D S Henningson

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.

119 8,189 42 89 g-index

131 9,805 3.4 6.11 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
119	Stability of Floating Wind Turbine Wakes. <i>Journal of Physics: Conference Series</i> , 2021 , 1934, 012009	0.3	O
118	The colour of forcing statistics in resolvent analyses of turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2021 , 907,	3.7	9
117	Forcing statistics in resolvent analysis: application in minimal turbulent Couette flow. <i>Journal of Fluid Mechanics</i> , 2021 , 908,	3.7	7
116	Experimental control of TollmienBchlichting waves using pressure sensors and plasma actuators. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	1
115	On the onset of aeroelastic pitch-oscillations of a NACA0012 wing at transitional Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2021 , 105, 103344	3.1	
114	Statistical characterization of free-stream turbulence induced transition under variable Reynolds number, free-stream turbulence, and pressure gradient. <i>Physics of Fluids</i> , 2021 , 33, 094115	4.4	1
113	Modeling the collapse of the edge when two transition routes compete. <i>Physical Review E</i> , 2020 , 102, 053108	2.4	
112	Parametric dependencies of the yawed wind-turbine wake development. Wind Energy, 2020, 23, 1367-1	3 8 .p	3
111	Actuator and sensor placement for closed-loop control of convective instabilities. <i>Theoretical and Computational Fluid Dynamics</i> , 2020 , 34, 619-641	2.3	1
110	A realizable data-driven approach to delay bypass transition with control theory. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	3
109	Resolvent analysis in unbounded flows: role of free-stream modes. <i>Theoretical and Computational Fluid Dynamics</i> , 2020 , 34, 163-176	2.3	O
108	Global linear analysis of a jet in cross-flow at low velocity ratios. <i>Journal of Fluid Mechanics</i> , 2020 , 889,	3.7	3
107	Optimal perturbations and transition energy thresholds in boundary layer shear flows. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
106	Edge manifold as a Lagrangian coherent structure in a high-dimensional state space. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
105	On the role of actuation for the control of streaky structures in boundary layers. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	6
104	Numerical realization of helical vortices: application to vortex instability. <i>Theoretical and Computational Fluid Dynamics</i> , 2020 , 34, 1-20	2.3	5
103	Resolvent modelling of near-wall coherent structures in turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 85, 108662	2.4	8

(2016-2020)

102	On the linear global stability analysis of rigid-body motion fluid tructure-interaction problems. <i>Journal of Fluid Mechanics</i> , 2020 , 903,	3.7	4	
101	Spectral proper orthogonal decomposition and resolvent analysis of near-wall coherent structures in turbulent pipe flows. <i>Journal of Fluid Mechanics</i> , 2020 , 900,	3.7	15	
100	Tip-vortex instabilities of two in-line wind turbines. <i>Journal of Physics: Conference Series</i> , 2019 , 1256, 012015	0.3	3	
99	Local and global pairing instabilities of two interlaced helical vortices. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 927-955	3.7	20	
98	On the stability of a Blasius boundary layer subject to localised suction. <i>Journal of Fluid Mechanics</i> , 2019 , 871, 717-741	3.7	3	
97	On the relevance of Reynolds stresses in resolvent analyses of turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 969-984	3.7	30	
96	Transfer functions for flow predictions in wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , 2019 , 864, 708-745	3.7	15	
95	Tip-vortex breakdown of wind turbines subject to shear. Wind Energy, 2019 , 22, 1789-1799	3.4	8	
94	Edge tracking in spatially developing boundary layer flows. <i>Journal of Fluid Mechanics</i> , 2019 , 881, 164-1	183.7	7	
93	Unsteady aerodynamic effects in small-amplitude pitch oscillations of an airfoil. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 378-391	2.4	21	
92	e-Science in Scandinavia. <i>Informatik-Spektrum</i> , 2018 , 41, 398-404	0.3	0	
91	Topology optimization of heat sinks in a square differentially heated cavity. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 74, 36-52	2.4	5	
90	On the wave-cancelling nature of boundary layer flow control. <i>Theoretical and Computational Fluid Dynamics</i> , 2018 , 32, 593-616	2.3	7	
89	Adjoint optimization of natural convection problems: differentially heated cavity. <i>Theoretical and Computational Fluid Dynamics</i> , 2017 , 31, 537-553	2.3	5	
88	Energy efficiency and performance limitations of linear adaptive control for transition delay. <i>Journal of Fluid Mechanics</i> , 2017 , 810, 60-81	3.7	10	
87	Computing Optimal Forcing Using Laplace Preconditioning. <i>Communications in Computational Physics</i> , 2017 , 22, 1508-1532	2.4	4	
86	Stability and sensitivity of a cross-flow-dominated FalknerBkanCooke boundary layer with discrete surface roughness. <i>Journal of Fluid Mechanics</i> , 2017 , 826, 830-850	3.7	9	
85	Bypass transition and spot nucleation in boundary layers. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	21	

