

Jason M Reese

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147
papers

3,781
citations

35
h-index

53
g-index

166
ext. papers

4,302
ext. citations

3.5
avg. IF

5.67
L-index

#	Paper	IF	Citations
147	An open source, parallel DSMC code for rarefied gas flows in arbitrary geometries. <i>Computers and Fluids</i> , 2010 , 39, 2078-2089	2.8	192
146	Velocity boundary condition at solid walls in rarefied gas calculations. <i>Physical Review E</i> , 2004 , 70, 017303	3.4	175
145	Water transport through (7,7) carbon nanotubes of different lengths using molecular dynamics. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 257-264	2.8	91
144	Deterministic numerical solutions of the Boltzmann equation using the fast spectral method. <i>Journal of Computational Physics</i> , 2013 , 250, 27-52	4.1	89
143	Fluid shear stress induction of the tissue factor promoter in vitro and in vivo is mediated by Egr-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 281-9	9.4	83
142	Implementation of semi-discrete, non-staggered central schemes in a colocated, polyhedral, finite volume framework, for high-speed viscous flows. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 63, n/a-n/a	1.9	77
141	Solving the Boltzmann equation deterministically by the fast spectral method: application to gas microflows. <i>Journal of Fluid Mechanics</i> , 2014 , 746, 53-84	3.7	75
140	Flow enhancement in nanotubes of different materials and lengths. <i>Journal of Chemical Physics</i> , 2014 , 140, 014702	3.9	73
139	dsmcFoam+: An OpenFOAM based direct simulation Monte Carlo solver. <i>Computer Physics Communications</i> , 2018 , 224, 22-43	4.2	72
138	The structure of shock waves as a test of Brenner's modifications to the Navier-Stokes equations. <i>Journal of Fluid Mechanics</i> , 2007 , 580, 407-429	3.7	72
137	New directions in fluid dynamics: non-equilibrium aerodynamic and microsystem flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 2967-88	3	72
136	On the modelling of isothermal gas flows at the microscale. <i>Journal of Fluid Mechanics</i> , 2008 , 604, 235-261	3.7	66
135	Capturing the Knudsen Layer in Continuum-Fluid Models of Nonequilibrium Gas Flows. <i>AIAA Journal</i> , 2005 , 43, 1391-1393	2.1	66
134	VIBRATION OF A FLEXIBLE PIPE CONVEYING VISCOUS PULSATING FLUID FLOW. <i>Journal of Sound and Vibration</i> , 2000 , 230, 379-392	3.9	63
133	The usefulness of higher-order constitutive relations for describing the Knudsen layer. <i>Physics of Fluids</i> , 2005 , 17, 100609	4.4	60
132	Velocity slip in microscale cylindrical Couette flow: The Langmuir model. <i>Physics of Fluids</i> , 2005 , 17, 087105	4.4	57
131	Modeling of Knudsen Layer Effects in Micro/Nanoscale Gas Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	56

130	A DSMC investigation of gas flows in micro-channels with bends. <i>Computers and Fluids</i> , 2013 , 71, 261-271	2.8	55
129	Wetting and evaporation of salt-water nanodroplets: A molecular dynamics investigation. <i>Physical Review E</i> , 2015 , 92, 052403	2.4	55
128	Open-Source Direct Simulation Monte Carlo Chemistry Modeling for Hypersonic Flows. <i>AIAA Journal</i> , 2015 , 53, 1670-1680	2.1	52
127	INITIALLY TENSIONED ORTHOTROPIC CYLINDRICAL SHELLS CONVEYING FLUID: A VIBRATION ANALYSIS. <i>Journal of Fluids and Structures</i> , 2002 , 16, 53-70	3.1	50
126	Water transport through carbon nanotubes with defects. <i>Molecular Simulation</i> , 2012 , 38, 781-785	2	49
125	High-resolution Burnett simulations of micro Couette flow and heat transfer. <i>Journal of Computational Physics</i> , 2003 , 188, 333-347	4.1	49
124	A multiscale method for micro/nano flows of high aspect ratio. <i>Journal of Computational Physics</i> , 2013 , 233, 400-413	4.1	47
123	A kinetic model of the Boltzmann equation for non-vibrating polyatomic gases. <i>Journal of Fluid Mechanics</i> , 2015 , 763, 24-50	3.7	46
122	Electric fields can control the transport of water in carbon nanotubes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	42
121	A continuum model of gas flows with localized density variations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 6079-6094	3.3	41
120	The effect of gaseous slip on microscale heat transfer: An extended Graetz problem. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2502-2513	4.9	41
119	Molecular dynamics in arbitrary geometries: Parallel evaluation of pair forces. <i>Molecular Simulation</i> , 2008 , 34, 97-115	2	40
118	The drag force in two-fluid models of gas-solid flows. <i>Chemical Engineering Science</i> , 2003 , 58, 1641-1644	4.4	39
117	Dynamics of nanoscale droplets on moving surfaces. <i>Langmuir</i> , 2013 , 29, 6936-43	4	38
116	Molecular free path distribution in rarefied gases. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 125502	3	38
115	Gas turbulence modulation in a two-fluid model for gas-solid flows. <i>AIChE Journal</i> , 2003 , 49, 3048-3065	3.6	38
114	An Extension to the Navier-Stokes Equations to Incorporate Gas Molecular Collisions With Boundaries. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	37
113	Controllers for imposing continuum-to-molecular boundary conditions in arbitrary fluid flow geometries. <i>Molecular Simulation</i> , 2010 , 36, 745-757	2	37

