

# Hermann F Fasel

## List of Publications by Year in descending order

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216  
papers

5,010  
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times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Understanding of Natural Boundary-Layer Transition for Low-Speed Flows via Random Excitation. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2022, , 391-405.	0.2	0
2	Direct Numerical Simulations (DNS) of Natural Transition in High-Speed Boundary Layers Using a Broadband Random Forcing Approach. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2022, , 565-574.	0.2	6
3	High-Fidelity Versatile Incompressible Flow Solver for Direct Numerical Simulations and Linear Stability Investigations. , 2022, , .		4
4	Active Control of Boundary-layer Transition in Laminar Separation Bubbles. , 2022, , .		1
5	Unsteady Behavior of a Laminar Separation Bubble Subjected to Wing Structural Motion. , 2022, , .		3
6	Numerical investigation of the laminar-turbulent transition process for the HIFiRE-1 Flight Test. , 2022, , .		2
7	Numerical investigation of the effects of wall heating and cooling on the nonlinear transition stages for a sharp cone at Mach 6. , 2022, , .		1
8	Numerical Investigation of Boundary-Layer Transition initiated by Random Disturbances for a Flat Plate at Mach 6. , 2022, , .		0
9	Numerical Investigation of Hypersonic Boundary-Layer Transition for an Ogive Cone. , 2022, , .		2
10	Direct Numerical Simulations of Laminar-Turbulent Transition for Transonic Boundary Layers initiated by Random Disturbances. , 2022, , .		0
11	Numerical Investigation of Boundary-Layer Transition for a slender cone at Mach 6 initiated with Random Disturbances. , 2022, , .		3
12	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a Sharp Cone at Mach 10. , 2022, , .		1
13	Investigation of Transition and its Active Control in Separation Bubbles for a Wing Section at Re=200k: DNS, Theory, and Experiments. , 2022, , .		3
14	A nonlinear compressible flow disturbance formulation for adaptive mesh refinement wavepacket tracking in hypersonic boundary-layer flows. Computers and Fluids, 2022, 240, 105395.	2.5	19
15	Nonlinear wave packet simulation for a cone at Mach 10 using a GPU accelerated pseudo-spectral scheme. , 2022, , .		0
16	Flow control using steady blowing and suction strips in a Mach 6 Boundary Layer on a Flared Cone: Natural Transition. , 2022, , .		0
17	Machine-Learning-Based Amplification Factor Transport Equation for Hypersonic Boundary-Layers. , 2022, , .		0
18	Numerical investigation of the nonlinear transition stages for a sharp cone at Mach 10. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
19	Laminar-Turbulent Transition in a Swept Low-Speed Boundary Layer. , 2022, , .		0
20	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a straight cone at Mach 5. , 2021, , .		2
21	Direct Numerical Simulations of laminar-turbulent boundary-layer transition for a blunt cone at Mach 6. , 2021, , .		0
22	Direct Numerical Simulations of Nonlinear Entropy-Layer Instability Waves. , 2021, , .		1
23	Direct Numerical Simulations of the Nonlinear Boundary Layer Transition Regime on a Flat Plate at Mach 6. , 2021, , .		5
24	Direct Numerical Simulations of Laminar-Turbulent Transition for Transonic Boundary Layers. , 2021, , .		0
25	Nonlinear transition mechanism on a blunt cone at Mach 6: oblique breakdown. Journal of Fluid Mechanics, 2021, 915, .	3.4	25
26	Numerical Investigation of Nonlinear Boundary-Layer Transition for Cones at Mach 6. AIAA Journal, 2021, 59, 1940-1952.	2.6	10
27	Wave Packet Development in Three-Dimensional Low-Speed Laminar Boundary Layers. , 2021, , .		0
28	Three-dimensional wave packets in a Mach 10 Boundary Layer on a Sharp Cone. , 2021, , .		0
29	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a Straight Cone at Mach 7. , 2021, , .		0
30	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a Straight Cone at Mach 4: Oblique Breakdown. , 2021, , .		1
31	Investigation of Laminar Separation Bubbles Using Experiments, Theory and DNS. , 2021, , .		5
32	Unsteady Evolution of a Laminar Separation Bubble Subjected to Structural Motion. , 2021, , .		6
33	Direct Numerical Simulations of laminar-turbulent boundary-layer transition for blunt cones at Mach 6: Effect of Varying Nose Bluntness. , 2021, , .		0
34	High-Order Accurate Incompressible Navier-Stokes Solver Based on Vorticity-Velocity Formulation for Orthogonal Curvilinear Grids. , 2021, , .		3
35	Numerical Investigation of Flow Inside the Collector of a Solar Chimney Power Plant. , 2021, , .		1
36	Flow control using steady blowing and suction strips in a Mach 6 Boundary Layer on a Flared Cone. , 2021, , .		2