84	Acoustic receptivity simulations of flow past a flat plate with elliptic leading edge. <i>Journal of Fluid Mechanics</i> , 2016 , 800,	3.7	4
83	Edge states as mediators of bypass transition in boundary-layer flows. <i>Journal of Fluid Mechanics</i> , 2016 , 801,	3.7	18
82	Turbulence collapse in a suction boundary layer. Journal of Fluid Mechanics, 2016, 795, 356-379	3.7	13
81	In-flight active wave cancelation with delayed-x-LMS control algorithm in a laminar boundary layer. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	9
80	Optimal wavepackets in streamwise corner flow. <i>Journal of Fluid Mechanics</i> , 2015 , 766, 405-435	3.7	4
79	Feedback Control for Laminarization of flow over Wings. <i>Flow, Turbulence and Combustion</i> , 2015 , 94, 43-62	2.5	7
78	Global stability and optimal perturbation for a jet in cross-flow. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 438-447	2.4	16
77	On the role of adaptivity for robust laminar flow control. <i>Journal of Fluid Mechanics</i> , 2015 , 767,	3.7	25
76	On the near-wall vortical structures at moderate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , 2014 , 48, 75-93	2.4	45
75	Complexity of localised coherent structures in a boundary-layer flow. <i>European Physical Journal E</i> , 2014 , 37, 32	1.5	13
74	Adaptive and Model-Based Control Theory Applied to Convectively Unstable Flows. <i>Applied Mechanics Reviews</i> , 2014 , 66,	8.6	43
73	Mutual inductance instability of the tip vortices behind a wind turbine. <i>Journal of Fluid Mechanics</i> , 2014 , 755, 705-731	3.7	88
72	Stabilization of the Spectral Element Method in Convection Dominated Flows by Recovery of Skew-Symmetry. <i>Journal of Scientific Computing</i> , 2013 , 57, 254-277	2.3	20
71	Output Feedback Control of Blasius Flow with Leading Edge Using Plasma Actuator. <i>AIAA Journal</i> , 2013 , 51, 2192-2207	2.1	14
70	Minimal transition thresholds in plane Couette flow. <i>Physics of Fluids</i> , 2013 , 25, 084103	4.4	51
69	Stabilization of a swept-wing boundary layer by distributed roughness elements. <i>Journal of Fluid Mechanics</i> , 2013 , 718,	3.7	29
68	Riccati-less approach for optimal control and estimation: an application to two-dimensional boundary layers. <i>Journal of Fluid Mechanics</i> , 2013 , 731, 394-417	3.7	22
67	Localized edge states in the asymptotic suction boundary layer. <i>Journal of Fluid Mechanics</i> , 2013 , 717,	3.7	40

