Martin Skote

List of Publications by Year
in descending order

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68	1,145	393982	414034
papers	citations	19 h-index	32 g-index

68	68	68	773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical Investigation of Orifice Nearfield Flow Development in Oleo-Pneumatic Shock Absorbers. Fluids, 2022, 7, 54.	0.8	3
2	Reducing temperature, drag load and wear during aircraft tyre spin-up. Aircraft Engineering and Aerospace Technology, 2022, 94, 906-914.	0.7	4
3	Drag Reduction of Turbulent Boundary Layers by Travelling and Non-Travelling Waves of Spanwise Wall Oscillations. Fluids, 2022, 7, 65.	0.8	4
4	High-order methods for diffuse-interface models in compressible multi-medium flows: A review. Physics of Fluids, 2022, 34, .	1.6	27
5	Integral relations for the skin-friction coefficient of canonical flows. Journal of Fluid Mechanics, 2022, 943, .	1.4	9
6	UCNS3D: An open-source high-order finite-volume unstructured CFD solver. Computer Physics Communications, 2022, 279, 108453.	3.0	25
7	Characterizing mesoscale variability in low-level jet simulations for CBLAST-LOW 2001 campaign. Meteorology and Atmospheric Physics, 2021, 133, 163-179.	0.9	4
8	A review of turbulent skin-friction drag reduction by near-wall transverse forcing. Progress in Aerospace Sciences, 2021, 123, 100713.	6.3	68
9	Effects of Heat-Conductive Obstacles on Conjugate Heat Transfer of Backward-Facing Step Flow. , 2021, , .		0
10	CWENO Finite-Volume Interface Capturing Schemes for Multicomponent Flows Using Unstructured Meshes. Journal of Scientific Computing, 2021, 89, 1.	1.1	19
11	CFD simulation of dense gas dispersion in neutral atmospheric boundary layer with OpenFOAM. Meteorology and Atmospheric Physics, 2020, 132, 273-285.	0.9	6
12	Suitability of power-law extrapolation for wind speed estimation on a tropical island. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 205, 104317.	1.7	12
13	Viscoelastic laminar drag bounds in pipe flow. Physics of Fluids, 2020, 32, 031702.	1.6	5
14	Effects of Streamlining a Bluff Body in the Laminar Vortex Shedding Regime. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	10
15	On Visualizing Continuous Turbulence Scales. Computer Graphics Forum, 2019, 38, 300-315.	1.8	1
16	A linear system for pipe flow stability analysis allowing for boundary condition modifications. Computers and Fluids, 2019, 192, 104267.	1.3	2
17	Wall Oscillation Induced Drag Reduction Zone in a Turbulent Boundary Layer. Flow, Turbulence and Combustion, 2019, 102, 641-666.	1.4	15
18	Bypass transition delay using oscillations of spanwise wall velocity. Physical Review Fluids, 2019, 4, .	1.0	6

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19	The Effects of Oil Property and Inclination Angle on Oilâ€“Water Core Annular Flow Through U-Bends. Heat Transfer Engineering, 2018, 39, 536-548.	1.2	8
20	Simulation of non-Newtonian oil-water core annular flow through return bends. Heat and Mass Transfer, 2018, 54, 37-48.	1.2	10
21	Variance Characteristics of Tropical Radiosonde Winds Using a Vector-Tensor Method. Energies, 2018, 11, 137.	1.6	4
22	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
23	Growth mechanisms of perturbations in boundary layers over a compliant wall. Physical Review Fluids, 2018, 3, .	1.0	10
24	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
25	Proper-Orthogonal-Decomposition Study of Turbulent Near Wake of S805 Airfoil in Deep Stall. AIAA Journal, 2017, 55, 1959-1969.	1.5	8
26	Pressure drop, void fraction and wave behavior in two-phase non-Newtonian churn flow. Chemical Engineering Science, 2017, 174, 82-92.	1.9	6
27	Near-wall damping in model predictions of separated flows. International Journal of Computational Fluid Dynamics, 2016, 30, 218-230.	0.5	7
28	Detailed Study of Effects of Crosswind and Turbulence Intensity on Aircraft Wake-Vortex in Ground Proximity. , 2016, , .		4
29	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
30	A numerical approach for determining equilibrium scour depth around a mono-pile due to steady currents. Applied Ocean Research, 2016, 57, 114-124.	1.8	20
31	Modelling high Re flow around a 2D cylindrical bluff body using the k-Ï‰ (SST) turbulence model. Progress in Computational Fluid Dynamics, 2016, 16, 48.	0.1	28
32	A numerical study of microburst-like wind load acting on different block array configurations using an impinging jet model. Journal of Fluids and Structures, 2016, 61, 184-204.	1.5	13
33	Gliding performance of 3-D corrugated dragonfly wing with spanwise variation. Journal of Fluids and Structures, 2016, 62, 1-13.	1.5	43
34	Wall Oscillation Induced Drag Reduction of Turbulent Boundary Layers. Springer Proceedings in Physics, 2016, , 161-165.	0.1	1
35	Drag Reduction in Turbulent Boundary Layers with Half Wave Wall Oscillations. Mathematical Problems in Engineering, 2015, 2015, 1-7.	0.6	3
36	Drag Reduction of a Turbulent Boundary Layer over an Oscillating Wall and Its Variation with Reynolds Number. International Journal of Aerospace Engineering, 2015, 2015, 1-9.	0.5	8

