

Kyle D Squires

List of Publications by Year in descending order

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80
papers

9,655
citations

136950

32
h-index

144013

57
g-index

80
all docs

80
docs citations

80
times ranked

4234
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Numerical Simulations of a Great Horn Owl in Flapping Flight. Integrative and Comparative Biology, 2020, 60, 1091-1108.	2.0	2
2	On the origin of the drag force on dimpled spheres. Journal of Fluid Mechanics, 2019, 879, 147-167.	3.4	7
3	The role of surface texturing on the physics of boundary layer separation over a bump. International Journal of Heat and Fluid Flow, 2018, 73, 223-235.	2.4	6
4	Simulations of laminar boundary-layer flow encountering large-scale surface indentions. Physics of Fluids, 2016, 28, .	4.0	3
5	Modeling Dilute Gas-Solid Flows Using a Polykinetic Moment Method Approach. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	5
6	Effects of Bileaflet Mechanical Mitral Valve Rotational Orientation on Left Ventricular Flow Conditions. Open Cardiovascular Medicine Journal, 2015, 9, 62-68.	0.3	12
7	Effects of dimples on laminar boundary layers. Journal of Turbulence, 2014, 15, 611-627.	1.4	11
8	Numerical investigation of Magnus effect on dimpled spheres. Journal of Turbulence, 2012, 13, N15.	1.4	9
9	Simulation of Rotor Vortex Interactions with a Particle-Laden Turbulent Boundary Layer. , 2011, , .		0
10	Detached eddy simulations and particle Lagrangian tracking of horizontal rough wall turbulent channel flow. Journal of Turbulence, 2011, 12, N22.	1.4	12
11	Numerical investigation of the flow over a golf ball in the subcritical and supercritical regimes. International Journal of Heat and Fluid Flow, 2010, 31, 262-273.	2.4	32
12	Prediction of the flow over a circular cylinder at high Reynolds number using detached-eddy simulation. Journal of Wind Engineering and Industrial Aerodynamics, 2008, 96, 1528-1536.	3.9	25
13	Statistics of particle dispersion in direct numerical simulations of wall-bounded turbulence: Results of an international collaborative benchmark test. International Journal of Multiphase Flow, 2008, 34, 879-893.	3.4	195
14	Detached-Eddy Simulation Around a Forebody with Rotary Motion. AIAA Journal, 2008, 46, 2191-2201.	2.6	6
15	A Controls-Based Methodology for Generating Turbulence in Direct and Large-Eddy Simulations of Wall-Bounded Flows. , 2007, , 1367.		0
16	A Simple Procedure to Reduce Secondary Flow Effect in Turbine Nozzle Guide Vanes. , 2007, , 905.		1
17	An Anisotropic Subgrid Model for Large Eddy Simulation of Wall Bounded Turbulent Flows. , 2007, , 1359.		0
18	High Resolution Simulation of Full Aircraft Control at Flight Reynolds Numbers. , 2007, , .		3

