List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An immersed boundary method for complex incompressible flows. Journal of Computational Physics, 2007, 224, 757-784.	3.8	281
2	Drag Reduction by Spanwise Wall Oscillation in Wall-Bounded Turbulent Flows. AIAA Journal, 2002, 40, 842-850.	2.6	125
3	Numerical Simulations of Effects of Micro Vortex Generators Using Immersed-Boundary Methods. AIAA Journal, 2010, 48, 92-103.	2.6	97
4	Spatial organization of large-Âand very-large-scale motions in a turbulent channel flow. Journal of Fluid Mechanics, 2014, 749, 818-840.	3.4	90
5	Large-eddy simulation of human-induced contaminant transport in room compartments. Indoor Air, 2012, 22, 77-87.	4.3	89
6	Lagrangian statistics in turbulent channel flow. Physics of Fluids, 2004, 16, 779-793.	4.0	85
7	Large Eddy/Reynolds-Averaged Navier-Stokes Simulation of a Mach 5 Compression-Corner Interaction. AIAA Journal, 2008, 46, 977-991.	2.6	81
8	Mathematical Analysis of Particle Deposition in Human Lungs: An Improved Single Path Transport Model. Inhalation Toxicology, 2007, 19, 925-939.	1.6	76
9	Large eddy simulation and zonal modeling of human-induced contaminant transport. Indoor Air, 2008, 18, 233-249.	4.3	71
10	Evolution of Ultrafine Particle Size Distributions Following Indoor Episodic Releases: Relative Importance of Coagulation, Deposition and Ventilation. Aerosol Science and Technology, 2012, 46, 494-503.	3.1	70
11	Compressible Boundary-Layer Predictions at High Reynolds Number Using Hybrid LES/RANS Methods. AIAA Journal, 2009, 47, 2179-2193.	2.6	62
12	Forecasting state-of-health of lithium-ion batteries using variational long short-term memory with transfer learning. Journal of Energy Storage, 2021, 41, 102893.	8.1	54
13	Compressible-Flow Simulations Using a New Large-Eddy Simulation/Reynolds-Averaged Navier-Stokes Model. AIAA Journal, 2011, 49, 2194-2209.	2.6	53
14	Fast local image inpainting based on the Allen–Cahn model. , 2015, 37, 65-74.		51
15	A phase-field fluid modeling and computation with interfacial profile correction term. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 84-100.	3.3	50
16	Simulation of Shock/Boundary-Layer Interactions with Bleed Using Immersed-Boundary Methods. Journal of Propulsion and Power, 2010, 26, 203-214.	2.2	47
17	Multi-component Cahn–Hilliard system with different boundary conditions in complex domains. Journal of Computational Physics, 2016, 323, 1-16.	3.8	45
18	Intermittent Nature of Acceleration in Near Wall Turbulence. Physical Review Letters, 2004, 92, 144502.	7.8	44

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19	Relationship between wall pressure fluctuations and streamwise vortices in a turbulent boundary layer. Physics of Fluids, 2002, 14, 898-901.	4.0	38
20	Multizone modeling of strategies to reduce the spread of airborne infectious agents in healthcare facilities. Building and Environment, 2013, 60, 105-115.	6.9	38
21	Direct Numerical Simulation of Turbulent Flow in a Square Duct: Analysis of Secondary Flows. Journal of Engineering Mechanics - ASCE, 2007, 133, 213-221.	2.9	37
22	Human-Induced Particle Re-Suspension in a Room. Aerosol Science and Technology, 2010, 44, 216-229.	3.1	35
23	Multiple parameter identification using genetic algorithm in vanadium redox flow batteries. Journal of Power Sources, 2020, 450, 227684.	7.8	33
24	Size-Resolved Source Emission Rates of Indoor Ultrafine Particles Considering Coagulation. Environmental Science & Technology, 2016, 50, 10031-10038.	10.0	30
25	Activity gradient carbon felt electrodes for vanadium redox flow batteries. Journal of Power Sources, 2018, 408, 128-135.	7.8	30
26	Large-eddy simulation of turbulent flow and dispersion over a complex urban street canyon. Environmental Fluid Mechanics, 2014, 14, 1381-1403.	1.6	28
27	Fully decoupled monolithic projection method for natural convection problems. Journal of Computational Physics, 2017, 334, 582-606.	3.8	25
28	Dynamic Pore Modulation of Stretchable Electrospun Nanofiber Filter for Adaptive Machine Learned Respiratory Protection. ACS Nano, 2021, 15, 15730-15740.	14.6	25
29	Impedance-based capacity estimation for lithium-ion batteries using generative adversarial network. Applied Energy, 2022, 308, 118317.	10.1	25
30	Simulations of High-Speed Internal Flows Using LES/RANS Models. , 2009, , .		24
31	RANS and Hybrid LES/RANS Simulation of the Effects of Micro Vortex Generators Using Immersed Boundary Methods. , 2008, , .		23
32	Numerical Simulation of the Effects of Mesoflaps in Controlling Shock/Boundary-Layer Interactions. Journal of Propulsion and Power, 2012, 28, 955-970.	2.2	23
33	Effect of wind and buoyancy interaction on single-sided ventilation in a building. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 380-389.	3.9	21
34	Global sensitivity analysis for multivariate outputs using polynomial chaos-based surrogate models. Applied Mathematical Modelling, 2020, 82, 867-887.	4.2	20
35	A decoupled monolithic projection method for natural convection problems. Journal of Computational Physics, 2016, 314, 160-166.	3.8	19
36	A pre-conditioned implicit direct forcing based immersed boundary method for incompressible viscous flows. Journal of Computational Physics, 2016, 314, 774-799.	3.8	19