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37	Direct Numerical Simulations of the Nonlinear Transition Regime on a Flat Plate at Mach 6. , 2020, , .		1
38	Experimental and Numerical Investigation of a Roof-Scale Solar Chimney. , 2020, , .		2
39	Three-dimensional wave packet in a Mach 6 boundary layer on a flared cone. Journal of Fluid Mechanics, 2020, 885, .	3.4	34
40	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a slender cone. , 2020, , .		5
41	Investigation of low-speed boundary-layer instability and transition using experiments, theory and DNS. , 2020, , .		2
42	A Nonlinear Wavepacket Tracking Method for Hypersonic Boundary-Layer Flows on Irregular Domains. , 2020, , .		2
43	Numerical Investigation of Nonlinear Entropy-Layer Instability Waves for Hypersonic Boundary-Layers. , 2020, , .		1
44	Wave packets on a flared cone at Mach 6. , 2020, , .		0
45	Onset of Three-Dimensionality and Transition in Controlled Separation Bubbles: Secondary Instability Analysis and Direct Numerical Simulations. , 2020, , .		1
46	A Fourth-Order Accurate Compact Difference Scheme for Solving the Three-Dimensional Poisson Equation With Arbitrary Boundaries. , 2020, , .		1
47	Direct numerical simulations of hypersonic boundary-layer transition for a flared cone: fundamental breakdown. Journal of Fluid Mechanics, 2019, 869, 341-384.	3.4	101
48	History and Progress of Boundary-Layer Transition on a Mach-6 Flared Cone. Journal of Spacecraft and Rockets, 2019, 56, 333-346.	1.9	55
49	Numerical investigation of laminar-turbulent transition in laminar separation bubbles: the effect of free-stream turbulence. Journal of Fluid Mechanics, 2019, 858, 714-759.	3.4	67
50	Synchronization of second-mode instability waves for high-enthalpy hypersonic boundary layers. Journal of Fluid Mechanics, 2018, 838, .	3.4	14
51	A history and progress of second mode dominated boundary-layer transition on a Mach 6 flared cone. , 2018, , .		5
52	Numerical Investigation of Shock Wave Turbulent Boundary Layer Interactions. , 2018, , .		10
53	Active Flow Control of the Laminar Separation Bubble on an Oscillating Airfoil Near Stall. , 2018, , .		4
54	Towards simulating natural transition in hypersonic boundary layers via random inflow disturbances. Journal of Fluid Mechanics, 2018, 847, .	3.4	83

