Jan NordstrÃ¶m

List of Publications by Year
in descending order

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195 papers	4,734 citations	109321 35 h-index	110387 64 g-index
206 all docs	206 docs citations	206 times ranked	1090 citing authors

#	Article	IF	Citations
1	A Stable and Conservative Interface Treatment of Arbitrary Spatial Accuracy. Journal of Computational Physics, 1999, 148, 341-365.	3.8	375
2	Review of summation-by-parts schemes for initialâ€“boundary-value problems. Journal of Computational Physics, 2014, 268, 17-38.	3.8	314
3	Summation by parts operators for finite difference approximations of second derivatives. Journal of Computational Physics, 2004, 199, 503-540.	3.8	288
4	A stable high-order finite difference scheme for the compressible Navierâ€“Stokes equations, far-field boundary conditions. Journal of Computational Physics, 2007, 225, 1020-1038.	3.8	195
5	A stable high-order finite difference scheme for the compressible Navierâ€“Stokes equations. Journal of Computational Physics, 2008, 227, 4805-4824.	3.8	168
6	Boundary and Interface Conditions for High-Order Finite-Difference Methods Applied to the Euler and Navierâ€“Stokes Equations. Journal of Computational Physics, 1999, 148, 621-645.	3.8	148
7	Stable and Accurate Artificial Dissipation. Journal of Scientific Computing, 2004, 21, 57-79.	2.3	144
8	On the order of accuracy for difference approximations of initial-boundary value problems. Journal of Computational Physics, 2006, 218, 333-352.	3.8	144
9	The Fringe Region Technique and the Fourier Method Used in the Direct Numerical Simulation of Spatially Evolving Viscous Flows. SIAM Journal of Scientific Computing, 1999, 20, 1365-1393.	2.8	132
10	High-Order Finite Difference Methods, Multidimensional Linear Problems, and Curvilinear Coordinates. Journal of Computational Physics, 2001, 173, 149-174.	3.8	127
11	Discretely conservative finite-difference formulations for nonlinear conservation laws in split form: Theory and boundary conditions. Journal of Computational Physics, 2013, 234, 353-375.	3.8	120
12	A stable and conservative high order multi-block method for the compressible Navierâ€“Stokes equations. Journal of Computational Physics, 2009, 228, 9020-9035.	3.8	119
13	Conservative Finite Difference Formulations, Variable Coefficients, Energy Estimates and Artificial Dissipation. Journal of Scientific Computing, 2006, 29, 375-404.	2.3	104
14	Well-Posed Boundary Conditions for the Navier--Stokes Equations. SIAM Journal on Numerical Analysis, 2005, 43, 1231-1255.	2.3	102
15	Finite volume methods, unstructured meshes and strict stability forÂhyperbolic problems. Applied Numerical Mathematics, 2003, 45, 453-473.	2.1	95
16	Simulation of Dynamic Earthquake Ruptures in Complex Geometries Using High-Order Finite Difference Methods. Journal of Scientific Computing, 2013, 55, 92-124.	2.3	77
17	Revisiting and Extending Interface Penalties forÂMulti-domain Summation-by-Parts Operators. Journal of Scientific Computing, 2010, 45, 118-150.	2.3	66
18	Summation-by-parts in time. Journal of Computational Physics, 2013, 251, 487-499.	3.8	66