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37	Lock-in regions of laminar flows over a streamwise oscillating circular cylinder. Journal of Fluid Mechanics, 2019, 858, 315-351.	3.4	19
38	Efficient monolithic projection method with staggered time discretization for natural convection problems. International Journal of Heat and Mass Transfer, 2019, 144, 118677.	4.8	18
39	Analysis of velocity-components decoupled projection method for the incompressible Navier–Stokes equations. Computers and Mathematics With Applications, 2016, 71, 1722-1743.	2.7	17
40	Efficient monolithic projection method for time-dependent conjugate heat transfer problems. Journal of Computational Physics, 2018, 369, 191-208.	3.8	17
41	Multi-Wall Recycling / Rescaling Method for Inflow Turbulence Generation. , 2010, , .		16
42	PaScaL_TDMA: A library of parallel and scalable solvers for massive tridiagonal systems. Computer Physics Communications, 2021, 260, 107722.	7.5	16
43	Numerical Analysis on Water Transport in Alkaline Anion Exchange Membrane Fuel Cells. Electrochemistry, 2015, 83, 80-83.	1.4	15
44	Transition flow modes in Czochralski convection. Journal of Crystal Growth, 1997, 180, 305-314.	1.5	13
45	Suboptimal control for drag reduction in turbulent pipe flow. Fluid Dynamics Research, 2002, 30, 217-231.	1.3	13
46	Large Eddy Simulation of Particle Re-suspension During a Footstep. Aerosol Science and Technology, 2012, 46, 767-780.	3.1	13
47	Efficient monolithic projection-based method for chemotaxis-driven bioconvection problems. Computers and Mathematics With Applications, 2021, 84, 166-184.	2.7	13
48	Simulation of Shock / Boundary Layer Interactions Using Improved LES/RANS Models. , 2010, , .		11
49	Extended synthetic eddy method to generate inflow data for turbulent thermal boundary layer. International Journal of Heat and Mass Transfer, 2019, 134, 1261-1267.	4.8	11
50	Monolithic projection-based method with staggered time discretization for solving non-Oberbeck–Boussinesq natural convection flows. Journal of Computational Physics, 2022, 463, 111238.	3.8	11
51	Suppression of temperature oscillation in Czochralski convection by superimposing rotating flows. International Journal of Heat and Mass Transfer, 1997, 40, 1667-1675.	4.8	10
52	A simple and efficient outflow boundary condition for the incompressible Navier–Stokes equations. Engineering Applications of Computational Fluid Mechanics, 2017, 11, 69-85.	3.1	10
53	Non-intrusive framework of reduced-order modeling based on proper orthogonal decomposition and polynomial chaos expansion. Journal of Computational and Applied Mathematics, 2021, 390, 113372.	2.0	10
54	Enhanced Single-Sided Ventilation with Overhang in Buildings. Energies, 2016, 9, 122.	3.1	9

