

Richard D Sandberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Experimental and Computational Study of 2D Smooth Wall Turbulent Boundary Layers in Pressure Gradient 2022 ,		1
180	Multi-objective CFD-driven development of coupled turbulence closure models. <i>Journal of Computational Physics</i> , 2022 , 452, 110922	4.1	4
179	Pulsed impinging jets: Momentum and heat-transfer. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122548	4.9	0
178	Towards robust and accurate Reynolds-averaged closures for natural convection via multi-objective CFD-driven machine learning. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122557	4.9	5
177	Surface pressure spectrum variation with Mach number on a CD airfoil. <i>Journal of Sound and Vibration</i> , 2022 , 116762	3.9	1
176	Momentum boundary-layer characterisation from a pulsed impinging jet. <i>International Journal of Heat and Fluid Flow</i> , 2022 , 94, 108918	2.4	0
175	Fluid Dynamics of Axial Turbomachinery: Blade- and Stage-Level Simulations and Models. <i>Annual Review of Fluid Mechanics</i> , 2022 , 54,	2.2	4
174	Machine-learning for turbulence and heat-flux model development: A review of challenges associated with distinct physical phenomena and progress to date. <i>International Journal of Heat and Fluid Flow</i> , 2022 , 95, 108983	2.4	3
173	Reynolds-averaged stress and scalar-flux closures via symbolic regression for vertical natural convection. <i>International Journal of Heat and Fluid Flow</i> , 2022 , 96, 108981	2.4	1
172	Compressibility effects on the linear-stability of centrifugal buoyancy-induced flow. <i>International Journal of Heat and Fluid Flow</i> , 2022 , 96, 108999	2.4	
171	Two Dimensional Analysis of Hybrid Spectral/Finite Difference Schemes for Linearized Compressible Navier-Stokes Equations. <i>Journal of Scientific Computing</i> , 2021 , 87, 1	2.3	2
170	High-Fidelity Simulations of a High-Pressure Turbine Vane Subject to Large Disturbances: Effect of Exit Mach Number on Losses. <i>Journal of Turbomachinery</i> , 2021 , 143,	1.8	3
169	RANS predictions of trailing-edge slot flows using heat-flux closures developed with CFD-driven machine learning. <i>Journal of the Global Power and Propulsion Society</i> , 2021 , 1-13	0.4	4
168	High-Fidelity Simulations of Multi-Jet Impingement Cooling Flows. <i>Journal of Turbomachinery</i> , 2021 , 143,	1.8	1
167	Large-Eddy Simulations of High Rossby Number Flow in the High-Pressure Compressor Inter-Disk Cavity. <i>Journal of Turbomachinery</i> , 2021 , 143,	1.8	3
166	Integration of Machine Learning and Computational Fluid Dynamics to Develop Turbulence Models for Improved Low-Pressure Turbine Wake Mixing Prediction. <i>Journal of Turbomachinery</i> , 2021 , 143,	1.8	5
165	Application of Gene Expression Programming to a-posteriori LES modeling of a Taylor Green Vortex. <i>Journal of Computational Physics</i> , 2021 , 424, 109859	4.1	6

164	Inferring empirical wall pressure spectral models with Gene Expression Programming. <i>Journal of Sound and Vibration</i> , 2021 , 506, 116162	3.9	3
163	Stability characteristics of different aerofoil flows at $Re_c=150,000$ and the implications for aerofoil self-noise. <i>Journal of Sound and Vibration</i> , 2021 , 506, 116152	3.9	1
162	Transition Modeling for Low Pressure Turbines Using Computational Fluid Dynamics Driven Machine Learning. <i>Energies</i> , 2021 , 14, 4680	3.1	5
161	Data-driven algebraic models of the turbulent Prandtl number for buoyancy-affected flow near a vertical surface. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 179, 121737	4.9	3