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19	Prediction of the Flow Around a Circular Cylinder at High Reynolds Number. , 2006, , .		11
20	High Resolution Simulation of Full Aircraft Control at Flight Reynolds Numbers. , 2006, , .		1
21	Carbon Sequestration via Aqueous Olivine Mineral Carbonation:â€™ Role of Passivating Layer Formation. Environmental Science & Technology, 2006, 40, 4802-4808.	10.0	291
22	LESâ€™ DPS of the effect of wall roughness on dispersed-phase transport in particle-laden turbulent channel flow. International Journal of Heat and Fluid Flow, 2006, 27, 619-626.	2.4	31
23	A New Version of Detached-eddy Simulation, Resistant to Ambiguous Grid Densities. Theoretical and Computational Fluid Dynamics, 2006, 20, 181-195.	2.2	1,908
24	Properties of the particle velocity field in gas-solid turbulent channel flow. Physics of Fluids, 2006, 18, 063302.	4.0	62
25	Prediction of Separated Flow Characteristics over a Hump. AIAA Journal, 2006, 44, 252-262.	2.6	28
26	On Fluid-Particle and Particle-Particle Interactions in Gas-Solid Turbulent Channel Flow. , 2006, , 11-20.		0
27	Detached-Eddy Simulation of the Separated Flow Over a Rounded-Corner Square. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 959-966.	1.5	20
28	Three-Dimensionality in Reynolds-Averaged Navier-Stokes Solutions Around Two-Dimensional Geometries.. AIAA Journal, 2005, 43, 1230-1242.	2.6	51
29	Partitioning of particle velocities in gasâ€™solid turbulent flows into a continuous field and a spatially uncorrelated random distribution: theoretical formalism and numerical study. Journal of Fluid Mechanics, 2005, 533, .	3.4	190
30	Detached-Eddy Simulation of the F-15E at High Alpha. Journal of Aircraft, 2004, 41, 193-200.	2.4	82
31	Measurements and modeling of the flow and heat transfer in a contoured vane-endwall passage. International Journal of Heat and Mass Transfer, 2004, 47, 5685-5702.	4.8	25
32	Numerical investigations of flow over a sphere in the subcritical and supercritical regimes. Physics of Fluids, 2004, 16, 1449-1466.	4.0	172
33	Prediction of the Flow over an Airfoil at Maximum Lift. , 2004, , .		6
34	Detached-Eddy Simulation: Current Status and Perspectives. ERCOFTAC Series, 2004, , 465-480.	0.1	45
35	Assessment of Reynolds-Averaged Turbulence Models for Prediction of the Flow and Heat Transfer in an Inlet Vane-Endwall Passage. Journal of Fluids Engineering, Transactions of the ASME, 2004, 126, 305-315.	1.5	10
36	The innerâ€™outer layer interface in large-eddy simulations with wall-layer models. International Journal of Heat and Fluid Flow, 2003, 24, 538-550.	2.4	212

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37	Computational challenges in high angle of attack flow prediction. Progress in Aerospace Sciences, 2003, 39, 369-384.	12.1	93
38	Detached-Eddy Simulation Around a Rotating Forebody. , 2003, , .		10
39	Computation of the Flow Over a Maneuvering Spheroid. , 2003, , .		1
40	Turbulence Modeling Applied to Flow over a Sphere. AIAA Journal, 2003, 41, 1733-1742.	2.6	100
41	Numerical Investigation of Flow Past a Prolate Spheroid. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 904-910.	1.5	39
42	Detached-Eddy Simulation With Compressibility Corrections Applied to a Supersonic Axisymmetric Base Flow. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 911-923.	1.5	141
43	Prediction and Measurement of the Flow and Heat Transfer Along the Endwall and Within an Inlet Vane Passage. , 2002, , 255.		5
44	Detached-eddy simulation with compressibility corrections applied to a supersonic axisymmetric base flow. , 2002, , .		30
45	Detached-eddy simulation of fighter aircraft at high alpha. , 2002, , .		44
46	An Approach to Parallel Computing in an Eulerian-Lagrangian Two-Phase Flow Model. , 2002, , 423.		4
47	Detached-Eddy Simulation of the Separated Flow around a Forebody Cross-Section. ERCOFTAC Series, 2001, , 481-500.	0.1	29
48	Prediction and investigation of the turbulent flow over a rotating disk. Journal of Fluid Mechanics, 2000, 418, 231-264.	3.4	56
49	On the prediction of gas-solid flows with two-way coupling using large eddy simulation. Physics of Fluids, 2000, 12, 2080-2090.	4.0	157
50	LES and DES investigations of turbulent flow over a sphere. , 2000, , .		58
51	Generation of Turbulent Inflow Data for Spatially-Developing Boundary Layer Simulations. Journal of Computational Physics, 1998, 140, 233-258.	3.8	1,273
52	Large eddy simulation of turbulent gas-solid flows in a vertical channel and evaluation of second-order models. International Journal of Heat and Fluid Flow, 1998, 19, 505-511.	2.4	42
53	Prediction of the High-Reynolds-Number Flow over a Two-Dimensional Bump. AIAA Journal, 1998, 36, 799-808.	2.6	4
54	Prediction of the Three-Dimensional Turbulent Boundary Layer over a Swept Bump. AIAA Journal, 1998, 36, 505-514.	2.6	21