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19	A stochastic Galerkin method for the Euler equations with Roe variable transformation. Journal of Computational Physics, 2014, 257, 481-500.	3.8	57
20	High order finite difference methods for wave propagation in discontinuous media. Journal of Computational Physics, 2006, 220, 249-269.	3.8	51
21	A Roadmap to Well Posed and Stable Problems in Computational Physics. Journal of Scientific Computing, 2017, 71, 365-385.	2.3	51
22	Numerical analysis of the Burgersâ€™ equation in the presence of uncertainty. Journal of Computational Physics, 2009, 228, 8394-8412.	3.8	50
23	Weak and strong wall boundary procedures and convergence to steady-state of the Navierâ€“Stokes equations. Journal of Computational Physics, 2012, 231, 4867-4884.	3.8	49
24	Interaction of Waves with Frictional Interfaces Using Summation-by-Parts Difference Operators: Weak Enforcement of Nonlinear Boundary Conditions. Journal of Scientific Computing, 2012, 50, 341-367.	2.3	49
25	High-order accurate computations for unsteady aerodynamics. Computers and Fluids, 2007, 36, 636-649.	2.5	47
26	The SBP-SAT technique for initial value problems. Journal of Computational Physics, 2014, 270, 86-104.	3.8	46
27	Boundary conditions for a divergence free velocityâ€“pressure formulation of the Navierâ€“Stokes equations. Journal of Computational Physics, 2007, 225, 874-890.	3.8	45
28	Steady-State Computations Using Summation-by-Parts Operators. Journal of Scientific Computing, 2005, 24, 79-95.	2.3	44
29	Polynomial Chaos Methods for Hyperbolic Partial Differential Equations. Mathematical Engineering, 2015, , .	0.2	43
30	Title is missing!. Journal of Scientific Computing, 2003, 18, 215-234.	2.3	42
31	The influence of open boundary conditions on the convergence to steady state for the Navier-Stokes equations. Journal of Computational Physics, 1989, 85, 210-244.	3.8	40
32	The use of characteristic boundary conditions for the Navier-Stokes equations. Computers and Fluids, 1995, 24, 609-623.	2.5	40
33	Error Bounded Schemes for Time-dependent Hyperbolic Problems. SIAM Journal of Scientific Computing, 2008, 30, 46-59.	2.8	38
34	Application of a Line-Implicit Scheme on Stretched Unstructured Grids. , 2009, , .		36
35	A stable and high-order accurate conjugate heat transfer problem. Journal of Computational Physics, 2010, 229, 5440-5456.	3.8	36
36	Stability of finite volume approximations for the Laplacian operator on quadrilateral and triangular grids. Applied Numerical Mathematics, 2004, 51, 101-125.	2.1	35

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37	A stable hybrid method for hyperbolic problems. Journal of Computational Physics, 2006, 212, 436-453.	3.8	31
38	Superconvergent functional output for time-dependent problems using finite differences on summation-by-parts form. Journal of Computational Physics, 2012, 231, 6846-6860.	3.8	31
39	Stable Robin solid wall boundary conditions for the Navierâ€“Stokes equations. Journal of Computational Physics, 2011, 230, 7519-7532.	3.8	30
40	Energy stable and high-order-accurate finite difference methods on staggered grids. Journal of Computational Physics, 2017, 346, 572-589.	3.8	30
41	Accurate Solutions of the Navier-Stokes Equations Despite Unknown Outflow Boundary Data. Journal of Computational Physics, 1995, 120, 184-205.	3.8	29
42	Influence of Weak and Strong Solid Wall Boundary Conditions on the Convergence to Steady-State of the Navier-Stokes Equations. , 2009, , .		29
43	Finite volume approximations and strict stability for hyperbolic problems. Applied Numerical Mathematics, 2001, 38, 237-255.	2.1	28
44	On the convergence rates of energy-stable finite-difference schemes. Journal of Computational Physics, 2019, 397, 108819.	3.8	27
45	Interface procedures for finite difference approximations of the advectionâ€“diffusion equation. Journal of Computational and Applied Mathematics, 2011, 236, 602-620.	2.0	26
46	A hybrid method for unsteady inviscid fluid flow. Computers and Fluids, 2009, 38, 875-882.	2.5	22
47	Conjugate heat transfer for the unsteady compressible Navierâ€“Stokes equations using a multi-block coupling. Computers and Fluids, 2013, 72, 20-29.	2.5	22
48	Uniformly best wavenumber approximations by spatial central difference operators. Journal of Computational Physics, 2015, 300, 695-709.	3.8	22
49	A hybrid framework for coupling arbitrary summation-by-parts schemes on general meshes. Journal of Computational Physics, 2018, 362, 49-68.	3.8	22
50	Energy stable boundary conditions for the nonlinear incompressible Navierâ€“Stokes equations. Mathematics of Computation, 2018, 88, 665-690.	2.1	22
51	On the impact of boundary conditions on dual consistent finite difference discretizations. Journal of Computational Physics, 2013, 236, 41-55.	3.8	21
52	A simple and efficient incompressible Navierâ€“Stokes solver for unsteady complex geometry flows on truncated domains. Computers and Fluids, 2017, 150, 84-94.	2.5	21
53	An accuracy evaluation of unstructured node-centred finite volume methods. Applied Numerical Mathematics, 2008, 58, 1142-1158.	2.1	20
54	A stable and conservative method for locally adapting the design order of finite difference schemes. Journal of Computational Physics, 2011, 230, 4216-4231.	3.8	20

