

High resolution schemes for hyperbolic conservation la

Journal of Computational Physics

49, 357-393

DOI: [10.1016/0021-9991\(83\)90136-5](https://doi.org/10.1016/0021-9991(83)90136-5)

Citation Report

#	ARTICLE	IF	CITATIONS
1	A hybrid upwind scheme for the computation of shock-on-shock interaction around blunt bodies. , 1986, , 666-671.		1
2	A Posteriori Error Estimation and Mesh Adaptivity for Finite Volume and Finite Element Methods. , 2005, , 183-202.		4
4	An adaptive grid finite difference method for conservation laws. Journal of Computational Physics, 1983, 52, 569-591.	1.9	28
5	Progress in computational physics. Computers and Fluids, 1983, 11, 121-144.	1.3	26
6	The large-time behavior of the scalar, genuinely nonlinear Lax-Friedrichs scheme. Mathematics of Computation, 1984, 43, 353-353.	1.1	42
7	Finite element methods for first-order hyperbolic systems with particular emphasis on the compressible euler equations. Computer Methods in Applied Mechanics and Engineering, 1984, 45, 217-284.	3.4	348
8	A second-order Godunov-type scheme for compressible fluid dynamics. Journal of Computational Physics, 1984, 55, 1-32.	1.9	273
9	A rotationally biased upwind difference scheme for the euler equations. Journal of Computational Physics, 1984, 56, 65-92.	1.9	109
10	High-order upwind flux correction methods for hyperbolic conservation laws. Journal of Computational Physics, 1984, 56, 448-460.	1.9	46
11	On a Class of High Resolution Total-Variation-Stable Finite-Difference Schemes. SIAM Journal on Numerical Analysis, 1984, 21, 1-23.	1.1	606
12	Riemann Solvers, the Entropy Condition, and Difference. SIAM Journal on Numerical Analysis, 1984, 21, 217-235.	1.1	434
13	High Resolution Schemes and the Entropy Condition. SIAM Journal on Numerical Analysis, 1984, 21, 955-984.	1.1	290
14	Numerical viscosity and the entropy condition for conservative difference schemes. Mathematics of Computation, 1984, 43, 369-381.	1.1	180
15	Numerical solution of the two-dimensional Euler equations by second-order upwind difference schemes. , 1985, , .		4
16	Particle methods for hydrodynamics. Computer Physics Reports, 1985, 3, 71-124.	2.3	350
17	A critical study of numerical methods for the solution of nonlinear hyperbolic equations for resonance systems. Journal of Computational Physics, 1985, 58, 1-28.	1.9	16
18	Implicit total variation diminishing (TVD) schemes for steady-state calculations. Journal of Computational Physics, 1985, 57, 327-360.	1.9	332
19	On a penalty finite element CFD algorithm for high speed flow. Computer Methods in Applied Mechanics and Engineering, 1985, 51, 395-420.	3.4	3

#	ARTICLE	IF	CITATIONS
20	A scheme of the singularity-separating method for the nonconvex problem. Computers and Fluids, 1985, 13, 473-484.	1.3	3
21	On operator splitting of the Euler equations consistent with Harten's second-order accurate TVD scheme. Numerical Methods for Partial Differential Equations, 1985, 1, 315-327.	2.0	4
22	A simple extension to multidimensional problems of the artificial viscosity due to Lapidus. Communications in Applied Numerical Methods, 1985, 1, 141-147.	0.5	31
23	Entropy condition satisfying approximations for the full potential equation of transonic flow. Mathematics of Computation, 1985, 44, 1-1.	1.1	45
24	Recent developments in FEM-CFD. , 1985, , 236-254.		1
25	Artificial dissipation models for the Euler equations. , 1985, , .		36
26	Recent improvements in efficiency, accuracy, and convergence for implicit approximate factorization algorithms. , 1985, , .		159
27	Comparison of several finite-difference schemes for solving transient inviscid flows with shock waves. , 1985, , .		0
28	Application of a new class of high accuracy TVD schemes to the Navier-Stokes equations. , 1985, , .		65
29	High accuracy TVD schemes for the k-epsilon equations of turbulence. , 1985, , .		9
30	Numerical simulation of transient inviscid gas flows in a shock tube. , 1985, , .		0
31	A large Time Step Generalization of Godunov's Method for Systems of Conservation Laws. SIAM Journal on Numerical Analysis, 1985, 22, 1051-1073.	1.1	93
32	Multidimensional Flux-Corrected Transport for Reservoir Simulation. , 1985, , .		15
33	Convergence of Generalized MUSCL Schemes. SIAM Journal on Numerical Analysis, 1985, 22, 947-961.	1.1	156
34	On the accuracy of stable schemes for 2D scalar conservation laws. Mathematics of Computation, 1985, 45, 15-21.	1.1	136
35	Characteristic-Based Schemes for the Euler Equations. Annual Review of Fluid Mechanics, 1986, 18, 337-365.	10.8	1,477
36	An Upwind Second-Order Scheme for Compressible Duct Flows. SIAM Journal on Scientific and Statistical Computing, 1986, 7, 744-768.	1.5	67
37	Improvements in efficiency and reliability for Navier-Stokes computations using the LU-ADI factorization algorithm. , 1986, , .		61

#	ARTICLE	IF	CITATIONS
38	A new near-wall formulation for the kappa-epsilon equations of turbulence. , 1986, , .		12
39	Artificial dissipation models for the Euler equations. AIAA Journal, 1986, 24, 1931-1940.	1.5	343
40	Shock waves and phase changes in a large-heat-capacity fluid emerging from a tube. Journal of Fluid Mechanics, 1986, 166, 57.	1.4	115
41	A moving mesh numerical method for hyperbolic conservation laws. Mathematics of Computation, 1986, 46, 59-69.	1.1	77
42	A numerical study of shock wave diffraction by a circular cylinder. , 1986, , .		0
43	On a large time-step high resolution scheme. Mathematics of Computation, 1986, 46, 379-399.	1.1	35
44	A Method for Controlling Numerical Dispersion in Carbon Dioxide Flooding Simulation. , 1986, , .		0
45	A comparison of high resolution schemes for the two-dimensional linear advection equation. Computers and Fluids, 1986, 14, 411-422.	1.3	5
46	Linearized form of implicit TVD schemes for the multidimensional Euler and Navier-Stokes equations. Computers and Mathematics With Applications, 1986, 12, 413-432.	1.4	63
47	Implicit solution methods in computational fluid dynamics. Applied Numerical Mathematics, 1986, 2, 441-474.	1.2	35
48	Conditions for the construction of multi-point total variation diminishing difference schemes. Applied Numerical Mathematics, 1986, 2, 335-345.	1.2	23
49	Some results on uniformly high-order accurate essentially nonoscillatory schemes. Applied Numerical Mathematics, 1986, 2, 347-377.	1.2	238
50	Multigrid algorithms for compressible flow calculations. Lecture Notes in Mathematics, 1986, , 166-201.	0.1	114
51	On operator splitting for unsteady boundary value problems. Journal of Computational Physics, 1986, 67, 472-478.	1.9	11
52	Calculation of Inviscid Transonic Flow over a Complete Aircraft. , 1986, , .		255
53	Computation of unsteady shock wave motion by the modified flux TVD scheme. , 1986, , 86-90.		2
54	Numerical experiments with a symmetric high-resolution shock-capturing scheme. , 1986, , 677-683.		15
55	Uniformly High Order Accurate Essentially Non-oscillatory Schemes, III. , 1987, , 218-290.		31

#	ARTICLE	IF	CITATIONS
56	The numerical viscosity of entropy stable schemes for systems of conservation laws. I. Mathematics of Computation, 1987, 49, 91-103.	1.1	306
57	Shock-capturing technique for hypersonic, chemically relaxing flows. Journal of Spacecraft and Rockets, 1987, 24, 481-488.	1.3	6
58	Several numerical schemes for the computation of unsteady flow in pulsed lasers. AIAA Journal, 1987, 25, 845-854.	1.5	2
59	Numerical simulation of transient inviscid shock tube flows. AIAA Journal, 1987, 25, 245-251.	1.5	10
60	Computation of shock wave reflection by circular cylinders. AIAA Journal, 1987, 25, 683-689.	1.5	66
61	Theory and Simulation of the Rayleigh-Taylor Instability in the Limit of Large Larmor Radius. Physical Review Letters, 1987, 59, 2971-2974.	2.9	83
62	TVB boundary treatment for numerical solutions of conservation laws. Mathematics of Computation, 1987, 49, 123-134.	1.1	22
63	Computation of Flows with Shocks. Annual Review of Fluid Mechanics, 1987, 19, 313-337.	10.8	74
64	A new multigrid Euler method for fighter-type configurations. , 1987, , .		6
65	Uniformly second order accurate ENO schemes for the Euler equations of gas dynamics. , 1987, , .		4
66	Successes and challenges in computational aerodynamics. , 1987, , .		50
67	Numerical simulation of blast flowfields using a high resolution TVDfinite volume scheme. , 1987, , .		0
68	Incompressible Navier-Stokes computations of vortical flows over double-delta wings. , 1987, , .		3
69	On the accuracy of turbulent base flow predictions. , 1987, , .		14
70	Incompressible Navier-Stokes solutions for a sharp-edged double-delta wing. , 1987, , .		3
71	Computation of aircraft flow fields by a multigrid Euler method. , 1987, , .		2
72	Three-dimensional incompressible Navier-Stokes simulations of slender-wing vortices. , 1987, , .		3
73	Numerical simulation by TVD schemes of complex shock reflections from airfoils at high angle of attack. , 1987, , .		17

#	ARTICLE	IF	CITATIONS
74	A high-resolution TVD finite volume scheme for the Euler equations in conservation form. , 1987, , .		8
75	High resolution upwind schemes for the three-dimensional incompressible Navier-Stokes equations. , 1987, , .		10
76	TVB uniformly high-order schemes for conservation laws. Mathematics of Computation, 1987, 49, 105-121.	1.1	302
77	Upwind differencing schemes for hyperbolic conservation laws with source terms. Lecture Notes in Mathematics, 1987, , 41-51.	0.1	76
78	A Simplified TVD Finite Difference Scheme via Artificial Viscosity. SIAM Journal on Scientific and Statistical Computing, 1987, 8, 1-18.	1.5	76
79	Uniformly High-Order Accurate Nonoscillatory Schemes. I. SIAM Journal on Numerical Analysis, 1987, 24, 279-309.	1.1	757
80	A Parallel Adaptive Numerical Scheme for Hyperbolic Systems of Conservation Laws. SIAM Journal on Scientific and Statistical Computing, 1987, 8, s203-s219.	1.5	5
82	Multigrid solution of monotone second-order discretizations of hyperbolic conservation laws. Mathematics of Computation, 1987, 49, 135-155.	1.1	146
83	Global relaxation procedure for compressible solutions of the steady-state euler equations. Computers and Fluids, 1987, 15, 215-228.	1.3	8
84	Finite elements in CFD: What lies ahead. International Journal for Numerical Methods in Engineering, 1987, 24, 1741-1756.	1.5	35
85	Application of an explicit TVD scheme for unsteady, axisymmetric, muzzle brake flow. International Journal for Numerical Methods in Fluids, 1987, 7, 621-633.	0.9	5
86	Finite element flux-corrected transport (FEM-FCT) for the euler and Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 1987, 7, 1093-1109.	0.9	379
87	Smoothing and the second law. Computer Methods in Applied Mechanics and Engineering, 1987, 64, 177-193.	3.4	22
88	An unfactored implicit scheme with multigrid acceleration for the solution of the Navier-Stokes equations. Computers and Fluids, 1987, 15, 313-336.	1.3	27
89	Grid adaptive algorithms for the solution of the Euler equations on irregular grids. Journal of Computational Physics, 1987, 71, 194-223.	1.9	22
90	Uniformly high order accurate essentially non-oscillatory schemes, III. Journal of Computational Physics, 1987, 71, 231-303.	1.9	2,676
91	Construction of explicit and implicit symmetric TVD schemes and their applications. Journal of Computational Physics, 1987, 68, 151-179.	1.9	440
92	A comparison of flux limited difference methods and characteristic galerkin methods for shock modelling. Journal of Computational Physics, 1987, 73, 203-230.	1.9	30

#	ARTICLE	IF	CITATIONS
93	Solution of the euler equations for transonic flow over a lifting aerofoil—the bernoulli formulation (Roe/Lytton Method). Journal of Computational Physics, 1987, 73, 395-431.	1.9	13
94	A “box-scheme” for the euler equations. Lecture Notes in Mathematics, 1987, , 82-102.	0.1	7
95	On a moving boundary problem of transitional ballistics. Numerical Methods for Partial Differential Equations, 1988, 4, 69-90.	2.0	5
96	Flux difference splitting for the Euler equations in one spatial co-ordinate with area variation. International Journal for Numerical Methods in Fluids, 1988, 8, 97-119.	0.9	16
97	FEM-FCT: Combining unstructured grids with high resolution. Communications in Applied Numerical Methods, 1988, 4, 717-729.	0.5	96
98	Computational transonics. Communications on Pure and Applied Mathematics, 1988, 41, 507-549.	1.2	52
99	On the numerical approximation of finite speed diffusion problems. Numerische Mathematik, 1988, 53, 97-105.	0.9	4
100	An analysis of viscous splitting and adaptivity for steady-state convection-diffusion problems. Computer Methods in Applied Mechanics and Engineering, 1988, 67, 311-354.	3.4	5
101	Computational modelling of severe gradients with mass operator constructions. Computers and Mathematics With Applications, 1988, 16, 31-39.	1.4	5
102	Nonoscillatory solution of the steady-state inviscid burgers' equation by mathematical programming. Journal of Computational Physics, 1988, 79, 436-448.	1.9	21
103	On the numerical dissipation of high resolution schemes for hyperbolic conservation laws. Journal of Computational Physics, 1988, 77, 18-39.	1.9	39
104	New directions in computing reacting flows. Computers and Structures, 1988, 30, 69-77.	2.4	2
105	High resolution finite volume methods on arbitrary grids via wave propagation. Journal of Computational Physics, 1988, 78, 36-63.	1.9	83
106	Numerical simulation of cylindrically converging shock waves. Journal of Computational Physics, 1988, 75, 384-399.	1.9	7
107	An upwind differencing scheme for the equations of ideal magnetohydrodynamics. Journal of Computational Physics, 1988, 75, 400-422.	1.9	682
108	Efficient implementation of essentially non-oscillatory shock-capturing schemes. Journal of Computational Physics, 1988, 77, 439-471.	1.9	3,905
109	On Godunov-Type Methods for Gas Dynamics. SIAM Journal on Numerical Analysis, 1988, 25, 294-318.	1.1	831
110	Numerical Analysis of Reservoir Fluid Flow. Lecture Notes in Engineering, 1988, , 87-246.	0.1	7

#	ARTICLE	IF	CITATIONS
111	Computational Techniques for Fluid Dynamics. , 1988, , .		340
112	A diagonalized TVD scheme for turbulent transonic projectile aerodynamics computation. , 1988, , .		0
113	A three-dimensional, finite volume TVD scheme for geometrically complex steady and transient flows. , 1988, , .		4
114	A TVD finite-volume technique for nonequilibrium chemically reacting flows. , 1988, , .		3
115	A diagonalizing formulation of general real gas-dynamic matrices with a new class of TVD schemes. , 1988, , .		4
116	A class of model problems for testing compressible Navier-Stokes solvers. , 1988, , .		1
117	A comparison of ENO and TVD schemes. , 1988, , .		4
118	Numerical study of the vortex burst phenomenon for delta wings. , 1988, , .		9
119	Explicit upwind algorithm for the parabolized Navier-Stokes equations. , 1988, , .		18
120	A Geometric Approach to High Resolution TVD Schemes. SIAM Journal on Numerical Analysis, 1988, 25, 268-284.	1.1	72
121	Total-Variation-Diminishing Time Discretizations. SIAM Journal on Scientific and Statistical Computing, 1988, 9, 1073-1084.	1.5	837
122	Convenient Total Variation Diminishing Conditions for Nonlinear Difference Schemes. SIAM Journal on Numerical Analysis, 1988, 25, 1002-1014.	1.1	40
123	Simplified Second-Order Godunov-Type Methods. SIAM Journal on Scientific and Statistical Computing, 1988, 9, 445-473.	1.5	332
124	A third-order accurate variation nonexpansive difference scheme for single nonlinear conservation laws. Mathematics of Computation, 1988, 51, 535-558.	1.1	52
125	Computation of vortical interaction for a sharp-edged double-delta wing. Journal of Aircraft, 1988, 25, 442-447.	1.7	15
126	High-resolution upwind schemes for the three-dimensional incompressible Navier-Stokes equations. AIAA Journal, 1988, 26, 1321-1328.	1.5	37
127	High-order schemes and entropy condition for nonlinear hyperbolic systems of conservation laws. Mathematics of Computation, 1988, 50, 53-73.	1.1	14
128	On the convergence of difference approximations to scalar conservation laws. Mathematics of Computation, 1988, 50, 19-51.	1.1	116

#	ARTICLE	IF	CITATIONS
129	Numerical simulations of an oblique detonation wave engine. , 1988, , .		11
130	Computational Aerodynamics for Aircraft Design. Science, 1989, 245, 361-371.	6.0	106
131	â€œTVDâ€•Schemes for Inhomogeneous Conservation Laws. , 1989, , 599-607.		5
132	Numerical simulations of oblique detonations in supersonic combustion chambers. Journal of Propulsion and Power, 1989, 5, 482-491.	1.3	36
133	MmB-A new class of accurate high resolution schemes for conservation laws in two dimensions. IMPACT of Computing in Science and Engineering, 1989, 1, 217-259.	0.8	10
134	ENO schemes with subcell resolution. Journal of Computational Physics, 1989, 83, 148-184.	1.9	362
135	An improved upwind scheme for the euler equations. Journal of Computational Physics, 1989, 84, 461-473.	1.9	6
136	Comparison with experiment for TVD calculations of blast waves from a shock tube. International Journal for Numerical Methods in Fluids, 1989, 9, 9-22.	0.9	11
137	Numerical simulation of silencers. International Journal for Numerical Methods in Fluids, 1989, 9, 363-368.	0.9	2
138	On TVD difference schemes for the three-dimensional Euler equations in general co-ordinates. International Journal for Numerical Methods in Fluids, 1989, 9, 1011-1024.	0.9	7
139	Super-computer simulation of a multichambered muffler. Numerical Methods for Partial Differential Equations, 1989, 5, 97-106.	2.0	0
140	A high-accuracy version of Godunov's implicit scheme for integrating the Navier-Stokes equations. USSR Computational Mathematics and Mathematical Physics, 1989, 29, 170-179.	0.0	6
141	Advances in the computation of transonic separated flows over finite wings. Computers and Fluids, 1989, 17, 313-332.	1.3	8
142	An analysis of finite-difference and finite-volume formulations of conservation laws. Journal of Computational Physics, 1989, 81, 1-52.	1.9	235
143	A high-resolution TVD finite volume scheme for the Euler equations in conservation form. Journal of Computational Physics, 1989, 84, 145-173.	1.9	38
144	Flux difference splitting for the Euler equations in generalised coordinates using a local parameterisation of the equation of state. Journal of Engineering Mathematics, 1989, 23, 17-28.	0.6	0
145	New Directions in Computational Fluid Dynamics. Annual Review of Fluid Mechanics, 1989, 21, 345-385.	10.8	31
146	Three-dimensional numerical simulation of flows past scoops in a gas centrifuge. Journal of Fluid Mechanics, 1989, 201, 203.	1.4	9

