

# Feng Xiao

## List of Publications by Year in descending order

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156  
papers

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162  
docs citations

162  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Constrained Interpolation Profile Method for Multiphase Analysis. Journal of Computational Physics, 2001, 169, 556-593.	1.9	646
2	A simple algebraic interface capturing scheme using hyperbolic tangent function. International Journal for Numerical Methods in Fluids, 2005, 48, 1023-1040.	0.9	337
3	Revisit to the THINC scheme: A simple algebraic VOF algorithm. Journal of Computational Physics, 2011, 230, 7086-7092.	1.9	177
4	An Exactly Conservative Semi-Lagrangian Scheme (CIP&CSL) in One Dimension. Monthly Weather Review, 2001, 129, 332-344.	0.5	158
5	An interface capturing method with a continuous function: The THINC method with multi-dimensional reconstruction. Journal of Computational Physics, 2012, 231, 2328-2358.	1.9	124
6	Completely Conservative and Oscillationless Semi-Lagrangian Schemes for Advection Transportation. Journal of Computational Physics, 2001, 170, 498-522.	1.9	106
7	An Eulerian interface sharpening algorithm for compressible two-phase flow: The algebraic THINC approach. Journal of Computational Physics, 2014, 268, 326-354.	1.9	101
8	Constructing oscillation preventing scheme for advection equation by rational function. Computer Physics Communications, 1996, 93, 1-12.	3.0	100
9	Unified formulation for compressible and incompressible flows by using multi-integrated moments II: Multi-dimensional version for compressible and incompressible flows. Journal of Computational Physics, 2006, 213, 31-56.	1.9	94
10	Shallow water model on cubed-sphere by multi-moment finite volume method. Journal of Computational Physics, 2008, 227, 5019-5044.	1.9	94
11	Unified formulation for compressible and incompressible flows by using multi-integrated moments I: one-dimensional inviscid compressible flow. Journal of Computational Physics, 2004, 195, 629-654.	1.9	91
12	LES of turbulent liquid jet primary breakup in turbulent coaxial air flow. International Journal of Multiphase Flow, 2014, 60, 103-118.	1.6	87
13	Boundary Variation Diminishing (BVD) reconstruction: A new approach to improve Godunov schemes. Journal of Computational Physics, 2016, 322, 309-325.	1.9	87
14	Description of Complex and Sharp Interface during Shock Wave Interaction with Liquid Drop. Journal of the Physical Society of Japan, 1993, 62, 2537-2540.	0.7	80
15	Conservative and oscillation-less atmospheric transport schemes based on rational functions. Journal of Geophysical Research, 2002, 107, ACL 2-1.	3.3	80
16	High fidelity discontinuity-resolving reconstruction for compressible multiphase flows with moving interfaces. Journal of Computational Physics, 2018, 371, 945-966.	1.9	80
17	Toward efficient and accurate interface capturing on arbitrary hybrid unstructured grids: The THINC method with quadratic surface representation and Gaussian quadrature. Journal of Computational Physics, 2017, 349, 415-440.	1.9	64
18	Large eddy simulation of liquid jet primary breakup in supersonic air crossflow. International Journal of Multiphase Flow, 2016, 87, 229-240.	1.6	62