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55	Error Boundedness of Discontinuous Galerkin Spectral Element Approximations of Hyperbolic Problems. Journal of Scientific Computing, 2017, 72, 314-330.	2.3	20
56	Stable artificial dissipation operators for finite volume schemes on unstructured grids. Applied Numerical Mathematics, 2006, 56, 1481-1490.	2.1	18
57	Fully discrete energy stable high order finite difference methods for hyperbolic problems in deforming domains. Journal of Computational Physics, 2015, 291, 82-98.	3.8	18
58	On the order of Accuracy of Finite Difference Operators on Diagonal Norm Based Summation-by-Parts Form. SIAM Journal on Numerical Analysis, 2018, 56, 1048-1063.	2.3	18
59	Encapsulated high order difference operators on curvilinear non-conforming grids. Journal of Computational Physics, 2019, 385, 209-224.	3.8	16
60	Simulation of Earthquake Rupture Dynamics in Complex Geometries Using Coupled Finite Difference and Finite Volume Methods. Communications in Computational Physics, 2015, 17, 337-370.	1.7	15
61	A stable and efficient hybrid scheme for viscous problems in complex geometries. Journal of Computational Physics, 2007, 226, 1291-1309.	3.8	14
62	Duality based boundary conditions and dual consistent finite difference discretizations of the Navierâ€“Stokes and Euler equations. Journal of Computational Physics, 2014, 259, 135-153.	3.8	14
63	Revisiting well-posed boundary conditions for the shallow water equations. Dynamics of Atmospheres and Oceans, 2014, 66, 1-9.	1.8	14
64	Variance reduction through robust design of boundary conditions for stochastic hyperbolic systems of equations. Journal of Computational Physics, 2015, 282, 1-22.	3.8	14
65	Elimination of First Order Errors in Shock Calculations. SIAM Journal on Numerical Analysis, 2001, 38, 1986-1998.	2.3	13
66	Investigation of acceleration effects on missile aerodynamics using computational fluid dynamics. Aerospace Science and Technology, 2009, 13, 197-203.	4.8	13
67	Weak Versus Strong No-Slip Boundary Conditions for the Navier-Stokes Equations. Engineering Applications of Computational Fluid Mechanics, 2010, 4, 29-38.	3.1	13
68	Summation-By-Parts in Time: The Second Derivative. SIAM Journal of Scientific Computing, 2016, 38, A1561-A1586.	2.8	13
69	Properties of Runge-Kutta-Summation-By-Parts methods. Journal of Computational Physics, 2020, 419, 109684.	3.8	13
70	A computational study of vortexâ€“airfoil interaction using high-order finite difference methods. Computers and Fluids, 2010, 39, 1267-1274.	2.5	12
71	Stable, high order accurate adaptive schemes for long time, highly intermittent geophysics problems. Journal of Computational and Applied Mathematics, 2014, 271, 328-338.	2.0	12
72	Theoretical treatment of fluid flow for accelerating bodies. Theoretical and Computational Fluid Dynamics, 2016, 30, 449-467.	2.2	12

