

# Kyle D Squires

## List of Publications by Year in descending order

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80  
papers

9,655  
citations

136740

32  
h-index

143772

57  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4234  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Version of Detached-eddy Simulation, Resistant to Ambiguous Grid Densities. Theoretical and Computational Fluid Dynamics, 2006, 20, 181-195.	0.9	1,908
2	Generation of Turbulent Inflow Data for Spatially-Developing Boundary Layer Simulations. Journal of Computational Physics, 1998, 140, 233-258.	1.9	1,273
3	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
4	Preferential concentration of particles by turbulence. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1169-1178.	1.6	756
5	Particle response and turbulence modification in isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1191-1203.	1.6	517
6	Direct numerical simulation of turbulence modulation by particles in isotropic turbulence. Journal of Fluid Mechanics, 1998, 375, 235-263.	1.4	337
7	Large eddy simulation of particle-laden turbulent channel flow. Physics of Fluids, 1996, 8, 1207-1223.	1.6	295
8	Carbon Sequestration via Aqueous Olivine Mineral Carbonation: Role of Passivating Layer Formation. Environmental Science & Technology, 2006, 40, 4802-4808.	4.6	291
9	Measurements of particle dispersion obtained from direct numerical simulations of isotropic turbulence. Journal of Fluid Mechanics, 1991, 226, 1-35.	1.4	235
10	The inner-outer layer interface in large-eddy simulations with wall-layer models. International Journal of Heat and Fluid Flow, 2003, 24, 538-550.	1.1	212
11	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.	1.6	195
12	Partitioning of particle velocities in gas-solid turbulent flows into a continuous field and a spatially uncorrelated random distribution: theoretical formalism and numerical study. Journal of Fluid Mechanics, 2005, 533, .	1.4	190
13	Numerical investigations of flow over a sphere in the subcritical and supercritical regimes. Physics of Fluids, 2004, 16, 1449-1466.	1.6	172
14	On the role of the lift force in turbulence simulations of particle deposition. International Journal of Multiphase Flow, 1997, 23, 749-763.	1.6	168
15	On the prediction of gas-solid flows with two-way coupling using large eddy simulation. Physics of Fluids, 2000, 12, 2080-2090.	1.6	157
16	Large eddy simulation of particle deposition in a vertical turbulent channel flow. International Journal of Multiphase Flow, 1996, 22, 667-683.	1.6	145
17	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.	0.8	141
18	Turbulence Modeling Applied to Flow over a Sphere. AIAA Journal, 2003, 41, 1733-1742.	1.5	100

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19	Computational challenges in high angle of attack flow prediction. Progress in Aerospace Sciences, 2003, 39, 369-384.	6.3	93
20	Detached-Eddy Simulation of the F-15E at High Alpha. Journal of Aircraft, 2004, 41, 193-200.	1.7	82
21	Properties of the particle velocity field in gas-solid turbulent channel flow. Physics of Fluids, 2006, 18, 063302.	1.6	62
22	Direct numerical simulation of planktonic contact in turbulent flow. Journal of Plankton Research, 1991, 13, 629-643.	0.8	61
23	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
24	LES and DES investigations of turbulent flow over a sphere. , 2000, , .		58
25	Numerical investigation of the turbulent boundary layer over a bump. Journal of Fluid Mechanics, 1998, 362, 229-271.	1.4	56
26	Prediction and investigation of the turbulent flow over a rotating disk. Journal of Fluid Mechanics, 2000, 418, 231-264.	1.4	56
27	Three-Dimensionality in Reynolds-Averaged Navier-Stokes Solutions Around Two-Dimensional Geometries.. AIAA Journal, 2005, 43, 1230-1242.	1.5	51
28	Preferential concentration of marine particles in isotropic turbulence. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1989-2004.	0.6	50
29	Detached-Eddy Simulation: Current Status and Perspectives. ERCOFTAC Series, 2004, , 465-480.	0.1	45
30	Detached-eddy simulation of fighter aircraft at high alpha. , 2002, , .		44
31	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.	1.1	42
32	Lagrangian statistics in turbulent channel flow. Atmospheric Environment, 1995, 29, 2417-2427.	1.9	39
33	Numerical Investigation of Flow Past a Prolate Spheroid. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 904-910.	0.8	39
34	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.	1.1	32
35	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.	1.1	31
36	Large Eddy Simulation of an Equilibrium Three-Dimensional Turbulent Boundary Layer. AIAA Journal, 1997, 35, 67-74.	1.5	30