66	Transition delay in a boundary layer flow using active control. Journal of Fluid Mechanics, 2013, 731, 288	3- 3 . 7 1	28
65	Feedback control of instabilities in the two-dimensional Blasius boundary layer: The role of sensors and actuators. <i>Physics of Fluids</i> , 2013 , 25, 054106	4.4	43
64	Swept-wing boundary-layer receptivity. Journal of Fluid Mechanics, 2012, 700, 490-501	3.7	16
63	Spatial optimal growth in three-dimensional compressible boundary layers. <i>Journal of Fluid Mechanics</i> , 2012 , 704, 251-279	3.7	25
62	Bifurcation and stability analysis of a jet in cross-flow: onset of global instability at a low velocity ratio. <i>Journal of Fluid Mechanics</i> , 2012 , 696, 94-121	3.7	38
61	Swept wing boundary-layer receptivity to localized surface roughness. <i>Journal of Fluid Mechanics</i> , 2012 , 711, 516-544	3.7	37
60	Self-similar transport of inertial particles in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2012 , 706, 584-596	3.7	27
59	Self-sustained localized structures in a boundary-layer flow. <i>Physical Review Letters</i> , 2012 , 108, 044501	7.4	43
58	The effect of small-amplitude convective disturbances on the size and bursting of a laminar separation bubble. <i>Journal of Fluid Mechanics</i> , 2011 , 671, 1-33	3.7	80
57	Transition delay using control theory. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 1365-81	3	30
56	Nonequilibrium thermodynamics and the optimal path to turbulence in shear flows. <i>Physical Review Letters</i> , 2011 , 106, 134502	7.4	72
55	Feedback control of three-dimensional optimal disturbances using reduced-order models. <i>Journal of Fluid Mechanics</i> , 2011 , 677, 63-102	3.7	45
54	Global three-dimensional optimal disturbances in the Blasius boundary-layer flow using time-steppers. <i>Journal of Fluid Mechanics</i> , 2010 , 650, 181-214	3.7	83
53	Receptivity to free-stream vorticity of flow past a flat plate with elliptic leading edge. <i>Journal of Fluid Mechanics</i> , 2010 , 653, 245-271	3.7	54
52	Global stability of a jet in crossflow. <i>Journal of Fluid Mechanics</i> , 2009 , 624, 33-44	3.7	148
51	Input-Output Analysis and Control Design Applied to a Linear Model of Spatially Developing Flows. <i>Applied Mechanics Reviews</i> , 2009 , 62,	8.6	102
50	Spectral analysis of nonlinear flows. Journal of Fluid Mechanics, 2009, 641, 115-127	3.7	1064
49	Matrix-Free Methods for the Stability and Control of Boundary Layers. <i>AIAA Journal</i> , 2009 , 47, 1057-106	5 & .1	67

48	Turbulent boundary layers up to Re∄2500 studied through simulation and experiment. <i>Physics of Fluids</i> , 2009 , 21, 051702	4.4	161
47	InputButput analysis, model reduction and control of the flat-plate boundary layer. <i>Journal of Fluid Mechanics</i> , 2009 , 620, 263-298	3.7	109
46	On streak breakdown in bypass transition. <i>Physics of Fluids</i> , 2008 , 20, 101505	4.4	112
45	DNS and LES of estimation and control of transition in boundary layers subject to free-stream turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 841-855	2.4	29
44	Global two-dimensional stability measures of the flat plate boundary-layer flow. <i>European Journal of Mechanics, B/Fluids</i> , 2008 , 27, 501-513	2.4	89
43	Linear feedback control and estimation applied to instabilities in spatially developing boundary layers. <i>Journal of Fluid Mechanics</i> , 2007 , 588, 163-187	3.7	33
42	Turbulent spots in the asymptotic suction boundary layer. <i>Journal of Fluid Mechanics</i> , 2007 , 584, 397-41	1 3 3.7	20
41	Optimal disturbances in suction boundary layers. <i>European Journal of Mechanics, B/Fluids</i> , 2007 , 26, 330)- 3 .4β	8
40	Steady solutions of the Navier-Stokes equations by selective frequency damping. <i>Physics of Fluids</i> , 2006 , 18, 068102	4.4	186
39	State estimation in wall-bounded flow systems. Part 2. Turbulent flows. <i>Journal of Fluid Mechanics</i> , 2006 , 552, 167	3.7	50
38	High Order Accurate Solution of Flow Past a Circular Cylinder. <i>Journal of Scientific Computing</i> , 2006 , 27, 431-441	2.3	20
37	The Influence of Periodic Excitation on a Turbulent Separation Bubble. <i>Flow, Turbulence and Combustion</i> , 2006 , 76, 1-21	2.5	13
36	Optimal feedback control applied to boundary layer flow. Journal of Turbulence, 2005, 6, N25	2.1	2
35	A study of the Blasius wall jet. <i>Journal of Fluid Mechanics</i> , 2005 , 539, 313	3.7	34
34	Transient growth on boundary layer streaks. Journal of Fluid Mechanics, 2005, 537, 91	3.7	60
33	State estimation in wall-bounded flow systems. Part 1. Perturbed laminar flows. <i>Journal of Fluid Mechanics</i> , 2005 , 534, 263-294	3.7	56
32	Transition in boundary layers subject to free-stream turbulence. <i>Journal of Fluid Mechanics</i> , 2004 , 517, 167-198	3.7	263
31	Relaminarization of Re🛮 100 turbulence using gain scheduling and linear state-feedback control. <i>Physics of Fluids</i> , 2003 , 15, 3572-3575	4.4	50

(1998-2003)