112	Droplet Coalescence is Initiated by Thermal Motion. <i>Physical Review Letters</i> , 2019 , 122, 104501	7.4	35
111	Particle-gas turbulence interactions in a kinetic theory approach to granular flows. <i>International Journal of Multiphase Flow</i> , 2001 , 27, 1945-1964	3.6	35
110	Molecular dynamics pre-simulations for nanoscale computational fluid dynamics. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 461-474	2.8	34
109	Electrowetting Controls the Deposit Patterns of Evaporated Salt Water Nanodroplets. <i>Langmuir</i> , 2016 , 32, 1542-9	4	34
108	Vibration of prestressed thin cylindrical shells conveying fluid. <i>Thin-Walled Structures</i> , 2003 , 41, 1103-1127	4.7	34
107	A FINITE ELEMENT METHOD FOR MODELLING THE VIBRATION OF INITIALLY TENSIONED THIN-WALLED ORTHOTROPIC CYLINDRICAL TUBES CONVEYING FLUID. <i>Journal of Sound and Vibration</i> , 2001 , 245, 93-112	3.9	34
106	Multiscale simulation of water flow through laboratory-scale nanotube membranes. <i>Journal of Membrane Science</i> , 2018 , 567, 115-126	9.6	34
105	A fast spectral method for the Boltzmann equation for monatomic gas mixtures. <i>Journal of Computational Physics</i> , 2015 , 298, 602-621	4.1	33
104	A hybrid molecular-continuum method for unsteady compressible multiscale flows. <i>Journal of Fluid Mechanics</i> , 2015 , 768, 388-414	3.7	32
103	Oscillatory rarefied gas flow inside rectangular cavities. <i>Journal of Fluid Mechanics</i> , 2014 , 748, 350-367	3.7	32
102	Benchmark numerical simulations of rarefied non-reacting gas flows using an open-source DSMC code. <i>Computers and Fluids</i> , 2015 , 120, 140-157	2.8	31
101	A Second-Order Description of Shock Structure. <i>Journal of Computational Physics</i> , 1995 , 117, 240-250	4.1	31
100	Time-step coupling for hybrid simulations of multiscale flows. <i>Journal of Computational Physics</i> , 2013 , 237, 344-365	4.1	30
99	Multiscale simulation of dynamic wetting. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 886-896	4.9	28
98	Non-equilibrium dynamics of dense gas under tight confinement. <i>Journal of Fluid Mechanics</i> , 2016 , 794, 252-266	3.7	28
97	Langmuir-Maxwell and Langmuir-Smoluchowski boundary conditions for thermal gas flow simulations in hypersonic aerodynamics. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5032-5043	4.9	27
96	Fluid simulations with atomistic resolution: a hybrid multiscale method with field-wise coupling. <i>Journal of Computational Physics</i> , 2013 , 255, 149-165	4.1	26
95	Assessment of the ellipsoidal-statistical Bhatnagar-Gross-Krook model for force-driven Poiseuille flows. <i>Journal of Computational Physics</i> , 2013 , 251, 383-395	4.1	26