#	ARTICLE	IF	CITATIONS
55	Hypersonic Boundary-Layer Transition: Comparison of the Fundamental Resonance Breakdown for a Flared and Straight Cone at Mach 6. , 2018, , .		2
56	An efficient, high-order method for solving Poisson equation for immersed boundaries: Combination of compact difference and multiscale multigrid methods. Journal of Computational Physics, 2018, 374, 912-940.	3.8	28
57	Role of Klebanoff modes in active flow control of separation: direct numerical simulations. Journal of Fluid Mechanics, 2018, 850, 954-983.	3.4	29
58	Fundamental Resonance Breakdown for a Flared Cone at Mach 6. , 2017, , .		9
59	Oscillatory Plunging Motion Applied to an Airfoil Near Stall. , 2017, , .		6
60	Very High-Order Accurate Sharp Immersed Interface Method: Application to Direct Numerical Simulations of Incompressible Flows. , 2017, , .		10
61	An Efficient Strategy for Computing Wave-Packets in High-Speed Boundary Layers. , 2017, , .		14
62	Numerical Investigation of the Interaction of Active Flow Control and Klebanoff Modes. , 2017, , .		6
63	Numerical Simulation of Wing Section Undergoing Plunging Motions at High Angles of Attack. , 2017, , .		4
64	A Numerical Jacobian Based Linearized Compressible Navier-Stokes Solver For Hypersonic Boundary-Layer Stability. , 2017, , .		9
65	Numerical investigation of the role of free-stream turbulence in boundary-layer separation. Journal of Fluid Mechanics, 2016, 801, 289-321.	3.4	55
66	The Reynolds Number Effect on Receptivity to a Localized Disturbance in a Hypersonic Boundary Layer. , 2016, , .		4
67	Laminar-Turbulent Transition on a Flared Cone at Mach 6. , 2016, , .		9
68	Numerical Investigation of Oblique-Shock/Boundary-Layer Interactions in Supersonic Flows. , 2016, , .		0
69	Numerical Simulation of Wing Section Near Stall. , 2016, , .		3
70	Direct Numerical Simulations of Laminar-to-Turbulent Transition in Laminar Separation Bubbles in Three-Dimensional Boundary-Layer. , 2016, , .		13
71	Numerical Investigation of Shockwave Boundary Layer Interactions in Supersonic Flows. , 2016, , .		2
72	Numerical Investigation of Shock Boundary-Layer Interactions. , 2016, , .		6

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73	Effects of Structural Motion on the Aerodynamics of the X-56A Airfoil. , 2016, , .		5
74	Direct Numerical Simulation of Laminar-Turbulent Transition in a Flared Cone Boundary Layer at Mach 6. , 2016, , .		8
75	Numerical Simulation of Circular Cylinders and Wing Sections in Unsteady Motion. , 2015, , .		7
76	Numerical Investigation of Nonlinear Wave-packets in a Hypersonic High-Enthalpy Boundary-Layer on a 5 deg Sharp Cone. , 2015, , .		6
77	Effect of Free-Stream Turbulence on the Structure and Dynamics of Laminar Separation Bubbles. , 2015, , .		3
78	Numerical and Experimental Wind Tunnel and Flight Testing of Active Flow Control for Modified NACA 643-618 Airfoil. , 2015, , .		3
79	Numerical Investigation of Transition in a Flared Cone Boundary Layer at Mach 6. Procedia IUTAM, 2015, 14, 26-35.	1.2	25
80	Topology and Flow Structures of Three-Dimensional Separation Bubbles: The Effect of Aspect Ratio. , 2015, , .		2
81	Numerical Investigation of Shock-Induced Laminar Separation Bubble in a Mach 2 Boundary Layer. , 2015, , .		5
82	Direct numerical simulation of transition in a sharp cone boundary layer at Mach 6: fundamental breakdown. Journal of Fluid Mechanics, 2015, 768, 175-218.	3.4	139
83	A locally stabilized immersed boundary method for the compressible Navier-Stokes equations. Journal of Computational Physics, 2015, 295, 475-504.	3.8	92
84	Linearized Navier-Stokes Simulations of the Spatial Stability of a Hypersonic Boundary-Layer on a Flared Cone. , 2015, , .		3
85	Laminar-turbulent Transition in a Laminar Separation Bubble in the Presence of Free-stream Turbulence. Procedia IUTAM, 2015, 14, 570-579.	1.2	9
86	Criterion for Spanwise Spacing of Stall Cells. AIAA Journal, 2015, 53, 272-274.	2.6	19
87	Numerical Investigation of Three-Dimensional Vortical Flow for an Ellipsoid Model. , 2014, , .		0
88	Hybrid Turbulence Model Simulations of Internal and External Flows. , 2014, , .		0
89	Numerical Investigation of Wavepackets in a Hypersonic High-Enthalpy Boundary Layer on a 5deg Sharp Cone. , 2014, , .		4
90	Numerical investigation of the development of three-dimensional wavepackets in a sharp cone boundary layer at Mach 6. Journal of Fluid Mechanics, 2014, 756, 600-649.	3.4	100