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19	High order multi-moment constrained finite volume method. Part I: Basic formulation. Journal of Computational Physics, 2009, 228, 3669-3707.	1.9	57
20	An algorithm for simulating solid objects suspended in stratified flow. Computer Physics Communications, 1997, 102, 147-160.	3.0	56
21	Numerical simulations of free-interface fluids by a multi-integrated moment method. Computers and Structures, 2005, 83, 409-423.	2.4	55
22	A multi-moment finite volume method for incompressible Navier–Stokes equations on unstructured grids: Volume-average/point-value formulation. Journal of Computational Physics, 2014, 277, 138-162.	1.9	53
23	A Computational Model for Suspended Large Rigid Bodies in 3D Unsteady Viscous Flows. Journal of Computational Physics, 1999, 155, 348-379.	1.9	52
24	CIP/multi-moment finite volume method for Euler equations: A semi-Lagrangian characteristic formulation. Journal of Computational Physics, 2007, 222, 849-871.	1.9	52
25	Limiter-free discontinuity-capturing scheme for compressible gas dynamics with reactive fronts. Computers and Fluids, 2018, 171, 1-14.	1.3	51
26	An efficient and accurate algebraic interface capturing method for unstructured grids in 2 and 3 dimensions: The THINC method with quadratic surface representation. International Journal for Numerical Methods in Fluids, 2014, 76, 1025-1042.	0.9	49
27	An efficient method for capturing free boundaries in multi-fluid simulations. International Journal for Numerical Methods in Fluids, 2003, 42, 187-210.	0.9	48
28	An interface capturing method with a continuous function: The THINC method on unstructured triangular and tetrahedral meshes. Journal of Computational Physics, 2014, 259, 260-269.	1.9	46
29	A fifth-order shock capturing scheme with two-stage boundary variation diminishing algorithm. Journal of Computational Physics, 2019, 386, 323-349.	1.9	45
30	A global shallow water model using high order multi-moment constrained finite volume method and icosahedral grid. Journal of Computational Physics, 2010, 229, 1774-1796.	1.9	44
31	Constructing a multi-dimensional oscillation preventing scheme for the advection equation by a rational function. Computer Physics Communications, 1996, 94, 103-118.	3.0	42
32	A Multimoment Finite-Volume Shallow-Water Model on the Yin–Yang Overset Spherical Grid. Monthly Weather Review, 2008, 136, 3066-3086.	0.5	42
33	Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. Journal of Computational Physics, 2005, 202, 1-19.	1.9	40
34	Conservative constraint for a quasi-uniform overset grid on the sphere. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 979-996.	1.0	38
35	Simulation technique for dynamic evaporation processes. Nuclear Engineering and Design, 1995, 155, 45-53.	0.8	37
36	An unstructured-grid numerical model for interfacial multiphase fluids based on multi-moment finite volume formulation and THINC method. International Journal of Multiphase Flow, 2017, 89, 375-398.	1.6	37

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37	Coupled THINC and level set method: A conservative interface capturing scheme with high-order surface representations. <i>Journal of Computational Physics</i> , 2018, 373, 284-303.	1.9	36
38	Mechanism of structure formation in circular hydraulic jumps: numerical studies of strongly deformed free-surface shallow flows. <i>Physica D: Nonlinear Phenomena</i> , 2002, 161, 202-219.	1.3	34
39	A multi-moment constrained finite volume method on arbitrary unstructured grids for incompressible flows. <i>Journal of Computational Physics</i> , 2016, 327, 747-778.	1.9	34
40	A new formulation for two-wave Riemann solver accurate at contact interfaces. <i>Physics of Fluids</i> , 2019, 31, .	1.6	30
41	A 4th-order and single-cell-based advection scheme on unstructured grids using multi-moments. <i>Computer Physics Communications</i> , 2005, 173, 17-33.	3.0	28
42	Global shallow water models based on multi-moment constrained finite volume method and three quasi-uniform spherical grids. <i>Journal of Computational Physics</i> , 2014, 271, 191-223.	1.9	27
43	Two and three dimensional multi-moment finite volume solver for incompressible Navier-Stokes equations on unstructured grids with arbitrary quadrilateral and hexahedral elements. <i>Computers and Fluids</i> , 2014, 104, 40-54.	1.3	27
44	A hybrid pressure-density-based Mach uniform algorithm for 2D Euler equations on unstructured grids by using multi-moment finite volume method. <i>Journal of Computational Physics</i> , 2017, 335, 637-663.	1.9	27
45	A CIP/multi-moment finite volume method for shallow water equations with source terms. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2245-2270.	0.9	23
46	A Multimoment Constrained Finite-Volume Model for Nonhydrostatic Atmospheric Dynamics. <i>Monthly Weather Review</i> , 2013, 141, 1216-1240.	0.5	23
47	A wind power forecasting system based on the weather research and forecasting model and Kalman filtering over a wind-farm in Japan. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	0.8	23
48	A robust interface method for drop formation and breakup simulation at high density ratio using an extrapolated liquid velocity. <i>Computers and Fluids</i> , 2016, 136, 402-420.	1.3	23
49	Simulation of drop deformation and breakup in supersonic flow. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2417-2424.	2.4	23
50	LES of primary breakup of pulsed liquid jet in supersonic crossflow. <i>Acta Astronautica</i> , 2019, 154, 119-132.	1.7	23
51	A convexity preserving scheme for conservative advection transport. <i>Journal of Computational Physics</i> , 2004, 198, 389-402.	1.9	22
52	A multi-moment finite volume formulation for shallow water equations on unstructured mesh. <i>Journal of Computational Physics</i> , 2010, 229, 4567-4590.	1.9	22
53	An Adaptive Multimoment Global Model on a Cubed Sphere. <i>Monthly Weather Review</i> , 2011, 139, 523-548.	0.5	22
54	Constructing higher order discontinuity-capturing schemes with upwind-biased interpolations and boundary variation diminishing algorithm. <i>Computers and Fluids</i> , 2020, 200, 104433.	1.3	22