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73	Energy Stable Model Reduction of Neurons by Nonnegative Discrete Empirical Interpolation. SIAM Journal of Scientific Computing, 2016, 38, B297-B326.	2.8	12
74	Exact Non-reflecting Boundary Conditions Revisited: Well-Posedness and Stability. Foundations of Computational Mathematics, 2017, 17, 957-986.	2.5	11
75	On conservation and stability properties for summation-by-parts schemes. Journal of Computational Physics, 2017, 344, 451-464.	3.8	11
76	Simulation of Wave Propagation Along Fluid-Filled Cracks Using High-Order Summation-by-Parts Operators and Implicit-Explicit Time Stepping. SIAM Journal of Scientific Computing, 2017, 39, B675-B702.	2.8	11
77	A new high order energy and enstrophy conserving Arakawa-like Jacobian differential operator. Journal of Computational Physics, 2015, 301, 167-177.	3.8	10
78	A well-posed and stable stochastic Galerkin formulation of the incompressible Navierâ€“Stokes equations with random data. Journal of Computational Physics, 2016, 306, 92-116.	3.8	10
79	On pseudo-spectral time discretizations in summation-by-parts form. Journal of Computational Physics, 2018, 360, 192-201.	3.8	10
80	The Number of Boundary Conditions for Initial Boundary Value Problems. SIAM Journal on Numerical Analysis, 2020, 58, 2818-2828.	2.3	10
81	Trace preserving quantum dynamics using a novel reparametrization-neutral summation-by-parts difference operator. Journal of Computational Physics, 2021, 425, 109917.	3.8	10
82	Fluid Structure Interaction Problems: the Necessity of a Well Posed, Stable and Accurate Formulation. Communications in Computational Physics, 2010, 8, 1111-1138.	1.7	10
83	Analysis of the order of accuracy for node-centered finite volume schemes. Applied Numerical Mathematics, 2009, 59, 2659-2676.	2.1	9
84	Boundary procedures for the time-dependent Burgers' equation under uncertainty. Acta Mathematica Scientia, 2010, 30, 539-550.	1.0	9
85	An intrusive hybrid method for discontinuous two-phase flow under uncertainty. Computers and Fluids, 2013, 86, 228-239.	2.5	9
86	A Flexible Boundary Procedure for Hyperbolic Problems: Multiple Penalty Terms Applied in a Domain. Communications in Computational Physics, 2014, 16, 345-358.	1.7	9
87	Summation-by-Parts operators with minimal dispersion error for coarse grid flow calculations. Journal of Computational Physics, 2017, 340, 160-176.	3.8	9
88	Well-posed and stable transmission problems. Journal of Computational Physics, 2018, 364, 95-110.	3.8	9
89	Stable and Accurate Filtering Procedures. Journal of Scientific Computing, 2020, 82, 1.	2.3	9
90	On extrapolation procedures at artificial outflow boundaries for the time-dependent Navier-Stokes equations. Applied Numerical Mathematics, 1997, 23, 457-468.	2.1	8

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91	A stable and efficient hybrid method for aeroacoustic sound generation and propagation. Comptes Rendus - Mecanique, 2005, 333, 713-718.	2.1	8
92	High-order accurate difference schemes for the Hodgkinâ€“Huxley equations. Journal of Computational Physics, 2013, 252, 573-590.	3.8	8
93	On stability and monotonicity requirements of finite difference approximations of stochastic conservation laws with random viscosity. Computer Methods in Applied Mechanics and Engineering, 2013, 258, 134-151.	6.6	8
94	On Long Time Error Bounds for the Wave Equation on Second Order Form. Journal of Scientific Computing, 2018, 76, 1327-1336.	2.3	8
95	The spatial operator in the incompressible Navierâ€“Stokes, Oseen and Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112857.	6.6	8
96	A New Class of A Stable Summation by Parts Time Integration Schemes with Strong Initial Conditions. Journal of Scientific Computing, 2021, 87, 1.	2.3	8
97	Global Artificial Boundary Conditions for Computation of External Flows with Jets. AIAA Journal, 2000, 38, 2014-2022.	2.6	7
98	Highâ€•order compact finite difference schemes for the vorticityâ€“divergence representation of the spherical shallow water equations. International Journal for Numerical Methods in Fluids, 2015, 78, 709-738.	1.6	7
99	Coupling Requirements for Multiphysics Problems Posed on Two Domains. SIAM Journal on Numerical Analysis, 2017, 55, 2885-2904.	2.3	7
100	Stability of Discontinuous Galerkin Spectral Element Schemes for Wave Propagation when the Coefficient Matrices have Jumps. Journal of Scientific Computing, 2021, 88, 3.	2.3	7
101	On flux-extrapolation at supersonic outflow boundaries. Applied Numerical Mathematics, 1999, 30, 447-457.	2.1	6
102	Investigations of Acceleration Effects on Misssile Aerodynamics Using CFD. , 2003, , .		6
103	A new multigrid formulation for high order finite difference methods on summation-by-parts form. Journal of Computational Physics, 2018, 359, 216-238.	3.8	6
104	Hybrid Computational-Fluid-Dynamics Platformto Investigate Aircraft Trailing Vortices. Journal of Aircraft, 2019, 56, 344-355.	2.4	6
105	Eigenvalue Analysis for Summation-by-Parts Finite Difference Time Discretizations. SIAM Journal on Numerical Analysis, 2020, 58, 907-928.	2.3	6
106	Neural network enhanced computations on coarse grids. Journal of Computational Physics, 2021, 425, 109821.	3.8	6
107	Nonlinear and linearised primal and dual initial boundary value problems: When are they bounded? How are they connected?. Journal of Computational Physics, 2022, 455, 111001.	3.8	6
108	A linear and nonlinear analysis of the shallow water equations and its impact on boundary conditions. Journal of Computational Physics, 2022, 463, 111254.	3.8	6