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91	Transition Onset Predictions for Oblique Breakdown in a Mach 3 Boundary Layer. AIAA Journal, 2014, 52, 882-886.	2.6	9
92	Linearized Navier-Stokes Calculations of the Spatial Stability of a Hypersonic Boundary Layer on a 5° Sharp Cone with High Temperature Effects. , 2014, , .		5
93	Numerical Investigation of transition delay for various controlled breakdown scenarios in a Mach 6 Boundary Layer using porous walls. , 2014, , .		5
94	Direct numerical simulations of laminar separation bubbles: investigation of absolute instability and active flow control of transition to turbulence. Journal of Fluid Mechanics, 2014, 747, 141-185.	3.4	40
95	Numerical Investigation of Flows with Three-Dimensional Separation. , 2013, , .		3
96	CFD analysis for solar chimney power plants. Solar Energy, 2013, 98, 12-22.	6.1	104
97	Numerical Investigation of the Effect of Free-Stream Turbulence on Separation Control by Pulsed Vortex Generator Jets. , 2013, , .		4
98	A novel concept for the design of immersed interface methods. Journal of Computational Physics, 2013, 242, 234-267.	3.8	66
99	Direct Numerical Simulations of a Laminar Separation Bubbles on a Curved Plate: Part 2 " Flow Control Using Pulsed Vortex Generator Jets. , 2013, , .		2
100	Direct Numerical Simulations of Laminar Separation Bubbles on a Curved Plate: Part 1 " Simulation Setup and Uncontrolled Flow. , 2013, , .		4
101	Computational Fluid Dynamics Investigation of Solar Chimney Power Plant. , 2013, , .		3
102	Influence of Adverse Pressure Gradient on the Spatial Development of a Wavepacket in a Flat Plate Boundary Layer. , 2013, , .		1
103	Numerical Investigation of transition delay using porous walls. , 2013, , .		5
104	Wind Tunnel and Free-Flight Testing of Active Flow Control for Modified NACA 613-618 Airfoil. , 2013, , .		4
105	Numerical Investigation of Separation Control for Wing Section at Re=300,000. , 2013, , .		2
106	Experimental Investigation of the Structure and Dynamics of Laminar Separation Bubbles at the onset of Bursting. , 2013, , .		1
107	Direct Numerical Simulations of Transition to Turbulence in Two-Dimensional Laminar Separation Bubbles. , 2013, , .		6
108	Direct Numerical Simulation of Controlled Transition In a Boundary Layer on a Sharp Cone at Mach 6. , 2013, , .		8

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109	Effect of Free-Stream Turbulence on Control of Laminar Separation Bubbles Using Pulsed Vortex Generator Jets: Direct Numerical Simulations. , 2013, , .		4
110	Novel Immersed Boundary/Interface Method for the Compressible Navier-Stokes Equations. , 2012, , .		6
111	Direct Numerical Simulations of Steady and Unsteady Stenotic Flows. , 2012, , .		0
112	Experimental Investigation of the Structure and Dynamics of Laminar Separation Bubbles. , 2012, , .		6
113	Direct Numerical Simulations of the Effect of Free-Stream Turbulence on 'Long' Laminar Separation Bubbles. , 2012, , .		14
114	Growth and Breakdown of a Wave Packet into a Turbulent Spot in a Cone Boundary Layer at Mach 6. , 2012, , .		14
115	Numerical Investigation of Separation Control for Wing Sections. , 2012, , .		3
116	Numerical Investigation of Three-Dimensional Separation on Axisymmetric Bodies at Angle of Attack. , 2012, , .		4
117	Nonlinear Stages of Transition and Breakdown in a Boundary Layer on a Sharp Cone at Mach 6. , 2012, , .		10
118	Numerical investigation of rotational augmentation for S822 wind turbine airfoil. Wind Energy, 2012, 15, 983-1007.	4.2	16
119	Investigation of Transition and Separation in the Presence of Free Stream Turbulence Using Direct Numerical Simulation. , 2012, , .		3
120	Numerical Investigation of Wave Packets in a Mach 3.5 Cone Boundary Layer. AIAA Journal, 2011, 49, 67-86.	2.6	28
121	Numerical investigation of the nonlinear transition regime in a Mach 2 boundary layer. Journal of Fluid Mechanics, 2011, 668, 113-149.	3.4	56
122	An Initial Value Problem Approach to Investigate BiGlobal Stability Problems. , 2011, , .		4
123	Temporal Direct Numerical Simulations of Oblique Breakdown for a Cone at Mach 3.5. , 2011, , .		3
124	Simulation of Flow over Suboff Bare Hull Model. , 2011, , .		12
125	Numerical Investigation of porous walls for a Mach 6.0 Boundary Layer using an Immersed Boundary Method. , 2011, , .		13
126	Numerical Investigation of Laminar-Turbulent Transition in a Cone Boundary Layer at Mach 6. , 2011, , .		14