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55	Description of complex and sharp interface with fixed grids in incompressible and compressible fluid. Computers and Mathematics With Applications, 1995, 29, 15-25.	1.4	21
56	A numerical study of the transition in the circular hydraulic jump. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 257, 153-157.	0.9	20
57	Simulation of all-scale atmospheric dynamics on unstructured meshes. Journal of Computational Physics, 2016, 322, 267-287.	1.9	19
58	A novel high-order low-dissipation TENO-THINC scheme for hyperbolic conservation laws. Journal of Computational Physics, 2022, 452, 110899.	1.9	19
59	A finite volume multi-moment method with boundary variation diminishing principle for Euler equation on three-dimensional hybrid unstructured grids. Computers and Fluids, 2017, 153, 85-101.	1.3	18
60	Implicit large eddy simulation of compressible turbulence flow with $\langle \mathbf{u} \cdot \mathbf{u} \rangle$ and $\langle \mathbf{u} \cdot \mathbf{u} \rangle$ terms. Journal of Computational Physics, 2021, 428, 110088.	1.9	18
61	A fifth-order low-dissipation discontinuity-resolving TENO scheme for compressible flow simulation. Journal of Computational Physics, 2022, 467, 111465.	1.9	18
62	A Global Multimoment Constrained Finite-Volume Scheme for Advection Transport on the Hexagonal Geodesic Grid. Monthly Weather Review, 2011, 140, 941-955.	0.5	17
63	Accurate and robust PISO algorithm on hybrid unstructured grids using the multimoment finite volume method. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 146-172.	0.6	17
64	Low-dissipation BVD schemes for single and multi-phase compressible flows on unstructured grids. Journal of Computational Physics, 2021, 428, 110088.	1.9	17
65	Relationships between a roller and a dynamic pressure distribution in circular hydraulic jumps. Physical Review E, 2000, 61, R1016-R1019.	0.8	16
66	Conservative Semi-Lagrangian Transport on a Sphere and the Impact on Vapor Advection in an Atmospheric General Circulation Model. Monthly Weather Review, 2005, 133, 504-520.	0.5	16
67	THINC scaling method that bridges VOF and level set schemes. Journal of Computational Physics, 2021, 436, 110323.	1.9	16
68	Implementation of the semi-Lagrangian advection scheme on a quasi-uniform overset grid on a sphere. Advances in Atmospheric Sciences, 2006, 23, 792-801.	1.9	15
69	Effect of EOS on Break-Up of Shoemaker-Levy 9 Entering Jovian Atmosphere.. Journal of Geomagnetism and Geoelectricity, 1994, 46, 657-662.	0.8	14
70	A Finite-Volume Grid Using Multimoments for Geostrophic Adjustment. Monthly Weather Review, 2006, 134, 2515-2526.	0.5	13
71	A note on the general multi-moment constrained flux reconstruction formulation for high order schemes. Applied Mathematical Modelling, 2013, 37, 5092-5108.	2.2	13
72	A Slope Constrained 4th Order Multi-Moment Finite Volume Method with WENO Limiter. Communications in Computational Physics, 2015, 18, 901-930.	0.7	13

