

Martin Skote

List of Publications by Year in descending order

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68
papers

1,145
citations

393982

19
h-index

414034

32
g-index

68
all docs

68
docs citations

68
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulation of a separated turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2002, 471, 107-136.	1.4	126
2	Direct Numerical Simulation of Self-Similar Turbulent Boundary Layers in Adverse Pressure Gradients. <i>Flow, Turbulence and Combustion</i> , 1998, 60, 47-85.	1.4	75
3	A review of turbulent skin-friction drag reduction by near-wall transverse forcing. <i>Progress in Aerospace Sciences</i> , 2021, 123, 100713.	6.3	68
4	Comparison between spatial and temporal wall oscillations in turbulent boundary layer flows. <i>Journal of Fluid Mechanics</i> , 2013, 730, 273-294.	1.4	47
5	Numerical and experimental studies of wind environment in an urban morphology. <i>Atmospheric Environment</i> , 2005, 39, 6147-6158.	1.9	46
6	Reynolds Stress Budgets in Couette and Boundary Layer Flows. <i>Flow, Turbulence and Combustion</i> , 2002, 68, 167-192.	1.4	43
7	Gliding performance of 3-D corrugated dragonfly wing with spanwise variation. <i>Journal of Fluids and Structures</i> , 2016, 62, 1-13.	1.5	43
8	Turbulent boundary layer flow subject to streamwise oscillation of spanwise wall-velocity. <i>Physics of Fluids</i> , 2011, 23, .	1.6	42
9	Varicose instabilities in turbulent boundary layers. <i>Physics of Fluids</i> , 2002, 14, 2309.	1.6	40
10	Temporal and spatial transients in turbulent boundary layer flow over an oscillating wall. <i>International Journal of Heat and Fluid Flow</i> , 2012, 38, 1-12.	1.1	40
11	Scaling of the velocity profile in strongly drag reduced turbulent flows over an oscillating wall. <i>International Journal of Heat and Fluid Flow</i> , 2014, 50, 352-358.	1.1	39
12	Direct numerical simulation of a turbulent boundary layer over an oscillating wall. <i>Journal of Turbulence</i> , 2011, 12, N9.	0.5	38
13	Simulations of the linear plasma synthetic jet actuator utilizing a modified Suzen-Huang model. <i>Physics of Fluids</i> , 2012, 24, .	1.6	32
14	Dragonfly (<i>Sympetrum flaveolum</i>) flight: Kinematic measurement and modelling. <i>Journal of Fluids and Structures</i> , 2013, 40, 115-126.	1.5	31
15	Modelling high Re flow around a 2D cylindrical bluff body using the $k-\epsilon$ (SST) turbulence model. <i>Progress in Computational Fluid Dynamics</i> , 2016, 16, 48.	0.1	28
16	High-order methods for diffuse-interface models in compressible multi-medium flows: A review. <i>Physics of Fluids</i> , 2022, 34, .	1.6	27
17	UCNS3D: An open-source high-order finite-volume unstructured CFD solver. <i>Computer Physics Communications</i> , 2022, 279, 108453.	3.0	25
18	Stiffness evaluation of the leading edge of the dragonfly wing via laser vibrometer. <i>Materials Letters</i> , 2013, 97, 166-168.	1.3	22

#	ARTICLE	IF	CITATIONS
19	Study of lift enhancing mechanisms via comparison of two distinct flapping patterns in the dragonfly <i>Sympetrum flaveolum</i> . <i>Physics of Fluids</i> , 2015, 27, .	1.6	21
20	A numerical approach for determining equilibrium scour depth around a mono-pile due to steady currents. <i>Applied Ocean Research</i> , 2016, 57, 114-124.	1.8	20
21	CWENO Finite-Volume Interface Capturing Schemes for Multicomponent Flows Using Unstructured Meshes. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	1.1	19
22	Rapid PCR amplification of DNA utilizing Coriolis effects. <i>European Biophysics Journal</i> , 2006, 35, 453-458.	1.2	16
23	Wall Oscillation Induced Drag Reduction Zone in a Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , 2019, 102, 641-666.	1.4	15
24	Effects of the scalar parameters in the Suzen-Huang model on plasma actuator characteristics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 23, 1076-1103.	1.6	13
25	DNS of a Single Low-Speed Streak Subject to Spanwise Wall Oscillations. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 795-816.	1.4	13
26	A numerical study of microburst-like wind load acting on different block array configurations using an impinging jet model. <i>Journal of Fluids and Structures</i> , 2016, 61, 184-204.	1.5	13
27	Simulating plasma actuators in a channel flow configuration by utilizing the modified Suzen-Huang model. <i>Computers and Fluids</i> , 2014, 99, 144-155.	1.3	12
28	Suitability of power-law extrapolation for wind speed estimation on a tropical island. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 205, 104317.	1.7	12
29	Boundary Condition Modifications of the Suzen-Huang Plasma Actuator Model. <i>International Journal of Flow Control</i> , 2011, 3, 111-132.	0.4	11
30	A simple model for predicting the pressure drop and film thickness of non-Newtonian annular flows in horizontal pipes. <i>Chemical Engineering Science</i> , 2013, 102, 121-128.	1.9	11
31	Non-Newtonian two-phase stratified flow with curved interface through horizontal and inclined pipes. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 113-120.	2.5	10
32	Simulation of non-Newtonian oil-water core annular flow through return bends. <i>Heat and Mass Transfer</i> , 2018, 54, 37-48.	1.2	10
33	Growth mechanisms of perturbations in boundary layers over a compliant wall. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	10
34	Effects of Streamlining a Bluff Body in the Laminar Vortex Shedding Regime. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	10
35	Integral relations for the skin-friction coefficient of canonical flows. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	1.4	9
36	Drag Reduction of a Turbulent Boundary Layer over an Oscillating Wall and Its Variation with Reynolds Number. <i>International Journal of Aerospace Engineering</i> , 2015, 2015, 1-9.	0.5	8

