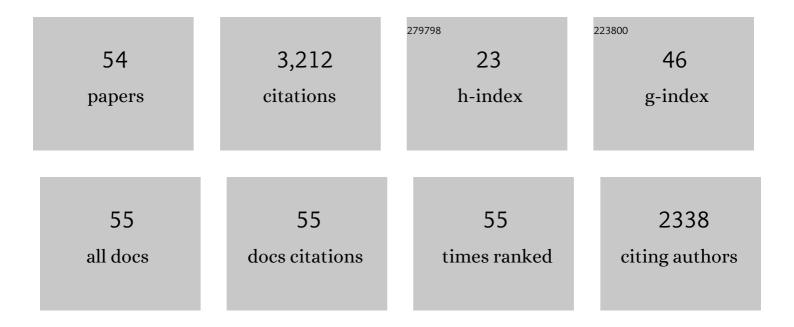
J Blair Perot

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A front-tracking method for two-phase flow simulation with no spurious currents. Journal of Computational Physics, 2022, 456, 111006.	3.8	3
2	A method for generating moving, orthogonal, area preserving polygonal meshes. Journal of Computational Physics, 2022, 454, 110940.	3.8	1
3	A mimetic method for polygons. Journal of Computational Physics, 2021, 424, 109853.	3.8	2
4	Fluid Dynamics of the Open Port Interface for High-Speed Nanoliter Volume Sampling Mass Spectrometry. Analytical Chemistry, 2021, 93, 8559-8567.	6.5	19
5	A fractional-step method for steady-state flow. Journal of Computational Physics, 2020, 403, 109057.	3.8	2
6	A stopping criterion for the iterative solution of partial differential equations. Journal of Computational Physics, 2018, 352, 265-284.	3.8	9
7	High-speed velocimetry in microfluidic protein mixers using confocal fluorescence decay microscopy. Experiments in Fluids, 2018, 59, 1.	2.4	2
8	Memristor-CMOS Analog Co-Processor for Acceleration of High Performance Computing Applications. , 2018, , .		0
9	Computer design of microfluidic mixers for protein/RNA folding studies. PLoS ONE, 2018, 13, e0198534.	2.5	7
10	Memristor-CMOS Analog Coprocessor for Acceleration of High-Performance Computing Applications. ACM Journal on Emerging Technologies in Computing Systems, 2018, 14, 1-30.	2.3	5
11	Improving the efficiency of wind farms via wake manipulation. Wind Energy, 2018, 21, 1239-1253.	4.2	6
12	How much does nasal cavity morphology matter? Patterns and rates of olfactory airflow in phyllostomid bats. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142161.	2.6	18
13	Simulation and modeling of turbulence subjected to a period of axisymmetric contraction or expansion. Physics of Fluids, 2014, 26, 115103.	4.0	7
14	The role of the olfactory recess in olfactory airflow. Journal of Experimental Biology, 2014, 217, 1799-803.	1.7	68
15	Differential forms for scientists and engineers. Journal of Computational Physics, 2014, 257, 1373-1393.	3.8	24
16	Direct numerical simulation of turbulence using GPU accelerated supercomputers. Journal of Computational Physics, 2013, 235, 241-257.	3.8	48
17	Simulation and modeling of turbulence subjected to a period of uniform plane strain. Physics of Fluids, 2013, 25, 110819.	4.0	8
18	Advances in turbulent mixing techniques to study microsecond protein folding reactions. Biopolymers, 2013, 99, 888-896.	2.4	22