30	Exponential vs Algebraic Growth and Transition Prediction in Boundary Layer Flow. <i>Flow, Turbulence and Combustion</i> , 2003 , 70, 183-210	2.5	32
29	Linear feedback control and estimation of transition in plane channel flow. <i>Journal of Fluid Mechanics</i> , 2003 , 481, 149-175	3.7	114
28	On the convectively unstable nature of optimal streaks in boundary layers. <i>Journal of Fluid Mechanics</i> , 2003 , 485, 221-242	3.7	57
27	Weakly nonlinear analysis of boundary layer receptivity to free-stream disturbances. <i>Physics of Fluids</i> , 2002 , 14, 1426-1441	4.4	17
26	Varicose instabilities in turbulent boundary layers. <i>Physics of Fluids</i> , 2002 , 14, 2309	4.4	32
25	Transition of streamwise streaks in zero-pressure-gradient boundary layers. <i>Journal of Fluid Mechanics</i> , 2002 , 472, 229-261	3.7	100
24	Direct numerical simulation of a separated turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2002 , 471, 107-136	3.7	110
23	Linear optimal control applied to instabilities in spatially developing boundary layers. <i>Journal of Fluid Mechanics</i> , 2002 , 470, 151-179	3.7	44
22	Adjoint-based optimization of steady suction for disturbance control in incompressible flows. <i>Journal of Fluid Mechanics</i> , 2002 , 467, 129-161	3.7	37
21	On the stability of a falling liquid curtain. <i>Journal of Fluid Mechanics</i> , 2002 , 463, 163-171	3.7	39
20	A numerical and experimental study of a transitional separation bubble. <i>Aerospace Science and Technology</i> , 2001 , 5, 317-328	4.9	41
19	On the breakdown of boundary layer streaks. <i>Journal of Fluid Mechanics</i> , 2001 , 428, 29-60	3.7	311
18	Stability and Transition in Shear Flows. Applied Mathematical Sciences (Switzerland), 2001,	0.9	1236
17	Sensitivity Analysis Using Adjoint Parabolized Stability Equations for Compressible Flows. <i>Flow, Turbulence and Combustion</i> , 2000 , 65, 321-346	2.5	47
16	Optimal disturbances and bypass transition in boundary layers. <i>Physics of Fluids</i> , 1999 , 11, 134-150	4.4	430
15	A nonlinear mechanism for receptivity of free-stream disturbances. <i>Physics of Fluids</i> , 1999 , 11, 3749-37	'604.4	24
14	On stability of streamwise streaks and transition thresholds in plane channel flows. <i>Journal of Fluid Mechanics</i> , 1998 , 365, 269-303	3.7	182
13	Linear and nonlinear development of localized disturbances in zero and adverse pressure gradient boundary-layers. <i>Physics of Fluids</i> , 1998 , 10, 1405-1418	4.4	23

12	Transient growth in compressible boundary layer flow. <i>Physics of Fluids</i> , 1996 , 8, 826-837	4.4	166
11	Localized disturbances in parallel shear flows. Flow, Turbulence and Combustion, 1994, 53, 51-97		15
10	Optimal energy density growth in Hagen B oiseuille flow. <i>Journal of Fluid Mechanics</i> , 1994 , 277, 197-225	3.7	173
9	Bounds for threshold amplitudes in subcritical shear flows. <i>Journal of Fluid Mechanics</i> , 1994 , 270, 175-1	9§ .7	60
8	Energy growth in viscous channel flows. <i>Journal of Fluid Mechanics</i> , 1993 , 252, 209-238	3.7	510
7	A mechanism for bypass transition from localized disturbances in wall-bounded shear flows. <i>Journal of Fluid Mechanics</i> , 1993 , 250, 169-207	3.7	167
6	A study of eigenvalue sensitivity for hydrodynamic stability operators. <i>Theoretical and Computational Fluid Dynamics</i> , 1993 , 4, 227-240	2.3	25
5	A new mechanism for rapid transition involving a pair of oblique waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992 , 4, 1986-1989		99
4	On turbulent spots in plane Poiseuille flow. <i>Journal of Fluid Mechanics Digital Archive</i> , 1991 , 228, 183		12
3	Wave growth and spreading of a turbulent spot in plane Poiseuille flow. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989 , 1, 1876-1882		18
2	The wave structure of turbulent spots in plane Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 1987 , 178, 405-421	3.7	46
1	On time-dependent settling of a dilute suspension in a rotating conical channel. <i>Journal of Fluid Mechanics</i> , 1986 , 166, 473	3.7	16