#	ARTICLE	IF	CITATIONS
147	Assessment of TVD schemes for inviscid and turbulent flow computation. , 1989, , .		1
148	An Analysis of a Class of Second-Order Accurate Godunov-Type Schemes. SIAM Journal on Numerical Analysis, 1989, 26, 830-853.	1.1	12
149	Solution of Steady-State One-Dimensional Conservation Laws by Mathematical Programming. SIAM Journal on Numerical Analysis, 1989, 26, 1081-1089.	1.1	26
150	Computational fluid dynamics " A personal view. , 1989, , 3-17.		1
151	A survey of upwind differencing techniques. , 1989, , 69-78.		19
152	A control volume based finite element formulation of the compressible flow equations with application to the shock tube problem. , 1989, , .		0
153	A code calibration program in support of the Aeroassist Flight Experiment. , 1989, , .		16
154	A multi-temperature TVD algorithm for relaxing hypersonic flows. , 1989, , .		2
155	Simple improvements of an upwind TVD scheme for hypersonic flow. , 1989, , .		23
156	Compressible and incompressible flow computations with a pressure based method. , 1989, , .		56
157	Numerical simulation of shock-elevated box interaction using an adaptive finite element shock capturing scheme. , 1989, , .		12
158	Comparisons of TVD schemes applied to the Navier-Stokes equations. , 1989, , .		3
159	Nonlinear filters for efficient shock computation. Mathematics of Computation, 1989, 52, 509-537.	1.1	74
160	Rayleigh-Taylor instability on the pusher-fuel contact surface of stagnating targets. Physics of Fluids B, 1990, 2, 2715-2730.	1.7	43
161	Numerical Simulation and Density Measurement of a Shock Wave Discharged from the Open End of a Shock Tube. The JSME International Journal, Series 2: Fluids Engineering, Heat Transfer, Power, Combustionrmophysical Properties, 1990, 33, 216-223.	0.1	9
162	Full-Potential, Euler, and Navier-Stokes Schemes. , 1990, , 39-88.		0
163	Multigrid solution of the Euler equations using implicit ENO schemes. , 1990, , .		0
164	A new, high-resolution shock-capturing hybrid scheme of flux vector splitting-Harten's TVD. Acta Mechanica Sinica/Lixue Xuebao, 1990, 6, 204-213.	1.5	0

#	ARTICLE	IF	CITATIONS
165	A new Lagrangian method for steady supersonic flow computation I. Godunov scheme. Journal of Computational Physics, 1990, 89, 207-240.	1.9	54
166	Non-oscillatory central differencing for hyperbolic conservation laws. Journal of Computational Physics, 1990, 87, 408-463.	1.9	1,041
167	Convergence of hybrid MUSCL-type schemes. Computing (Vienna/New York), 1990, 44, 133-146.	3.2	0
168	Simulation of leading-edge vortex flows. Theoretical and Computational Fluid Dynamics, 1990, 1, 379-390.	0.9	3
169	Non-oscillatory shock-capturing finite element methods for the one-dimensional compressible Euler equations. International Journal for Numerical Methods in Fluids, 1990, 11, 405-426.	0.9	3
170	A time-dependent dusty gas dynamic model of axisymmetric cometary jets. Icarus, 1990, 84, 118-153.	1.1	28
171	Multidimensional upwind methods for hyperbolic conservation laws. Journal of Computational Physics, 1990, 87, 171-200.	1.9	694
172	Numerical simulation of blast flowfields using a high resolution TVD finite volume scheme. Computers and Fluids, 1990, 18, 103-137.	1.3	42
173	On an implicit scheme with correction of flows for the numerical solution of Euler's equation. USSR Computational Mathematics and Mathematical Physics, 1990, 30, 196-197.	0.0	0
174	Approximation of conservation laws by high-resolution difference schemes. USSR Computational Mathematics and Mathematical Physics, 1990, 30, 91-100.	0.0	3
175	Monotonization of a family of implicit schemes. USSR Computational Mathematics and Mathematical Physics, 1990, 30, 23-28.	0.0	0
176	Numerical modelling of transverse flow round a cylinder based on the Euler equations. USSR Computational Mathematics and Mathematical Physics, 1990, 30, 207-211.	0.0	0
177	Numerical simulation of shock interaction with complex geometry canisters. AIP Conference Proceedings, 1990, , .	0.3	5
178	Calculation of the Material Interface in a Pressure-Wave Supercharger. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 1990, 204, 151-161.	0.8	9
179	Three-dimensional Rayleigh-Taylor instability of spherical systems. Physical Review Letters, 1990, 65, 432-435.	2.9	61
180	Numerical Methods for Conservation Laws. , 1990, , .		398
181	Uniformly second-order-accurate essentially nonoscillatory schemes for the Euler equations. AIAA Journal, 1990, 28, 2069-2076.	1.5	9
182	Gaseous jet in supersonic crossflow. AIAA Journal, 1990, 28, 819-827.	1.5	23

#	ARTICLE	IF	CITATIONS
183	Navier-Stokes computation of flow around a round-edged double-delta wing. AIAA Journal, 1990, 28, 961-968.	1.5	12
184	Numerical simulations of an oblique detonation wave engine. Journal of Propulsion and Power, 1990, 6, 315-323.	1.3	51
185	CHARACTERISTICS-BASED, HIGH-ORDER ACCURATE AND NONOSCILLATORY NUMERICAL METHOD FOR HYPERBOLIC HEAT CONDUCTION. Numerical Heat Transfer, Part B: Fundamentals, 1990, 18, 221-241.	0.6	60
186	A Triangular Finite Volume Approach With High-Resolution Upwind Terms for the Solution of Groundwater Transport Equations. Water Resources Research, 1990, 26, 2865-2880.	1.7	29
187	Code calibration program in support of the Aeroassist Flight Experiment. Journal of Spacecraft and Rockets, 1990, 27, 131-142.	1.3	68
188	A total variation minimizing numerical method for predicting oscillation free solutions to flows with shocks. , 1990, , .		1
189	Third order nonoscillatory schemes for the Euler equations. , 1990, , .		0
190	A comparative study of advanced shock-capturing schemes applied to Burgers' equation. , 1990, , .		0
191	CFD modeling of an arc-heated jet. , 1990, , .		2
192	An efficient finite volume TVD scheme for steady-state solutions of the 3-D compressible Euler/Navier-Stokes equations. , 1990, , .		3
193	Analysis of transonic turbine rotor cascade flows using a finite-volume total variation diminishing (TVD) scheme. , 1990, , .		0
194	Inviscid and viscous flows in transonic and supersonic cascades using an implicit upwind relaxation algorithm. , 1990, , .		1
195	A unified Navier-Stokes flowfield and performance analysis of liquidrocket engines. , 1990, , .		18
196	Simulation of time-dependent viscous flows using central and upwind-biased finite-difference techniques. , 1990, , .		0
197	Characteristic Galerkin Methods for Scalar Conservation Laws in One Dimension. SIAM Journal on Numerical Analysis, 1990, 27, 553-594.	1.1	29
198	A Numerical Method for Viscous Perturbations of Hyperbolic Conservation Laws. SIAM Journal on Numerical Analysis, 1990, 27, 870-884.	1.1	9
199	Dissipation additions to flux-difference splitting. , 1991, , .		6
200	On the shock enhancement of confined supersonic mixing flows. Physics of Fluids A, Fluid Dynamics, 1991, 3, 3046-3062.	1.6	44

#	ARTICLE	IF	CITATIONS
201	A New Total Variation Diminishing Scheme for the Solution of Advective-Dominant Solute Transport. Water Resources Research, 1991, 27, 2645-2654.	1.7	39
202	Inviscid Flow. Scientific Computation, 1991, , 128-203.	0.2	0
203	CFD in the 1980's from one point of view. , 1991, , .		1
204	Extremum control. III - Fully-discrete approximations to conservation laws. , 1991, , .		1
205	A Runge-Kutta discontinuous finite element method for high speed flows. , 1991, , .		16
206	Nonlinear analysis of longitudinal-mode liquid propellant rocket combustion instability. , 1991, , .		2
207	An adaptive Lagrangian method for computing 1-D reacting and non-reacting flows. , 1991, , .		0
208	Analysis of hypersonic blunt-body flows using a total variation diminishing (TVD) scheme and the MacCormack scheme. , 1991, , .		1
209	Transonic airfoil analysis by explicit TVD formulations of the Navier-Stokes equations. , 1991, , .		0
210	A two-dimensional numerical simulation of shock-enhanced mixing in arectangular scramjet flowfield with parallel hydrogen injection. , 1991, , .		2
211	Simulation of viscous hypersonic flows past hyperboloid configurations with flare. , 1991, , .		1
212	Breakup of a liquid jet in supersonic crossflow. , 1991, , .		0
213	TVD Formulations of the 2D Navier-Stokes Equations for Airfoil Analysis. , 0, , .		3
214	Numerical investigation on the structure of a confined supersonic mixing layer. Physics of Fluids A, Fluid Dynamics, 1991, 3, 3063-3079.	1.6	19
215	A Zonal Approach for Navier-Stokes Computations of Compressible Cascade Flow Fields Using a TVD Finite Volume Method. Journal of Turbomachinery, 1991, 113, 573-582.	0.9	27
216	A systematic comparative study of several high resolution schemes for complex problems in high speed flows. , 1991, , .		13
217	Convergence of finite difference schemes for conservation laws in several space dimensions: the corrected antidiffusive flux approach. Mathematics of Computation, 1991, 57, 169-169.	1.1	40
218	NND Schemes and Their Applications to Numerical Simulation of Two- and Three-Dimensional Flows. Advances in Applied Mechanics, 1991, 29, 193-256.	1.4	87

#	ARTICLE	IF	CITATIONS
219	A Convective-Difference Scheme Using General Curvilinear Coordinate Grid for Incompressible Viscous Flow Problems.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1991, 57, 2614-2620.	0.2	0
220	A TVD finite difference scheme with non-uniform meshes and without upstream weighting. Computers and Mathematics With Applications, 1991, 22, 45-58.	1.4	1
221	A non-uniform mesh scheme for compressible flow. Computers and Mathematics With Applications, 1991, 21, 39-62.	1.4	4
222	Simulation of highly elastic fluid flows without additional numerical diffusivity. Journal of Non-Newtonian Fluid Mechanics, 1991, 39, 189-206.	1.0	24
223	Second-order formulation of a multigrid method for steady Euler equations through defect-correction. Journal of Computational and Applied Mathematics, 1991, 35, 159-168.	1.1	10
224	High resolution schemes for steady flow computation. Journal of Computational Physics, 1991, 97, 53-72.	1.9	28
225	On Godunov-type methods near low densities. Journal of Computational Physics, 1991, 92, 273-295.	1.9	796
226	A treatment of discontinuities in shock-capturing finite difference methods. Journal of Computational Physics, 1991, 92, 422-455.	1.9	33
227	Construction of the entropy solution of hyperbolic conservation laws by a geometrical interpretation of the conservation principle. Journal of Computational Physics, 1991, 95, 40-58.	1.9	4
228	High order filtering methods for approximating hyperbolic systems of conservation laws. Journal of Computational Physics, 1991, 96, 110-142.	1.9	12
229	An efficient algorithm for hypersonic viscous flows. Acta Mechanica Sinica/Lixue Xuebao, 1991, 7, 227-234.	1.5	0
230	Solution of Steady-State, Two-Dimensional Conservation Laws by Mathematical Programming. SIAM Journal on Numerical Analysis, 1991, 28, 141-155.	1.1	11
231	A comparison of initial conditions for continuous-flow systems. Chemical Engineering Science, 1991, 46, 1725-1737.	1.9	1
232	Assessment of TVD schemes for inviscid and turbulent flow computation. International Journal for Numerical Methods in Fluids, 1991, 12, 161-177.	0.9	8
233	Characteristic-based flux limiters of an essentially third-order flux-splitting method for hyperbolic conservation laws. International Journal for Numerical Methods in Fluids, 1991, 13, 287-307.	0.9	25
234	Numerical simulation of the reflection of a planar shock wave over a double wedge. International Journal for Numerical Methods in Fluids, 1991, 13, 1153-1170.	0.9	10
235	The MmB difference solutions of 2-D Riemann problems for a 2 Å– 2 hyperbolic system of conservation laws. IMPACT of Computing in Science and Engineering, 1991, 3, 146-180.	0.8	10
236	Reflection of shock wave from a compression corner in a particle-laden gas region. Shock Waves, 1991, 1, 65-73.	1.0	27

#	ARTICLE	IF	CITATIONS
237	Stability of converging cylindrical shock waves. <i>Shock Waves</i> , 1991, 1, 149-160.	1.0	41
238	Experiments on the interaction of a pair of cylindrical weak blast waves in air. <i>Shock Waves</i> , 1991, 1, 275-284.	1.0	20
239	Effect of dissipative processes on compression flows in a plasma accelerator channel. <i>Fluid Dynamics</i> , 1991, 26, 402-408.	0.2	3
240	Theory and simulation of a high-frequency magnetic drift wave. <i>Physics of Fluids B</i> , 1991, 3, 3217-3225.	1.7	46
241	On the computation of near wake, aerobrake flowfields. , 1991, , .		13
242	Gas dynamic flow in a spinning, coning solid rocket motor. , 1991, , .		1
243	Shock-capturing method for the equations of gasdynamics in physical variables. <i>AIAA Journal</i> , 1991, 29, 1370-1371.	1.5	0
244	Third-order nonoscillatory schemes for the Euler equations. <i>AIAA Journal</i> , 1991, 29, 1611-1618.	1.5	25
245	Numerical Investigation of Thrust-Reversing Nozzles. <i>International Journal of Turbo and Jet Engines</i> , 1991, 8, .	0.3	0
246	Gravitational Radiation from Coalescing Binary Neutron Stars. V: Post-Newtonian Calculation. <i>Progress of Theoretical Physics</i> , 1992, 88, 307-315.	2.0	16
247	Experimental and numerical studies of blast wave focusing in water. , 1992, , 347-350.		2
248	On Central-Difference and Upwind Schemes. , 1992, , 167-181.		8
249	Interaction of a planar shock wave with a double-wedge-like structure. <i>AIAA Journal</i> , 1992, 30, 274-278.	1.5	3
250	High-resolution, nonoscillatory schemes for unsteady compressible flows. <i>AIAA Journal</i> , 1992, 30, 1570-1575.	1.5	30
251	Simple method of supersonic flow visualization using smoke. <i>AIAA Journal</i> , 1992, 30, 278-279.	1.5	1
252	Finite-volume implementation of high-order essentially nonoscillatory schemes in two dimensions. <i>AIAA Journal</i> , 1992, 30, 2829-2835.	1.5	39
253	The weighted average flux method applied to the Euler equations. <i>Philosophical Transactions of the Royal Society: Physical and Engineering Sciences</i> , 1992, 341, 499-530.	1.0	55
254	Numerical simulation of re-entry flow around the Space Shuttle with finite-rate chemistry. <i>Journal of Aircraft</i> , 1992, 29, 1049-1056.	1.7	9

#	ARTICLE	IF	CITATIONS
255	High resolution computation of unsteady flows in pulsed lasers. AIAA Journal, 1992, 30, 756-764.	1.5	1
256	Calculated electron number density profiles for the aeroassist flight experiment. Journal of Spacecraft and Rockets, 1992, 29, 621-626.	1.3	15
257	Liquid fuel jet in subsonic crossflow. Journal of Propulsion and Power, 1992, 8, 21-29.	1.3	52
258	Assessment of total variation diminishing schemes in compressible mixing flow computations. AIAA Journal, 1992, 30, 939-946.	1.5	3
259	A Convective-Difference Scheme Using a General Curvilinear Coordinate Grid for Steady Incompressible Viscous Flow Problems.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1992, 58, 2108-2113.	0.2	0
260	Convective-Difference Scheme Using a General Curvilinear Coordinate Grid for Incompressible Viscous Flow Problems. The JSME International Journal, Series 2: Fluids Engineering, Heat Transfer, Power, Combustionrmophysical Properties, 1992, 35, 559-564.	0.1	0
261	Liquid rocket spray combustion stability analysis. , 1992, , .		0
262	GAS FLOW IN A SINGLE CYLINDER INTERNAL COMBUSTION ENGINE: A MODEL AND ITS NUMERICAL TREATMENT. International Journal of Numerical Methods for Heat and Fluid Flow, 1992, 2, 63-78.	1.6	6
263	Computations of hypersonic flows around a three-dimensional concave/convex body. , 1992, , .		0
264	Numerical study on a supersonic open cavity flow with geometric modification of aft bulkhead. , 1992, , .		2
265	Solution strategies and heat transfer calculations for three-dimensional configurations at hypersonic speeds. , 1992, , .		10
266	Unsteady, one-dimensional gas dynamics computations using a TVD typesequential solver. , 1992, , .		4
267	An entropy consistent upwind method for the Euler and Navier-Stokes equations. , 1992, , .		1
268	Locally Exact Numerical Scheme for Transport Equations with Source Terms-LENS. Journal of Nuclear Science and Technology, 1992, 29, 824-827.	0.7	9
269	Chapter 9 New Developments of Difference Schemes for 2-D First-Order Hyperbolic Systems of Equations. Elsevier Oceanography Series, 1992, 55, 334-387.	0.1	0
270	Sonic Flux Formulae. SIAM Journal on Scientific and Statistical Computing, 1992, 13, 611-630.	1.5	35
271	Numerical simulation of macroscopic continuum traffic models. Transportation Research Part B: Methodological, 1992, 26, 207-220.	2.8	42
272	Preliminary study of the CRRES magnetospheric barium releases. Journal of Geophysical Research, 1992, 97, 11-24.	3.3	115

#	ARTICLE	IF	CITATIONS
273	Computation of near-wake, aerobrake flowfields. Journal of Spacecraft and Rockets, 1992, 29, 182-189.	1.3	37
274	A simulation study on nonlinear sound propagation by finite element approach.. Journal of the Acoustical Society of Japan (E), 1992, 13, 223-230.	0.1	8
275	An interface tracking method for hyperbolic systems of conservation laws. Applied Numerical Mathematics, 1992, 10, 447-472.	1.2	35
276	A comparative study of advanced shock-capturing schemes applied to Burgers' equation. Journal of Computational Physics, 1992, 102, 139-159.	1.9	111
277	Implicit flux limiting schemes for petroleum reservoir simulation. Journal of Computational Physics, 1992, 102, 194-210.	1.9	74
278	Computational methods in Lagrangian and Eulerian hydrocodes. Computer Methods in Applied Mechanics and Engineering, 1992, 99, 235-394.	3.4	1,052
279	Vectorization techniques for explicit arbitrary Lagrangian-Eulerian calculations. Computer Methods in Applied Mechanics and Engineering, 1992, 96, 303-328.	3.4	11
280	The discontinuous finite element method with the Taylor-Galerkin approach for nonlinear hyperbolic conservation laws. Computer Methods in Applied Mechanics and Engineering, 1992, 95, 141-167.	3.4	9
281	Iterative methods for stationary solutions to the steady-state compressible Navier-Stokes equations. Computers and Fluids, 1992, 21, 627-645.	1.3	1
282	Numerical experiments on unsteady shock reflection processes using the thin-layer Navier-Stokes equations. Computers and Fluids, 1992, 21, 369-375.	1.3	0
283	Numerical simulation of shock wave interactions with channel bends and gas nonuniformities. Computers and Fluids, 1992, 21, 377-396.	1.3	13
284	On central-difference and upwind schemes. Journal of Computational Physics, 1992, 101, 292-306.	1.9	458
285	Computing interface motion in compressible gas dynamics. Journal of Computational Physics, 1992, 100, 209-228.	1.9	310
286	A numerical method for systems of conservation laws of mixed type admitting hyperbolic flux splitting. Journal of Computational Physics, 1992, 100, 424-429.	1.9	27
287	Momentum advection on a staggered mesh. Journal of Computational Physics, 1992, 100, 143-162.	1.9	111
288	A fixed-stencil non-oscillatory scheme for hyperbolic systems. Journal of Computational Physics, 1992, 100, 200-204.	1.9	1
289	The application of the locally implicit method to upwind TVD schemes. Journal of Scientific Computing, 1992, 7, 339-357.	1.1	0
290	Off-design solutions of hypersonic flows past ellipticcone derived waveriders. Journal of Mechanical Science and Technology, 1992, 6, 169-177.	0.1	0

