

# Ardeshir Hanifi

## List of Publications by Year in descending order

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84  
papers

1,681  
citations

331259

21  
h-index

301761

39  
g-index

88  
all docs

88  
docs citations

88  
times ranked

815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient growth in compressible boundary layer flow. <i>Physics of Fluids</i> , 1996, 8, 826-837.	1.6	247
2	Turbulent boundary layers around wing sections up to $\alpha = 15^\circ$ . <i>International Journal of Heat and Fluid Flow</i> , 2018, 72, 86-99.	1.1	89
3	On a Stabilization Procedure for the Parabolic Stability Equations. <i>Journal of Engineering Mathematics</i> , 1998, 33, 311-332.	0.6	86
4	Direct numerical simulation of the flow around a wing section at moderate Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 117-128.	1.1	78
5	Swept wing boundary-layer receptivity to localized surface roughness. <i>Journal of Fluid Mechanics</i> , 2012, 711, 516-544.	1.4	68
6	Spatial optimal growth in three-dimensional boundary layers. <i>Journal of Fluid Mechanics</i> , 2010, 646, 5-37.	1.4	54
7	Sensitivity Analysis Using Adjoint Parabolized Stability Equations for Compressible Flows. <i>Flow, Turbulence and Combustion</i> , 2000, 65, 321-346.	1.4	53
8	Modal Stability Theory. <i>Applied Mechanics Reviews</i> , 2014, 66, .	4.5	53
9	The stabilizing effect of streaks on Tollmien-Schlichting and oblique waves: A parametric study. <i>Physics of Fluids</i> , 2007, 19, .	1.6	50
10	Adjoint-based optimization of steady suction for disturbance control in incompressible flows. <i>Journal of Fluid Mechanics</i> , 2002, 467, 129-161.	1.4	49
11	Shape Optimization for Delay of Laminar-Turbulent Transition. <i>AIAA Journal</i> , 2006, 44, 1009-1024.	1.5	46
12	Pressure-Gradient Turbulent Boundary Layers Developing Around a Wing Section. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 613-641.	1.4	46
13	Stabilization of a swept-wing boundary layer by distributed roughness elements. <i>Journal of Fluid Mechanics</i> , 2013, 718, .	1.4	41
14	The attenuation of sound by turbulence in internal flows. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3764-3776.	0.5	41
15	Spatial optimal growth in three-dimensional compressible boundary layers. <i>Journal of Fluid Mechanics</i> , 2012, 704, 251-279.	1.4	40
16	The Nonlinear PSE-3D Concept for Transition Prediction in Flows with a Single Slowly-varying Spatial Direction. <i>Procedia IUTAM</i> , 2015, 14, 36-44.	1.2	37
17	Unsteady aerodynamic effects in small-amplitude pitch oscillations of an airfoil. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 378-391.	1.1	30
18	The compressible inviscid algebraic instability for streamwise independent disturbances. <i>Physics of Fluids</i> , 1998, 10, 1784-1786.	1.6	28