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37	Study of lift enhancing mechanisms via comparison of two distinct flapping patterns in the dragonfly Sympetrum flaveolum. Physics of Fluids, 2015, 27, .	1.6	21
38	DNS of a Single Low-Speed Streak Subject to Spanwise Wall Oscillations. Flow, Turbulence and Combustion, 2015, 94, 795-816.	1.4	13
39	Kolmogorov spectrum consistent optimization for multi-scale flow decomposition. Physics of Fluids, 2014, 26, .	1.6	7
40	Non-Newtonian two-phase stratified flow with curved interface through horizontal and inclined pipes. International Journal of Heat and Mass Transfer, 2014, 74, 113-120.	2.5	10
41	Simulating plasma actuators in a channel flow configuration by utilizing the modified Suzenâ€“Huang model. Computers and Fluids, 2014, 99, 144-155.	1.3	12
42	Scaling of the velocity profile in strongly drag reduced turbulent flows over an oscillating wall. International Journal of Heat and Fluid Flow, 2014, 50, 352-358.	1.1	39
43	Numerical Simulation of Unidirectional Stratified Flow by Moving Particle Semi Implicit Method. Communications in Computational Physics, 2014, 15, 756-775.	0.7	0
44	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
45	10.1063/1.4871106.1. , 2014, , .		0
46	Dragonfly (Sympetrum flaveolum) flight: Kinematic measurement and modelling. Journal of Fluids and Structures, 2013, 40, 115-126.	1.5	31
47	Stiffness evaluation of the leading edge of the dragonfly wing via laser vibrometer. Materials Letters, 2013, 97, 166-168.	1.3	22
48	Comparison between spatial and temporal wall oscillations in turbulent boundary layer flows. Journal of Fluid Mechanics, 2013, 730, 273-294.	1.4	47
49	A simple model for predicting the pressure drop and film thickness of non-Newtonian annular flows in horizontal pipes. Chemical Engineering Science, 2013, 102, 121-128.	1.9	11
50	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
51	Effects of the scalar parameters in the Suzenâ€Huang model on plasma actuator characteristics. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 1076-1103.	1.6	13
52	A model of laminar-turbulent transition based on viscous stream buckling. AIP Conference Proceedings, 2012, , .	0.3	1
53	Simulations of the linear plasma synthetic jet actuator utilizing a modified Suzen-Huang model. Physics of Fluids, 2012, 24, .	1.6	32
54	Temporal and spatial transients in turbulent boundary layer flow over an oscillating wall. International Journal of Heat and Fluid Flow, 2012, 38, 1-12.	1.1	40

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55	Direct numerical simulation of a turbulent boundary layer over an oscillating wall. Journal of Turbulence, 2011, 12, N9.	0.5	38
56	Boundary Condition Modifications of the Suzen-Huang Plasma Actuator Model. International Journal of Flow Control, 2011, 3, 111-132.	0.4	11
57	Flow in a rapidly rotating coneâ€shaped PCRâ€tube. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 717-735.	1.6	0
58	Turbulent boundary layer flow subject to streamwise oscillation of spanwise wall-velocity. Physics of Fluids, 2011, 23, .	1.6	42
59	Rapid PCR amplification of DNA utilizing Coriolis effects. European Biophysics Journal, 2006, 35, 453-458.	1.2	16
60	Numerical and experimental studies of wind environment in an urban morphology. Atmospheric Environment, 2005, 39, 6147-6158.	1.9	46
61	Varicose instabilities in turbulent boundary layers. Physics of Fluids, 2002, 14, 2309.	1.6	40
62	Direct numerical simulation of a separated turbulent boundary layer. Journal of Fluid Mechanics, 2002, 471, 107-136.	1.4	126
63	Reynolds Stress Budgets in Couette and Boundary Layer Flows. Flow, Turbulence and Combustion, 2002, 68, 167-192.	1.4	43
64	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
65	DNS of a Turbulent Boundary Layer Under a Strong Adverse Pressure Gradient. Fluid Mechanics and Its Applications, 1999, , 373-384.	0.1	0
66	Direct Numerical Simulation of Self-Similar Turbulent Boundary Layers in Adverse Pressure Gradients. Flow, Turbulence and Combustion, 1998, 60, 47-85.	1.4	75
67	Direct Numerical Simulation of Adverse Pressure Gradient Turbulent Boundary Layers. Fluid Mechanics and Its Applications, 1998, , 171-174.	0.1	4
68	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