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19	The Oriented-Eddy Collision Turbulence Model. Flow, Turbulence and Combustion, 2012, 89, 335-359.	2.6	3
20	Computational Fluid Dynamics Simulations Using Many Graphics Processors. Computing in Science and Engineering, 2012, 14, 10-19.	1.2	17
21	Discrete Conservation Properties of Unstructured Mesh Schemes. Annual Review of Fluid Mechanics, 2011, 43, 299-318.	25.0	85
22	Determination of the decay exponent in mechanically stirred isotropic turbulence. AIP Advances, 2011, 1, .	1.3	16
23	Acceleration of the Smith–Waterman algorithm using single and multiple graphics processors. Journal of Computational Physics, 2010, 229, 4247-4258.	3.8	101
24	An analysis of superhydrophobic turbulent drag reduction mechanisms using direct numerical simulation. Physics of Fluids, 2010, 22, .	4.0	128
25	Modeling of the Internal Two-Phase Flow in a Gas-Centered Swirl Coaxial Fuel Injector. , 2010, , .		2
26	Direct numerical simulations of turbulent flows over superhydrophobic surfaces. Journal of Fluid Mechanics, 2009, 620, 31-41.	3.4	177
27	A stress transport equation model for simulating turbulence at any mesh resolution. Theoretical and Computational Fluid Dynamics, 2009, 23, 271-286.	2.2	16
28	A self-adapting turbulence model for flow simulation at any mesh resolution. Physics of Fluids, 2007, 19, .	4.0	27
29	A discrete calculus analysis of the Keller Box scheme and a generalization of the method to arbitrary meshes. Journal of Computational Physics, 2007, 226, 494-508.	3.8	11
30	Discrete calculus methods for diffusion. Journal of Computational Physics, 2007, 224, 59-81.	3.8	47
31	Higher-order mimetic methods for unstructured meshes. Journal of Computational Physics, 2006, 219, 68-85.	3.8	29
32	Modeling turbulent dissipation at low and moderate Reynolds numbers. Journal of Turbulence, 2006, 7, N69.	1.4	20
33	Mimetic Reconstruction of Vectors. , 2006, , 173-188.		14
34	Modeling return to isotropy using kinetic equations. Physics of Fluids, 2005, 17, 035101.	4.0	6
35	Eddy Collision Models for Turbulence. , 2005, , 107-116.		0
36	A model for the dissipation rate tensor in inhomogeneous and anisotropic turbulence. Physics of Fluids, 2004, 16, 4053-4065.	4.0	10

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#	Article	IF	CITATIONS
37	Laminar drag reduction in microchannels using ultrahydrophobic surfaces. Physics of Fluids, 2004, 16, 4635-4643.	4.0	888
38	A moving unstructured staggered mesh method for the simulation of incompressible free-surface flows. Journal of Computational Physics, 2003, 184, 192-214.	3.8	87
39	A spectral element semi-Lagrangian (SESL) method for the spherical shallow water equations. Journal of Computational Physics, 2003, 190, 623-650.	3.8	46
40	Application of the Turbulent Potential Model to Unsteady Flows and Three-Dimensional Boundary Layers. International Journal of Rotating Machinery, 2003, 9, 375-384.	0.8	1
41	Prediction of turbulent transition in boundary layers using the turbulent potential model. Journal of Turbulence, 2002, 3, N22.	1.4	25
42	Accuracy and Conservation Properties of a Three-Dimensional Unstructured Staggered Mesh Scheme for Fluid Dynamics. Journal of Computational Physics, 2002, 175, 764-791.	3.8	61
43	Analysis of an Exact Fractional Step Method. Journal of Computational Physics, 2002, 180, 183-199.	3.8	94
44	APPLICATION OF THE TURBULENT POTENTIAL MODEL TO COMPLEX FLOWS. , 2002, , 117-126.		2
45	Heat Transfer Within Deforming Droplets. , 2002, , .		8
46	DIRECT INTERFACE TRACKING OF DROPLET DEFORMATION. , 2002, 12, 721-736.		16
47	Conservation Properties of Unstructured Staggered Mesh Schemes. Journal of Computational Physics, 2000, 159, 58-89.	3.8	232
48	Modeling three-dimensional boundary layers using the turbulent potential model. , 2000, , .		2
49	Turbulence modeling using body force potentials. Physics of Fluids, 1999, 11, 2645-2656.	4.0	32
50	Comments on the Fractional Step Method. Journal of Computational Physics, 1995, 121, 190-191.	3.8	30
51	Shear-free turbulent boundary layers. Part 1. Physical insights into near-wall turbulence. Journal of Fluid Mechanics, 1995, 295, 199.	3.4	201
52	Shear-free turbulent boundary layers. Part 2. New concepts for Reynolds stress transport equation modelling of inhomogeneous flows. Journal of Fluid Mechanics, 1995, 295, 229.	3.4	26
53	An Analysis of the Fractional Step Method. Journal of Computational Physics, 1993, 108, 51-58.	3.8	452
54	A note on turbulent energy dissipation in the viscous wall region. Physics of Fluids A, Fluid Dynamics, 1993, 5, 3305-3306.	1.6	37