion*, **2017**, 99, 807-821	2.5	0
13	Pulsed impinging jets: Momentum and heat-transfer. *International Journal of Heat and Mass Transfer*, **2022**, 187, 122548	4.9	0
12	Momentum boundary-layer characterisation from a pulsed impinging jet. *International Journal of Heat and Fluid Flow*, **2022**, 94, 108918	2.4	0
11	Application of an Evolutionary Algorithm to LES Modelling of Turbulent Premixed Flames **2020**, 253-271		0
10	Compressible DNS of a Low Pressure Turbine Subjected to Inlet Disturbances. *ERCOFTAC Series*, **2015**, 383-388	0.1	0
9	Effects of a Wall on the Dynamics of Turbulence Teardrops and Fingerprints. *Springer Proceedings in Physics*, **2016**, 285-288	0.2	
8	Can Jet Noise Be Predicted Using Linear Instability Wavepackets?. *Springer Proceedings in Physics*, **2016**, 413-418	0.2	
7	The Key Role of Pressure in the Turbulence Cascading Process. *Springer Proceedings in Physics*, **2017** , 17-22	0.2	
6	Boundary Data Immersion Method for DNS of Aero-vibro-acoustic Systems. *ERCOFTAC Series*, **2018**, 425-431	0.1	
5	Large-Scale Compressible-Flow Direct Numerical Simulations. *ERCOFTAC Series*, **2018**, 25-33	0.1	
4	An Embedded Flow Simulation Methodology for Flow over Fence Simulations. *ERCOFTAC Series*, **2018**, 297-303	0.1	
3	Direct Numerical Simulations of Turbulent Shear Flows **2010**, 151-165		

2	Development of Brown-Roshko Structures in the Mixing Layer Behind a Splitter Plate. *ERCOFTAC Series*, **2010**, 49-54	0.1
1	Compressibility effects on the linear-stability of centrifugal buoyancy-induced flow. *International Journal of Heat and Fluid Flow*, **2022**, 96, 108999	2.4