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19	Numerical and theoretical investigation of pulsatile turbulent channel flows. Journal of Fluid Mechanics, 2016, 792, 98-133.	1.4	27
20	Stabilization of the hypersonic boundary layer by finite-amplitude streaks. Physics of Fluids, 2016, 28, .	1.6	26
21	Optimization of steady suction for disturbance control on infinite swept wings. Physics of Fluids, 2003, 15, 2756-2772.	1.6	24
22	Stability and sensitivity of a cross-flow-dominated Falkner-Skan-Cooke boundary layer with discrete surface roughness. Journal of Fluid Mechanics, 2017, 826, 830-850.	1.4	22
23	Transition Prediction and Impact on a Three-Dimensional High-Lift-Wing Configuration. Journal of Aircraft, 2008, 45, 1751-1766.	1.7	21
24	An experimental and theoretical investigation of instabilities in hypersonic flat plate boundary layer flow. Physics of Fluids, 1995, 7, 877-887.	1.6	20
25	Swept-wing boundary-layer receptivity. Journal of Fluid Mechanics, 2012, 700, 490-501.	1.4	20
26	Control of a swept-wing boundary layer using ring-type plasma actuators. Journal of Fluid Mechanics, 2018, 844, 36-60.	1.4	19
27	Experimental and theoretical study of swept-wing boundary-layer instabilities. Unsteady crossflow instability. Physics of Fluids, 2019, 31, .	1.6	19
28	On the wave-cancelling nature of boundary layer flow control. Theoretical and Computational Fluid Dynamics, 2018, 32, 593-616.	0.9	18
29	Output Feedback Control of Blasius Flow with Leading Edge Using Plasma Actuator. AIAA Journal, 2013, 51, 2192-2207.	1.5	17
30	The stability of wakes of floating wind turbines. Physics of Fluids, 2022, 34, .	1.6	16
31	Direct Numerical Simulations of Bypass Transition over Distributed Roughness. AIAA Journal, 2020, 58, 702-711.	1.5	15
32	On the role of actuation for the control of streaky structures in boundary layers. Journal of Fluid Mechanics, 2020, 883, .	1.4	15
33	On the calculation of the complex wavenumber of plane waves in rigid-walled low-Mach-number turbulent pipe flows. Journal of Sound and Vibration, 2015, 354, 132-153.	2.1	14
34	Spanwise-coherent hydrodynamic waves around flat plates and airfoils. Journal of Fluid Mechanics, 2021, 927, .	1.4	14
35	Influence of Transition on High-Lift Prediction with the NASA Trap Wing Model. , 2011, , .		13
36	A realizable data-driven approach to delay bypass transition with control theory. Journal of Fluid Mechanics, 2020, 883, .	1.4	13

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37	Experimental and theoretical study of swept-wing boundary-layer instabilities. Three-dimensional Tollmien-Schlichting instability. <i>Physics of Fluids</i> , 2019, 31, 114104.	1.6	12
38	Transition in an infinite swept-wing boundary layer subject to surface roughness and free-stream turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 931, .	1.4	11
39	Transonic High Reynolds Number Transition Experiments in the ETW Cryogenic Wind Tunnel. , 2010, , .		10
40	Control of Instabilities in an Unswept Wing Boundary Layer. <i>AIAA Journal</i> , 2018, 56, 1750-1759.	1.5	10
41	On the linear global stability analysis of rigid-body motion fluid-structure-interaction problems. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	1.4	10
42	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, .	1.6	10
43	Improving the Prediction for the NASA High-Lift Trap Wing Model. , 2011, , .		9
44	Transition Prediction and Impact on 3D High-Lift Wing Configuration. , 2007, , .		8
45	Numerical study of boundary-layer receptivity on a swept wing. , 2011, , .		8
46	Laminar-turbulent transition delay on a swept wing. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	8
47	Global linear analysis of a jet in cross-flow at low velocity ratios. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	1.4	8
48	Experimental control of Tollmien-Schlichting waves using pressure sensors and plasma actuators. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	8
49	Design and Tests of Wind-Tunnel Sidewalls for Receptivity Experiments on a Swept Wing. <i>Applied Mechanics and Materials</i> , 0, 390, 96-102.	0.2	7
50	Global Stability Analysis of a Roughness Wake in a Falkner-Skan-Cooke Boundary Layer. <i>Procedia IUTAM</i> , 2015, 14, 192-200.	1.2	7
51	Feedback Control for Laminarization of flow over Wings. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 43-62.	1.4	7
52	Free-Stream Turbulence-Induced Boundary-Layer Transition in Low-Pressure Turbines. <i>Journal of Turbomachinery</i> , 2021, 143, .	0.9	7
53	Transient growth analysis of hypersonic flow over an elliptic cone. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	7
54	Unstable flow structures in the Blasius boundary layer. <i>European Physical Journal E</i> , 2014, 37, 34.	0.7	6