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109	A multi-domain summation-by-parts formulation for complex geometries. Journal of Computational Physics, 2022, 463, 111269.	3.8	6
110	Extrapolation procedures for the time-dependent Navier-Stokes equations. AIAA Journal, 1992, 30, 1654-1656.	2.6	5
111	Accuracy Requirements for Transient Aerodynamics. , 2003, , .		5
112	Energy decay of vortices in viscous fluids: an applied mathematics view. Journal of Fluid Mechanics, 2012, 709, 593-609.	3.4	5
113	Spectral analysis of the continuous and discretized heat and advection equation on single and multiple domains. Applied Numerical Mathematics, 2012, 62, 1620-1638.	2.1	5
114	On the relation between conservation and dual consistency for summation-by-parts schemes. Journal of Computational Physics, 2017, 344, 437-439.	3.8	5
115	Level set methods for stochastic discontinuity detection in nonlinear problems. Journal of Computational Physics, 2019, 392, 511-531.	3.8	5
116	Well-posedness, stability and conservation for a discontinuous interface problem. BIT Numerical Mathematics, 2016, 56, 681-704.	2.0	4
117	A stable and accurate Davies-like relaxation procedure using multiple penalty terms for lateral boundary conditions. Dynamics of Atmospheres and Oceans, 2016, 73, 34-46.	1.8	4
118	Summation-by-Parts Operators with Minimal Dispersion Error for Accurate and Efficient Flow Calculations. , 2016, , .		4
119	Efficient and error minimized coupling procedures for unstructured and moving meshes. Journal of Computational Physics, 2020, 406, 109158.	3.8	4
120	Convergence of energy stable finite-difference schemes with interfaces. Journal of Computational Physics, 2021, 429, 110020.	3.8	4
121	Effect of Edge-Based Discretization Schemes in Computations of the DLR F6 Wing-Body Configuration. , 2008, , .		3
122	Accurate and Stable Calculations Involving Shocks Using a New Hybrid Scheme. , 2009, , .		3
123	Constructing non-reflecting boundary conditions using summation-by-parts in time. Journal of Computational Physics, 2017, 331, 38-48.	3.8	3
124	Response to â€œConvergence of Summation-by-Parts Finite Difference Methods for the Wave Equationâ€• Journal of Scientific Computing, 2018, 74, 1188-1192.	2.3	3
125	Finite difference schemes with transferable interfaces for parabolic problems. Journal of Computational Physics, 2018, 375, 935-949.	3.8	3
126	Practical inlet boundary conditions for internal flow calculations. Computers and Fluids, 2018, 175, 159-166.	2.5	3