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73	An LES Turbulent Inflow Generator using A Recycling and Rescaling Method. Flow, Turbulence and Combustion, 2017, 98, 663-695.	1.4	13
74	High resolution multi-moment finite volume method for supersonic combustion on unstructured grids. Applied Mathematical Modelling, 2019, 66, 404-423.	2.2	13
75	A Novel Hybrid Model of WRF and Clearness Index-Based Kalman Filter for Day-Ahead Solar Radiation Forecasting. Applied Sciences (Switzerland), 2019, 9, 3967.	1.3	13
76	Possible explanation of the secondary flash and strong flare on IR lightcurves upon impact of Shoemaker-Levy 9. Geophysical Research Letters, 1995, 22, 2429-2432.	1.5	12
77	A global shallow-water model on an icosahedral-hexagonal grid by a multi-moment constrained finite-volume scheme. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 639-650.	1.0	12
78	Multimoment Finite Volume Solver for Euler Equations on Unstructured Grids. AIAA Journal, 2017, 55, 2617-2629.	1.5	12
79	A method to trace sharp interface of two fluids in calculations involving shocks. Shock Waves, 1994, 4, 101-107.	1.0	11
80	A Class of Single-Cell High-Order Semi-Lagrangian Advection Schemes. Monthly Weather Review, 2000, 128, 1165-1176.	0.5	11
81	An accurate multimoment constrained finite volume transport model on Yin-Yang grids. Advances in Atmospheric Sciences, 2013, 30, 1320-1330.	1.9	10
82	Interpreting dynamics of snap-off in a constricted capillary from the energy dissipation principle. Physics of Fluids, 2021, 33, .	1.6	10
83	An Accurate Semi-Lagrangian Scheme for Raindrop Sedimentation. Monthly Weather Review, 2003, 131, 974-983.	0.5	9
84	A multi-moment transport model on cubed-sphere grid. International Journal for Numerical Methods in Fluids, 2011, 67, 1993-2014.	0.9	9
85	A high-order multi-moment constrained finite-volume global shallow-water model on the Yin-Yang grid. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2090-2102.	1.0	9
86	An integrated wind-forecast system based on the weather research and forecasting model, Kalman filter, and data assimilation with nacelle-wind observation. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	9
87	High-order multi-moment finite volume method with smoothness adaptive fitting reconstruction for compressible viscous flow. Journal of Computational Physics, 2019, 394, 559-593.	1.9	9
88	Conservative CIP Transport in Meteorological Models. JSME International Journal Series B, 2004, 47, 725-734.	0.3	8
89	A semi-Lagrangian multi-moment finite volume method with fourth-order WENO projection. International Journal for Numerical Methods in Fluids, 2017, 83, 351-375.	0.9	8
90	New Accurate and Efficient Method for Stiff Detonation Capturing. AIAA Journal, 2018, 56, 4024-4038.	1.5	8

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91	Multi-moment finite volume method for incompressible flows on unstructured moving grids and its application to fluid-rigid body interactions. <i>Computers and Structures</i> , 2019, 221, 91-110.	2.4	8
92	A conservative solver for surface-tension-driven multiphase flows on collocated unstructured grids. <i>Journal of Computational Physics</i> , 2020, 401, 109025.	1.9	8
93	Solution property preserving reconstruction for finite volume scheme: a boundary variation diminishing+multidimensional optimal order detection framework. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 603-634.	0.9	8
94	Symmetry-preserving enforcement of low-dissipation method based on boundary variation diminishing principle. <i>Computers and Fluids</i> , 2022, 233, 105227.	1.3	8
95	Self-adjusting steepness-based schemes that preserve discontinuous structures in compressible flows. <i>Journal of Computational Physics</i> , 2022, 463, 111268.	1.9	8
96	A new paradigm of dissipation-adjustable, multi-scale resolving schemes for compressible flows. <i>Journal of Computational Physics</i> , 2022, 466, 111287.	1.9	8
97	Simulation and mitigation of the magneto-Rayleigh-Taylor instabilities in Z-pinch gas discharge extreme ultraviolet plasma radiation sources. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	7
98	Fifth Order Multi-moment WENO Schemes for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2015, 64, 477-507.	1.1	7
99	Multivariable neural network to postprocess short-term, high-altitude wind forecasts. <i>Energy Science and Engineering</i> , 2022, 10, 2561-2575.	1.9	7
100	A numerical procedure "CIP" to solve all phases of matter together. , 1998, , 439-457.		6
101	Implementations of multi-fluid hydrodynamic simulations on distributed memory computer with a fully parallelizable preconditioned Bi-CGSTAB method. <i>Computer Physics Communications</i> , 2001, 137, 274-285.	3.0	6
102	Large scale numerical simulations for multi-phase fluid dynamics with moving interfaces. <i>International Journal of Computational Fluid Dynamics</i> , 2008, 22, 405-410.	0.5	6
103	Fourth order transport model on Yin-Yang grid by multi-moment constrained finite volume scheme. <i>Procedia Computer Science</i> , 2012, 9, 1004-1013.	1.2	6
104	A non-oscillatory multimoment finite-volume global transport model on a cubed-sphere grid using the WENO slope limiter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1611-1627.	1.0	6
105	Development of a less-dissipative hybrid AUSMD scheme for multi-component flow simulations. <i>Shock Waves</i> , 2019, 29, 691-704.	1.0	6
106	Implementation of the CIP as the Advection Solver in the MM5. <i>Monthly Weather Review</i> , 2003, 131, 1256-1271.	0.5	5
107	A high-order conservative collocation scheme and its application to global shallow-water equations. <i>Geoscientific Model Development</i> , 2015, 8, 221-233.	1.3	5
108	Development of a hybrid parallel MCV-based high-order global shallow-water model. <i>Journal of Supercomputing</i> , 2017, 73, 2823-2842.	2.4	5