94	Near-wall effects in rarefied gas micro-flows: some modern hydrodynamic approaches. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 37-43	2.4	26
93	Finite element analysis of the vibratory characteristics of cylindrical shells conveying fluid. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 5207-5231	5.7	26
92	Analysis of the vibration of pipes conveying fluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1999 , 213, 849-859	1.3	26
91	Multiscale simulation of enhanced water flow in nanotubes. <i>MRS Bulletin</i> , 2017 , 42, 294-299	3.2	25
90	Hybrid molecular-continuum simulations of water flow through carbon nanotube membranes of realistic thickness. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 997-1010	2.8	25
89	Influence of intermolecular potentials on rarefied gas flows: Fast spectral solutions of the Boltzmann equation. <i>Physics of Fluids</i> , 2015 , 27, 082002	4.4	25
88	A comparative study of axisymmetric finite elements for the vibration of thin cylindrical shells conveying fluid. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 54, 89-110	2.4	25
87	A fast iterative scheme for the linearized Boltzmann equation. <i>Journal of Computational Physics</i> , 2017 , 338, 431-451	4.1	24
86	The FADE mass-stat: a technique for inserting or deleting particles in molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2014 , 140, 074110	3.9	23
85	Effects of Rarefaction on Cavity Flow in the Slip Regime. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007 , 4, 817-822	0.3	23
84	Rarefied hypersonic flow simulations using the Navier-Stokes equations with non-equilibrium boundary conditions. <i>Progress in Aerospace Sciences</i> , 2012 , 52, 80-87	8.8	22
83	A hybrid molecular-continuum simulation method for incompressible flows in micro/nanofluidic networks. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 541-557	2.8	22
82	Switching criteria for hybrid rarefied gas flow solvers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009 , 465, 1581-1598	2.4	22
81	A critical assessment of the line tension determined by the modified Young's equation. <i>Physics of Fluids</i> , 2018 , 30, 082003	4.4	21
80	A volume-based hydrodynamic approach to sound wave propagation in a monatomic gas. <i>Physics of Fluids</i> , 2010 , 22, 016103	4.4	21
79	The effect of Knudsen layers on rarefied cylindrical Couette gas flows. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 31-43	2.8	20
78	Hybrid continuum-molecular modelling of multiscale internal gas flows. <i>Journal of Computational Physics</i> , 2013 , 255, 558-571	4.1	20
77	Fast spectral solution of the generalized Enskog equation for dense gases. <i>Journal of Computational Physics</i> , 2015 , 303, 66-79	4.1	19

76	Breakdown parameter for kinetic modeling of multiscale gas flows. <i>Physical Review E</i> , 2014 , 89, 063305	2.4	18
75	Effects of curvature on rarefied gas flows between rotating concentric cylinders. <i>Physics of Fluids</i> , 2013 , 25, 052003	4.4	18
74	Characterization of the flow in the molten metal sump during direct chill aluminum casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1997 , 28, 491-499	2.5	18
73	Generation of initial molecular dynamics configurations in arbitrary geometries and in parallel. <i>Molecular Simulation</i> , 2007 , 33, 1199-1212	2	18
72	Computing the Near-Wall Region in Gas Micro- and Nanofluidics: Critical Knudsen Layer Phenomena. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007 , 4, 807-813	0.3	18
71	Mechanical Stability of Surface Nanobubbles. <i>Langmuir</i> , 2019 , 35, 9325-9333	4	17
70	Aerothermodynamic Comparison of Two- and Three-Dimensional Rarefied Hypersonic Cavity Flows. <i>Journal of Spacecraft and Rockets</i> , 2014 , 51, 1619-1630	1.5	15
69	Spatial stochasticity and non-continuum effects in gas flows. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 967-972	2.3	15
68	A Laplacian-based algorithm for non-isothermal atomistic-continuum hybrid simulation of micro and nano-flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 264, 81-94	5.7	15
67	Shear stress in arterial stenoses: a momentum integral model. <i>Journal of Biomechanics</i> , 1998 , 31, 1051-7	2.9	15
66	Comparative study of the Boltzmann and McCormack equations for Couette and Fourier flows of binary gaseous mixtures. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 29-41	4.9	15
65	Effective mean free path and viscosity of confined gases. <i>Physics of Fluids</i> , 2019 , 31, 072002	4.4	14
64	Multiscale simulation of heat transfer in a rarefied gas. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 50, 114-125	2.4	14
63	Analysis of the thermomechanical inconsistency of some extended hydrodynamic models at high Knudsen number. <i>Physical Review E</i> , 2012 , 85, 041202	2.4	14
62	A comparative study of the DSBGK and DVM methods for low-speed rarefied gas flows. <i>Computers and Fluids</i> , 2019 , 181, 143-159	2.8	14
61	Simulating Fluid Flows in Micro and Nano Devices: The Challenge of Non-Equilibrium Behaviour. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 2061-2074	0.3	12
60	A modal and damping analysis of viscoelastic Timoshenko tubes conveying fluid. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 419-433	2.4	12
59	Vibration analysis of a circular disc backed by a cylindrical cavity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2001 , 215, 1303-1311	1.3	12