#	ARTICLE	IF	CITATIONS
291	Entropy production in second-order three-point schemes. <i>Numerische Mathematik</i> , 1992, 62, 371-390.	0.9	14
292	A weak shock wave reflection over wedges. <i>Shock Waves</i> , 1992, 2, 277-281.	1.0	31
293	On shock capturing for pure water with general equation of state. <i>Communications in Applied Numerical Methods</i> , 1992, 8, 219-233.	0.5	10
294	A slope modification method for shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 1992, 14, 189-196.	0.9	12
295	A numerical simulation of boundary layer effects in a shock tube. <i>International Journal for Numerical Methods in Fluids</i> , 1992, 14, 1151-1171.	0.9	13
296	A flux-based modified method of characteristics. <i>International Journal for Numerical Methods in Fluids</i> , 1992, 15, 1259-1275.	0.9	47
297	Premature in-bore separation of sabot-jacketed projectiles. <i>Numerical Methods for Partial Differential Equations</i> , 1993, 9, 225-234.	2.0	1
298	A comparison of TVD Lax-Wendroff methods. <i>Communications in Numerical Methods in Engineering</i> , 1993, 9, 147-155.	1.3	4
299	A comparison of numerical methods applied to non-linear adsorption columns. <i>International Journal for Numerical Methods in Fluids</i> , 1993, 17, 839-859.	0.9	16
300	Methods for extending high-resolution schemes to non-linear systems of hyperbolic conservation laws. <i>International Journal for Numerical Methods in Fluids</i> , 1993, 17, 861-885.	0.9	15
301	Modelling the plasma dynamics of the CRRES G-9 and G-10 barium releases. <i>Advances in Space Research</i> , 1993, 13, 45-54.	1.2	3
302	A new Lagrangian method for steady supercritical shallow water flow computation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993, 104, 333-355.	3.4	5
303	Numerical simulation of shock/shock and shock-wave/boundary-layer interactions in hypersonic flows. <i>Computers and Fluids</i> , 1993, 22, 427-439.	1.3	15
304	Adaptive methods on unstructured grids for Euler and Navier-Stokes equations. <i>Computers and Fluids</i> , 1993, 22, 485-499.	1.3	16
305	Numerical experiments with nonoscillatory schemes using Eulerian and new Lagrangian formulations. <i>Computers and Fluids</i> , 1993, 22, 163-177.	1.3	3
306	Higher-order-accurate upwind schemes for solving the compressible Euler and Navier-Stokes equations. <i>Computers and Fluids</i> , 1993, 22, 259-270.	1.3	248
307	Numerical computation of two-dimensional unsteady detonation waves in high energy solids. <i>Journal of Computational Physics</i> , 1993, 106, 215-233.	1.9	29
308	A numerical algorithm for hydrodynamic free boundary problems. <i>Journal of Computational Physics</i> , 1993, 106, 319-336.	1.9	35

#	ARTICLE	IF	CITATIONS
309	Calculating the effects of variations in composition on wave propagation in gases. International Journal of Mechanical Sciences, 1993, 35, 517-537.	3.6	29
310	A high accuracy sequential solver for simulation and active control of a longitudinal combustion instability. Computing Systems in Engineering: an International Journal, 1993, 4, 27-41.	0.5	15
311	A generalized Lagrangian method for solving the steady shallow water equations. Mathematics and Computers in Simulation, 1993, 35, 43-61.	2.4	3
312	Use of a flux-limited scheme for vertical advection in a GCM. Quarterly Journal of the Royal Meteorological Society, 1993, 119, 469-487.	1.0	30
313	Some numerical schemes using curvilinear coordinate grids for incompressible and compressible Navier-Stokes equations. Sadhana - Academy Proceedings in Engineering Sciences, 1993, 18, 431-476.	0.8	2
314	Convergence of an upstream finite volume scheme for a nonlinear hyperbolic equation on a triangular mesh. Numerische Mathematik, 1993, 66, 139-157.	0.9	41
315	Computational algorithms for aerodynamic analysis and design. Applied Numerical Mathematics, 1993, 13, 383-422.	1.2	58
316	Harten solution for one-dimensional unsteady equation. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.784314 ggBT /Over	1.9	19
317	A NEW HIGH-RESOLUTION SCHEME BASED ON THE NORMALIZED VARIABLE FORMULATION. Numerical Heat Transfer, Part B: Fundamentals, 1993, 24, 353-371.	0.6	94
318	A new hybrid dissipation scheme for the compressible Navier-Stokes equations. , 1993, , .		0
319	Mathematical modeling of aerosol formation by rapid expansion of supercritical solutions in a converging nozzle. Journal of Aerosol Science, 1993, 24, 445-469.	1.8	97
320	Anh-r-Adaptive Approximate Riemann Solver for the Euler Equations in Two Dimensions. SIAM Journal of Scientific Computing, 1993, 14, 185-217.	1.3	11
321	A Monotone Petrovâ€Galerkin Method for Quasilinear Parabolic Differential Equations. SIAM Journal of Scientific Computing, 1993, 14, 1057-1071.	1.3	5
322	Multigrid Solution to Steady-State Two-Dimensional Conservation Laws. SIAM Journal on Numerical Analysis, 1993, 30, 249-274.	1.1	14
323	Accurate Monotone Cubic Interpolation. SIAM Journal on Numerical Analysis, 1993, 30, 57-100.	1.1	106
324	Convergence of Finite Difference Schemes for Conservation Laws in Several Space Dimensions: A General Theory. SIAM Journal on Numerical Analysis, 1993, 30, 675-700.	1.1	56
325	Artificial viscosity models for the Navier-Stokes equations and their effect in drag prediction. , 1993, , .		8
326	Navier-Stokes simulations of the Shuttle Orbiter aerodynamic characteristics with emphasis on pitch trim and bodyflap. , 1993, , .		12

#	ARTICLE	IF	CITATIONS
327	Computation of nonequilibrium shock layers for the comet sample return vehicles. , 1993, , .		1
328	Comparison of ENO and TVD schemes for the parabolized Navier-Stokes equations. , 1993, , .		0
329	Application of a two-equation turbulence model for high speed compressible flows using unstructured grids. , 1993, , .		5
330	Simulations of a molecular plasma in collisional-radiative nonequilibrium. , 1993, , .		6
331	Numerical solution of inviscid hypersonic flow around a conically-derived waverider. , 1993, , .		2
332	A perspective on a quarter century of CFD research. , 1993, , .		7
333	On improvements to symmetric TVD algorithms - Method development. , 1993, , .		0
334	Discontinuous Galerkin finite element method for two dimensional conservation laws. , 1993, , .		0
335	Computations of aerodynamic drag for turbulent transonic projectiles with and without spin. , 1993, , .		0
336	Calculations on a double-fin turbulent interaction at high speed. , 1993, , .		9
337	Supersonic gasdispersional jets and jet noise. , 1993, , .		2
338	Validation of the Uranus Navier-Stokes code for high-temperature nonequilibrium flows. , 1993, , .		2
339	Pressure-based high-order TVD methodology for dynamic stall simulation. , 1993, , .		10
340	TVD schemes and their relation to artificial dissipation. , 1993, , .		2
341	Numerical prediction of instabilities in transonic internal flows using an Euler TVD code. , 1993, , .		3
342	Direct computation of nonlinear acoustic pulses using high-order finite difference schemes. , 1993, , .		53
343	Computations of free surface flows Part 1: One-dimensional dam-break flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 1993, 31, 19-34.	0.7	40
344	Computations of free surface flows Part 2: Two-dimensional unsteady bore diffraction. Journal of Hydraulic Research/De Recherches Hydrauliques, 1993, 31, 403-414.	0.7	25

#	ARTICLE	IF	CITATIONS
345	A numerical treatment of geodynamic viscous flow problems involving the advection of material interfaces. Journal of Geophysical Research, 1993, 98, 8243-8260.	3.3	56
346	SOME IMPLEMENTATIONAL ISSUES OF CONVECTION SCHEMES FOR FINITE-VOLUME FORMULATIONS. Numerical Heat Transfer, Part B: Fundamentals, 1993, 24, 31-55.	0.6	49
347	Accuracy of flux-split algorithms in high-speed viscous flows. AIAA Journal, 1993, 31, 1215-1221.	1.5	32
348	Discontinuous Galerkin Finite Element Method for Euler and Navier-Stokes Equations. AIAA Journal, 1993, 31, 2016-2026.	1.5	23
349	Hypersonic nonequilibrium flow computations using the Roe flux-difference split scheme. AIAA Journal, 1993, 31, 812-813.	1.5	13
350	Shock Oscillation in Two-Dimensional, Inviscid, Unsteady Channel Flow. AIAA Journal, 1993, 31, 200-203.	1.5	2
351	Solution of the steady Euler equations in a generalized Lagrangian formulation. AIAA Journal, 1993, 31, 266-272.	1.5	4
352	Gas-dynamic flow in a spinning, coning solid rocket motor. Journal of Propulsion and Power, 1993, 9, 35-42.	1.3	11
353	Parametric analysis of radiative structure in aerobrake shock layers. Journal of Spacecraft and Rockets, 1993, 30, 51-58.	1.3	7
354	Unified Navier-Stokes flowfield and performance analysis of liquid rocket engines. Journal of Propulsion and Power, 1993, 9, 678-685.	1.3	77
355	AN EVALUATION OF THE BOUNDED DIRECTIONAL TRANSPORTIVE UPWIND DIFFERENCING SCHEME FOR CONVECTION-DIFFUSION PROBLEMS. Numerical Heat Transfer, Part B: Fundamentals, 1993, 23, 201-219.	0.6	10
356	A convective and radiative heat transfer analysis for the FIRE II forebody. , 1993, , .		9
357	Field by field hybrid upwind splitting methods. , 1993, , .		14
358	Comparison of limiters in flux-split algorithms for Euler equations. , 1993, , .		11
359	Self-generation of magnetic fields by sheared flows in weakly ionized plasmas. Physics of Fluids B, 1993, 5, 3779-3788.	1.7	21
360	Solution strategy for three-dimensional configurations at hypersonic speeds. Journal of Spacecraft and Rockets, 1993, 30, 385-394.	1.3	23
361	Basic Study on Reynolds Stress Model Calculations. Application of TVD Scheme.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1993, 59, 2111-2116.	0.2	0
362	A Fourth-Order MUSCL Finite-Difference Scheme for Solving the Unsteady Compressible Euler Equations.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1993, 59, 43-48.	0.2	1

#	ARTICLE	IF	CITATIONS
363	AN UPWIND UNSTRUCTURED GRID SOLUTION ALGORITHM FOR COMPRESSIBLE FLOW. International Journal of Numerical Methods for Heat and Fluid Flow, 1993, 3, 283-304.	1.6	2
364	The Transonic Flow Computation by TVD-MacCORMACK Method. Proceedings of Hydraulic Engineering, 1993, 37, 763-768.	0.0	2
365	Direct and iterative algorithms for the three-dimensional Euler equations. , 1993, , .		24
366	An implicit time-marching procedure for high speed flow. , 1993, , .		4
367	NUMERICAL STUDY OF BASE BLEED EFFECTS ON AERODYNAMIC DRAG FOR A TRANSONIC PROJECTILE. International Journal of Computational Fluid Dynamics, 1993, 1, 249-273.	0.5	1
368	DEVELOPMENT OF HIGH-ACCURACY CONVECTION SCHEMES FOR SEQUENTIAL SOLVERS. Numerical Heat Transfer, Part B: Fundamentals, 1993, 23, 175-199.	0.6	12
369	Extension of the TVD Midpoint Scheme to Higher-Order Accuracy in Time. , 1993, , .		12
370	TVD FINITE-DIFFERENCE METHODS FOR COMPUTING HIGH-SPEED THERMAL AND CHEMICAL NON-EQUILIBRIUM FLOWS WITH STRONG SHOCKS. International Journal of Numerical Methods for Heat and Fluid Flow, 1993, 3, 483-516.	1.6	3
371	Numerical Simulation of Two-Phase Flow Using Locally Refined Grids in Three Space Dimensions. SPE Advanced Technology Series, 1993, 1, 36-41.	0.2	25
372	Comparative Analysis of Navier-Stokes Codes - Accuracy and Efficiency. , 0, , .		0
373	A General Hyperbolic Solver—the CIP Method—Applied to Curvilinear Coordinate. Journal of the Physical Society of Japan, 1993, 62, 1865-1871.	0.7	25
374	Optimization of a 125 cc. Racing 2-S Engine Based on Modelling and Testing. , 1994, , .		2
375	HYDRAULIC ANALYSIS OF UNSTEADY FLOWS WITH PROPAGATION OF AN INTERFACE BETWEEN FREE SURFACE FLOW AND PRESSURIZED FLOW. Doboku Gakkai Ronbunshu, 1994, 1994, 89-97.	0.2	4
376	Oblique Magnetohydrodynamic Cosmic-Ray-Modified Shocks: Two-Fluid Numerical Simulations. International Astronomical Union Colloquium, 1994, 142, 975-980.	0.1	0
377	Towards an Interactive Aerodynamic Design of Turbomachines: Flow Computation. International Journal of Turbo and Jet Engines, 1994, 11, .	0.3	0
378	CONTROLLED VARIATION SCHEME IN A SEQUENTIAL SOLVER FOR RECIRCULATING FLOWS, PART I: THEORY AND FORMULATION. Numerical Heat Transfer, Part B: Fundamentals, 1994, 25, 245-272.	0.6	15
379	Supersonic flow in the second-throat ejector-diffuser system. Journal of Spacecraft and Rockets, 1994, 31, 123-129.	1.3	35
380	Application of singular value decomposition to direct matrix update method. AIAA Journal, 1994, 32, 2124-2126.	1.5	5

#	ARTICLE	IF	CITATIONS
381	Characteristics of the Shuttle Orbiter leeside flow during a re-entry condition. Journal of Spacecraft and Rockets, 1994, 31, 8-16.	1.3	8
382	Numerical simulation of shock-box interaction using an adaptive finite element scheme. AIAA Journal, 1994, 32, 682-692.	1.5	17
383	Numerical simulation of acoustic waves in a combustor using total-variation-diminishing schemes. AIAA Journal, 1994, 32, 875-878.	1.5	0
384	Navier-Stokes simulations of Orbiter aerodynamic characteristics including pitch trim and bodyflap. Journal of Spacecraft and Rockets, 1994, 31, 355-366.	1.3	40
385	Fuzzy controller and neuron models of Harten's second-order total variation diminishing scheme. AIAA Journal, 1994, 32, 2122-2124.	1.5	3
386	A NUMERICAL STUDY OF OPTIMAL DRAG REDUCTION FOR TURBULENT TRANSONIC PROJECTILES USING A PASSIVE CONTROL. International Journal of Computational Fluid Dynamics, 1994, 3, 251-264.	0.5	0
387	FLUX LIMITED NON-OSCILLATORY CUD-3 SCHEMES FOR 1-D EULER EQUATIONS. International Journal of Computational Fluid Dynamics, 1994, 3, 141-152.	0.5	1
388	Numerical study of transient flow phenomena in shock tunnels. AIAA Journal, 1994, 32, 971-978.	1.5	22
389	Why nonconservative schemes converge to wrong solutions: error analysis. Mathematics of Computation, 1994, 62, 497-530.	1.1	215
390	Navier-Stokes simulations of slender axisymmetric shapes in supersonic, turbulent flow. AIAA Journal, 1994, 32, 1446-1456.	1.5	4
391	Upwind method for simulation of viscous flow on adaptively refined meshes. AIAA Journal, 1994, 32, 268-277.	1.5	32
392	Elements of Pressure-Based Computational Algorithms for Complex Fluid Flow and Heat Transfer. Advances in Heat Transfer, 1994, 24, 191-275.	0.4	13
393	Application of essentially nonoscillatory schemes to unsteady hypersonic shock-shock interference heating problems. AIAA Journal, 1994, 32, 1606-1616.	1.5	60
394	Flow-structural interaction inside a solid rocket during ignition transient. , 1994, , .		3
395	Hall dynamics of the Kelvin-Helmholtz instability. Physical Review Letters, 1994, 72, 2033-2036.	2.9	51
396	Hall magnetohydrodynamic modeling of a longâ€conductionâ€time plasma opening switch. Physics of Plasmas, 1994, 1, 3444-3454.	0.7	58
397	Flux difference splittings and limiters for the resolution of contact discontinuities. Applied Mathematics and Computation, 1994, 65, 3-18.	1.4	6
398	Shock layers and boundary layers in hypersonic flows. Progress in Aerospace Sciences, 1994, 30, 95-212.	6.3	6

#	ARTICLE	IF	CITATIONS
399	Modified forms of the third-order convection, second-order diffusion scheme for the advection-diffusion equation. <i>Advances in Water Resources</i> , 1994, 17, 147-170.	1.7	24
400	Numerical modeling of the initial stage of the generation of unsteady vortices from sharp corner in plane compressible flow. <i>Applied Mathematics and Mechanics (English Edition)</i> , 1994, 15, 697-702.	1.9	0
401	A comparison of four recent numerical schemes giving high resolution of shock wave and concentrated vortex. <i>Applied Mathematics and Mechanics (English Edition)</i> , 1994, 15, 797-804.	1.9	0
402	Numerical simulations of high-speed chemically reacting flow. <i>Theoretical and Computational Fluid Dynamics</i> , 1994, 6-6, 161-179.	0.9	28
403	Supersonic viscous perfect gas flow past a circular cylinder. <i>Fluid Dynamics</i> , 1994, 28, 833-838.	0.2	27
404	A Numerical Resolution Study of High Order Essentially Non-oscillatory Schemes Applied to Incompressible Flow. <i>Journal of Computational Physics</i> , 1994, 110, 39-46.	1.9	71
405	Upwind iteration methods for the cell vertex scheme in one dimension. <i>Journal of Computational Physics</i> , 1994, 114, 209-226.	1.9	10
406	Riemann Solver for Relativistic Hydrodynamics. <i>Journal of Computational Physics</i> , 1994, 114, 284-297.	1.9	61
407	Finite-difference methods for one-dimensional hyperbolic conservation laws. <i>Numerical Methods for Partial Differential Equations</i> , 1994, 10, 225-269.	2.0	7
408	On estimating pressure build-up in severely accelerated, shocked flow. <i>International Journal for Numerical Methods in Fluids</i> , 1994, 18, 545-553.	0.9	0
409	Upstream monotonic interpolation for scalar transport with application to complex turbulent flows. <i>International Journal for Numerical Methods in Fluids</i> , 1994, 19, 527-548.	0.9	154
410	TVD algorithms for the solution of the compressible Euler equations on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 1994, 19, 827-847.	0.9	39
411	The total variation decreasing property of a conservative front tracking technique. <i>Mathematical and Computer Modelling</i> , 1994, 20, 89-99.	2.0	2
412	Dynamic adaptivity and residual control in unsteady compressible flow computation. <i>Mathematical and Computer Modelling</i> , 1994, 20, 201-213.	2.0	22
413	A multigrid Tvd-type scheme for computing inviscid and viscous flows. <i>Computers and Fluids</i> , 1994, 23, 711-735.	1.3	5
414	An implicit-explicit upwind algorithm for the parabolized Navier-Stokes equations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 1994, 10, 129-135.	1.5	1
415	Characterization of disturbance propagation in weak shock-wave reflections. <i>Journal of Fluid Mechanics</i> , 1994, 277, 331-345.	1.4	14
416	Supersonic gasdispersional jets - Models and applications. , 1994, , .		0