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127	Numerical Investigation of Hypersonic Transition for a Flared and a Straight Cone at Mach 6. , 2011, , .		23
128	Transition Initiated by a Localized Disturbance in a Hypersonic Flat-Plate Boundary Layer. , 2011, , .		24
129	Numerical Investigation of Different Wind Turbine Airfoils. , 2011, , .		2
130	Numerical Investigations of the Influence of Distributed Roughness on Blasius Boundary Layer Stability. , 2011, , .		10
131	Immersed Interface Method for Solving the Incompressible Navier-Stokes Equations with Moving Boundaries. , 2011, , .		7
132	Numerical Investigation of Passive Separation Control for Airfoil at Low Reynolds Number Conditions. , 2011, , .		1
133	BiGlobal Stability Analysis as an Initial Value Problem for a Stalled Airfoil. , 2011, , .		11
134	Direct numerical simulation of complete transition to turbulence via oblique breakdown at Mach 3. Journal of Fluid Mechanics, 2011, 674, 5-42.	3.4	122
135	Stability Investigation of Axisymmetric Stenotic Flows. , 2011, , .		1
136	Control of laminar separation using pulsed vortex generator jets: direct numerical simulations. Journal of Fluid Mechanics, 2011, 676, 81-109.	3.4	64
137	Flow Control for Wind Turbine Airfoil. , 2011, , .		2
138	Performance Analysis of Solar Chimneys of Different Physical Scales Using CFD. , 2011, , .		2
139	Numerical Investigation of Separation for Airfoils. , 2011, , .		7
140	Numerical investigation of supersonic flow for axisymmetric cones. Mathematics and Computers in Simulation, 2010, 81, 133-142.	4.4	44
141	Active Flow Control for NACA 6-Series Airfoil at $Re = 64,200$ . AIAA Journal, 2010, 48, 1889-1902.	2.6	35
142	Numerical Investigation of Separation Control for Wind Turbine Airfoil. , 2010, , .		3
143	Novel Immersed Interface Method Based on Local Stability Conditions. , 2010, , .		10
144	A Non-Staggered Immersed Interface Method for Solving the Incompressible Navier-Stokes Equations. , 2010, , .		13

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145	Numerical Investigation of S822 Wind Turbine Airfoil. , 2010, , .		9
146	Experimental Investigation of Laminar Separation Bubbles on a Flat Plate. , 2010, , .		4
147	Detailed Comparison of DNS with PSE for Oblique Breakdown at Mach 3. , 2010, , .		5
148	Numerical Simulations of Controlled Transition for a Circular Cone at Mach 8. , 2010, , .		5
149	Direct Numerical Simulation of a Turbulent Spot in a Cone Boundary-Layer at Mach 6. , 2010, , .		19
150	Numerical Investigation of the Effect of Free-Stream Turbulence on Laminar Boundary-Layer Separation. , 2010, , .		14
151	Numerical Investigation of Separation for Airfoils at Low Reynolds Numbers. , 2010, , .		13
152	Direct Numerical Simulation of Laminar Boundary-Layer Separation and Separation Control on the Suction Side of an Airfoil at Low Reynolds Number Conditions. , 2010, , .		11
153	Numerical Investigation of Boundary-layer Transition Initiated by a Wave Packet for a Cone at Mach 6. , 2010, , .		16
154	Hybrid RANS/LES Simulations of Turbulent Channel and Diffuser Flows. , 2010, , .		5
155	Identification of large coherent structures in supersonic axisymmetric wakes. Computers and Fluids, 2009, 38, 1638-1650.	2.5	23
156	DNS of Complete Transition to Turbulence via Oblique Breakdown at Mach 3: Part II. , 2009, , .		10
157	Numerical Investigation of Wavepackets in a Hypersonic Cone Boundary Layer at Mach 6. , 2009, , .		12
158	Numerical Investigation of Transition Initiated by a Wave Packet on a Cone at Mach 3.5. , 2009, , .		4
159	Active Flow Control for Airfoil at Low Reynolds Numbers. , 2009, , .		6
160	Experimental Investigation of Open- and Closed-Loop Control for Airfoil Under Low Reynolds Number Conditions. , 2009, , .		31
161	Numerical Investigation of Transition for a Cone at Mach 3.5: Oblique Breakdown. , 2009, , .		26
162	Multi-block Poisson grid generator for cascade simulations. Mathematics and Computers in Simulation, 2008, 79, 416-428.	4.4	60