58	An evaluation of noise reduction algorithms for particle-based fluid simulations in multi-scale applications. <i>Journal of Computational Physics</i> , 2016 , 325, 380-394	4.1	11
57	Comparing macroscopic continuum models for rarefied gas dynamics: A new test method. <i>Journal of Computational Physics</i> , 2006 , 218, 748-769	4.1	11
56	mdFoam+: Advanced molecular dynamics in OpenFOAM. <i>Computer Physics Communications</i> , 2018 , 224, 1-21	4.2	10
55	Rarefied gas effects on the aerodynamics of high area-to-mass ratio spacecraft in orbit. <i>Advances in Space Research</i> , 2013 , 51, 2112-2124	2.4	10
54	Boundary conditions for molecular dynamics simulations of water transport through nanotubes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 186-195	1.3	10
53	A Critical Review Of The Drag Force On A Sphere In The Transition Flow Regime. <i>AIP Conference Proceedings</i> , 2005 ,	0	10
52	Enhancing nano-scale computational fluid dynamics with molecular pre-simulations: Unsteady problems and design optimisation. <i>Computers and Fluids</i> , 2015 , 115, 46-53	2.8	9
51	Dynamics of Nanodroplets on Vibrating Surfaces. <i>Langmuir</i> , 2018 , 34, 11898-11904	4	9
50	Evaluating constitutive scaling models for application to compressible microflows. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 1281-1292	4.9	9
49	An experimental study of the effects of pulsating and steady internal fluid flow on an elastic tube subjected to external vibration. <i>Journal of Sound and Vibration</i> , 2003 , 266, 355-367	3.9	9
48	Multiscale simulation of nanofluidic networks of arbitrary complexity. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 841-858	2.8	8
47	Asynchronous coupling of hybrid models for efficient simulation of multiscale systems. <i>Journal of Computational Physics</i> , 2015 , 284, 261-272	4.1	8
46	Recasting Navier-Stokes equations. <i>Journal of Physics Communications</i> , 2019 , 3, 105009	1.2	8
45	Liquid slip over gas nanofilms. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	8
44	Do thermal effects cause the propulsion of bulk graphene material?. <i>Nature Photonics</i> , 2016 , 10, 139-139	3.9	7
43	Molecular Dynamics Simulation of Classical Thermosize Effects. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014 , 18, 39-53	3.7	7
42	Lattice Boltzmann Simulations of Thermocapillary Motion of Droplets in Microfluidic Channels. <i>Communications in Computational Physics</i> , 2015 , 17, 1113-1126	2.4	7
41	Numerical Simulation of Rarefied Gas Flows with Specified Heat Flux Boundary Conditions. <i>Communications in Computational Physics</i> , 2015 , 17, 1185-1200	2.4	7