160	Assessment of Machine-Learned Turbulence Models Trained for Improved Wake-Mixing in Low-Pressure Turbine Flows. <i>Energies</i> , 2021 , 14, 8327	3.1	1
159	Data-driven model development for large-eddy simulation of turbulence using gene-expression programming. <i>Physics of Fluids</i> , 2021 , 33, 125127	4.4	2
158	Implementation of a stable high-order overset grid method for high-fidelity simulations. <i>Computers and Fluids</i> , 2020 , 211, 104449	2.8	5
157	Feedback control of vortex shedding using a resolvent-based modelling approach. <i>Journal of Fluid Mechanics</i> , 2020 , 897,	3.7	2
156	Different noise generation mechanisms of a controlled diffusion aerofoil and their dependence on Mach number. <i>Journal of Sound and Vibration</i> , 2020 , 476, 115317	3.9	6
155	Measurement and analysis of the shear layer instabilities in supersonic impinging jets 2020 ,		1
154	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. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 85, 108647	2.4	2
153	Computational study of the effect of structural compliance on the noise radiated from an elastic trailing-edge. <i>Journal of Sound and Vibration</i> , 2020 , 485, 115533	3.9	3
152	Bypass transition in boundary layers subject to strong pressure gradient and curvature effects. <i>Journal of Fluid Mechanics</i> , 2020 , 888,	3.7	13
151	Direct numerical simulation of turbulent premixed jet flames: Influence of inflow boundary conditions. <i>Combustion and Flame</i> , 2020 , 213, 240-254	5.3	3
150	Compressibility and variable inertia effects on heat transfer in turbulent impinging jets. <i>Journal of Fluid Mechanics</i> , 2020 , 887,	3.7	5
149	RANS turbulence model development using CFD-driven machine learning. <i>Journal of Computational Physics</i> , 2020 , 411, 109413	4.1	61
148	Compressible plane turbulent wakes under pressure gradients evolving in a constant area section. <i>Journal of Fluid Mechanics</i> , 2020 , 892,	3.7	2
147	Large eddy simulations of wall jets with coflow for the study of turbulent Prandtl number variations and data-driven modeling. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	7

146	Using a New Entropy Loss Analysis to Assess the Accuracy of RANS Predictions of an High-Pressure Turbine Vane. <i>Journal of Turbomachinery</i> , 2020 , 142,	1.8	6
145	Unsteady Simulations of a Trailing-Edge Slot Using Machine-Learnt Turbulence Stress and Heat-Flux Closures 2020 ,		2
144	Loss Analysis of Unsteady Turbomachinery Flows Based on the Mechanical Work Potential. <i>Journal of Turbomachinery</i> , 2020 , 142,	1.8	2
143	Application of an Evolutionary Algorithm to LES Modelling of Turbulent Premixed Flames 2020 , 253-271		0
142	Trailing-edge broadband noise prediction of an airfoil with boundary-layer tripping. <i>Journal of Sound and Vibration</i> , 2020 , 482, 115450	3.9	10
141	Data-driven scalar-flux model development with application to jet in cross flow. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 147, 118931	4.9	17
140	Simulations of compressibility effects in centrifugal buoyancy-induced flow in a closed rotating cavity. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 85, 108656	2.4	5
139	On the noise generated by a controlled-diffusion aerofoil at $Re=1.5 \times 10^5$. <i>Journal of Sound and Vibration</i> , 2020 , 487, 115620	3.9	7
138	Effect of trailing-edge boundary conditions on acoustic feedback loops in high-pressure turbines. <i>Journal of Sound and Vibration</i> , 2019 , 461, 114917	3.9	2