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55	Direct numerical simulation of turbulence modulation by particles in isotropic turbulence. Journal of Fluid Mechanics, 1998, 375, 235-263.	3.4	337
56	Transport of Heavy Particles in a Three-Dimensional Mixing Layer. Journal of Fluids Engineering, Transactions of the ASME, 1998, 120, 613-620.	1.5	8
57	On the effect of nonuniform seeding on particle dispersion in two-dimensional mixing layers. Physics of Fluids, 1998, 10, 1700-1714.	4.0	11
58	Numerical investigation of the turbulent boundary layer over a bump. Journal of Fluid Mechanics, 1998, 362, 229-271.	3.4	56
59	Large Eddy Simulation of an Equilibrium Three-Dimensional Turbulent Boundary Layer. AIAA Journal, 1997, 35, 67-74.	2.6	30
60	On the role of the lift force in turbulence simulations of particle deposition. International Journal of Multiphase Flow, 1997, 23, 749-763.	3.4	168
61	Addendum to the paper "Preferential concentration of marine particles in isotropic turbulence". Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1865-1866.	1.4	4
62	Particle transport in a nonuniformly seeded mixing layer. , 1996, , .		2
63	Large eddy simulation of particle deposition in a vertical turbulent channel flow. International Journal of Multiphase Flow, 1996, 22, 667-683.	3.4	145
64	Large eddy simulation of particle-laden turbulent channel flow. Physics of Fluids, 1996, 8, 1207-1223.	4.0	295
65	Three-Dimensional Boundary Layers Over an Infinite Swept Bump and Free Wing. Journal of Fluids Engineering, Transactions of the ASME, 1995, 117, 605-611.	1.5	3
66	EXTENSION OF THE FRACTIONAL STEP METHOD TO GENERAL CURVILINEAR COORDINATE SYSTEMS. Numerical Heat Transfer, Part B: Fundamentals, 1995, 27, 175-194.	0.9	18
67	Preferential concentration of marine particles in isotropic turbulence. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1989-2004.	1.4	50
68	Lagrangian statistics in turbulent channel flow. Atmospheric Environment, 1995, 29, 2417-2427.	4.1	39
69	Dynamic Modeling of Rotating Turbulence. , 1995, , 71-83.		3
70	Preferential concentration of particles by turbulence. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1169-1178.	1.6	756
71	Direct numerical simulation of planktonic contact in turbulent flow. Journal of Plankton Research, 1991, 13, 629-643.	1.8	61
72	Measurements of particle dispersion obtained from direct numerical simulations of isotropic turbulence. Journal of Fluid Mechanics, 1991, 226, 1-35.	3.4	235

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73	A dynamic subgrid-scale model for compressible turbulence and scalar transport. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2746-2757.	1.6	1,267
74	Lagrangian and Eulerian statistics obtained from direct numerical simulations of homogeneous turbulence. Physics of Fluids A, Fluid Dynamics, 1991, 3, 130-143.	1.6	58
75	Particle response and turbulence modification in isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1191-1203.	1.6	517
76	Study of Lagrangian Characteristic times Using Direct Numerical Simulation of Turbulence. , 1989, , 58-67.		4
77	Point-particle methods for disperse flows. , 0, , 282-319.		7
78	Work in Progress: Engineers from Day One. , 0, , .		0
79	Board 56: Assessing Interest and Appeal of Engineering in a High School Program Designed to Enhance Entry into Engineering in an INCLUDES Project. , 0, , .		0
80	Does EPICS as a Pre-college Program Foster Engineering Identity Development as Correlated to Doing Engineering?. , 0, , .		0