40	A phenomenological and extended continuum approach for modelling non-equilibrium flows. <i>Continuum Mechanics and Thermodynamics</i> , 2007 , 19, 273-283	3.5	7
39	Computational framework for the regularized 20-moment equations for non-equilibrium gas flows. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 56, 1433-1439	1.9	7
38	Temperature retrieval error in Rayleigh-Brillouin scattering using Tenti-S6 kinetic model 2016 ,		7
37	Acoustothermal Atomization of Water Nanofilms. <i>Physical Review Letters</i> , 2018 , 121, 104502	7.4	7
36	A novel coupling of noise reduction algorithms for particle flow simulations. <i>Journal of Computational Physics</i> , 2016 , 321, 169-190	4.1	6
35	The atomistic-continuum hybrid taxonomy and the hybrid-hybrid approach. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 98, 534-546	2.4	6
34	A parallel compact-TVD method for compressible fluid dynamics employing shared and distributed-memory paradigms. <i>Computers and Fluids</i> , 2011 , 45, 172-176	2.8	6
33	Vibration analysis of a thin circular plate influenced by liquid/gas interaction in a cylindrical cavity. <i>Journal of Sound and Vibration</i> , 2005 , 279, 601-618	3.9	6
32	The vibration of an artery-like tube conveying pulsatile fluid flow. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2002 , 216, 1-11	1.7	6
31	Observations on the vibration of axially tensioned elastomeric pipes conveying fluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2000 , 214, 423-434	1.3	6
30	Coherent Rayleigh-Brillouin scattering: Influence of the intermolecular potential 2014 ,		5
29	Continuum Modelling of Granular Particle Flow with Inelastic Inter-Particle Collisions. <i>Chemical Engineering Research and Design</i> , 2003 , 81, 483-488	5.5	5
28	General theory for flow optimisation of split-flow thin fractionation. <i>Journal of Chromatography A</i> , 2003 , 1010, 87-94	4.5	5
27	The influence of the drag force due to the interstitial gas on granular flows down a chute. <i>International Journal of Multiphase Flow</i> , 2000 , 26, 2049-2072	3.6	5
26	Coupling heterogeneous continuum-particle fields to simulate non-isothermal microscale gas flows. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 98, 712-727	4.9	5
25	A Particle-Continuum Hybrid Framework for Transport Phenomena and Chemical Reactions in Multicomponent Systems at the Micro and Nanoscale. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	4
24	The application of a shock wave model to some industrial bubbly fluid flows. <i>International Journal of Engineering Science</i> , 2000 , 38, 1617-1638	5.7	4
23	Investigating the Effect of Solid Boundaries on the Gas Molecular Mean-Free-Path 2009 ,		3

22	Isothermal micro-channel gas flow using a hydrodynamic model with dissipative mass flux 2011 ,		3
21	Thermal transpiration of nanoscale gas flow 2012 ,		3
20	Velocity Inversion In Cylindrical Couette Gas Flows. <i>Journal of Physics: Conference Series</i> , 2012 , 362, 012009		3
19	Molecular Dynamics Simulations of Liquid Flow in and Around Carbon Nanotubes 2010 ,		2
18	Behaviour of microscale gas flows based on a power-law free path distribution function 2011 ,		2
17	Accounting for rotational non-equilibrium effects in subsonic DSMC boundary conditions. <i>Journal of Physics: Conference Series</i> , 2012 , 362, 012016	0.3	2
16	A Hybrid Particle-Continuum Framework 2008 ,		2
15	Scaled Navier-Stokes-Fourier Equations for Gas Flow and Heat Transfer Phenomena in Micro- and Nanosystems 2006 , 369		2
14	A wall-function approach to incorporating Knudsen-layer effects in gas micro flow simulations. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
13	A Procedure for Calculating Wall Distance in Arbitrary Microchannel Geometries 2006 ,		2
12	Knudsen heat capacity. <i>Physics of Fluids</i> , 2014 , 26, 052002	4.4	1
11	An Atomistic-Continuum Hybrid Approach for Modelling Transport Phenomena at the Micro- and Nano-Scale 2013 ,		1
10	Rarefaction effects in gas flows over curved surfaces 2012 ,		1
9	A kinetic switching criterion for hybrid modelling of multiscale gas flows. <i>Journal of Physics: Conference Series</i> , 2012 , 362, 012006	0.3	1
8	The Importance of Mean Free Path in Determining Gas Micro Flow Behaviour 2010 ,		1
7	Gas Flow Through Microscale Orifice Plates 2006 , 525		1
6	Geometric and constitutive dependence of Maxwell velocity slip boundary condition. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
5	Thermal Creep Flow of Helium Gas at Cryogenic Temperatures. <i>Journal of Physics: Conference Series</i> , 2014 , 490, 012045	0.3	

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- 3 Free Vibration Analysis of a Basic Structural/Gas/Liquid Interacting System. *Materials Science Forum*, **2003**, 440-441, 381-388 0.4
- 2 Multiphase Lattice Boltzmann simulations of droplets in Microchannel networks. *Houille Blanche*, **2013**, 5-11 0.3
- 1 Introduction to Atmospheric Transit **2014**, 99-115