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163	Numerical Investigation of Supersonic Axisymmetric Wakes with Active and Passive Flow Control. , 2008, , .		2
164	Numerical Investigation of Localized Separation Induced by a Three-Dimensional Pressure Gradient. , 2008, , .		5
165	Numerical Investigation of Low-Pressure Turbine Flow Control (Invited). , 2008, , .		8
166	Numerical Investigation of Supersonic Transition for a Circular Cone at Mach 3.5. , 2008, , .		27
167	DNS of Complete Transition to Turbulence via Oblique Breakdown at Mach 3. , 2008, , .		20
168	Investigation of Asymmetric Subharmonic Resonance in a Supersonic Boundary Layer at Mach 2 Using DNS. , 2008, , .		10
169	1/5 Scale Model of Aeromot 200S SuperXimango for Scaled Flight Research. , 2008, , .		19
170	Experimental Investigation of Separation and Separation Control on a Laminar Airfoil. , 2008, , .		31
171	CFD for Investigating Active Flow Control (Invited). , 2008, , .		6
172	Investigations of an Airfoil at Low Reynolds Number Conditions. , 2008, , .		26
173	High-Order Accurate Numerical Method for Complex Flows. AIAA Journal, 2008, 46, 204-214.	2.6	162
174	Strategies for Simulating Flow Through Low-Pressure Turbine Cascade. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	4
175	Characteristic Ghost Cell Boundary Condition. AIAA Journal, 2007, 45, 302-306.	2.6	94
176	Numerical Investigation of Transitional Supersonic Base Flows with Flow Control. Journal of Spacecraft and Rockets, 2007, 44, 1021-1028.	1.9	14
177	Numerical Investigations of Hypersonic Boundary Layer Transition over Circular Cones. , 2007, , .		26
178	Investigation of Oblique Breakdown in a Supersonic Boundary Layer at Mach 2 Using DNS. , 2007, , .		21
179	Nonlinear resonances in a laminar wall jet: ejection of dipolar vortices. Journal of Fluid Mechanics, 2007, 588, 279-308.	3.4	12
180	Numerical Investigation of Instabilities in Three-Dimensional Skewed Shear Layers. , 2006, , .		3