#	ARTICLE	IF	CITATIONS
417	Fuzzy controller and neuron models of Harten's second-order TVD scheme. , 1994, , .		0
418	Turbulent combustion modeling including unmixedness and temperature spottiness. , 1994, , .		1
419	Three-dimensional Navier-Stokes method with two-equation turbulence models for efficient numerical simulation of hypersonic flows. , 1994, , .		4
420	A higher-resolution shock-capturing scheme for simulating unsteady three-dimensional transonic flows in turbomachinery. , 1994, , .		1
421	Slag accumulation in the Titan SRMU. , 1994, , .		4
422	A flux splitting scheme with high-resolution and robustness for discontinuities. , 1994, , .		346
423	Convective and radiative heat transfer analysis for the Fire II forebody. Journal of Spacecraft and Rockets, 1994, 31, 986-992.	1.3	27
424	NORMALIZED VARIABLE AND SPACE FORMULATION METHODOLOGY FOR HIGH-RESOLUTION SCHEMES. Numerical Heat Transfer, Part B: Fundamentals, 1994, 26, 79-96.	0.6	122
425	Local Piecewise Hyperbolic Reconstruction of Numerical Fluxes for Nonlinear Scalar Conservation Laws. SIAM Journal of Scientific Computing, 1994, 15, 892-915.	1.3	128
426	The Convergence Rate of Godunov Type Schemes. SIAM Journal on Numerical Analysis, 1994, 31, 1-16.	1.1	39
427	High Order Accuracy Optimized Methods for Constrained Numerical Solutions of Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 1994, 15, 846-865.	1.3	0
428	Nonlinearly Stable Compact Schemes for Shock Calculations. SIAM Journal on Numerical Analysis, 1994, 31, 607-627.	1.1	104
429	Studies on Error Propagation for Certain Nonlinear Approximations to Hyperbolic Equations: Discontinuities in Derivatives. SIAM Journal on Numerical Analysis, 1994, 31, 655-679.	1.1	19
430	Three-dimensional structure of a supersonic jet impinging on an inclined plate. Journal of Spacecraft and Rockets, 1994, 31, 778-782.	1.3	21
431	Towards computations of ocean flows using Navier-Stokes equations. , 0, , .		1
432	Behavior of a Weak Shock Wave Propagating through a Gas with Density Gradient in a Duct.. JSME International Journal Series B, 1994, 37, 275-281.	0.3	0
433	Computation of Unsteady Transonic Cascade Flow Using the Euler and Navier-Stokes Equations of Contravariant Velocities.. JSME International Journal Series B, 1994, 37, 522-530.	0.3	2
434	Underexpanded Impinging Jet. Numerical Solution of Euler Equations.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1994, 60, 1139-1144.	0.2	2

#	ARTICLE	IF	CITATIONS
435	Numerical Analysis of Unsteady Nozzle Flow Induced by Shock Wave.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1994, 60, 2267-2272.	0.2	1
436	Aeroheating and skin friction computations for a blunt body at high speeds. , 1994, , .		6
437	Numerical Study of Compressible Gas Flow in Narrow Gap. 1st Report, Development and Estimation of the Computational Method.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1995, 61, 1360-1367.	0.2	0
438	Design and Performance of Quick Opening Shock Tube Using Rubber Membrnae. 2nd Report, Modification of the Facility and Analysis of Shock Tube Flow.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1995, 61, 4031-4038.	0.2	4
439	Simulations of Refraction of Weak Shock Waves by Contact Interface in Liquid.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1995, 61, 912-917.	0.2	0
440	Computational and Experimental Studies of Unsteady Viscous Nozzle Flows.. JSME International Journal Series B, 1995, 38, 346-352.	0.3	1
441	Surging Phenomena with Partially Free Surface Unsteady Flows in a Circular Conduit. Proceedings of Hydraulic Engineering, 1995, 39, 385-390.	0.0	1
442	Transonic Euler computation in streamfunction co-ordinates. International Journal for Numerical Methods in Fluids, 1995, 20, 75-94.	0.9	1
443	Approximation of shallow water equations by Roe's Riemann solver. International Journal for Numerical Methods in Fluids, 1995, 20, 157-168.	0.9	56
444	Positive schemes and shock modelling for compressible flows. International Journal for Numerical Methods in Fluids, 1995, 20, 743-776.	0.9	83
445	Conservative bicharacteristic upwind schemes for hyperbolic conservation laws II. Computers and Mathematics With Applications, 1995, 29, 91-107.	1.4	3
446	Pressure wave propagation in a short tunnel caused by passing trains. Forschung Im Ingenieurwesen/Engineering Research, 1995, 61, 304-315.	1.0	2
447	Numerical simulation of inviscid flows with hydrogen combustion behind shock waves and in detonation waves. Combustion, Explosion and Shock Waves, 1995, 31, 376-389.	0.3	35
448	An approximate solution of one-dimensional piston problem. Zeitschrift Fur Angewandte Mathematik Und Physik, 1995, 46, 752-771.	0.7	7
449	Shock focusing and jet collimation in young stars. Astrophysics and Space Science, 1995, 233, 145-153.	0.5	2
450	Numerical benchmark for the charge cycle in a combustion engine. Applied Numerical Mathematics, 1995, 18, 293-305.	1.2	4
451	TVD schemes for the calculation of flow in pipes of variable cross-section. Mathematical and Computer Modelling, 1995, 21, 85-92.	2.0	24
452	Godunov scheme for the scalar nonlinear conservation laws with flux depending on the space variable. Mathematical and Computer Modelling, 1995, 22, 1-15.	2.0	3

#	ARTICLE	IF	CITATIONS
453	A new upwind scheme on triangular meshes using the finite volume method. Computer Methods in Applied Mechanics and Engineering, 1995, 124, 15-31.	3.4	19
454	A high-order streamline Godunov scheme for steady supersonic flow computation. Computer Methods in Applied Mechanics and Engineering, 1995, 124, 283-302.	3.4	8
455	Computer evaluation of high order numerical schemes to solve advective transport problems. Computers and Fluids, 1995, 24, 919-929.	1.3	9
456	Generation mechanisms for magnetosphere-ionosphere current systems deduced from a three-dimensional MHD simulation of the solar wind-magnetosphere-ionosphere coupling processes. Journal of Geophysical Research, 1995, 100, 12057.	3.3	177
457	Finite Volume Scheme With Quadratic Reconstruction on Unstructured Adaptive Meshes Applied to Turbomachinery Flows. , 1995, , .		6
458	Numerical schemes for conservation laws via Hamilton-Jacobi equations. Mathematics of Computation, 1995, 64, 555-580.	1.1	23
459	A locally modified second order upwind scheme for convection terms discretization. International Journal of Numerical Methods for Heat and Fluid Flow, 1995, 5, 49-62.	1.6	46
460	ASSESSMENT OF HIGHER-ORDER UPWIND SCHEMES INCORPORATING FCT FOR CONVECTION-DOMINATED PROBLEMS. Numerical Heat Transfer, Part B: Fundamentals, 1995, 27, 1-21.	0.6	33
461	Comparison of high-resolution schemes applied to flows containing strong shocks. AIAA Journal, 1995, 33, 2087-2091.	1.5	1
462	Image segmentation by reaction-diffusion bubbles. , 0, , .		88
463	Analysis of laminar near-wake hypersonic flows. Journal of Spacecraft and Rockets, 1995, 32, 970-980.	1.3	27
464	Slag accumulation in the Titan solid rocket motor upgrade. Journal of Propulsion and Power, 1995, 11, 1012-1020.	1.3	13
465	Comparison of higher resolution Euler schemes for aeroacoustic computations. AIAA Journal, 1995, 33, 237-245.	1.5	35
466	Experimental and computational analysis of Shuttle Orbiter hypersonic trim anomaly. Journal of Spacecraft and Rockets, 1995, 32, 758-764.	1.3	21
467	ANALYSIS OF COMBUSTION PROCESSES IN A GUN INTERIOR BALLISTICS. International Journal of Computational Fluid Dynamics, 1995, 4, 57-71.	0.5	11
468	Comparison of discrete ordinates formulations for radiative heat transfer in multidimensional geometries. Journal of Thermophysics and Heat Transfer, 1995, 9, 47-54.	0.9	78
469	Numerical solution of a 10-moment model for nonequilibrium gasdynamics. , 1995, , .		18
470	Computations of aerodynamic drag for spinning transonic projectiles using an implicit TVD scheme. Engineering Computations, 1995, 12, 529-544.	0.7	1

#	ARTICLE	IF	CITATIONS
471	EVALUATION OF A HIGHER-ORDER BOUNDED CONVECTION SCHEME: THREE-DIMENSIONAL NUMERICAL EXPERIMENTS. Numerical Heat Transfer, Part B: Fundamentals, 1995, 28, 23-38.	0.6	8
472	Optical heterodyne binary-DPSK systems: a review of analysis and performance. IEEE Journal on Selected Areas in Communications, 1995, 13, 557-568.	9.7	8
473	Numerical solutions of the nonlinear model Boltzmann equations. Proceedings of the Royal Society A, 1995, 448, 55-80.	1.0	17
474	A space-time discontinuous Galerkin method for the time-accurate numerical solution of hyperbolic conservation laws. , 1995, , .		26
475	High resolution schemes for rarefied gas dynamics using kinetic model equations. , 1995, , .		0
476	Progress towards an improved CFD method - AUSM+. , 1995, , .		61
477	Implicit high-order finite volume Euler solver using multi-block structured grids. , 1995, , .		2
478	Flux limited dissipation schemes for high speed unsteady flows. , 1995, , .		4
479	Effects of sonic line transition on aerothermodynamics of the Mars Pathfinder Probe. , 1995, , .		8
480	Hypersonic aerodynamic characteristics of a proposed single-stage-to-orbit vehicle. , 1995, , .		0
481	Application of ENO schemes to rotary wing problems. , 1995, , .		5
482	New high-order semi-implicit Runge-Kutta schemes for computing transient nonequilibrium hypersonic flows. , 1995, , .		6
483	Launch vehicle simulations using a concurrent, implicit Navier-Stokes solver. , 1995, , .		2
484	SPLITFLOW - A 3D unstructured Cartesian/prismatic grid CFD code for complex geometries. , 1995, , .		22
485	Fin-interference effects on the aerodynamics of a swept-fin missile. , 1995, , .		1
486	ANALYSIS AND DESIGN OF NUMERICAL SCHEMES FOR GAS DYNAMICS, 1: ARTIFICIAL DIFFUSION, UPWIND BIASING, LIMITERS AND THEIR EFFECT ON ACCURACY AND MULTIGRID CONVERGENCE. International Journal of Computational Fluid Dynamics, 1995, 4, 171-218.	0.5	349
487	Solid rocket motor internal flow during ignition. Journal of Propulsion and Power, 1995, 11, 489-496.	1.3	35
488	First- and Second-Order Flux Difference Splitting Schemes for Dam-Break Problem. Journal of Hydraulic Engineering, 1995, 121, 877-884.	0.7	60

#	ARTICLE	IF	CITATIONS
489	Accurate Upwind Methods for the Euler Equations. SIAM Journal on Numerical Analysis, 1995, 32, 1565-1619.	1.1	79
490	Flow-structural interaction inside a solid rocket motor during ignition transient. Journal of Propulsion and Power, 1995, 11, 998-1005.	1.3	8
491	Optimized Locally Exact Numerical Scheme Based on Finite Variable Difference Method and Characteristic Polynomial Analysis Method. Journal of Nuclear Science and Technology, 1995, 32, 42-49.	0.7	6
492	STEADY RELAXATION METHODS FOR UNSTRUCTURED MULTIGRID EULER AND NAVIER-STOKES SOLUTIONS. International Journal of Computational Fluid Dynamics, 1995, 5, 137-167.	0.5	5
493	Behavior of linear reconstruction techniques on unstructured meshes. AIAA Journal, 1995, 33, 2038-2049.	1.5	91
494	Numerical investigation of the propagation of shock waves in rigid porous materials: development of the computer code and comparison with experimental results. Journal of Fluid Mechanics, 1996, 324, 163-179.	1.4	34
495	SPATIAL DIFFERENCING SCHEMES OF THE DISCRETE-ORDINATES METHOD. Numerical Heat Transfer, Part B: Fundamentals, 1996, 30, 23-43.	0.6	69
496	An Extended Finite Variable Difference Method with Application to QUICK Scheme. Journal of Nuclear Science and Technology, 1996, 33, 464-473.	0.7	1
497	High-Resolution Conservative Algorithms for Advection in Incompressible Flow. SIAM Journal on Numerical Analysis, 1996, 33, 627-665.	1.1	580
498	THE NORMALIZED WEIGHTING FACTOR METHOD: A NOVEL TECHNIQUE FOR ACCELERATING THE CONVERGENCE OF HIGH-RESOLUTION CONVECTIVE SCHEMES. Numerical Heat Transfer, Part B: Fundamentals, 1996, 30, 217-237.	0.6	31
499	Characteristic-based pressure correction at all speeds. AIAA Journal, 1996, 34, 272-280.	1.5	21
500	Euler and Navier-Stokes equations for compressible flows. , 1996, , 159-282.		7
501	Heliospheric termination shock motion due to fluctuations in the solar wind upstream conditions: Spherically symmetric model. Journal of Geophysical Research, 1996, 101, 27483-27497.	3.3	14
502	Impulsive plasmoid penetration of a tangential discontinuity: Two-dimensional ideal and Hall magnetohydrodynamics. Journal of Geophysical Research, 1996, 101, 24855-24868.	3.3	13
503	About the basic numerical methods. , 1996, , 1-23.		1
504	Inviscid and viscous analysis of three-dimensional turbomachinery flows using an implicit upwind algorithm. , 1996, , .		4
505	Some internal flow applications of a unified-grid CFD methodology. , 1996, , .		42
506	A space-time reconstruction algorithm for steady and unsteady and Euler equations. , 1996, , .		1

#	ARTICLE	IF	CITATIONS
507	Exponential box schemes for boundary-layer flows with blowing. , 1996, , .		0
508	High resolution Euler solvers based on the space-time conservation element and solution element method. , 1996, , .		6
509	Flow-structural analysis of the Ariane 5 solid rocket motor during ignition transient. , 1996, , .		2
510	A Nonlocally Exact Finite Difference Scheme. Journal of Nuclear Science and Technology, 1996, 33, 747-749.	0.7	0
512	Chapter 2. APPROACHES TO MODELING OF REACTIVE TRANSPORT IN POROUS MEDIA. , 1996, , 83-130.		119
513	A MUSCL method satisfying all the numerical entropy inequalities. Mathematics of Computation, 1996, 65, 1439-1462.	1.1	59
514	Simulation of Transients in Natural Gas Pipelines. SPE Production and Operations, 1996, 11, 202-208.	0.6	8
515	Analytic corrections to CFD heating predictions accounting for changes in surface catalysis. , 1996, , .		0
516	A Locally Exact Numerical Scheme with Nonoscillation Properties for Stationary Transport Equations with Absorption and Source Terms. Nuclear Science and Engineering, 1996, 123, 57-67.	0.5	3
517	Advection schemes for shelf sea models. Journal of Marine Systems, 1996, 8, 237-254.	0.9	121
518	Geometric Heat Equation and Nonlinear Diffusion of Shapes and Images. Computer Vision and Image Understanding, 1996, 64, 305-322.	3.0	80
519	A note on the effect of artificial viscosity on solutions of conservation laws. Applied Numerical Mathematics, 1996, 21, 155-173.	1.2	7
520	The modeling and numerical simulation of gas flow networks. Numerische Mathematik, 1996, 72, 349-366.	0.9	10
521	A non-parameterized entropy correction for Roe's approximate Riemann solver. Numerische Mathematik, 1996, 73, 169-208.	0.9	13
522	Wave propagation by the passage of two high-speed trains in a tunnel. Forschung Im Ingenieurwesen/Engineering Research, 1996, 62, 105-115.	1.0	1
523	A high-resolution hybrid scheme for solving three dimensional euler equations of high speed inlet flows. Journal of Thermal Science, 1996, 5, 164-167.	0.9	0
524	NUMERICAL SOLUTIONS OF ONE-DIMENSIONAL MHD EQUATIONS BY A FLUCTUATION APPROACH. International Journal for Numerical Methods in Fluids, 1996, 22, 569-580.	0.9	18
525	ON THE CONSTRUCTION OF A THIRD-ORDER ACCURATE MONOTONE CONVECTION SCHEME WITH APPLICATION TO TURBULENT FLOWS IN GENERAL DOMAINS. International Journal for Numerical Methods in Fluids, 1996, 22, 619-641.	0.9	30

#	ARTICLE	IF	CITATIONS
526	FULLY DISCRETE HIGH-ORDER SHOCK-CAPTURING NUMERICAL SCHEMES. International Journal for Numerical Methods in Fluids, 1996, 23, 241-269.	0.9	8
527	A CELL VERTEX ALGORITHM FOR THE INCOMPRESSIBLE NAVIER-STOKES EQUATIONS ON NON-ORTHOGONAL GRIDS. International Journal for Numerical Methods in Fluids, 1996, 23, 271-293.	0.9	20
528	TWO-DIMENSIONAL SOLUTIONS OF MHD EQUATIONS WITH AN ADAPTED ROE METHOD. International Journal for Numerical Methods in Fluids, 1996, 23, 1211-1222.	0.9	13
529	A hybrid numerical method for the shallow water equations with source term. Numerical Methods for Partial Differential Equations, 1996, 12, 75-83.	2.0	0
530	DEVELOPMENT OF LONGITUDINAL GAS OSCILLATIONS IN A CLOSED TUBE. Journal of Sound and Vibration, 1996, 195, 359-374.	2.1	17
531	A higher-order Godunov scheme coupled with dynamic local grid refinement for flow in a porous medium. Computer Methods in Applied Mechanics and Engineering, 1996, 131, 287-308.	3.4	37
532	Computations of nonlinear wave interaction in shock-wave focusing process using finite volume TVD schemes. Computers and Fluids, 1996, 25, 509-525.	1.3	9
533	Analysis of hypersonic shock-wave laminar boundary-layer interaction phenomena. Computers and Fluids, 1996, 25, 561-581.	1.3	42
534	Development of pressure-based composite multigrid methods for complex fluid flows. Progress in Aerospace Sciences, 1996, 32, 313-375.	6.3	34
535	A difference scheme with anti-diffusion terms to improve the computation of contact discontinuities and the study of weak discontinuities in compressible flow. Communications in Nonlinear Science and Numerical Simulation, 1996, 1, 40-49.	1.7	0
536	Multimesh and multiresolution analysis for mesh adaptive interpolation. Applied Numerical Mathematics, 1996, 22, 477-493.	1.2	4
537	On the refraction of shock wave over a slow-fast gas interface. Acta Astronautica, 1996, 38, 829-838.	1.7	10
538	Computation of free surface flows. Part III. Steady supercritical flow using a generalized lagrangian method. Journal of Hydraulic Research/De Recherches Hydrauliques, 1996, 34, 77-98.	0.7	3
539	Finite Larmor radius magnetohydrodynamics of the Rayleigh-Taylor instability. Physics of Plasmas, 1996, 3, 2523-2532.	0.7	43
540	Instability of a contact surface driven by a nonuniform shock wave. Physical Review E, 1996, 53, R5592-R5595.	0.8	37
541	CONVECTION TREATMENT AND PRESSURE SPLITTING FOR SEQUENTIAL SOLUTION PROCEDURES, PART I: THEORY AND ONE-DIMENSIONAL TEST CASES. Numerical Heat Transfer, Part B: Fundamentals, 1996, 29, 1-27.	0.6	6
542	Hypersonic aerodynamic characteristics of a proposed single-stage-to-orbit vehicle. Journal of Spacecraft and Rockets, 1996, 33, 463-469.	1.3	6
543	Nonoscillatory schemes for kinetic model equations for gases with internal energy states. AIAA Journal, 1996, 34, 2071-2081.	1.5	10