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55	Resolvent analysis in unbounded flows: role of free-stream modes. Theoretical and Computational Fluid Dynamics, 2020, 34, 163-176.	0.9	6
56	Optimal wavepackets in streamwise corner flow. Journal of Fluid Mechanics, 2015, 766, 405-435.	1.4	5
57	Acoustic receptivity simulations of flow past a flat plate with elliptic leading edge. Journal of Fluid Mechanics, 2016, 800, .	1.4	5
58	On the stability of a Blasius boundary layer subject to localised suction. Journal of Fluid Mechanics, 2019, 871, 717-741.	1.4	5
59	Transient linear stability of pulsating Poiseuille flow using optimally time-dependent modes. Journal of Fluid Mechanics, 2021, 927, .	1.4	5
60	Effect of Freestream Turbulence on Roughness-induced Crossflow Instability. Procedia IUTAM, 2015, 14, 303-310.	1.2	4
61	Actuator and sensor placement for closed-loop control of convective instabilities. Theoretical and Computational Fluid Dynamics, 2020, 34, 619-641.	0.9	4
62	On the onset of aeroelastic pitch-oscillations of a NACA0012 wing at transitional Reynolds numbers. Journal of Fluids and Structures, 2021, 105, 103344.	1.5	4
63	Sound-turbulence interaction in low Mach number duct flow. , 2013, , .		3
64	Generation of unsteady CF-instability modes by vibrational and vibration-vortex localized receptivity mechanisms. AIP Conference Proceedings, 2018, , .	0.3	3
65	Disturbance growth on a NACA0008 wing subjected to free stream turbulence. Journal of Fluid Mechanics, 2022, 944, .	1.4	3
66	Effect of Upstream Flow Deformation Using Plasma Actuators on Crossflow Transition Induced by Unsteady Vortical Free-Stream Disturbances. , 2017, , .		2
67	Global Transient-Growth Analysis of Hypersonic Flow on the HIFiRE-5 Elliptic Cone Model. , 2019, , .		2
68	A Gradient-based Optimization Method for Natural Laminar Flow Design. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 3-10.	0.1	2
69	Excitation of 3D TS-waves in a swept-wing boundary layer by surface vibrations and freestream vortices. AIP Conference Proceedings, 2018, , .	0.3	1
70	LES of the Unsteady Response of a Natural Laminar Flow Airfoil. , 2018, , .		1
71	Unsteady Response of Natural Laminar Flow Airfoil Undergoing Small-Amplitude Pitch Oscillations. AIAA Journal, 0, , 1-10.	1.5	1
72	On the receptivity of low-pressure turbine blades to external disturbances. Journal of Fluid Mechanics, 2022, 937, .	1.4	1

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73	Stability of two-dimensional potential flows using bicomplex numbers. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, .	1.0	1
74	Subharmonic eigenvalue orbits in the spectrum of pulsating Poiseuille flow. Journal of Fluid Mechanics, 2022, 945, .	1.4	1
75	Stability of Boundary Layer Flows. ERCOFTAC Series, 1999, , 51-103.	0.1	0
76	Optimal Suction Design for HLFC Applications. , 2003, , .		0
77	Stabilization of the Hypersonic Boundary Layer by Finite-Amplitude Streaks. , 2016, , .		0
78	Receptivity coefficients of vortex-vibrational type at excitation of 3D Tollmien-Schlichting waves in a boundary layer on a swept wing. AIP Conference Proceedings, 2019, , .	0.3	0
79	Modern Transition Prediction Techniques Based on Adjoint Methods. , 2001, , 164-171.		0
80	Optimization of Steady Suction for Disturbance Control on Infinite Swept Wings. , 2002, , .		0
81	The Application of Optimal Control to Boundary Layer Flow. Solid Mechanics and Its Applications, 2006, , 59-71.	0.1	0
82	Adjoint Methods for Natural, and Hybrid Laminar Flow Design (Invited). , 2008, , .		0
83	Spatial Optimal Disturbances in Three-Dimensional Boundary Layers. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 589-592.	0.1	0
84	Video: Turbulent flow around a wing profile, a direct numerical simulation. , 0, , .		0