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109	Uncertainty Quantification of a Coupled Model for Wind Prediction at a Wind Farm in Japan. <i>Energies</i> , 2019, 12, 1505.	1.6	5
110	Solution property preserving reconstruction BVD+MOOD scheme for compressible euler equations with source terms and detonations. <i>Computers and Fluids</i> , 2020, 206, 104594.	1.3	5
111	Profile-modifiable Conservative Transport Schemes and a Simple Multi-integrated Moment Formulation for Hydrodynamics. , 2003, , 106-111.		5
112	Development of Conservative Front-Capturing Scheme and Applications to Multi-fluid Simulations. <i>The Proceedings of the JSME Annual Meeting</i> , 2002, 2002.3, 301-302.	0.0	5
113	A Direct ALE Multi-Moment Finite Volume Scheme for the Compressible Euler Equations. <i>Communications in Computational Physics</i> , 2018, 24, .	0.7	5
114	Deep generative model for probabilistic wind speed and wind power estimation at a wind farm. <i>Energy Science and Engineering</i> , 2022, 10, 1855-1873.	1.9	5
115	An oscillation suppressing semi-Lagrangian solver for advection equation. <i>Computer Physics Communications</i> , 1999, 116, 121-135.	3.0	4
116	A Simple CIP Finite Volume Method for Incompressible Flows. <i>JSME International Journal Series B</i> , 2004, 47, 664-671.	0.3	4
117	A Non-oscillatory Multi-Moment Finite Volume Scheme with Boundary Gradient Switching. <i>Journal of Scientific Computing</i> , 2017, 72, 1146-1168.	1.1	4
118	A note on non-negativity correction for a multimoment finite-volume transport model with WENO limiter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 546-556.	1.0	4
119	A Positivity-preserving Conservative Semi-Lagrangian Multi-moment Global Transport Model on the Cubed Sphere. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1460-1473.	1.9	4
120	Revisit to the THINC/QQ scheme: Recent progress to improve accuracy and robustness. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 719-755.	0.9	4
121	A 3D Nonhydrostatic Compressible Atmospheric Dynamic Core by Multi-moment Constrained Finite Volume Method. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1129-1142.	1.9	3
122	Multiphase Fluid Simulations on a Multiple GPGPU PC Using Unsplit Time Integration VSIAM3. <i>Progress in Nuclear Science and Technology</i> , 2011, 2, 491-497.	0.3	3
123	A hybrid volume of fluid and level set interface capturing scheme with quartic surface representation for unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 0, , .	0.9	3
124	An efficient numerical model for multi-phase fluid dynamics. <i>Advances in Engineering Software</i> , 1998, 29, 345-352.	1.8	2
125	Frontiers in Computational Physics: Modeling the Earth System. <i>Journal of Computational Physics</i> , 2014, 271, 1.	1.9	2
126	GPU-accelerated large-scale simulations of interfacial multiphase fluids for real-case applications. <i>Computers and Fluids</i> , 2016, 141, 235-249.	1.3	2