#	ARTICLE	IF	CITATIONS
544	Launch-vehicle simulations using a concurrent, implicit Navier-Stokes solver. Journal of Spacecraft and Rockets, 1996, 33, 601-606.	1.3	10
545	Efficient, robust second-order total variation diminishing scheme. AIAA Journal, 1996, 34, 193-195.	1.5	4
546	Reduction of fluctuating pressure loads in shock/boundary-layer interactions using vortex generators. II. AIAA Journal, 1996, 34, 195-197.	1.5	5
547	Simulation of multiple shock-shock interference patterns on a cylindrical leading edge. AIAA Journal, 1996, 34, 764-771.	1.5	9
548	Influence of sonic-line location on Mars Pathfinder Probe aerothermodynamics. Journal of Spacecraft and Rockets, 1996, 33, 169-177.	1.3	75
549	High-resolution, nonoscillatory schemes with modified ACM for linear wave and Euler equations. , 1996, , .		0
550	A parallel cosmological hydrodynamics code. , 1996, , .		0
551	MONOTONIC, MULTIDIMENSIONAL FLUX DISCRETIZATION SCHEME FOR ALL PECLET NUMBERS. Numerical Heat Transfer, Part B: Fundamentals, 1997, 31, 441-457.	0.6	9
552	Comparison of second-order accurate TVD scheme and p-version space-time least-squares finite-element method for nonlinear hyperbolic problems. , 0, , .		0
553	Numerical Analysis of a Swept-Fin Missile. Journal of Spacecraft and Rockets, 1997, 34, 152-157.	1.3	0
554	Upwind and High-Resolution Schemes. , 1997, , .		27
555	Finite Volume Scheme With Quadratic Reconstruction on Unstructured Adaptive Meshes Applied to Turbomachinery Flows. Journal of Turbomachinery, 1997, 119, 263-269.	0.9	8
556	Dependence of Steady Mach Reflections on the Reflecting-Wedge Trailing-Edge Angle. AIAA Journal, 1997, 35, 1780-1782.	1.5	9
557	Stabilization of Supersonic Combustion by a Free Recirculating Bubble: A Numerical Study. AIAA Journal, 1997, 35, 1782-1784.	1.5	7
558	Shock Fitting and Numerical Modeling of Detonation Waves. International Journal of Modern Physics C, 1997, 08, 1193-1207.	0.8	2
559	The simulation of gas dynamics in engine manifolds using non-linear symmetric difference schemes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1997, 211, 601-616.	1.1	9
560	Bounded, High-Resolution Differencing Schemes Applied to the Discrete Ordinates Method. Journal of Thermophysics and Heat Transfer, 1997, 11, 540-548.	0.9	54
561	Practical Three-Dimensional Aerodynamic Design and Optimization Using Unstructured Meshes. AIAA Journal, 1997, 35, 1479-1485.	1.5	113

#	ARTICLE	IF	CITATIONS
562	Hypersonic Thermal Environment of a Proposed Single-Stage-to-Orbit Vehicle. <i>Journal of Spacecraft and Rockets</i> , 1997, 34, 697-704.	1.3	5
563	Continuation Method for Calculation of Transonic Airfoil Flutter Boundaries. <i>Journal of Guidance, Control, and Dynamics</i> , 1997, 20, 1165-1171.	1.6	12
564	The MHD Kelvin-Helmholtz Instability. II. The Roles of Weak and Oblique Fields in Planar Flows. <i>Astrophysical Journal</i> , 1997, 482, 230-244.	1.6	76
565	COMPARISON OF A STOCHASTIC PARTICLE METHOD AND A FINITE VOLUME DETERMINISTIC METHOD APPLIED TO BURGERS EQUATION. <i>Monte Carlo Methods and Applications</i> , 1997, 3, 113-140.	0.3	13
566	A fast, high resolution, second-order central scheme for incompressible flows. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 4848-4852.	3.3	33
567	Hydraulic Analysis of Undular Bore in Open Channels with Circular Cross Section. <i>Proceedings of Hydraulic Engineering</i> , 1997, 41, 645-650.	0.0	5
568	Theoretical Analysis of Separating Nitrogen Isotopes by Ion-Exchange. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 277-282.	0.7	9
569	A general class of difference approximation for scalar conservation laws converging to the entropy solution and including high resolution ones. , 1997, , 57-62.		0
570	Large eddy simulation of unsteady, compressible, separated flow around NACA 0012 airfoil. , 1997, , 424-429.		3
571	Versatile Advection Code. <i>Lecture Notes in Computer Science</i> , 1997, , 253-262.	1.0	15
572	Numerical investigation of the propagation of shock waves in rigid porous materials. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 801-813.	1.6	7
573	Implicit CIP (Cubic-Interpolated Propagation) Method in Two Dimensions.. <i>JSME International Journal Series B</i> , 1997, 40, 365-376.	0.3	2
574	Hydrodynamics of Cloud Collisions in Two Dimensions: The Fate of Clouds in a Multiphase Medium. <i>Astrophysical Journal</i> , 1997, 491, 216-232.	1.6	27
575	The Protogalactic Origin for Cosmic Magnetic Fields. <i>Astrophysical Journal</i> , 1997, 480, 481-491.	1.6	392
576	Multi-dimensional monotone flux discretization scheme for convection dominated flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 814-842.	1.6	2
577	On Forward-in-Time Differencing for Fluids: an Eulerian/Semi-Lagrangian Non-Hydrostatic Model for Stratified Flows. <i>Atmosphere - Ocean</i> , 1997, 35, 127-152.	0.6	137
578	A NEW FAMILY OF STREAMLINE-BASED VERY-HIGH-RESOLUTION SCHEMES. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1997, 32, 299-320.	0.6	17
579	ON A MONOTONIC CONVECTION-DIFFUSION SCHEME IN ADAPTIVE MESHES. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1997, 32, 351-368.	0.6	3

#	ARTICLE	IF	CITATIONS
580	An accurate numerical algorithm for solving compressible three-phase flows in porous media. <i>Applicable Analysis</i> , 1997, 66, 57-88.	0.6	3
581	NUMERICAL COMPUTATION OF UNSTEADY GAS FLOW IN THE DUCTS OF RECIPROCATING ENGINES. <i>Numerical Heat Transfer; Part A: Applications</i> , 1997, 32, 769-785.	1.2	1
582	TVD Schemes, Positive Schemes, and the Universal Limiter. <i>Monthly Weather Review</i> , 1997, 125, 1990-1993.	0.5	53
583	Simulation of nonequilibrium separated flows. , 1997, , .		0
584	Quadratic-Reconstruction Finite Volume Scheme for Compressible Flows on Unstructured Adaptive Grids. <i>AIAA Journal</i> , 1997, 35, 631-639.	1.5	46
585	Simulation of separated flows on the base of differential turbulence model. , 1997, , .		4
586	Parallelization of the Euler equations on unstructured grids. , 1997, , .		21
587	Comparison of several dissipation algorithms for central difference schemes. , 1997, , .		16
588	Accelerating three-dimensional Navier-Stokes calculations. , 1997, , .		25
589	Rarefied flow instability simulation using model Boltzmann equations. , 1997, , .		3
590	Numerical analysis of hypersonic viscous flow around a blunt body using Roe's FDS and AUSM+ schemes. , 1997, , .		7
591	A kinetic flux splitting method for gas dynamics based on beam scheme. , 1997, , .		0
592	CFD calculations of high-temperature incendiaries. , 1997, , .		0
593	Numerical solutions of the eight-wave structure ideal MHD equations by modified Runge-Kutta scheme with TVD. , 1997, , .		15
594	Computational aerothermodynamic design issues for hypersonic vehicles. , 1997, , .		23
595	Performance study of turbulence models for heat transfer predictions. , 1997, , .		4
596	Numerical simulation of HSCT inlet operability with angle of attack. , 1997, , .		8
597	Unsteady analysis and re-design of a centrifugal compressor stage using a CFD optimizer. , 1997, , .		1

#	ARTICLE	IF	CITATIONS
598	An accurate LED-BGK solver on unstructured adaptive meshes. , 1997, , .		0
599	A preconditioned implicit multigrid algorithm for parallel computation of unsteady aeroelastic compressible flows. , 1997, , .		6
600	A 'grid-transparent' methodology for CFD. , 1997, , .		69
601	A simplified model for linear and nonlinear processes in thermoacoustic prime movers. Part II. Nonlinear oscillations. Journal of the Acoustical Society of America, 1997, 102, 3497-3506.	0.5	40
602	Numerical and experimental water transients in sewer pipes. Journal of Hydraulic Research/De Recherches Hydrauliques, 1997, 35, 659-672.	0.7	68
603	An Iterative Riemann Solver for Relativistic Hydrodynamics. SIAM Journal of Scientific Computing, 1997, 18, 982-995.	1.3	33
604	An Accurate and Robust Flux Splitting Scheme for Shock and Contact Discontinuities. SIAM Journal of Scientific Computing, 1997, 18, 633-657.	1.3	235
605	A High-Order Godunov-Type Scheme for Shock Interactions in Ideal Magnetohydrodynamics. SIAM Journal of Scientific Computing, 1997, 18, 957-981.	1.3	30
606	High-Throughput TVD-Based Simulation of Tracer Flow. SPE Journal, 1997, 2, 254-267.	1.7	4
607	Tensor-GMRES Method for Large Systems of Nonlinear Equations. SIAM Journal on Optimization, 1997, 7, 757-779.	1.2	15
608	Numerical advection schemes, cross-isentropic random walks, and correlations between chemical species. Journal of Geophysical Research, 1997, 102, 6775-6797.	3.3	42
609	Modeling of Vertical Bubble-Driven Flows. Industrial & Engineering Chemistry Research, 1997, 36, 4052-4074.	1.8	235
610	Hydrodynamic Collimation of YSO Jets. Symposium - International Astronomical Union, 1997, 182, 291-302.	0.1	0
611	Computational parametric study of chemically nonequilibrium reacting flows in impulsive facilities. , 1997, , .		0
612	Investigation of 3D shock focusing effects with a TVD-upwind scheme for the navier stokes equation. , 1997, , 444-449.		0
613	Zero-Energy Rotating Accretion Flows near a Black Hole. Astrophysical Journal, 1997, 474, 378-388.	1.6	105
614	Second-order scheme for the scalar nonlinear conservation laws with flux depending on the space variable. Computers and Mathematics With Applications, 1997, 33, 51-57.	1.4	0
615	Numerical simulation and experimental research on the effect of syneresis on the propagation of shock waves in a gas-liquid foam. Technical Physics, 1997, 42, 1241-1248.	0.2	4

#	ARTICLE	IF	CITATIONS
616	FDTHERM: A FORTRAN 77 solver for 2-D low-speed flows with buoyancy effects. Computers and Geosciences, 1997, 23, 139-151.	2.0	0
617	The "front limitation"™ algorithm A new and fast finite-difference method for groundwater pollution problems. Journal of Contaminant Hydrology, 1997, 27, 43-61.	1.6	11
618	Modelling and Numerical Simulations of Contaminant Transport in Naturally Fractured Porous Media. Transport in Porous Media, 1997, 26, 25-49.	1.2	10
619	Simulation of oscillation modes in a supersonic unratred jet impinging on a cavity. Computational Mathematics and Modeling, 1997, 8, 393-399.	0.2	0
620	Unsteady shock waves in supersonic nozzles. Journal of Mechanical Science and Technology, 1997, 11, 96-105.	0.4	3
621	A convection scheme sensitized to the convection direction of a scalar quantity. Journal of Mechanical Science and Technology, 1997, 11, 106-114.	0.4	1
622	An explicit flux-form semi-Lagrangian shallow-water model on the sphere. Quarterly Journal of the Royal Meteorological Society, 1997, 123, 2477-2498.	1.0	279
623	A hybrid finite element scheme for inviscid supersonic flows. Applied Mathematics and Mechanics (English Edition), 1997, 18, 739-748.	1.9	0
624	Carbuncle phenomenon: On upwind schemes in multidimensions. Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy, 1997, 325, 339-346.	0.1	0
625	A new averaging scheme for the riemann problem in pure water. Mathematical and Computer Modelling, 1997, 25, 25-36.	2.0	2
626	A new finite variable difference method with application to nonlinear Burgers' equation. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2169-2180.	0.6	2
627	Shock formation by compressible vortex ring impinging on a wall. Fluid Dynamics Research, 1997, 21, 139-157.	0.6	29
628	Informationsverlust, abstrakte Entropie und die mathematische Beschreibung des zweiten Hauptsatzes der Thermodynamik. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1997, 77, 803-821.	0.9	3
629	On the construction of essentially non-oscillatory finite volume approximations to hyperbolic conservation laws on general triangulations: polynomial recovery, accuracy and stencil selection. Computer Methods in Applied Mechanics and Engineering, 1997, 140, 157-181.	3.4	89
630	A conservative fractional step method to solve non-isentropic Euler equations. Computer Methods in Applied Mechanics and Engineering, 1997, 144, 199-225.	3.4	12
631	Design of an unconditionally stable, positive scheme for the K- μ and two-layer turbulence models. Computers and Fluids, 1997, 26, 469-487.	1.3	24
632	Front tracking for two-phase flow in reservoir simulation by adaptive mesh. Numerical Methods for Partial Differential Equations, 1997, 13, 673-697.	2.0	2
633	AN ACCURATE FINITE DIFFERENCE SCHEME FOR SOLVING CONVECTION-DOMINATED DIFFUSION EQUATIONS. International Journal for Numerical Methods in Fluids, 1997, 24, 169-183.	0.9	13

#	ARTICLE	IF	CITATIONS
634	ANALYSIS AND IMPLEMENTATION OF THE GAS-KINETIC BGK SCHEME FOR COMPUTATIONAL GAS DYNAMICS. International Journal for Numerical Methods in Fluids, 1997, 25, 21-49.	0.9	17
635	On the relation between the entropy balance and the numerical solutions of systems of conservation laws. International Journal for Numerical Methods in Fluids, 1997, 25, 825-845.	0.9	1
636	A bounded convection scheme for the overlapping control volume approach. International Journal for Numerical Methods in Fluids, 1997, 25, 1137-1161.	0.9	2
637	A Well-Behaved TVD Limiter for High-Resolution Calculations of Unsteady Flow. Journal of Computational Physics, 1997, 132, 3-11.	1.9	75
638	Explicit Time Marching Methods for the Time-Dependent Euler Computations. Journal of Computational Physics, 1997, 130, 191-202.	1.9	10
639	An Implicit Scheme for Nonideal Magnetohydrodynamics. Journal of Computational Physics, 1997, 130, 231-242.	1.9	60
640	Moving Mesh Methods with Upwinding Schemes for Time-Dependent PDEs. Journal of Computational Physics, 1997, 131, 368-377.	1.9	65
641	Correction of Conservative Euler Solvers for Gas Mixtures. Journal of Computational Physics, 1997, 132, 91-107.	1.9	71
642	Uniformly High Order Accurate Essentially Non-oscillatory Schemes, III. Journal of Computational Physics, 1997, 131, 3-47.	1.9	189
643	Wavenumber-Extended High-Order Upwind-Biased Finite-Difference Schemes for Convective Scalar Transport. Journal of Computational Physics, 1997, 133, 235-255.	1.9	75
644	A Second-Order Unsplit Godunov Scheme for Two- and Three-Dimensional Euler Equations. Journal of Computational Physics, 1997, 134, 261-281.	1.9	10
645	A Numerical Scheme for Transport Equations with Spatially Distributed Coefficients Based on Locally Exact Difference Method. Journal of Computational Physics, 1997, 134, 332-341.	1.9	5
646	A Kinetic Beam Scheme for Relativistic Gas Dynamics. Journal of Computational Physics, 1997, 136, 19-40.	1.9	33
647	Preconditioned Multigrid Methods for Compressible Flow Calculations on Stretched Meshes. Journal of Computational Physics, 1997, 136, 425-445.	1.9	91
648	A 2D Analysis of the Influence of Artificial Viscosity Terms on Solutions of the Euler Equations. Journal of Computational Physics, 1997, 138, 103-120.	1.9	6
649	Interpolated differential operator (IDO) scheme for solving partial differential equations. Computer Physics Communications, 1997, 102, 132-146.	3.0	44
650	MAG - two-dimensional resistive MHD code using an arbitrary moving coordinate system. Computer Physics Communications, 1997, 106, 76-94.	3.0	10
651	Essentially non-oscillatory and weighted essentially non-oscillatory schemes for hyperbolic conservation laws. Lecture Notes in Mathematics, 1998, , 325-432.	0.1	803

#	ARTICLE	IF	CITATIONS
652	The effects of limiters on high resolution computations of hypersonic flows over bodies with complex shapes. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 1998, 3, 82-87.	1.7	10
653	Shock capturing with Padé methods. <i>Applied Mathematics and Computation</i> , 1998, 89, 85-98.	1.4	6
654	Numerical simulation of ultra-relativistic, heavy-ion collisions. <i>Applied Mathematics and Computation</i> , 1998, 89, 275-293.	1.4	0
655	A Unified Method for Computing Incompressible and Compressible Flows in Boundary-Fitted Coordinates. <i>Journal of Computational Physics</i> , 1998, 141, 153-173.	1.9	127
656	Second-Order Upwinding through a Characteristic Time-Step Matrix for Compressible Flow Calculations. <i>Journal of Computational Physics</i> , 1998, 142, 445-472.	1.9	17
657	Convex ENO High Order Multi-dimensional Schemes without Field by Field Decomposition or Staggered Grids. <i>Journal of Computational Physics</i> , 1998, 142, 304-330.	1.9	141
658	Numerical Simulations for Radiation Hydrodynamics. I. Diffusion Limit. <i>Journal of Computational Physics</i> , 1998, 142, 182-207.	1.9	31
659	A Simple Finite Difference Scheme for Multidimensional Magnetohydrodynamical Equations. <i>Journal of Computational Physics</i> , 1998, 142, 331-369.	1.9	145
660	Multidimensional Upwinding. Part I. The Method of Transport for Solving the Euler Equations. <i>Journal of Computational Physics</i> , 1998, 143, 159-180.	1.9	67
661	A Robust and Accurate LED-BGK Solver on Unstructured Adaptive Meshes. <i>Journal of Computational Physics</i> , 1998, 143, 598-627.	1.9	26
662	Formulations of Artificial Viscosity for Multi-dimensional Shock Wave Computations. <i>Journal of Computational Physics</i> , 1998, 144, 70-97.	1.9	227
663	Development of a High-Resolution Scheme for a Multi-dimensional Advection-Diffusion Equation. <i>Journal of Computational Physics</i> , 1998, 144, 1-16.	1.9	6
664	Multidimensional Dissipation for Upwind Schemes: Stability and Applications to Gas Dynamics. <i>Journal of Computational Physics</i> , 1998, 145, 511-537.	1.9	165
665	On Some Numerical Dissipation Schemes. <i>Journal of Computational Physics</i> , 1998, 147, 518-544.	1.9	78
666	General purpose versus special algorithms for high-speed flows with shocks. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 27, 57-80.	0.9	18
667	TVD schemes for open channel flow. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 26, 791-809.	0.9	53
668	Calculation of laminar flows with second-order schemes and collocated variable arrangement. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 26, 887-905.	0.9	7
669	On monotonicity of difference schemes. <i>Siberian Mathematical Journal</i> , 1998, 39, 959-972.	0.2	9