137	A framework to develop data-driven turbulence models for flows with organised unsteadiness. <i>Journal of Computational Physics</i> , 2019 , 383, 148-165	4.1	17
136	Machine-Learnt Turbulence Closures for Low-Pressure Turbines With Unsteady Inflow Conditions. <i>Journal of Turbomachinery</i> , 2019 , 141,	1.8	9
135	Effects of pressure gradient on the evolution of velocity-gradient tensor invariant dynamics on a controlled-diffusion aerofoil at. <i>Journal of Fluid Mechanics</i> , 2019 , 868, 584-610	3.7	11
134	Flow structures of a lobed mixer and effects of streamwise vortices on mixing enhancement. <i>Physics of Fluids</i> , 2019 , 31, 066102	4.4	7
133	Nonlinear reduced-order modeling of the forced and autonomous aeroelastic response of a membrane wing using Harmonic Balance methods. <i>Journal of Fluids and Structures</i> , 2019 , 91, 102699	3.1	2
132	Parametric study of multiple aerofoil self-noise sources using direct noise computation 2019 ,		2
131	Resolvent analysis-based pressure modeling for trailing edge noise prediction 2019 ,		1
130	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. <i>Journal of Turbomachinery</i> , 2019 , 141,	1.8	5
129	Using a New Entropy Loss Analysis to Assess the Accuracy of RANS Predictions of an HPT Vane 2019 ,		2

128	Improved Junction Body Flow Modeling Through Data-Driven Symbolic Regression. <i>Journal of Ship Research</i> , 2019 , 63, 283-293	0.9	5
127	The Current State of High-Fidelity Simulations for Main Gas Path Turbomachinery Components and Their Industrial Impact. <i>Flow, Turbulence and Combustion</i> , 2019 , 102, 797-848	2.5	18
126	Data-Driven RANS Closures for Trailing Edge Noise Predictions 2019 ,		2
125	On the Identification and Decomposition of the Unsteady Losses in a Turbine Cascade. <i>Journal of Turbomachinery</i> , 2019 , 141,	1.8	8
124	Development and Use of Machine-Learnt Algebraic Reynolds Stress Models for Enhanced Prediction of Wake Mixing in Low-Pressure Turbines. <i>Journal of Turbomachinery</i> , 2019 , 141,	1.8	16
123	Large Eddy Simulation and RANS Analysis of the End-Wall Flow in a Linear Low-Pressure-Turbine Cascade Part II: Loss Generation. <i>Journal of Turbomachinery</i> , 2019 , 141,	1.8	13
122	Identification and quantification of losses in a LPT cascade by POD applied to LES data. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 70, 28-40	2.4	29
121	A Summary of Recent NASA's Electric Sail Propulsion System Investigations 2018 ,		1
120	Reduced-order modeling and feedback control of a flexible wing at low Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2018 , 79, 137-157	3.1	5
119	Highly Resolved Large Eddy Simulation Study of Gap Size Effect on Low-Pressure Turbine Stage. <i>Journal of Turbomachinery</i> , 2018 , 140,	1.8	10
118	Loss Prediction in an Axial Compressor Cascade at Off-Design Incidences With Free Stream Disturbances Using Large Eddy Simulation. <i>Journal of Turbomachinery</i> , 2018 , 140,	1.8	17
117	The Influence of Different Wake Profiles on Losses in a Low Pressure Turbine Cascade. <i>International Journal of Turbomachinery, Propulsion and Power</i> , 2018 , 3, 10	1	10
116	Application of an evolutionary algorithm to LES modelling of turbulent transport in premixed flames. <i>Journal of Computational Physics</i> , 2018 , 374, 1166-1179	4.1	22
115	Fluid-structure coupling mechanism and its aerodynamic effect on membrane aerofoils. <i>Journal of Fluid Mechanics</i> , 2018 , 848, 1127-1156	3.7	13
114	Propagating helical waves as a building block of round turbulent jets. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