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181	Numerical Investigation of Transition Mechanisms Influencing the Development of Turbulent Wall Jets. , 2006, , .		6
182	Numerical investigation of transitional supersonic axisymmetric wakes. Journal of Fluid Mechanics, 2006, 563, 1.	3.4	59
183	A Methodology for Simulating Compressible Turbulent Flows. Journal of Applied Mechanics, Transactions ASME, 2006, 73, 405-412.	2.2	51
184	Direct Numerical Simulation of Turbulent Flow Separation from a Wall-Mounted Hump. AIAA Journal, 2006, 44, 263-272.	2.6	38
185	Numerical Investigation of Vortex Onset in Supersonic Taylor-Couette Flow. Journal of Thermophysics and Heat Transfer, 2006, 20, 536-543.	1.6	1
186	Investigation of Supersonic Wakes Using Conventional and Hybrid Turbulence Models. AIAA Journal, 2006, 44, 2071-2083.	2.6	9
187	Coanda Wall Jet Calculations Using One- and Two-Equation Turbulence Models. AIAA Journal, 2006, 44, 2095-2107.	2.6	14
188	Direct Numerical Simulations of Transitional Supersonic Base Flows. AIAA Journal, 2006, 44, 848-858.	2.6	31
189	INTERACTION OF SEPARATION AND TRANSITION IN BOUNDARY LAYERS: DIRECT NUMERICAL SIMULATIONS. , 2006, , 71-88.		14
190	A high-order immersed interface method for simulating unsteady incompressible flows on irregular domains. Journal of Computational Physics, 2005, 204, 157-192.	3.8	290
191	Numerical Investigation of Low-Pressure Turbine Blade Separation Control. AIAA Journal, 2005, 43, 2514-2525.	2.6	34
192	Numerical Investigation of Coherent Structures in Plane and Curved Wall Jets. , 2005, , .		7
193	Numerical Investigation of Shear-Layer Instabilities Using Temporal and Spatial DNS. , 2005, , .		0
194	Investigation of Transition of Supersonic Boundary Layers at Mach 3 Using DNS. , 2005, , .		18
195	Direct Numerical Simulations of Transitional Supersonic Base Flows. , 2005, , .		8
196	A Flow Simulation Methodology for Analysis of Coherent Structures and Flow Control. , 2004, , .		5
197	Instability Mechanisms in Supersonic Base Flows. , 2004, , .		9
198	Numerical Investigation of Active Flow Control for Low-Pressure Turbine Blade Separation. , 2004, , .		28

#	ARTICLE	IF	CITATIONS
199	A High-Order Immersed Boundary Method for Unsteady Incompressible Flow Calculations. , 2003, , .		15
200	A Flow Simulation Methodology for Compressible Turbulent Axisymmetric Wakes. , 2003, , .		6
201	Numerical Investigation of Turbulent Wall Jets Over a Convex Surface. , 2003, , .		7
202	Numerical Investigation of Low Pressure Turbine Blade Separation Control. , 2003, , .		27
203	Numerical investigation of the interaction of the Klebanoff-mode with a Tollmienâ€“Schlichting wave. Journal of Fluid Mechanics, 2002, 450, 1-33.	3.4	49
204	High-Order WENO Schemes Based on the Roe Approximate Riemann Solver. , 2002, , .		58
205	Numerical investigations of heat transfer mechanisms in the forced laminar wall jet. Journal of Fluid Mechanics, 2001, 442, 191-215.	3.4	14
206	A Compact-Difference Scheme for the Navierâ€“Stokes Equations in Vorticityâ€“Velocity Formulation. Journal of Computational Physics, 2000, 157, 371-403.	3.8	166
207	Numerical Investigation of Heat Transfer Mechanisms in Wall Jet Transition. , 2000, , 651-656.		0
208	Direct numerical simulation of controlled transition in a flat-plate boundary layer. Journal of Fluid Mechanics, 1995, 298, 211-248.	3.4	199
209	Dynamics of three-dimensional coherent structures in a flat-plate boundary layer. Journal of Fluid Mechanics, 1994, 275, 257-283.	3.4	114
210	Evolution of three-dimensional coherent structures in a flat-plate boundary layer. Journal of Fluid Mechanics, 1994, 260, 351-375.	3.4	178
211	Outflow boundary conditions for spatial Navier-Stokes simulations of transition boundary layers. AIAA Journal, 1993, 31, 620-628.	2.6	110
212	Numerical investigation of three-dimensional active control of boundary-layer transition. AIAA Journal, 1991, 29, 1407-1417.	2.6	15
213	Numerical investigation of the three-dimensional development in boundary-layer transition. AIAA Journal, 1990, 28, 29-37.	2.6	146
214	Non-parallel stability of a flat-plate boundary layer using the complete Navier-Stokes equations. Journal of Fluid Mechanics, 1990, 221, 311-347.	3.4	196
215	Numerical investigation of supercritical Taylor-vortex flow for a wide gap. Journal of Fluid Mechanics, 1984, 138, 21-52.	3.4	73
216	Investigation of the stability of boundary layers by a finite-difference model of the Navierâ€“Stokes equations. Journal of Fluid Mechanics, 1976, 78, 355-383.	3.4	252