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37	Proper-Orthogonal-Decomposition Study of Turbulent Near Wake of S805 Airfoil in Deep Stall. AIAA Journal, 2017, 55, 1959-1969.	1.5	8
38	The Effects of Oil Property and Inclination Angle on Oil-Water Core Annular Flow Through U-Bends. Heat Transfer Engineering, 2018, 39, 536-548.	1.2	8
39	Kolmogorov spectrum consistent optimization for multi-scale flow decomposition. Physics of Fluids, 2014, 26, .	1.6	7
40	Near-wall damping in model predictions of separated flows. International Journal of Computational Fluid Dynamics, 2016, 30, 218-230.	0.5	7
41	Pressure drop, void fraction and wave behavior in two-phase non-Newtonian churn flow. Chemical Engineering Science, 2017, 174, 82-92.	1.9	6
42	CFD simulation of dense gas dispersion in neutral atmospheric boundary layer with OpenFOAM. Meteorology and Atmospheric Physics, 2020, 132, 273-285.	0.9	6
43	Bypass transition delay using oscillations of spanwise wall velocity. Physical Review Fluids, 2019, 4, .	1.0	6
44	Viscoelastic laminar drag bounds in pipe flow. Physics of Fluids, 2020, 32, 031702.	1.6	5
45	In vitro assessment of combined Doppler ultrasound and CFD modeling in arterial blood flow quantification. Flow Measurement and Instrumentation, 2013, 33, 218-227.	1.0	4
46	Detailed Study of Effects of Crosswind and Turbulence Intensity on Aircraft Wake-Vortex in Ground Proximity. , 2016, , .		4
47	Variance Characteristics of Tropical Radiosonde Winds Using a Vector-Tensor Method. Energies, 2018, 11, 137.	1.6	4
48	Temporal Variation of the Pressure from a Steady Impinging Jet Model of Dry Microburst-Like Wind Using URANS. Computation, 2018, 6, 2.	1.0	4
49	Characterizing mesoscale variability in low-level jet simulations for CBLAST-LOW 2001 campaign. Meteorology and Atmospheric Physics, 2021, 133, 163-179.	0.9	4
50	Direct Numerical Simulation of Adverse Pressure Gradient Turbulent Boundary Layers. Fluid Mechanics and Its Applications, 1998, , 171-174.	0.1	4
51	Reducing temperature, drag load and wear during aircraft tyre spin-up. Aircraft Engineering and Aerospace Technology, 2022, 94, 906-914.	0.7	4
52	Drag Reduction of Turbulent Boundary Layers by Travelling and Non-Travelling Waves of Spanwise Wall Oscillations. Fluids, 2022, 7, 65.	0.8	4
53	Drag Reduction in Turbulent Boundary Layers with Half Wave Wall Oscillations. Mathematical Problems in Engineering, 2015, 2015, 1-7.	0.6	3
54	Numerical Investigation of Orifice Nearfield Flow Development in Oleo-Pneumatic Shock Absorbers. Fluids, 2022, 7, 54.	0.8	3

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55	Utilizing the L-PSJA for controlling cylindrical wake flow. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1593-1616.	1.6	2
56	A linear system for pipe flow stability analysis allowing for boundary condition modifications. Computers and Fluids, 2019, 192, 104267.	1.3	2
57	A model of laminar-turbulent transition based on viscous stream buckling. AIP Conference Proceedings, 2012, , .	0.3	1
58	Non-Newtonian Liquid-Gas Non-Uniform Stratified Flow With Interfacial Level Gradient Through Horizontal Tubes. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	0.8	1
59	Wall Oscillation Induced Drag Reduction of Turbulent Boundary Layers. Springer Proceedings in Physics, 2016, , 161-165.	0.1	1
60	An Experimental Study of the Rotational Effects on Separated Turbulent Flow During Stall Delay. Flow, Turbulence and Combustion, 2017, 98, 37-56.	1.4	1
61	On Visualizing Continuous Turbulence Scales. Computer Graphics Forum, 2019, 38, 300-315.	1.8	1
62	Flow in a rapidly rotating cone-shaped PCR tube. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 717-735.	1.6	0
63	Numerical Simulation of Unidirectional Stratified Flow by Moving Particle Semi Implicit Method. Communications in Computational Physics, 2014, 15, 756-775.	0.7	0
64	Assessment of Simple RANS Turbulence Models for Stall Delay Applications at Low Reynolds Number. Applied Mechanics and Materials, 0, 863, 260-265.	0.2	0
65	Effects of Heat-Conductive Obstacles on Conjugate Heat Transfer of Backward-Facing Step Flow. , 2021, , .		0
66	Large Scale Parallel Direct Numerical Simulation of a Separating Turbulent Boundary Layer Flow over a Flat Plate Using NAL Numerical Wind Tunnel. Lecture Notes in Computer Science, 2000, , 494-500.	1.0	0
67	DNS of a Turbulent Boundary Layer Under a Strong Adverse Pressure Gradient. Fluid Mechanics and Its Applications, 1999, , 373-384.	0.1	0
68	10.1063/1.4871106.1. , 2014, , .		0