113	Boundary Data Immersion Method for DNS of Aero-vibro-acoustic Systems. <i>ERCOFTAC Series</i> , 2018 , 425-431		
112	Large-Scale Compressible-Flow Direct Numerical Simulations. <i>ERCOFTAC Series</i> , 2018 , 25-33	0.1	
111	An Embedded Flow Simulation Methodology for Flow over Fence Simulations. <i>ERCOFTAC Series</i> , 2018 , 297-303	0.1	

110	Development and Use of Machine-Learnt Algebraic Reynolds Stress Models for Enhanced Prediction of Wake Mixing in LPTs 2018 ,		6
109	LES and RANS Analysis of the End-Wall Flow in a Linear LPT Cascade With Variable Inlet Conditions: Part II Loss Generation 2018 ,		2
108	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
107	Applying Machine Learnt Explicit Algebraic Stress and Scalar Flux Models to a Fundamental Trailing Edge Slot. <i>Journal of Turbomachinery</i> , 2018 , 140,	1.8	21
106	Applying Machine Learnt Explicit Algebraic Stress and Scalar Flux Models to a Fundamental Trailing Edge Slot 2018 ,		1
105	Large Eddy Simulations of a Low-Pressure Turbine: Roughness Modeling and the Effects on Boundary Layer Transition and Losses 2018 ,		2
104	Direct Numerical Simulation of the Self-Noise Radiated by the Installed Controlled-Diffusion Airfoil at Transitional Reynolds Number 2018 ,		6
103	Evolution of the velocity gradient tensor invariant dynamics in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2017 , 815, 223-242	3.7	11
102	Self-similarity of fluid residence time statistics in a turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 1-25	3.7	19
101	Direct Numerical Simulation of Transitional Airfoil Noise 2017 ,		1
100	The boundary data immersion method for compressible flows with application to aeroacoustics. <i>Journal of Computational Physics</i> , 2017 , 333, 440-461	4.1	20
99	Variation of enstrophy production and strain rotation relation in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2017 , 812, 321-348	3.7	18
98	Linear Stability Prediction of Vortex Structures on High Pressure Turbine Blades. <i>International Journal of Turbomachinery, Propulsion and Power</i> , 2017 , 2, 8	1	8
97	High-Fidelity Simulations of a Linear HPT Vane Cascade Subject to Varying Inlet Turbulence 2017 ,		5
96	A Comparative Study of Contrasting Machine Learning Frameworks Applied to RANS Modeling of Jets in Crossflow 2017 ,		4
95	Machine Learning for Turbulence Model Development Using a High-Fidelity HPT Cascade Simulation 2017 ,		12
94	LES Loss Prediction in an Axial Compressor Cascade at Off-Design Incidences With Free Stream Disturbances 2017 ,		2
93	Hybrid Reynolds-Averaged/Large-Eddy Simulation Methodology from Symbolic Regression: Formulation and Application. <i>AIAA Journal</i> , 2017 , 55, 3734-3746	2.1	15

92	The Effect of Wall Normal Actuation on a Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , 2017 , 99, 807-821	2.5	0
91	The development of algebraic stress models using a novel evolutionary algorithm. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 68, 298-318	2.4	50
90	Implementation and Evaluation of an Embedded LES-RANS Solver. <i>Flow, Turbulence and Combustion</i> , 2017 , 98, 697-724	2.5	5
89	The Key Role of Pressure in the Turbulence Cascading Process. <i>Springer Proceedings in Physics</i> , 2017 , 17-22	0.2	
88	Iterative learning control applied to a non-linear vortex panel model for improved aerodynamic load performance of wind turbines with smart rotors. <i>International Journal of Control</i> , 2016 , 89, 55-68	1.5	8
87	A novel evolutionary algorithm applied to algebraic modifications of the RANS stress-strain relationship. <i>Journal of Computational Physics</i> , 2016 , 325, 22-37	4.1	104