#	ARTICLE	IF	CITATIONS
670	On strong monotonicity of three-point difference schemes. Siberian Mathematical Journal, 1998, 39, 1174-1183.	0.2	4
671	Numerical analysis and construction of limiter of high resolution difference scheme. Applied Mathematics and Mechanics (English Edition), 1998, 19, 677-686.	1.9	2
672	High-order accurate and high-resolution upwind finite volume scheme for solving euler/reynolds-averaged Navier-Stokes equations. Acta Mechanica Sinica/Lixue Xuebao, 1998, 14, 10-17.	1.5	0
673	Third order nonoscillatory central scheme for hyperbolic conservation laws. Numerische Mathematik, 1998, 79, 397-425.	0.9	163
674	A Godunov-type finite volume method for the system of Shallow water equations. Computer Methods in Applied Mechanics and Engineering, 1998, 151, 105-129.	3.4	72
675	Flowfield-dependent mixed explicit-implicit (FDMEI) methods for high and low speed and compressible and incompressible flows. Computer Methods in Applied Mechanics and Engineering, 1998, 151, 75-104.	3.4	18
676	Eulerian finite element methods for the micromechanics of heterogeneous materials: Dynamic prioritization of material interfaces. Computer Methods in Applied Mechanics and Engineering, 1998, 151, 343-360.	3.4	29
677	Hybrid upwind methods for the simulation of unsteady shock-wave diffraction over a cylinder. Computer Methods in Applied Mechanics and Engineering, 1998, 162, 165-185.	3.4	64
678	A symmetric formulation for computing transient shallow water flows. Computer Methods in Applied Mechanics and Engineering, 1998, 163, 111-122.	3.4	27
679	Stable time step estimation for multi-material Eulerian hydrocodes. Computer Methods in Applied Mechanics and Engineering, 1998, 167, 191-205.	3.4	25
680	Criteria for the design of limiters yielding efficient high resolution TVD schemes. Computers and Fluids, 1998, 27, 183-197.	1.3	34
681	An approximate Riemann solver for a two-phase flow model with numerically given slip relation. Computers and Fluids, 1998, 27, 455-477.	1.3	48
682	An improvement of AUSM schemes by introducing the pressure-based weight functions. Computers and Fluids, 1998, 27, 311-346.	1.3	90
683	Distributed-memory computing with the Langley Aerothermodynamic Upwind Relaxation Algorithm (LAURA). Advances in Engineering Software, 1998, 29, 317-324.	1.8	12
684	Numerical investigations of internal supersonic jet targets formation for storage rings. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 413, 447-456.	0.7	23
685	A non-oscillatory scheme for open channel flows. Advances in Water Resources, 1998, 22, 133-143.	1.7	7
686	The Travelling Wave Scheme for The Navier-Stokes Equations. SIAM Journal on Numerical Analysis, 1998, 35, 1249-1270.	1.1	3
687	A High-Order Iterative Implicit-Explicit Hybrid Scheme for Magnetohydrodynamics. SIAM Journal of Scientific Computing, 1998, 19, 1827-1846.	1.3	6

#	ARTICLE	IF	CITATIONS
688	Convergence Analysis for Operator-Splitting Methods Applied to Conservation Laws with Stiff Source Terms. SIAM Journal on Numerical Analysis, 1998, 35, 1939-1968.	1.1	21
689	Nonclassical Shocks and Kinetic Relations: Finite Difference Schemes. SIAM Journal on Numerical Analysis, 1998, 35, 2169-2194.	1.1	63
690	Nonoscillatory Central Schemes for Multidimensional Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 1998, 19, 1892-1917.	1.3	295
691	Approximation of the Solution to a System Modeling Heatless Adsorption of Gases. SIAM Journal on Numerical Analysis, 1998, 35, 13-30.	1.1	6
692	Diffusive Relaxation Schemes for Multiscale Discrete-Velocity Kinetic Equations. SIAM Journal on Numerical Analysis, 1998, 35, 2405-2439.	1.1	140
693	On the Analysis of Finite Volume Methods for Evolutionary Problems. SIAM Journal on Numerical Analysis, 1998, 35, 2195-2222.	1.1	39
694	Modelling and simulation of multicomponent nonlinear chromatography. Computers and Chemical Engineering, 1998, 22, 259-281.	2.0	5
695	Application of Relaxation Scheme to Wave-Propagation Simulation in Open-Channel Networks. Journal of Hydraulic Engineering, 1998, 124, 1125-1133.	0.7	27
696	NEW FAMILY OF ADAPTIVE VERY HIGH RESOLUTION SCHEMES. Numerical Heat Transfer, Part B: Fundamentals, 1998, 34, 215-239.	0.6	8
698	Total variation diminishing Runge-Kutta schemes. Mathematics of Computation, 1998, 67, 73-85.	1.1	1,803
699	Method for Noise Suppressing Nozzle Calculation and First Results of Its Implementation. Journal of Propulsion and Power, 1998, 14, 101-109.	1.3	5
700	On the problem of the heliospheric interface response to the cycles of the solar activity. Geophysical Research Letters, 1998, 25, 4051-4054.	1.5	27
701	Influence of iron oxide inclusion shape on Coll/III EDTA reactive transport through spatially heterogeneous sediment. Water Resources Research, 1998, 34, 2501-2514.	1.7	20
702	The Harten Memorial Lecture-New Applications of Upwinding. Fluid Mechanics and Its Applications, 1998, , 1-31.	0.1	3
704	Unsplit WAF-Type Schemes for Three Dimensional Hyperbolic Conservation Laws. Fluid Mechanics and Its Applications, 1998, , 75-124.	0.1	3
705	Primitive, Conservative and Adaptive Schemes for Hyperbolic Conservation Laws. Fluid Mechanics and Its Applications, 1998, , 323-385.	0.1	20
706	High-Resolution Finite-Volume Method for Shallow Water Flows. Journal of Hydraulic Engineering, 1998, 124, 605-614.	0.7	174
707	The Use of TVD Limiters for Forward-in-Time Upstream-Biased Advection Schemes in Ocean Modeling. Monthly Weather Review, 1998, 126, 812-830.	0.5	98

#	ARTICLE	IF	CITATIONS
708	Transients in Gas-Condensate Natural Gas Pipelines. Journal of Energy Resources Technology, Transactions of the ASME, 1998, 120, 32-40.	1.4	8
709	Approximate solutions of nonlinear conservation laws. Lecture Notes in Mathematics, 1998, , 1-149.	0.1	39
710	Spurious numerical oscillations in numerical simulation of supersonic flows using shock capturing schemes. , 1998, , .		1
711	Numerical simulation of hypersonic inlet flows. , 1998, , .		8
712	The numerical oscillations caused by the boundaries treatments in the solution of the Euler quasi-one-dimensional model. , 1998, , .		0
713	Accurate computations of hypersonic flows using AUSMPW+ scheme and shock-aligned grid technique. , 1998, , .		15
714	Aerodynamic computations using the convective upstream split pressure scheme with local preconditioning. , 1998, , .		8
715	Physics and numerical simulation of shock wave turbulent boundary layer interactions. , 1998, , .		1
716	Towards Large Eddy Simulation of flows in complex geometries. , 1998, , .		12
717	Computation of flow in a compressor blade row by a third-order accurate high-resolution scheme. , 1998, , .		1
718	Hypersonic gaseous piston shock tunnel - Numerical and experimental results. , 1998, , .		4
719	Numerical solutions of ideal MHD equations for a symmetric blunt body at hypersonic speeds. , 1998, , .		12
720	Aeroheating predictions for X-34 using an inviscid-boundary layer method. , 1998, , .		21
721	A domain-decomposition method for airfoil flutter analysis. , 1998, , .		5
722	Higher-Order Flux-Limiting Schemes for the Finite Volume Computation of Incompressible Flow. International Journal of Computational Fluid Dynamics, 1998, 9, 89-109.	0.5	18
723	HIGH-ORDER NUMERICAL METHODS FOR UNSTEADY HYPERSONIC FLOW SIMULATIONS. , 1998, , 758-784.		0
724	High-Resolution Nonoscillatory Central Schemes with Nonstaggered Grids for Hyperbolic Conservation Laws. SIAM Journal on Numerical Analysis, 1998, 35, 2147-2168.	1.1	183
725	Nonlinear Conservation Laws and Finite Volume Methods. , 1998, , 1-159.		41

#	ARTICLE	IF	CITATIONS
726	Rayleighâ€”Taylor instability: Comparison of hybrid and nonideal magnetohydrodynamic simulations. <i>Physics of Plasmas</i> , 1998, 5, 2305-2316.	0.7	34
727	Efficient Computation of Unsteady Viscous Flows by an Implicit Preconditioned Multigrid Method. <i>AIAA Journal</i> , 1998, 36, 401-408.	1.5	16
728	Pressure-Based Compressible Calculation Method Utilizing Total Variation Diminishing Schemes. <i>AIAA Journal</i> , 1998, 36, 1652-1657.	1.5	39
729	Analytic Corrections to Computational Heating Predictions Accounting for Changes in Surface Catalysis. <i>Journal of Spacecraft and Rockets</i> , 1998, 35, 417-423.	1.3	11
730	Unstructured grid finite-element methods for fluid mechanics. <i>Reports on Progress in Physics</i> , 1998, 61, 569-638.	8.1	63
731	A Highâ€”Resolution Adaptive Moving Mesh Hydrodynamic Algorithm. <i>Astrophysical Journal, Supplement Series</i> , 1998, 115, 19-34.	3.0	61
732	A GENERAL CLASS OF DIFFERENCE APPROXIMATION FOR SCALAR CONSERVATION LAWS REALIZING BOTH HIGH RESOLUTION AND THE CONVERGENCE TO ENTROPY SOLUTION (An Analysis from the Viewpoint of) Tj ETQq0 0 0 rgBTdOverlock		
733	Quasi-Monotone Advection Schemes Based on Explicit Locally Adaptive Dissipation. <i>Monthly Weather Review</i> , 1998, 126, 1541-1580.	0.5	288
734	A finite volume scheme for twoâ€”dimensional chemically reactive hypersonic flow. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1998, 8, 888-933.	1.6	4
735	Hydraulic Transients with Interaction between Overland Surface Flows and Underground Channel Flows. <i>Journal of Applied Mechanics</i> , 1998, 1, 293-301.	0.1	0
736	SOME CONSIDERATIONS ON UNSTEADY FLOWS IN UNDERGROUND CHANNELS. <i>Proceedings of Hydraulic Engineering</i> , 1998, 42, 823-828.	0.0	0
737	Computational aeroheating predictions for X-34. , 1998, , .		8
738	An Analysis Method for Multistage Transonic Turbines With Coolant Mass Flow Addition. <i>Journal of Turbomachinery</i> , 1998, 120, 744-752.	0.9	8
739	The sonic point glitch problem: A numerical solution. , 1998, , 403-408.		7
740	Shock cavity implosion morphologies and vortical projectile generation in axisymmetric shockâ€”spherical fast/slow bubble interactions. <i>Journal of Fluid Mechanics</i> , 1998, 362, 327-346.	1.4	61
741	A Divergenceâ€”free Upwind Code for Multidimensional Magnetohydrodynamic Flows. <i>Astrophysical Journal</i> , 1998, 509, 244-255.	1.6	205
742	Effects of Cooling on the Propagation of Magnetized Jets. <i>Astrophysical Journal</i> , 1998, 494, L79-L83.	1.6	65
743	Where is the Doughnut? Luminous Blue Variable Bubbles and Aspherical Fast Winds. <i>Astrophysical Journal</i> , 1998, 500, 291-301.	1.6	42

#	ARTICLE	IF	CITATIONS
744	Maximizing the Torque Potential at Full Load of a 1.8 L Multivalve SI Engine. , 1998, , .		1
745	On Total Variation Diminishing Schemes for Pressure Transients. Journal of Energy Resources Technology, Transactions of the ASME, 1999, 121, 122-130.	1.4	6
746	Essentially non-oscillatory schemes for the Euler equations on unstructured meshes. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 1999, 213, 1-12.	0.7	0
747	Experiment-Modeling Comparison in a Nonequilibrium Supersonic Air Nozzle Flow. Journal of Thermophysics and Heat Transfer, 1999, 13, 68-75.	0.9	10
748	Numerical Simulation of Supersonic Plume in a Cowl-Plug Nozzle Configuration. International Journal of Turbo and Jet Engines, 1999, 16, .	0.3	0
749	A CONSERVATIVE ADAPTIVE-MESH ALGORITHM FOR UNSTEADY, COMBINED-MODE HEAT TRANSFER USING THE DISCRETE ORDINATES METHOD. Numerical Heat Transfer, Part B: Fundamentals, 1999, 35, 407-430.	0.6	26
750	Nonlinear dynamics of Kelvinâ€™Helmholtz unstable magnetized jets: Three-dimensional effects. Physics of Plasmas, 1999, 6, 1461-1469.	0.7	42
751	On Nonconservative Algorithms for Grid Interfaces. SIAM Journal on Numerical Analysis, 1999, 37, 173-193.	1.1	37
752	The Santa Barbara Cluster Comparison Project: A Comparison of Cosmological Hydrodynamics Solutions. Astrophysical Journal, 1999, 525, 554-582.	1.6	399
753	High Order ENO and WENO Schemes for Computational Fluid Dynamics. Lecture Notes in Computational Science and Engineering, 1999, , 439-582.	0.1	126
754	Computational Aeroheating Predictions for X-34. Journal of Spacecraft and Rockets, 1999, 36, 179-188.	1.3	17
755	Aeroheating Predictions for X-34 Using an Inviscid Boundary-Layer Method. Journal of Spacecraft and Rockets, 1999, 36, 206-215.	1.3	17
756	On an adaptive monotonic convectionâ€™diffusion flux discretization scheme. Computer Methods in Applied Mechanics and Engineering, 1999, 173, 201-215.	3.4	3
757	Flux-limiter schemes for oceanic tracers: application to the English Channel tidal model. Computer Methods in Applied Mechanics and Engineering, 1999, 179, 307-325.	3.4	19
758	Efficient time integration of Navierâ€™Stokes equations. Computers and Fluids, 1999, 28, 243-263.	1.3	10
759	Application of shock wave research to geophysics. Journal of Materials Processing Technology, 1999, 85, 4-10.	3.1	4
760	A nonoscillatory numerical scheme based on a general solution of 2-D unsteady advectionâ€™diffusion equations. Journal of Computational and Applied Mathematics, 1999, 108, 145-156.	1.1	2
761	The ZEUS code for astrophysical magnetohydrodynamics: new extensions and applications. Journal of Computational and Applied Mathematics, 1999, 109, 261-280.	1.1	7

#	ARTICLE	IF	CITATIONS
762	Derivation of Forchheimer terms and their verification by application to waves propagation in porous media. <i>International Journal of Multiphase Flow</i> , 1999, 25, 683-704.	1.6	24
763	Application of an element-by-element BiCGSTAB iterative solver to a monotonic finite element model. <i>Computers and Mathematics With Applications</i> , 1999, 37, 57-70.	1.4	3
764	Numerical investigation of 3D shock focusing effects on the basis of the Euler equation. <i>Computers and Fluids</i> , 1999, 28, 121-138.	1.3	0
765	An efficient implementation of flux formulae in multidimensional relativistic hydrodynamical codes. <i>Computer Physics Communications</i> , 1999, 120, 115-121.	3.0	17
766	Title is missing!. <i>Annals of Software Engineering</i> , 1999, 3, 161-183.	0.5	2
767	Contributions to Theoretical/Experimental Developments in Shock Waves Propagation in Porous Media. <i>Transport in Porous Media</i> , 1999, 34, 63-100.	1.2	7
768	Numerical simulations of nozzle starting process. <i>Shock Waves</i> , 1999, 9, 73-79.	1.0	32
769	Ignition of a cloud of metal particles in the continuum regime I. Adiabatic flow. <i>Combustion, Explosion and Shock Waves</i> , 1999, 35, 493-500.	0.3	4
770	Numerical simulation of gasdynamic processes and the dynamics of dust particles in catastrophic volcanic explosions by applying TVD schemes. <i>Journal of Engineering Physics and Thermophysics</i> , 1999, 72, 1179-1187.	0.2	0
771	Complete systems of conservation laws for two-layer shallow water models. <i>Journal of Applied Mechanics and Technical Physics</i> , 1999, 40, 796-804.	0.1	6
772	Numerical simulation of aerosol sampling from an air flow to an input tube. <i>Journal of Applied Mechanics and Technical Physics</i> , 1999, 40, 877-885.	0.1	0
773	Low-Dissipative High-Order Shock-Capturing Methods Using Characteristic-Based Filters. <i>Journal of Computational Physics</i> , 1999, 150, 199-238.	1.9	522
774	A Roe Scheme for Ideal MHD Equations on 2D Adaptively Refined Triangular Grids. <i>Journal of Computational Physics</i> , 1999, 150, 373-393.	1.9	7
775	A High-Order WENO Finite Difference Scheme for the Equations of Ideal Magnetohydrodynamics. <i>Journal of Computational Physics</i> , 1999, 150, 561-594.	1.9	254
776	Reminiscences about Difference Schemes. <i>Journal of Computational Physics</i> , 1999, 153, 6-25.	1.9	81
777	On the Use of Nonlinear Filtering, Artificial Viscosity, and Artificial Heat Transfer for Strong Shock Computations. <i>Journal of Computational Physics</i> , 1999, 153, 575-595.	1.9	5
778	A Solution-Adaptive Upwind Scheme for Ideal Magnetohydrodynamics. <i>Journal of Computational Physics</i> , 1999, 154, 284-309.	1.9	1,199
779	Multiresolution Schemes for the Reactive Euler Equations. <i>Journal of Computational Physics</i> , 1999, 154, 197-230.	1.9	23

#	ARTICLE	IF	CITATIONS
780	The Space-Time Conservation Element and Solution Element Method: A New High-Resolution and Genuinely Multidimensional Paradigm for Solving Conservation Laws. Journal of Computational Physics, 1999, 156, 89-136.	1.9	224
781	Multigrid solutions of the Euler and Navier-Stokes equations on unstructured grids. International Journal for Numerical Methods in Fluids, 1999, 29, 921-934.	0.9	2
782	Flux-corrected transport technique for open channel flow. International Journal for Numerical Methods in Fluids, 1999, 29, 951-973.	0.9	6
783	Implicit and semi-implicit schemes: Algorithms. , 1999, 30, 335-352.		34
784	Explicit finite volume non-oscillatory schemes for 2D transient free-surface flows. International Journal for Numerical Methods in Fluids, 1999, 30, 831-843.	0.9	29
785	High resolution NVD differencing scheme for arbitrarily unstructured meshes. International Journal for Numerical Methods in Fluids, 1999, 31, 431-449.	0.9	466
786	MOSQUITO: An efficient finite difference scheme for numerical simulation of 2D advection. International Journal for Numerical Methods in Fluids, 1999, 31, 481-496.	0.9	14
787	The numerical simulations of explosion and implosion in air: use of a modified Harten's TVD scheme. International Journal for Numerical Methods in Fluids, 1999, 31, 661-680.	0.9	24
788	Towards a coastal ocean prediction system for the Danish domestic waters. Coastal and Estuarine Studies, 1999, , 195-222.	0.4	1
789	Generalized monotone schemes, discrete paths of extrema, and discrete entropy conditions. Mathematics of Computation, 1999, 68, 1025-1056.	1.1	19
790	Computational Aerothermodynamic Design Issues for Hypersonic Vehicles. Journal of Spacecraft and Rockets, 1999, 36, 21-43.	1.3	103
791	Analytical and computational study of wall temperature jumps in supersonic flow. , 1999, , .		1
792	Construction of 'solution adaptive schemes' based on the examination of TV-stability. , 1999, , .		0
793	An adaptive quick-based scheme to approximate convective transport. , 1999, , .		0
794	A parallel solution-adaptive scheme for ideal magnetohydrodynamics. , 1999, , .		37
795	Conservative and non-conservative overlapping grid generation in simulating complex supersonic flow. , 1999, , .		3
796	A characteristics based box scheme for compressible eight-wave structure ideal MHD equations. , 1999, , .		1
797	X-33 computational aeroheating predictions and comparisons with experimental data. , 1999, , .		14