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127	The relation between primal and dual boundary conditions for hyperbolic systems of equations. Journal of Computational Physics, 2020, 401, 109032.	3.8	3
128	Multigrid Schemes for High Order Discretizations of Hyperbolic Problems. Journal of Scientific Computing, 2020, 82, 1.	2.3	3
129	Accurate solution-adaptive finite difference schemes for coarse and fine grids. Journal of Computational Physics, 2020, 410, 109393.	3.8	3
130	On the Theoretical Foundation of Overset Grid Methods for Hyperbolic Problems: Well-Posedness and Conservation. Journal of Computational Physics, 2021, , 110732.	3.8	3
131	Linear and Nonlinear Boundary Conditions for Wave Propagation Problems. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 283-299.	0.3	3
132	Global artificial boundary conditions for computation of external flow problems with propulsive jets. , 1999, , .		2
133	Artificial dissipation and accuracy downstream of slightly viscous shocks. , 2001, , .		2
134	Measurements and Numerical Modelling of Orifice Flow in Microchannels. , 2009, , .		2
135	A new well-posed vorticity divergence formulation of the shallow water equations. Ocean Modelling, 2015, 93, 1-6.	2.4	2
136	A stable and accurate relaxation technique using multiple penalty terms in space and time. Dynamics of Atmospheres and Oceans, 2017, 79, 56-65.	1.8	2
137	Spurious solutions for the advectionâ€diffusion equation using wide stencils for approximating the second derivative. Numerical Methods for Partial Differential Equations, 2018, 34, 501-517.	3.6	2
138	On Stochastic Investigation of Flow Problems Using the Viscous Burgersâ€™ Equation as an Example. Journal of Scientific Computing, 2019, 81, 1111-1117.	2.3	2
139	Dual Time-Stepping Using Second Derivatives. Journal of Scientific Computing, 2019, 81, 1050-1071.	2.3	2
140	Learning to differentiate. Journal of Computational Physics, 2021, 424, 109873.	3.8	2
141	Spectral properties of the incompressible Navier-Stokes equations. Journal of Computational Physics, 2021, 429, 110019.	3.8	2
142	Stable Filtering Procedures for Nodal Discontinuous Galerkin Methods. Journal of Scientific Computing, 2021, 87, 1.	2.3	2
143	Impact of wall modeling on kinetic energy stability for the compressible Navier-Stokes equations. Computers and Fluids, 2021, 220, 104870.	2.5	2
144	Energy stable wall modeling for the Navier-Stokes equations. Journal of Computational Physics, 2022, 457, 111046.	3.8	2

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145	Accuracy of the time-dependent Navier-Stokes equations using extrapolation procedures at outflow boundaries. , 1991, , .		1
146	Duality based boundary treatment for the Euler and Navier-Stokes equations. , 2013, , .		1
147	Polynomial Chaos Methods. Mathematical Engineering, 2015, , 23-29.	0.2	1
148	Well Posed Problems and Boundary Conditions in Computational Fluid Dynamics (Invited). , 2015, , .		1
149	Efficient fully discrete summation-by-parts schemes for unsteady flow problems. BIT Numerical Mathematics, 2016, 56, 951-966.	2.0	1
150	Hyperbolic systems of equations posed on erroneous curved domains. Journal of Computational Physics, 2016, 308, 438-442.	3.8	1
151	A fully discrete, stable and conservative summation-by-parts formulation for deforming interfaces. Journal of Computational Physics, 2017, 339, 500-524.	3.8	1
152	The effect of uncertain geometries on advectionâ€“diffusion of scalar quantities. BIT Numerical Mathematics, 2018, 58, 509-529.	2.0	1
153	A Stable Domain Decomposition Technique for Advectionâ€“Diffusion Problems. Journal of Scientific Computing, 2018, 77, 755-774.	2.3	1
154	Robust boundary conditions for stochastic incompletely parabolic systems of equations. Journal of Computational Physics, 2018, 371, 192-213.	3.8	1
155	Accuracy of Stable, High-order Finite Difference Methods for Hyperbolic Systems with Non-smooth Wave Speeds. Journal of Scientific Computing, 2019, 81, 2356-2387.	2.3	1
156	A dual consistent summation-by-parts formulation for the linearized incompressible Navierâ€“Stokes equations posed on deforming domains. Journal of Computational Physics, 2019, 376, 322-338.	3.8	1
157	On conservation and dual consistency for summation-by-parts based approximations of parabolic problems. Journal of Computational Physics, 2020, 410, 109282.	3.8	1
158	Stable Dynamical Adaptive Mesh Refinement. Journal of Scientific Computing, 2021, 86, 1.	2.3	1
159	Efficiency of Shock Capturing Schemes for Burgersâ€™ Equation with Boundary Uncertainty. , 2010, , 737-745.		1
160	GPU-acceleration of A High Order Finite Difference Code Using Curvilinear Coordinates. , 2020, , .		1
161	Provably non-stiff implementation of weak coupling conditions for hyperbolic problems. Numerische Mathematik, 2022, 150, 551-589.	1.9	1
162	A stable and conservative nonlinear interface coupling for the incompressible Euler equations. Applied Mathematics Letters, 2022, , 108171.	2.7	1