86	Effects of a Wall on the Dynamics of Turbulence Teardrops and Fingerprints. <i>Springer Proceedings in Physics</i> , 2016 , 285-288	0.2	
85	Can Jet Noise Be Predicted Using Linear Instability Wavepackets?. <i>Springer Proceedings in Physics</i> , 2016 , 413-418	0.2	
84	DNS of Noise Radiation from a Turbulent Flow Convecting over an Elastic Trailing-Edge 2016 ,		1
83	Effect of the leading and trailing edge geometry on the fluid-structural coupling of membrane aerofoils 2016 ,		3
82	A New Reynolds Stress Damping Function for Hybrid RANS/LES with an Evolved Functional Form 2016 , 330-339		0
81	DNS of a Turbulent Jet Issuing from an Acoustically Lined Pipe 2016 , 378-387		1
80	Reynolds Stress Structures in the Hybrid RANS/LES of a Planar Channel. <i>Journal of Physics: Conference Series</i> , 2016 , 708, 012008	0.3	1
79	Detailed Investigation of RANS and LES Predictions of Loss Generation in an Axial Compressor Cascade at Off Design Incidences 2016 ,		6
78	Numerical investigation of the flow over a model transonic turbine blade tip. <i>Journal of Fluid Mechanics</i> , 2016 , 803, 119-143	3.7	9
77	Assessment of Grid Resolution Requirements for Accurate Simulation of Disparate Scales of Turbulent Flow in Low-Pressure Turbines 2016 ,		4
76	Highly Resolved LES of a Linear HPT Vane Cascade Using Structured and Unstructured Codes 2016 ,		4
75	High-Fidelity Simulations of Low-Pressure Turbines: Effect of Flow Coefficient and Reduced Frequency on Losses. <i>Journal of Turbomachinery</i> , 2016 , 138,	1.8	28

74	Direct Numerical Simulations of a High-Pressure Turbine Vane. <i>Journal of Turbomachinery</i> , 2016 , 138,	1.8	50
73	Investigation of the Accuracy of RANS Models to Predict the Flow Through a Low-Pressure Turbine. <i>Journal of Turbomachinery</i> , 2016 , 138,	1.8	13
72	Mach-number scaling of individual azimuthal modes of subsonic co-flowing jets. <i>Journal of Fluid Mechanics</i> , 2016 , 793, 209-228	3.7	11
71	Compressible-Flow DNS with Application to Airfoil Noise. <i>Flow, Turbulence and Combustion</i> , 2015 , 95, 211-229	2.5	31
70	Direct numerical simulation of turbulent flow with an impedance condition. <i>Journal of Sound and Vibration</i> , 2015 , 344, 28-37	3.9	11
69	Compressible Direct Numerical Simulation of Low-Pressure Turbines Part I: Methodology. <i>Journal of Turbomachinery</i> , 2015 , 137,	1.8	52
68	Direct Numerical Simulations of Membrane Wings at Low Reynolds Number 2015 ,		5
67	A sliding characteristic interface condition for direct numerical simulations. <i>Computers and Fluids</i> , 2015 , 107, 165-177	2.8	10
66	Influence of Free Stream Effects on Jet Noise Generation and Propagation within the Goldstein Acoustic Analogy Approach for Fully Turbulent Jet Inflow Boundary Conditions. <i>International Journal of Aeroacoustics</i> , 2015 , 14, 413-429	2.1	6
65	Investigation of the Accuracy of RANS Models to Predict the Flow Through a Low-Pressure Turbine 2015 ,		4
64	Direct Numerical Simulations of a High Pressure Turbine Vane 2015 ,		4
63	Use of Symbolic Regression for construction of Reynolds-stress damping functions for Hybrid RANS/LES 2015 ,		2
62	Compressible Direct Numerical Simulation of Low-Pressure Turbines Part II: Effect of Inflow Disturbances. <i>Journal of Turbomachinery</i> , 2015 , 137,	1.8	66
61	Compressible DNS of a Low Pressure Turbine Subjected to Inlet Disturbances. <i>ERCOTAC Series</i> , 2015 , 383-388	0.1	0
60	Computational fluid dynamics based iterative learning control for smart rotor enabled fatigue load reduction in wind turbines 2014 ,		1