#	ARTICLE	IF	CITATIONS
798	Numerical and analytical solutions of hypersonic interactions involving surface property discontinuities. , 1999, , .		0
799	Spurious Numerical Oscillations in Simulation of Supersonic Flows Using Shock-Capturing Schemes. AIAA Journal, 1999, 37, 313-319.	1.5	41
800	Riemann Invariant Manifolds for the Multidimensional Euler Equations. SIAM Journal of Scientific Computing, 1999, 20, 1481-1512.	1.3	8
801	Entropy Satisfaction of a Conservative Shock-Tracking Method. SIAM Journal on Numerical Analysis, 1999, 36, 529-550.	1.1	3
802	Numerical Methods for Gasdynamic Systems on Unstructured Meshes. Lecture Notes in Computational Science and Engineering, 1999, , 195-285.	0.1	115
803	Adaptive Grid Methods for Reactive Flows. , 1999, , 445-454.		0
804	Monotonically Integrated Large Eddy Simulation of Free Shear Flows. AIAA Journal, 1999, 37, 544-556.	1.5	332
805	A two-dimensional simulation of the Kelvin-Helmholtz instability with magnetic shear. Journal of Geophysical Research, 1999, 104, 25097-25103.	3.3	20
806	Stochastic solute transport under unsteady flow conditions: Comparison of theory, Monte Carlo Simulations, and field data. Water Resources Research, 1999, 35, 2069-2084.	1.7	20
807	Nonlinear reactions and nonuniform flows. Water Resources Research, 1999, 35, 2427-2438.	1.7	10
808	Accuracy of Mesh-based Cosmological Hydrocodes: Tests and Corrections. Astrophysical Journal, 1999, 517, 31-39.	1.6	21
809	On the Azimuthal Stability of Shock Waves around Black Holes. Astrophysical Journal, 1999, 516, 411-419.	1.6	39
810	Turbulence modelling for supercritical flows including examples with passive shock control. Aeronautical Journal, 1999, 103, 113-125.	1.1	4
811	Numerical investigation of a gas dynamic model for charge transport in semiconductors. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 6-37.	0.5	7
813	The influence of the downstream pressure on the shock wave reflection phenomenon in steady flows. Journal of Fluid Mechanics, 1999, 386, 213-232.	1.4	33
814	A Multidimensional Code for Isothermal Magnetohydrodynamic Flows in Astrophysics. Astrophysical Journal, 1999, 514, 506-519.	1.6	59
815	Study of Properties of Ar Micro Arc Plasma Jets for Fine Cutting with Synthetic Spectra Method.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1999, 65, 3806-3813.	0.2	0
816	Linear Calculation of Unsteady Aerodynamic Forces on Vibrating Cascade Blades Using TVD Scheme. (1st Report, Formulation).. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1999, 65, 513-520.	0.2	0

#	ARTICLE	IF	CITATIONS
817	Comparison of Algorithms for Unsteady Flow Calculations in Inlet and Exhaust Systems of IC Engines. Journal of Engineering for Gas Turbines and Power, 2000, 122, 541-548.	0.5	11
818	Pressure Transients Across Constrictions. Journal of Energy Resources Technology, Transactions of the ASME, 2000, 122, 34-41.	1.4	18
819	Central schemes and contact discontinuities. ESAIM: Mathematical Modelling and Numerical Analysis, 2000, 34, 1259-1275.	0.8	33
821	Two-Dimensional Simulation of Wave Propagation in a Three-Pipe Junction. Journal of Engineering for Gas Turbines and Power, 2000, 122, 549-555.	0.5	7
822	Physical Bias of Galaxies from Large-Scale Hydrodynamic Simulations. Astrophysical Journal, 2000, 538, 83-91.	1.6	82
823	Influence of Magnetic Fields on Pulsed, Radiative Jets. Astrophysical Journal, 2000, 530, 834-850.	1.6	28
824	Reduced-order modeling for flutter prediction. , 2000, , .		19
825	Simulation of transients in natural gas pipelines using hybrid TVD schemes. International Journal for Numerical Methods in Fluids, 2000, 32, 407-437.	0.9	48
826	Analysis of high speed non-equilibrium chemically reacting gas flows. Part II. A finite volume/finite element model and numerical studies. International Journal for Numerical Methods in Fluids, 2000, 32, 691-709.	0.9	9
827	Two-dimensional dam break flow simulation. International Journal for Numerical Methods in Fluids, 2000, 33, 35-57.	0.9	98
828	Evaluation of some high-order shock capturing schemes for direct numerical simulation of unsteady two-dimensional free flows. International Journal for Numerical Methods in Fluids, 2000, 33, 249-278.	0.9	20
829	Numerical Simulations for Radiation Hydrodynamics. Journal of Computational Physics, 2000, 157, 199-233.	1.9	19
830	Monotonicity Preserving Weighted Essentially Non-oscillatory Schemes with Increasingly High Order of Accuracy. Journal of Computational Physics, 2000, 160, 405-452.	1.9	1,311
831	New High-Resolution Central Schemes for Nonlinear Conservation Laws and Convection-Diffusion Equations. Journal of Computational Physics, 2000, 160, 241-282.	1.9	1,403
832	New High-Resolution Semi-discrete Central Schemes for Hamilton-Jacobi Equations. Journal of Computational Physics, 2000, 160, 720-742.	1.9	103
833	Entropy Splitting and Numerical Dissipation. Journal of Computational Physics, 2000, 162, 33-81.	1.9	138
834	The $\nabla \cdot \mathbf{B} = 0$ Constraint in Shock-Capturing Magnetohydrodynamics Codes. Journal of Computational Physics, 2000, 161, 605-652.	1.9	799
835	A High-Resolution Procedure for Euler and Navier-Stokes Computations on Unstructured Grids. Journal of Computational Physics, 2000, 164, 165-203.	1.9	166

#	ARTICLE	IF	CITATIONS
836	Sufficient Stability Criteria and Uniform Stability of Difference Schemes. <i>Journal of Computational Physics</i> , 2000, 165, 717-751.	1.9	2
837	Lattice Boltzmann simulation of multiphase fluid flows through the total variation diminishing with artificial compression scheme. <i>International Journal of Heat and Fluid Flow</i> , 2000, 21, 112-121.	1.1	39
838	Realization of a second-order Godunov's method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 189, 1031-1052.	3.4	6
839	ALE formulation for fluid-structure interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 190, 659-675.	3.4	269
840	Simulation of free surface flows using a Runge-Kutta technique. <i>Applied Mathematics and Computation</i> , 2000, 114, 27-38.	1.4	1
841	A study of non-oscillatory schemes based on LED principle for inviscid flow computation past airfoils. <i>Acta Mechanica</i> , 2000, 139, 73-90.	1.1	1
842	Using high performance Fortran for magnetohydrodynamic simulations. <i>Parallel Computing</i> , 2000, 26, 705-722.	1.3	6
843	A non-linear filter for one- and two-dimensional open channel flows with shocks. <i>Advances in Water Resources</i> , 2000, 24, 187-193.	1.7	6
844	The simulation of dam-break flows by an improved predictor-corrector TVD scheme. <i>Advances in Water Resources</i> , 2000, 23, 637-643.	1.7	20
845	Simulation of propagating fronts in geothermal reservoirs with the implicit Leonard total variation diminishing scheme. <i>Geothermics</i> , 2000, 29, 1-25.	1.5	28
846	Effect of a high-resolution differencing scheme on finite-volume predictions of viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2000, 93, 287-314.	1.0	79
847	Evaluation of TVD high resolution schemes for unsteady viscous shocked flows. <i>Computers and Fluids</i> , 2000, 30, 89-113.	1.3	107
848	A comparison of high-resolution, finite-volume, adaptive stencil schemes for simulating advective-dispersive transport. <i>Advances in Water Resources</i> , 2000, 24, 29-48.	1.7	29
849	A mass conservative 3-D numerical model for predicting solute fluxes in estuarine waters. <i>Advances in Water Resources</i> , 2000, 23, 531-543.	1.7	30
850	Can Contaminant Transport Models Predict Breakthrough?. <i>Ground Water Monitoring and Remediation</i> , 2000, 20, 104-113.	0.6	5
851	Groundwater flow, multicomponent transport and biogeochemistry: development and application of a coupled process model. <i>Journal of Contaminant Hydrology</i> , 2000, 43, 303-325.	1.6	39
852	Simulation of non-isothermal transients in gas/condensate pipelines using TVD scheme. <i>Powder Technology</i> , 2000, 112, 163-171.	2.1	13
853	Title is missing!. <i>Transport in Porous Media</i> , 2000, 40, 171-200.	1.2	31

#	ARTICLE	IF	CITATIONS
854	A Local Extrapolation Method for Hyperbolic Conservation Laws. I. The ENO Underlying Schemes. <i>Journal of Scientific Computing</i> , 2000, 15, 231-264.	1.1	3
855	Title is missing!. <i>Journal of Scientific Computing</i> , 2000, 15, 441-456.	1.1	0
856	The Magnetohydrodynamic Kelvin-Helmholtz Instability: A Three-dimensional Study of Nonlinear Evolution. <i>Astrophysical Journal</i> , 2000, 545, 475-493.	1.6	104
857	A $k-\epsilon$ turbulence model considering compressibility in three-dimensional transonic turbulent flow calculation. <i>Journal of Thermal Science</i> , 2000, 9, 97-102.	0.9	0
858	Numerical schemes with high order of accuracy for the computation of shock waves. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2000, 21, 489-500.	1.9	3
859	Construction of high-order accuracy implicit residual smoothing schemes. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2000, 21, 407-414.	1.9	1
860	Numerical solutions of incompressible Euler and Navier-Stokes equations by efficient discrete singular convolution method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2000, 16, 223-239.	1.5	9
861	A review and comparative study of upwind biased schemes for compressible flow computation. Part II: 1-D higher-order schemes. <i>Archives of Computational Methods in Engineering</i> , 2000, 7, 333-377.	6.0	15
862	New Fully Automated Procedure for the Prediction of Store Trajectory. <i>Journal of Aircraft</i> , 2000, 37, 1038-1049.	1.7	12
863	Adaptive QUICK-Based Scheme to Approximate Convective Transport. <i>AIAA Journal</i> , 2000, 38, 2233-2237.	1.5	7
864	Numerical simulation and experimental verification of Dam-Break flows with shocks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2000, 38, 197-206.	0.7	53
865	A Navier-Stokes Analysis of the Stall Flutter Characteristics of the Buffum Cascade. <i>Journal of Turbomachinery</i> , 2000, 122, 769-776.	0.9	16
866	A Cure for the Sonic Point Glitch. <i>International Journal of Computational Fluid Dynamics</i> , 2000, 13, 143-159.	0.5	7
867	DEVELOPMENT OF A MONOTONIC MULTIDIMENSIONAL ADVECTION-DIFFUSION SCHEME. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2000, 37, 85-101.	0.6	4
868	Finite volume methods. <i>Handbook of Numerical Analysis</i> , 2000, 7, 713-1018.	0.9	1,023
869	Aerodynamic Computations Using the Convective-Upstream Split-Pressure Scheme with Local Preconditioning. <i>AIAA Journal</i> , 2000, 38, 402-410.	1.5	7
870	Upwind finite difference schemes for dense snow avalanche modeling. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 32, 799-821.	0.9	13
871	Finite-Difference TVD Scheme for Computation of Dam-Break Problems. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 253-262.	0.7	113

#	ARTICLE	IF	CITATIONS
872	Reply [to "Comment on "Modeling the magnetosphere for northward interplanetary magnetic field: Effects of electrical resistivity" by Joachim Raeder]. Journal of Geophysical Research, 2000, 105, 13149-13153.	3.3	12
873	Splitflow - Progress in 3D CFD with Cartesian omni-tree grids for complex geometries. , 2000, , .		27
874	New code validation experiments and numerical simulations of high enthalpy flows with nonequilibrium. , 2000, , .		0
875	Error estimation and control for the Euler equations. , 2000, , .		2
876	Electron beam-driven MHD for the RDHWT/MARIAH II hypersonic wind tunnel. , 2000, , .		7
877	A new multi-dimensional interpolation scheme for the analysis of compressible flows. , 2000, , .		0
878	X-33 aerothermal design environment predictions - Verification and validation. , 2000, , .		19
879	Internet based computational fluid dynamics calculation of hypersonic heating. , 2000, , .		1
880	Centred TVD schemes for hyperbolic conservation laws. IMA Journal of Numerical Analysis, 2000, 20, 47-79.	1.5	108
881	Implicit high-resolution methods for modelling one-dimensional open channel flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2000, 38, 369-382.	0.7	30
882	How to prevent pressure oscillations in multicomponent flow calculations. , 2000, , .		0
883	On the Accuracy of Upwind and Symmetric TVD Schemes in Simulating Low Mach Number Flow. International Journal of Computational Fluid Dynamics, 2000, 13, 125-142.	0.5	1
884	High-Order Upwind Schemes for Multidimensional Magnetohydrodynamics. Astrophysical Journal, 2000, 530, 508-524.	1.6	202
885	Flux limiters fourth and sixth order high resolution method for hyperbolic conservation laws. International Journal of Computer Mathematics, 2000, 75, 71-96.	1.0	0
886	Dynamic Grid Adaptation for Computational Magnetohydrodynamics. Lecture Notes in Computer Science, 2000, , 61-70.	1.0	2
887	A Three-dimensional simulation of the Kelvin-Helmholtz instability. Geophysical Monograph Series, 2000, , 157-164.	0.1	1
889	Aerothermodynamics Discipline. , 2001, , 167-232.		0
890	A TVD MacCormack scheme for transcritical flow. Proceedings of the Institution of Civil Engineers Water and Maritime Engineering, 2001, 148, 167-175.	0.3	18

#	ARTICLE	IF	CITATIONS
891	Strong Stability-Preserving High-Order Time Discretization Methods. SIAM Review, 2001, 43, 89-112.	4.2	1,817
892	Application of TVD High Resolution Schemes to the Viscous Shock Tube Problem. , 2001, , 197-202.		0
893	Low Dissipation Entropy Fix for Positivity Preserving Roe's Scheme. , 2001, , 685-690.		0
894	Godunov Methods. , 2001, , 879-898.		0
895	Towards Very High Order Godunov Schemes. , 2001, , 907-940.		113
896	Shock Wave Propagation in Porous Media. , 2001, , 545-596.		3
897	A UNIFIED FORMULATION OF THE SEGREGATED CLASS OF ALGORITHMS FOR MULTIFLUID FLOW AT ALL SPEEDS. Numerical Heat Transfer, Part B: Fundamentals, 2001, 40, 99-137.	0.6	41
898	Shock Capturing. , 2001, , 787-VII.		1
899	Bounded convection schemes for unstructured grids. , 2001, , .		38
900	Some recent progress in practical computational fluid dynamics. , 2001, , .		13
901	On the performance of upwind schemes and turbulence models in hypersonic flows. , 2001, , .		2
902	Mesh adaptation using different error indicators for the Euler equations. , 2001, , .		9
903	Multigrid diagonalized-ADI method for compressible flows. , 2001, , .		18
904	Eigenvalues and eigenvectors of the Euler equations in general geometries. , 2001, , .		23
905	Computational aerothermodynamics in aeroassist applications. , 2001, , .		12
906	X-38 experimental aeroheating at Mach 10. , 2001, , .		3
907	Evaluation of an upwind-biased method in a laminar hypersonic viscous/inviscid interaction. , 2001, , .		2
908	A Pressure-Based Method for Turbulent Cavitating Flow Computations. , 2001, , .		7

#	ARTICLE	IF	CITATIONS
909	Internal flow simulation of solid rockets using an unsteady Navier Stokes solver. , 2001, , .		1
910	Direct calculation of turbomachinery flows using the space-time conservation element and solution element method. , 2001, , .		7
911	Measured and computed hypersonic aerodynamic/aeroheating characteristics for an elliptically blunted flared cylinder. , 2001, , .		1
913	MHD simulation of magnetospheric waveguide modes. Journal of Geophysical Research, 2001, 106, 8447-8454.	3.3	5
914	Channel Routing in Open-Channel Flows with Surges. Journal of Hydraulic Engineering, 2001, 127, 115-122.	0.7	29
915	NUMERICAL SIMULATIONS OF RESONANT OSCILLATIONS IN A TUBE. Numerical Heat Transfer; Part A: Applications, 2001, 40, 37-54.	1.2	5
916	Semidiscrete Central-Upwind Schemes for Hyperbolic Conservation Laws and Hamilton-Jacobi Equations. SIAM Journal of Scientific Computing, 2001, 23, 707-740.	1.3	691
917	A Difference Scheme for Conservation Laws with a Discontinuous Flux: The Nonconvex Case. SIAM Journal on Numerical Analysis, 2001, 39, 1197-1218.	1.1	88
918	CFD code as a part of experimental technology. , 0, , .		0
919	The compressible evolution of the super-Alfvénic magnetized wake. Physics of Plasmas, 2001, 8, 1697-1706.	0.7	13
920	Numerical Hydrodynamics: SPH versus AMR. Symposium - International Astronomical Union, 2001, 200, 563-566.	0.1	0
921	Dissipation Improvement of MUSCL Scheme for Computational Aeroacoustics. Journal of Mechanics, 2001, 17, 39-47.	0.7	0
922	An Improved CIP-CUP Method for Submerged Water Jet Flow Simulation.. JSME International Journal Series B, 2001, 44, 497-504.	0.3	6
923	Optimized weighted essentially non-oscillatory schemes for computational aeroacoustics. , 2001, , .		7
924	Generalized Harten Formalism and Longitudinal Variation Diminishing schemes for Linear Advection on Arbitrary Grids. ESAIM: Mathematical Modelling and Numerical Analysis, 2001, 35, 1159-1183.	0.8	10
925	Physically Based Higher Order Godunov Schemes for Compositional Simulation. , 2001, , .		21
926	Temperature-dependent viscous gravity currents with shear heating. Physics of Fluids, 2001, 13, 3664-3674.	1.6	7
927	On the theory of thermal explosion in moving heterogeneous media. Shock Waves, 2001, 11, 141-150.	1.0	1

#	ARTICLE	IF	CITATIONS
928	Vortical regime of the flow behind the bow shock wave. <i>Shock Waves</i> , 2001, 11, 229-244.	1.0	1
929	A third-order semi-discrete genuinely multidimensional central scheme for hyperbolic conservation laws and related problems. <i>Numerische Mathematik</i> , 2001, 88, 683-729.	0.9	87
930	An implementation of the robust inviscid wall boundary condition in high-speed flow calculations. <i>Journal of Mechanical Science and Technology</i> , 2001, 15, 671-680.	0.4	2
931	Numerical computation of wave propagation in dynamic materials. <i>Applied Numerical Mathematics</i> , 2001, 37, 417-440.	1.2	22
932	A perspective on computational algorithms for aerodynamic analysis and design. <i>Progress in Aerospace Sciences</i> , 2001, 37, 197-243.	6.3	80
933	Modern helicopter rotor aerodynamics. <i>Progress in Aerospace Sciences</i> , 2001, 37, 419-476.	6.3	93
934	The flow of viscoelastic fluids past a cylinder: finite-volume high-resolution methods. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001, 97, 207-232.	1.0	149
935	A summary of numerical methods for time-dependent advection-dominated partial differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2001, 128, 423-445.	1.1	220
937	Fast and accurate discrete ordinates methods for multidimensional radiative transfer. Part I, basic methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 69, 671-707.	1.1	91
938	High resolution finite-element analysis of shallow water equations in two dimensions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 2581-2601.	3.4	14
939	An overview and generalization of implicit Navier–Stokes algorithms and approximate factorization. <i>Computers and Fluids</i> , 2001, 30, 807-828.	1.3	26
940	Numerical simulation of roll induced moment of cruciform tactical missiles. <i>Aerospace Science and Technology</i> , 2001, 5, 109-124.	2.5	7
941	Positivity preserving pointwise implicit schemes with application to turbulent compressible flat plate flow. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 35, 903-938.	0.9	6
942	A finite volume method with a modified ENO scheme using a Hermite interpolation to solve advection diffusion equations. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 50, 2339-2371.	1.5	7
943	On Consistent Time-Integration Methods for Radiation Hydrodynamics in the Equilibrium Diffusion Limit: Low-Energy-Density Regime. <i>Journal of Computational Physics</i> , 2001, 167, 99-130.	1.9	24
944	A High-Resolution Pressure-Based Algorithm for Fluid Flow at All Speeds. <i>Journal of Computational Physics</i> , 2001, 168, 101-130.	1.9	77
945	A Gas-Kinetic BGK Scheme for the Navier–Stokes Equations and Its Connection with Artificial Dissipation and Godunov Method. <i>Journal of Computational Physics</i> , 2001, 171, 289-335.	1.9	566
946	Construction of Second-Order TVD Schemes for Nonhomogeneous Hyperbolic Conservation Laws. <i>Journal of Computational Physics</i> , 2001, 172, 261-297.	1.9	65