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55	Binary genetic algorithm for optimal joinpoint detection: Application to cancer trend analysis. Statistics in Medicine, 2021, 40, 799-822.	1.6	9
56	Assessment of suboptimal control for drag reduction in turbulent channel flow. Journal of Turbulence, 2002, 3, N29.	1.4	8
57	Hybrid LES/RANS Simulation of a Mach 5 Compression-Corner Interaction. , 2008, , .		8
58	A Reconstruction Method of Blood Flow Velocity in Left Ventricle Using Color Flow Ultrasound. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-15.	1.3	8
59	Uncertainty quantification of upstream wind effects on single-sided ventilation in a building using generalized polynomial chaos method. Building and Environment, 2017, 125, 153-167.	6.9	8
60	MPI Parallel Implementation for Pseudo-Spectral Simulations for Turbulent Channel Flow. International Journal of Computational Fluid Dynamics, 2020, 34, 569-582.	1.2	8
61	Non-intrusive reduced-order modeling for uncertainty quantification of space–time-dependent parameterized problems. Computers and Mathematics With Applications, 2021, 87, 50-64.	2.7	8
62	Mean thermal energy balance analysis in differentially heated vertical channel flows. Physics of Fluids, 2021, 33, .	4.0	8
63	Compressible Boundary Layer Predictions at High Reynolds Number using Hybrid LES/RANS Methods. , 2008, , .		7
64	Interparticle collision mechanism in turbulence. Physical Review E, 2016, 93, 013112.	2.1	6
65	Parameter identification and identifiability analysis of lithiumâ€ion batteries. Energy Science and Engineering, 2022, 10, 488-506.	4.0	6
66	Effect of surface conditions on blast wave propagation. Journal of Mechanical Science and Technology, 2016, 30, 3907-3915.	1.5	5
67	Efficient exact solution procedure for quasi-one-dimensional nozzle flows with stiffened-gas equation of state. International Journal of Heat and Mass Transfer, 2019, 137, 523-533.	4.8	5
68	Simulations of Shock / Boundary Layer Interactions with Bleed using Immersed Boundary Methods. , 2009, , .		4
69	Physically Based Probabilistic Analysis of Sediment Deposition in Open Channel Flow. Journal of Hydraulic Engineering, 2017, 143, .	1.5	4
70	An immersed boundary formulation incorporating a two-layer wall model approach for RANS simulations with complex geometry. Computers and Fluids, 2020, 205, 104551.	2.5	4
71	An Immersed Boundary Method for General Flow Applications. , 2010, , .		3
72	Simulation of a Mach 3 24-Degree Compression-Ramp Interaction using LES/RANS Models. , 2011, , .		3

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73	Exponentially Stagnation Point Flow of Non-Newtonian Nanofluid over an Exponentially Stretching Surface. International Journal of Nonlinear Sciences and Numerical Simulation, 2014, 15, .	1.0	3
74	Pre-design model for redox flow battery design. Journal of Mechanical Science and Technology, 2018, 32, 1025-1032.	1.5	3
75	Contribution of Reynolds shear stress to near-wall turbulence in Rayleigh–Bénard convection. International Journal of Heat and Mass Transfer, 2021, 181, 121873.	4.8	3
76	NUMERICAL SIMULATION OF INITIAL FIREBALL AFTER NUCLEAR EXPLOSION. Journal of Computational Fluids Engineering, 2014, 19, 45-51.	0.0	3
77	Immersed-Boundary Methods for Simulating Human Motion Events. Computational Methods in Engineering & the Sciences, 2020, , 395-419.	0.3	3
78	Identification and Control of Taylor-Go-yen;rtler Vortices in Turbulent Curved Channel Flow. AIAA Journal, 2003, 41, 2387-2393.	2.6	2
79	Inter-particle collision in particle-laden isotropic turbulence. Journal of Physics: Conference Series, 2011, 318, 052012.	0.4	2
80	An electrical impedance monitoring method of water-lubricated oil transportation. Flow Measurement and Instrumentation, 2015, 46, 327-333.	2.0	2
81	A reconstruction method of intra-ventricular blood flow using color flow ultrasound: a simulation study. Proceedings of SPIE, 2015, , .	0.8	2
82	Inverse Problem for Color Doppler Ultrasound-Assisted Intracardiac Blood Flow Imaging. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	1.3	2
83	Analysis of localized damping effects in channel flows with a periodic rough boundary. Applicable Analysis, 2018, 97, 902-918.	1.3	2
84	Quantification of measurement error effects on conductivity reconstruction in electrical impedance tomography. Inverse Problems in Science and Engineering, 2020, 28, 1669-1693.	1.2	2
85	Numerical Simulation of the Effects of Mesoflaps in Controlling Shock / Boundary Layer Interactions. , 2010, , .		1
86	Two dimensional radial gas flows in atmospheric pressure plasma-enhanced chemical vapor deposition. AIP Advances, 2017, 7, 125310.	1.3	1
87	Analysis of localized damping effects in channel flows with arbitrary rough boundary. Applicable Analysis, 2019, 98, 2359-2377.	1.3	1
88	Numerical Simulation of Underwater Burst Events Using Sharp Interface Capturing Methods. , 2019, , .		1
89	Analysis of convective heat transfer in channel flow with arbitrary rough surface. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201700363.	1.6	1
90	Drag, lift, and torque coefficients for various geometrical configurations of elliptic cylinder under Stokes to laminar flow regimes. AlP Advances, 2022, 12, .	1.3	1

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91	Short note on conditional collapse of self-gravitating system with positive total energy. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 205-209.	2.6	0
92	AN IMMERSED BOUNDARY METHOD FOR LOW REYNOLDS NUMBER FLOWS. Journal of Computational Fluids Engineering, 2013, 18, 34-41.	0.0	0