59	Tandem cylinder flow and noise predictions using a hybrid RANS/LES approach. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 50, 263-278	2.4	32
58	Compressible Direct Numerical Simulation of Low-Pressure Turbines: Part II Effect of Inflow Disturbances 2014 ,		3
57	Compressible Direct Numerical Simulation of Low-Pressure Turbines: Part I Methodology 2014 ,		2

56	On the wavenumber spectra for sound within subsonic jets. <i>Journal of the Acoustical Society of America</i> , 2014 , 136, 1029	2.2	1
55	Iterative Learning Control for Improved Aerodynamic Load Performance of Wind Turbines With Smart Rotors. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 967-979	4.8	11
54	Direct Numerical Simulations for Flow and Noise Studies. <i>Procedia Engineering</i> , 2013 , 61, 356-362		6
53	Direct Numerical Simulations of a Transonic Tip Flow With Free-Stream Disturbances 2013 ,		7
52	Application of a phased array technique to DNS-Generated turbulent subsonic jet data: source identification and comparisons with experiment and analytic models 2013 ,		1
51	DNS of a Compliant Trailing-Edge Flow 2013 ,		7
50	Global response to forcing in a subsonic jet: instability wavepackets and acoustic radiation 2013 ,		2
49	DNS of compressible pipe flow exiting into a coflow. <i>International Journal of Heat and Fluid Flow</i> , 2012 , 35, 33-44	2.4	43
48	Efficient parallel computing with a compact finite difference scheme. <i>Computers and Fluids</i> , 2012 , 58, 70-87	2.8	42
47	Application of a Phased Array Technique to DNS-Generated Turbulent Subsonic Jet Data 2012 ,		1
46	Direct Numerical Simulation of the Self-Noise Radiated by an Airfoil in a Narrow Stream 2012 ,		7
45	On the effect of Mach number and coflow for turbulent jet noise sources 2012 ,		3
44	Numerical investigation of turbulent supersonic axisymmetric wakes. <i>Journal of Fluid Mechanics</i> , 2012 , 702, 488-520	3.7	34
43	Acoustic and hydrodynamic analysis of the flow around an aerofoil with trailing-edge serrations. <i>Journal of Fluid Mechanics</i> , 2012 , 706, 295-322	3.7	85
42	DNS of fully turbulent jet flows in flight conditions including a canonical nozzle 2011 ,		5
41	Stability analysis of axisymmetric supersonic wakes using various basic states. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 032017	0.3	1
40	Numerical analysis of tonal airfoil self-noise and acoustic feedback-loops. <i>Journal of Sound and Vibration</i> , 2011 , 330, 6137-6152	3.9	70
39	An axis treatment for flow equations in cylindrical coordinates based on parity conditions. <i>Computers and Fluids</i> , 2011 , 49, 166-172	2.8	11

38	Direct numerical simulations of low Reynolds number flow over airfoils with trailing-edge serrations. <i>Journal of Sound and Vibration</i> , 2011 , 330, 3818-3831	3.9	53
37	DNS of a canonical compressible nozzle flow. <i>ERCOFTAC Series</i> , 2011 , 291-296	0.1	3
36	Direct numerical simulations of turbulent supersonic axisymmetric wakes. <i>ERCOFTAC Series</i> , 2011 , 297-302		1
35	Direct Numerical Simulation of Turbulent Fluid Flow 2010 ,		8
34	Stability and receptivity characteristics of a laminar separation bubble on an aerofoil. <i>Journal of Fluid Mechanics</i> , 2010 , 648, 257-296	3.7	117
33	Acoustic Source Identification for Transitional Airfoil Flows Using Cross Correlations. <i>AIAA Journal</i> , 2010 , 48, 2299-2312	2.1	22
32	Numerical Investigation of Tonal Airfoil Self-Noise Generated by an Acoustic Feedback-Loop 2010 ,		4
31	Numerical Investigation of Airfoil Self-Noise Reduction by Addition of Trailing-Edge Serrations 2010 ,		17