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127	An ALE formulation for compressible flows based on multi-moment finite volume method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 791-809.	1.5	2
128	Uncertainty quantification of shockâ€“bubble interaction simulations. <i>Shock Waves</i> , 2019, 29, 1191-1204.	1.0	2
129	Boundary variation diminishing algorithm for highâ€“order local polynomialâ€“based schemes. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 892-907.	0.9	2
130	Arbitrary high-order non-oscillatory scheme on hybrid unstructured grids based on multi-moment finite volume method. <i>Journal of Computational Physics</i> , 2021, 424, 109841.	1.9	2
131	Hybrid Discontinuous Galerkin/Finite Volume Method with Subcell Resolution for Shocked Flows. <i>AIAA Journal</i> , 2021, 59, 2027-2044.	1.5	2
132	A computational model for incompressible flow including surface tension. <i>Communications in Numerical Methods in Engineering</i> , 1999, 15, 887-894.	1.3	1
133	Strategy for unified solution of solid, liquid, gas and plasmas. , 1999, , .		1
134	A New Paradigm of Computer Graphics by Universal Solver for Solid, Liquid and Gas. <i>JSME International Journal Series B</i> , 2004, 47, 656-663.	0.3	1
135	Application of the characteristic CIP method to a shallow water model on the sphere. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 728-740.	1.9	1
136	Global advection transport model on hexagonal-pentagonal geodesic grid by multi-moment scheme. <i>Procedia Computer Science</i> , 2011, 4, 2327-2336.	1.2	1
137	An MCV Nonhydrostatic Atmospheric Model with Height-Based Terrain following Coordinate: Tests of Waves over Steep Mountains. <i>Advances in Meteorology</i> , 2016, 2016, 1-12.	0.6	1
138	Design of Hybrid Reconstruction Scheme for Compressible Flow Using Data-Driven Methods. <i>Journal of Mechanics</i> , 2020, 36, 675-689.	0.7	1
139	A Two-Stage Fourth-Order Multimoment Global Shallow-Water Model on the Cubed Sphere. <i>Monthly Weather Review</i> , 2020, 148, 4267-4279.	0.5	1
140	An Adaptive Nonhydrostatic Atmospheric Dynamical Core Using a Multi-Moment Constrained Finite Volume Method. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 487-501.	1.9	1
141	A new 3D OpenFoam solver with improved resolution for hyperbolic systems on hybrid unstructured grids. <i>Applied Mathematical Modelling</i> , 2022, 108, 142-166.	2.2	1
142	Multi-phase hydrodynamic simulations on parallel computer. <i>Lecture Notes in Computer Science</i> , 1999, , 157-168.	1.0	0
143	A 3D Numerical Model for Free Interfacial Flows and Applications to Offshore Waves with Submerged Obstacles. <i>Applied Mechanics and Materials</i> , 2013, 444-445, 544-548.	0.2	0
144	A Robust and Practical Multi-Moment Finite Volume Model for Computational Fluid Dynamics. <i>Applied Mechanics and Materials</i> , 0, 444-445, 534-538.	0.2	0

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145	A WENO-type Limiter for 4th Order Constrained Derivative Flux Reconstruction Method. , 2015, , .		0
146	The Multi-Moment Finite Volume Solver for Incompressible Navier-Stokes Equations on Unstructured Grids. Modeling and Simulation in Science, Engineering and Technology, 2016, , 97-109.	0.4	0
147	Effects of Mach number on primary breakup of liquid jets in gas crossflow. , 2017, , .		0
148	Shock Capturing Scheme Using $\hat{\nu}^2$ -Variable THINC Scheme Based on BVD Principle. Journal of the Japan Society for Aeronautical and Space Sciences, 2021, 69, 113-121.	0.0	0
149	A nonnegative and shapeâ€preserving global transport model on cubed sphere using highâ€order conservative collocation scheme. International Journal for Numerical Methods in Fluids, 2021, 93, 1969-1992.	0.9	0
150	Pore-scale Simulations of Haines Jump and Capillary Filling in Randomly Distributed Pore Structures with Implications for CO <sub>2</sub> Geological Storage. Journal of MMIJ, 2021, 137, 56-62.	0.4	0
151	F02-4 Direct Computation of Moving Interface with Anti-diffusion scheme. The Proceedings of the Computational Mechanics Conference, 2001, 2001.14, 689-690.	0.0	0
152	454 Simple Multi-integrated Moment Formulation for Hydrodynamics based on CIP-CSL Type Schemes. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 447-448.	0.0	0
153	118 Multi-phase fluid simulations by multi integrated moment formulation based on CIP-CSL Type Schemes. The Proceedings of the JSME Annual Meeting, 2003, 2003.1, 1-2.	0.0	0
154	A Global Shallow Water Model on the Spherical-Cubic Grid by using CIP/Multi-Moment FVM. , 2007, , 252-252.		0
155	Compact multi-stage reconstruction method on polyhedral unstructured grids: Extension to higher-order finite volume scheme. Computers and Fluids, 2022, 240, 105436.	1.3	0
156	A high-fidelity solver based on hybrid numerical methods on unstructured grids for incompressible multiphase flows. Journal of Computational Physics, 2022, , 111299.	1.9	0