#	Article	IF	Citations
163	Energy absorbing boundary conditions for the Navier-Stokes equation. , 1986, , 505-510.		0
164	Boundary Procedures for the Time-Dependent Stochastic Burgers' Equation. , 2009, , .		0
165	Analysis of Mesh and Boundary Effects on the Accuracy of Node-Centered Finite Volume Schemes. , 2009, , .		0
166	Energy Stable High Order Finite Difference Methods for Hyperbolic Equations in Moving Coordinate Systems. , 2013, , .		0
167	The Influence of Viscous Operator and Wall Boundary Conditions on the Accuracy of the Navier-Stokes Equations. , 2013, , .		0
168	Increasing the convergence rate to steady-state by using multiple penalty terms applied in a domain. , 2013, , .		0
169	Well-posedness and Stability of Exact Non-reflecting Boundary Conditions. , 2013, , .		0
170	Random Field Representation. Mathematical Engineering, 2015, , 11-21.	0.2	0
171	Numerical Solution of Hyperbolic Problems. Mathematical Engineering, 2015, , 31-44.	0.2	0
172	Linear Transport Under Uncertainty. Mathematical Engineering, 2015, , 47-80.	0.2	0
173	Nonlinear Transport Under Uncertainty. Mathematical Engineering, 2015, , 81-109.	0.2	0
174	A global time integration approach for realistic unsteady flow computations. , 2016, , .		0
175	Correction: A Stable and Conservative Coupling of the Unsteady Compressible Navier-Stokes Equations at Interfaces Using Finite Difference and Finite Volume Methods. , 2018, , .		0
176	A Stable and Consevative Coupling of the Unsteady Compressible Navier-Stokes Equations at Interfaces Using Finite Difference and Finite Volume methods. , 2018, , .		0
177	A Stable, High Order Accurate and Efficient Hybrid Method for Flow Calculations in Complex Geometries. , 2018, , .		0
178	Summation-by-Parts Operators for Non-Simply Connected Domains. SIAM Journal of Scientific Computing, 2018, 40, A1250-A1273.	2.8	0
179	An energy stable coupling procedure for the compressible and incompressible Navier-Stokes equations. Journal of Computational Physics, 2019, 396, 280-302.	3.8	0
180	Multigrid schemes for high order discretizations of hyperbolic problems. , 2019, , .		0

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181	An efficient hybrid method for uncertainty quantification. BIT Numerical Mathematics, 0, , 1.	2.0	0
182	Global artificial boundary conditions for computation of external flows with jets. AIAA Journal, 2000, 38, 2014-2022.	2.6	0
183	Energy Stability of the MUSCL Scheme. , 2010, , 61-68.		0
184	A Stable and High Order Interface Procedure for Conjugate Heat Transfer Problems. , 2010, , 599-607.		0
185	The SBP-SAT Technique for Time-Discretization. , 2013, , .		0
186	A Hybrid Scheme for Two-Phase Flow. Mathematical Engineering, 2015, , 149-172.	0.2	0
187	AN INVESTIGATION OF UNCERTAINTY DUE TO STOCHASTICALLY VARYING GEOMETRY: AN INITIAL STUDY. , 2015, , .		0
188	Well-Posedness, Stability and Conservation for a Discontinuous Interface Problem: An Initial Investigation. Lecture Notes in Computational Science and Engineering, 2015, , 147-155.	0.3	0
189	Fully Discrete Energy Stable High Order Finite Difference Methods for Hyperbolic Problems in Deforming Domains. Lecture Notes in Computational Science and Engineering, 2015, , 385-395.	0.3	0
190	Efficient Fully Discrete Summation-by-Parts Schemes for Unsteady Flow Problems: An Initial Investigation. Lecture Notes in Computational Science and Engineering, 2015, , 345-353.	0.3	0
191	A STABLE AND CONSERVATIVE TIME-DEPENDENT INTERFACE FORMULATION ON SUMMATION-BY-PARTS FORM: AN INITIAL INVESTIGATION. , 2016, , .		0
192	ENERGY STABLE HIGH ORDER FINITE DIFFERENCE METHODS ON STAGGERED GRIDS: AN INITIAL INVESTIGATION. , 2016, , .		0
193	IMPROVED DUAL TIMEâ€“STEPPING USING SECOND DERIVATIVES. , 2016, , .		0
194	STOCHASTIC GALERKIN PROJECTION AND NUMERICAL INTEGRATION FOR STOCHASTIC SYSTEMS OF EQUATIONS. , 2017, , .		0
195	Robust Design of Initial Boundary Value Problems. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 463-478.	0.3	0