30	Direct numerical simulations of airfoil self-noise. <i>Procedia Engineering</i> , 2010 , 6, 274-282		13
29	Local and Global Stability of Airfoil Flows at Low Reynolds Number. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010 , 201-206	0.3	1
28	Direct Numerical Simulations of Turbulent Shear Flows 2010 , 151-165		
27	Development of Brown-Boshko Structures in the Mixing Layer Behind a Splitter Plate. <i>ERCOFTAC Series</i> , 2010 , 49-54	0.1	
26	Direct numerical simulation of the early development of a turbulent mixing layer downstream of a splitter plate. <i>Journal of Turbulence</i> , 2009 , 10, N1	2.1	43
25	Identification of large coherent structures in supersonic axisymmetric wakes. <i>Computers and Fluids</i> , 2009 , 38, 1638-1650	2.8	18
24	Direct numerical simulations of tonal noise generated by laminar flow past airfoils. <i>Journal of Sound and Vibration</i> , 2009 , 320, 838-858	3.9	57
23	Direct Numerical Simulations of Noise Generated by the Flow over an Airfoil with Trailing Edge Serrations 2009 ,		5
22	Investigation and Prediction of Transitional Airfoil Self-Noise 2009 ,		3
21	Suitability of Explicit Algebraic Stress Models for Predicting Complex Three-Dimensional Flows 2009 ,		2

20	Direct numerical simulation of turbulent flow past a trailing edge and the associated noise generation. <i>Journal of Fluid Mechanics</i> , 2008 , 596, 353-385	3.7	75
19	Direct numerical simulations of noise generated by turbulent flow over airfoils 2008 ,		15
18	Direct numerical simulations of forced and unforced separation bubbles on an airfoil at incidence. <i>Journal of Fluid Mechanics</i> , 2008 , 602, 175-207	3.7	255
17	Direct numerical simulations of trailing-edge noise generated by boundary-layer instabilities. <i>Journal of Sound and Vibration</i> , 2007 , 304, 677-690	3.9	31
16	Numerical Investigation of Transitional Supersonic Base Flows with Flow Control. <i>Journal of Spacecraft and Rockets</i> , 2007 , 44, 1021-1028	1.5	12
15	Direct Numerical Simulations of Trailing-Edge Noise Generated by Turbulent Boundary-Layers 2007 ,		1
14	Direct Numerical Simulations of Noise Generated by Airfoil Trailing Edges 2007 ,		6
13	A Methodology for Simulating Compressible Turbulent Flows. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 405-412	2.7	34
12	Investigation of Supersonic Wakes Using Conventional and Hybrid Turbulence Models. <i>AIAA Journal</i> , 2006 , 44, 2071-2083	2.1	7
11	Direct Numerical Simulations of Transitional Supersonic Base Flows. <i>AIAA Journal</i> , 2006 , 44, 848-858	2.1	23
10	DNS of Trailing-Edge Noise Generated by Boundary-Layer Instabilities 2006 ,		1
9	Numerical Investigation of Flow Control Mechanisms for Drag Reduction in Supersonic Base-Flows 2006 ,		3
8	Numerical investigation of transitional supersonic axisymmetric wakes. <i>Journal of Fluid Mechanics</i> , 2006 , 563, 1	3.7	53
7	Nonreflecting Zonal Characteristic Boundary Condition for Direct Numerical Simulation of Aerodynamic Sound. <i>AIAA Journal</i> , 2006 , 44, 402-405	2.1	113
6	Direct Numerical Simulations of Transitional Supersonic Base Flows 2005 ,		6
5	Instability Mechanisms in Supersonic Base Flows 2004 ,		6
4	Application of a new Flow Simulation Methodology for Supersonic Axisymmetric Wakes 2004 ,		6
3	A Methodology for Simulating Compressible Turbulent Flows 2003 , 1887		6

2	A Flow Simulation Methodology for Compressible Turbulent Axisymmetric Wakes 2003 ,	5
1	MACHINE LEARNING FOR THE DEVELOPMENT OF DATA DRIVEN TURBULENCE CLOSURES IN COOLANT SYSTEMS. <i>Journal of Turbomachinery</i> ,1-13	1.8 2