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37	Detached-eddy simulation with compressibility corrections applied to a supersonic axisymmetric base flow. , 2002, , .		30
38	Detached-Eddy Simulation of the Separated Flow around a Forebody Cross-Section. ERCOFTAC Series, 2001, , 481-500.	0.1	29
39	Prediction of Separated Flow Characteristics over a Hump. AIAA Journal, 2006, 44, 252-262.	1.5	28
40	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.	2.5	25
41	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.	1.7	25
42	Prediction of the Three-Dimensional Turbulent Boundary Layer over a Swept Bump. AIAA Journal, 1998, 36, 505-514.	1.5	21
43	Detached-Eddy Simulation of the Separated Flow Over a Rounded-Corner Square. Journal of Fluids Engineering, Transactions of the ASME, 2005, 127, 959-966.	0.8	20
44	EXTENSION OF THE FRACTIONAL STEP METHOD TO GENERAL CURVILINEAR COORDINATE SYSTEMS. Numerical Heat Transfer, Part B: Fundamentals, 1995, 27, 175-194.	0.6	18
45	Detached eddy simulations and particle Lagrangian tracking of horizontal rough wall turbulent channel flow. Journal of Turbulence, 2011, 12, N22.	0.5	12
46	Effects of Bileaflet Mechanical Mitral Valve Rotational Orientation on Left Ventricular Flow Conditions. Open Cardiovascular Medicine Journal, 2015, 9, 62-68.	0.6	12
47	On the effect of nonuniform seeding on particle dispersion in two-dimensional mixing layers. Physics of Fluids, 1998, 10, 1700-1714.	1.6	11
48	Prediction of the Flow Around a Circular Cylinder at High Reynolds Number. , 2006, , .		11
49	Effects of dimples on laminar boundary layers. Journal of Turbulence, 2014, 15, 611-627.	0.5	11
50	Detached-Eddy Simulation Around a Rotating Forebody. , 2003, , .		10
51	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.	0.8	10
52	Numerical investigation of Magnus effect on dimpled spheres. Journal of Turbulence, 2012, 13, N15.	0.5	9
53	Transport of Heavy Particles in a Three-Dimensional Mixing Layer. Journal of Fluids Engineering, Transactions of the ASME, 1998, 120, 613-620.	0.8	8
54	Point-particle methods for disperse flows. , 0, , 282-319.		7

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55	On the origin of the drag force on dimpled spheres. <i>Journal of Fluid Mechanics</i> , 2019, 879, 147-167.	1.4	7
56	Prediction of the Flow over an Airfoil at Maximum Lift. , 2004, , .		6
57	Detached-Eddy Simulation Around a Forebody with Rotary Motion. <i>AIAA Journal</i> , 2008, 46, 2191-2201.	1.5	6
58	The role of surface texturing on the physics of boundary layer separation over a bump. <i>International Journal of Heat and Fluid Flow</i> , 2018, 73, 223-235.	1.1	6
59	Prediction and Measurement of the Flow and Heat Transfer Along the Endwall and Within an Inlet Vane Passage. , 2002, , 255.		5
60	Modeling Dilute Gas-Solid Flows Using a Polykinetic Moment Method Approach. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	5
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.	0.6	4
62	Prediction of the High-Reynolds-Number Flow over a Two-Dimensional Bump. <i>AIAA Journal</i> , 1998, 36, 799-808.	1.5	4
63	An Approach to Parallel Computing in an Eulerian-Lagrangian Two-Phase Flow Model. , 2002, , 423.		4
64	Study of Lagrangian Characteristic times Using Direct Numerical Simulation of Turbulence. , 1989, , 58-67.		4
65	Three-Dimensional Boundary Layers Over an Infinite Swept Bump and Free Wing. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995, 117, 605-611.	0.8	3
66	High Resolution Simulation of Full Aircraft Control at Flight Reynolds Numbers. , 2007, , .		3
67	Simulations of laminar boundary-layer flow encountering large-scale surface indentions. <i>Physics of Fluids</i> , 2016, 28, .	1.6	3
68	Dynamic Modeling of Rotating Turbulence. , 1995, , 71-83.		3
69	Particle transport in a nonuniformly seeded mixing layer. , 1996, , .		2
70	Direct Numerical Simulations of a Great Horn Owl in Flapping Flight. <i>Integrative and Comparative Biology</i> , 2020, 60, 1091-1108.	0.9	2
71	Computation of the Flow Over a Maneuvering Spheroid. , 2003, , .		1
72	High Resolution Simulation of Full Aircraft Control at Flight Reynolds Numbers. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
73	A Simple Procedure to Reduce Secondary Flow Effect in Turbine Nozzle Guide Vanes. , 2007, , 905.		1
74	A Controls-Based Methodology for Generating Turbulence in Direct and Large-Eddy Simulations of Wall-Bounded Flows. , 2007, , 1367.		0
75	An Anisotropic Subgrid Model for Large Eddy Simulation of Wall Bounded Turbulent Flows. , 2007, , 1359.		0
76	Simulation of Rotor Vortex Interactions with a Particle-Laden Turbulent Boundary Layer. , 2011, , .		0
77	On Fluid-Particle and Particle-Particle Interactions in Gas-Solid Turbulent Channel Flow. , 2006, , 11-20.		0
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