#	ARTICLE	IF	CITATIONS
947	A Second-Order Accurate, Component-Wise TVD Scheme for Nonlinear, Hyperbolic Conservation Laws. <i>Journal of Computational Physics</i> , 2001, 173, 1-16.	1.9	47
948	Optimized Weighted Essentially Nonoscillatory Schemes for Linear Waves with Discontinuity. <i>Journal of Computational Physics</i> , 2001, 174, 381-404.	1.9	101
949	Comparisons of numerical methods with respect to convectively dominated problems. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 37, 721-745.	0.9	87
950	Application of a generalized total variation diminishing algorithm to cosmic ray transport and acceleration. <i>Computer Physics Communications</i> , 2001, 134, 209-222.	3.0	12
951	Runge-Kutta Discontinuous Galerkin Methods for Convection-Dominated Problems. <i>Journal of Scientific Computing</i> , 2001, 16, 173-261.	1.1	1,395
952	The Koren upwind scheme for variable gridsize. <i>Applied Numerical Mathematics</i> , 2001, 37, 459-487.	1.2	8
953	An efficient solver for nearshore flows based on the WAF method. <i>Coastal Engineering</i> , 2001, 43, 105-129.	1.7	94
954	Numerical modelling of tsunami generation and propagation from submarine slumps: the 1998 Papua New Guinea event. <i>Geophysical Journal International</i> , 2001, 145, 97-111.	1.0	101
955	The effect of numerical diffusion on simulation of isolated bubbles in a gas-solid fluidized bed. <i>Powder Technology</i> , 2001, 116, 142-154.	2.1	82
956	Hazard predictions for volcanic explosions. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 106, 39-51.	0.8	16
957	An Integral Formulation of Transient Radiative Transfer. <i>Journal of Heat Transfer</i> , 2001, 123, 466-475.	1.2	104
958	Analytical and Computational Study of Wall Temperature Jumps in Supersonic Flow. <i>AIAA Journal</i> , 2001, 39, 79-87.	1.5	11
959	Two Element-by-Element Iterative Solutions for Shallow Water Equations. <i>SIAM Journal of Scientific Computing</i> , 2001, 22, 2075-2092.	1.3	3
960	Implicit Weighted Essentially Nonoscillatory Schemes for the Compressible Navier-Stokes Equations. <i>AIAA Journal</i> , 2001, 39, 2082-2090.	1.5	21
961	X-33 Computational Aeroheating Predictions and Comparisons with Experimental Data. <i>Journal of Spacecraft and Rockets</i> , 2001, 38, 658-669.	1.3	30
962	NUMERICAL SIMULATIONS OF RESONANT OSCILLATIONS IN A TUBE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001, 40, 37-54.	1.2	15
963	Numerical Models of the Multiphase Interstellar Matter with Stellar Energy Feedback on a Galactic Scale. <i>Astrophysical Journal</i> , 2001, 547, 172-186.	1.6	215
964	Unsteady analyses of thermal glass fibre drawing processes. <i>European Journal of Applied Mathematics</i> , 2001, 12, 479-496.	1.4	24

#	ARTICLE	IF	CITATIONS
965	Mathematical Fluid Mechanics. , 2001, , .		3
966	High-performance Java codes for computational fluid dynamics. , 2001, , .		2
967	A finite volume scheme for the two fluid plasma system. , 0, , .		0
968	Heat Transfer Predictions in a Laminar Hypersonic Viscous/Inviscid Interaction. Journal of Thermophysics and Heat Transfer, 2002, 16, 481-489.	0.9	54
969	COMPARTMENTAL MODELING OF MULTIDIMENSIONAL CRYSTALLIZATION. International Journal of Modern Physics B, 2002, 16, 383-390.	1.0	23
970	Numerical Convection Algorithms and Their Role in Eulerian CFD Reactor Simulations. International Journal of Chemical Reactor Engineering, 2002, 1, .	0.6	7
971	Some Basic Elements to Achieve a Future 1D Simulation of Wave Propagation in I.C.E. Pipes. , 2002, , 55.		4
972	ASSESSMENT OF DISPERSION-RELATION-PRESERVING AND SPACE-TIME CE/SE SCHEMES FOR WAVE EQUATIONS. Numerical Heat Transfer, Part B: Fundamentals, 2002, 42, 93-118.	0.6	6
973	Interplay between Kelvinâ€™Helmholtz and Currentâ€™driven Instabilities in Jets. Astrophysical Journal, 2002, 580, 800-814.	1.6	65
975	On the convergence of high resolution methods with multiple time scales for hyperbolic conservation laws. Mathematics of Computation, 2002, 72, 1239-1251.	1.1	20
976	Nonlinear filtering of statistical noise in DSMC solutions. , 2002, , .		1
977	Assessment of dispersion-relation-preserving and space-time schemes for wave equations. , 2002, , .		0
978	Numerical methods for atmospheric general circulation models Refinements or fundamental advances?. International Geophysics, 2002, , 23-28.	0.6	2
979	Multiple-Scale Stabilized Finite Elements for the Simulation of Tracer Injections and Waterflood. , 2002, , .		5
980	A level set approach for computing discontinuous solutions of Hamilton-Jacobi equations. Mathematics of Computation, 2002, 72, 159-182.	1.1	25
981	A nonlinear model of thermoacoustic devices. Journal of the Acoustical Society of America, 2002, 112, 1431-1444.	0.5	41
982	Numerical investigation of the propagation of planar shock waves in saturated flexible porous materials: development of the computer code and comparison with experimental results. Journal of Fluid Mechanics, 2002, 462, 285-306.	1.4	12
983	High-Resolution Simulation of Multidimensional Crystal Growth. Industrial & Engineering Chemistry Research, 2002, 41, 6217-6223.	1.8	137

#	ARTICLE	IF	CITATIONS
984	MHD Accelerator of the Non-Uniform Gas-Plasma Flow Utilized as an Effective Rocket Engine. , 2002, , .		0
985	Boundary Layer Transition Correlations and Aeroheating Predictions for Mars Smart Lander. , 2002, , .		19
986	MHD Accelerator Performance Predictions and Plans for Experimental Verification (Invited). , 2002, , .		2
987	X-33 Turbulent Aeroheating Measurements and Predictions. , 2002, , .		0
988	Prediction of dynamic damping coefficients using unsteady dual-time stepping method. , 2002, , .		7
989	A Nondiffusive Finite Volume Scheme for the Three-Dimensional Maxwell's Equations on Unstructured Meshes. SIAM Journal on Numerical Analysis, 2002, 39, 2089-2108.	1.1	54
990	Second Order Numerical Methods for First Order Hamilton–Jacobi Equations. SIAM Journal on Numerical Analysis, 2002, 40, 1136-1183.	1.1	10
991	A New Class of Optimal High-Order Strong-Stability-Preserving Time Discretization Methods. SIAM Journal on Numerical Analysis, 2002, 40, 469-491.	1.1	902
992	Amrvac: a Multidimensional Grid-adaptive Magnetofluid Dynamics Code. Computational Methods in Applied Mathematics, 2002, 2, 92-109.	0.4	9
993	In-Situ Residual Tracking in Reduced Order Modelling. Shock and Vibration, 2002, 9, 105-121.	0.3	4
994	Modelling Methodology of a Spark-Ignition Engine and Experimental Validation: Part II: Gas Exchange Process. , 2002, , .		1
995	Bounded Skew High-Order Resolution Schemes for the Discrete Ordinates Method. Journal of Computational Physics, 2002, 175, 412-437.	1.9	64
996	Shock-Capturing and Front-Tracking Methods for Granular Avalanches. Journal of Computational Physics, 2002, 175, 269-301.	1.9	112
997	Numerical Analysis of Dusty-Gas Flows. Journal of Computational Physics, 2002, 176, 129-144.	1.9	42
998	A Pressure-Based Method for Turbulent Cavitating Flow Computations. Journal of Computational Physics, 2002, 176, 363-383.	1.9	217
999	Stability Analysis of Preconditioned Approximations of the Euler Equations on Unstructured Meshes. Journal of Computational Physics, 2002, 178, 498-519.	1.9	17
1000	Spectral (Finite) Volume Method for Conservation Laws on Unstructured Grids. Basic Formulation. Journal of Computational Physics, 2002, 178, 210-251.	1.9	696
1001	Accuracy and Nonoscillatory Properties of Enslaved Difference Schemes. Journal of Computational Physics, 2002, 181, 705-728.	1.9	5

#	ARTICLE	IF	CITATIONS
1002	Application of proper orthogonal decomposition to the discrete Euler equations. International Journal for Numerical Methods in Engineering, 2002, 55, 479-497.	1.5	33
1003	Solution of two-dimensional Riemann problems for gas dynamics without Riemann problem solvers. Numerical Methods for Partial Differential Equations, 2002, 18, 584-608.	2.0	260
1004	Entropy-Controlled Artificial Anisotropic Diffusion for the Numerical Solution of Conservation Laws Based on Algorithms from Image Processing. Journal of Visual Communication and Image Representation, 2002, 13, 176-194.	1.7	6
1005	Simulating the hydraulic characteristics of the lower Yellow River by the finite-volume technique. Hydrological Processes, 2002, 16, 2767-2779.	1.1	10
1006	Conjugate filter approach for shock capturing. Communications in Numerical Methods in Engineering, 2002, 19, 99-110.	1.3	13
1007	A high resolution upwind scheme for multi-component flows. International Journal for Numerical Methods in Fluids, 2002, 38, 985-1007.	0.9	9
1008	Discrete filtering of numerical solutions to hyperbolic conservation laws. International Journal for Numerical Methods in Fluids, 2002, 40, 263-271.	0.9	5
1009	Embedded turbulence model in numerical methods for hyperbolic conservation laws. International Journal for Numerical Methods in Fluids, 2002, 39, 763-781.	0.9	30
1010	Performance of finite volume solutions to the shallow water equations with shock-capturing schemes. International Journal for Numerical Methods in Fluids, 2002, 40, 1237-1273.	0.9	69
1011	Weighted average flux method and flux limiters for the numerical simulation of shock waves in rigid porous media. International Journal for Numerical Methods in Fluids, 2002, 40, 1187-1207.	0.9	4
1012	Numerical solution of transonic flows through 2D and 3D turbine cascades. Computing and Visualization in Science, 2002, 4, 183-189.	1.2	3
1013	Numerical analysis of layer and bridging adsorption of flexible polymers in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 204, 153-168.	2.3	0
1014	Résolution des Équations de dispersion "diffusion en présence de forts gradients. Comptes Rendus - Mécanique, 2002, 330, 159-165.	2.1	1
1015	Analytic-numerical approach to flow calculation in intake and exhaust systems of internal combustion engines. Mathematical and Computer Modelling, 2002, 36, 33-45.	2.0	6
1016	Relaxation schemes for the calculation of two-phase flow in pipes. Mathematical and Computer Modelling, 2002, 36, 535-567.	2.0	39
1017	From continuous recovery to discrete filtering in numerical approximations of conservation laws. Applied Numerical Mathematics, 2002, 42, 47-60.	1.2	4
1018	Error estimates on the random projection methods for hyperbolic conservation laws with stiff reaction terms. Applied Numerical Mathematics, 2002, 43, 315-333.	1.2	4
1019	Numerical modelling of hydraulic jumps in a spiral channel with rectangular cross section. Fluid Dynamics Research, 2002, 31, 185-213.	0.6	5

#	ARTICLE	IF	CITATIONS
1020	A forward particle tracking Eulerian-Lagrangian Localized Adjoint Method for solution of the contaminant transport equation in three dimensions. <i>Advances in Water Resources</i> , 2002, 25, 147-157.	1.7	35
1021	Modelling the fate of oxidisable organic contaminants in groundwater. <i>Advances in Water Resources</i> , 2002, 25, 945-983.	1.7	157
1022	A locally-upwinded spectral technique (LUST) for viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 108, 49-71.	1.0	45
1023	The third-order relaxation schemes for hyperbolic conservation laws. <i>Journal of Computational and Applied Mathematics</i> , 2002, 138, 93-108.	1.1	8
1024	Adaptive multiresolution approach for solution of hyperbolic PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 3909-3928.	3.4	31
1025	Two adaptive wavelet algorithms for non-linear parabolic partial differential equations. <i>Computers and Fluids</i> , 2002, 31, 467-480.	1.3	10
1026	Finite element analysis of contaminant transport in groundwater. <i>Applied Mathematics and Computation</i> , 2002, 127, 23-43.	1.4	16
1027	Optimal control and simulation of multidimensional crystallization processes. <i>Computers and Chemical Engineering</i> , 2002, 26, 1103-1116.	2.0	138
1028	Shock capturing by anisotropic diffusion oscillation reduction. <i>Computer Physics Communications</i> , 2002, 144, 317-342.	3.0	9
1029	Title is missing!. <i>Journal of Engineering Physics and Thermophysics</i> , 2002, 75, 54-64.	0.2	0
1030	Problems and trends in mathematical modeling. <i>Journal of Applied Mechanics and Technical Physics</i> , 2002, 43, 345-353.	0.1	2
1031	Title is missing!. <i>Transport in Porous Media</i> , 2002, 48, 61-78.	1.2	18
1032	Title is missing!. <i>Journal of Applied Mechanics and Technical Physics</i> , 2002, 43, 519-528.	0.1	2
1033	Development of Computational Techniques for Transonic Flows: An Historical Perspective. <i>Fluid Mechanics and Its Applications</i> , 2003, , 183-194.	0.1	2
1034	Formulations for Numerically Approximating Hyperbolic Systems Governing Sediment Transport. <i>Journal of Scientific Computing</i> , 2003, 19, 225-252.	1.1	97
1035	Concepts and Application of Time-Limiters to High Resolution Schemes. <i>Journal of Scientific Computing</i> , 2003, 19, 139-162.	1.1	17
1036	Simulation of Two-Dimensional Transport Processes Using Nonlinear Monotone Second-Order Schemes. <i>Cybernetics and Systems Analysis</i> , 2003, 39, 839-853.	0.4	8
1037	Title is missing!. <i>Journal of Scientific Computing</i> , 2003, 18, 83-109.	1.1	45

#	ARTICLE	IF	CITATIONS
1038	About the TVD property for the flux-corrected transport techniques. Computational Mechanics, 2003, 30, 281-285.	2.2	2
1039	A convergent and universally bounded interpolation scheme for the treatment of advection. International Journal for Numerical Methods in Fluids, 2003, 41, 47-75.	0.9	288
1040	Positivity-preserving, flux-limited finite-difference and finite-element methods for reactive transport. International Journal for Numerical Methods in Fluids, 2003, 41, 151-183.	0.9	14
1041	Development of highly accurate interpolation method for mesh-free flow simulations III. Analysis of accuracy and stability. International Journal for Numerical Methods in Fluids, 2003, 41, 675-694.	0.9	9
1042	A theoretical Taylor-Galerkin model for first-order hyperbolic equation. International Journal for Numerical Methods in Fluids, 2003, 42, 439-463.	0.9	2
1043	High-performance Java codes for computational fluid dynamics. Concurrency Computation Practice and Experience, 2003, 15, 395-415.	1.4	8
1044	Sensitivity study on interfacial closure laws in two-fluid bubbly flow simulations. AIChE Journal, 2003, 49, 1621-1636.	1.8	79
1045	Second-order accurate kinetic schemes for the ultra-relativistic Euler equations. Journal of Computational Physics, 2003, 192, 695-726.	1.9	18
1046	Aeroacoustical coupling in a ducted shallow cavity and fluid/structure effects on a steam line. Journal of Fluids and Structures, 2003, 18, 695-713.	1.5	52
1047	Solution of hyperbolic PDEs using a stable adaptive multiresolution method. Chemical Engineering Science, 2003, 58, 1777-1792.	1.9	21
1048	Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher's contributions. Journal of Computational Physics, 2003, 185, 309-341.	1.9	55
1049	Resolution of high order WENO schemes for complicated flow structures. Journal of Computational Physics, 2003, 186, 690-696.	1.9	236
1050	On the dissipation mechanism of Godunov-type schemes. Journal of Computational Physics, 2003, 188, 524-542.	1.9	49
1051	A fixed mesh numerical method for modelling the flow in liquid composites moulding processes using a volume of fluid technique. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 877-893.	3.4	19
1052	The $\tilde{\tau}$ -schemes: a new consistent high-resolution formulation based on the normalized variable methodology. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 1711-1730.	3.4	16
1053	Finite-volume component-wise TVD schemes for 2D shallow water equations. Advances in Water Resources, 2003, 26, 861-873.	1.7	69
1054	Advances in turbulent flow computations using high-resolution methods. Progress in Aerospace Sciences, 2003, 39, 405-424.	6.3	128
1055	High-speed compressible flow solutions by adaptive cell-centered upwinding algorithm with modified H-correction entropy fix. Advances in Engineering Software, 2003, 34, 533-538.	1.8	11

#	ARTICLE	IF	CITATIONS
1056	Dissipative-acoustic instability in accretion disks at a nonlinear stage. <i>Astronomy Letters</i> , 2003, 29, 246-257.	0.1	5
1057	Importance of subgrid-scale parameterization in numerical simulations of lake circulation. <i>Advances in Water Resources</i> , 2003, 26, 277-294.	1.7	12
1058	Cyclic adsorption separation processes: analysis strategy and optimization procedure. <i>Chemical Engineering Science</i> , 2003, 58, 3143-3158.	1.9	52
1059	Adaptive Mesh Refinement for conservative systems: multi-dimensional efficiency evaluation. <i>Computer Physics Communications</i> , 2003, 153, 317-339.	3.0	131
1060	TVD schemes for unstructured grids. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 599-611.	2.5	187
1061	A Primer on Eulerian Computational Fluid Dynamics for Astrophysics. <i>Publications of the Astronomical Society of the Pacific</i> , 2003, 115, 303-321.	1.0	58
1062	Entropy stability theory for difference approximations of nonlinear conservation laws and related time-dependent problems. <i>Acta Numerica</i> , 2003, 12, 451-512.	6.3	344
1063	Shock waves, dead zones and particle-free regions in rapid granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2003, 491, 161-181.	1.4	262
1064	Finite volume method for simulating extreme flood events in natural channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003, 41, 167-177.	0.7	121
1065	Volume averaging for determining the effective dispersion tensor: Closure using periodic unit cells and comparison with ensemble averaging. <i>Water Resources Research</i> , 2003, 39, .	1.7	58
1066	Reply to comment by R. D. Braddock and J. Norbury on "On the continuum-scale modeling of gravity-driven fingers in unsaturated porous media: The inadequacy of the Richards equation with standard monotonic constitutive relations and hysteretic equations of. <i>Water Resources Research</i> , 2003, 39, .	1.7	1
1067	Adaptive Mesh Refinement for Global Magnetohydrodynamic Simulation. <i>Lecture Notes in Physics</i> , 2003, , 247-274.	0.3	30
1068	Explicit Schemes for Dam-Break Simulations. <i>Journal of Hydraulic Engineering</i> , 2003, 129, 11-34.	0.7	100
1069	On the Artificial Compression Method for Second-Order Nonoscillatory Central Difference Schemes for Systems of Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1157-1174.	1.3	100
1070	On Discrete Maximum Principles for Linear Equation Systems and Monotonicity of Difference Schemes. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003, 24, 1110-1135.	0.7	10
1071	Higher Dimensional Wave-Oriented Upwind Schemes With Minimal Cross-Wind Diffusion. , 2003, , .		12
1072	Practical Aspects in Comparing Shock-Capturing Schemes for Dam Break Problems. <i>Journal of Hydraulic Engineering</i> , 2003, 129, 187-195.	0.7	39
1073	Two-dimensional free surface flow in branch channels by a finite-volume TVD scheme. <i>Advances in Water Resources</i> , 2003, 26, 623-633.	1.7	18

#	ARTICLE	IF	CITATIONS
1074	A numerical study on the influence of fractured regions on lake/groundwater interaction; the Lake Kinneret (Sea of Galilee) case. <i>Journal of Hydrology</i> , 2003, 283, 225-243.	2.3	28
1075	Evaluation of a Seventh Order Upwind Scheme for Rotors in Hover. , 2003, , .		0
1076	Stable Numerical Method Applying a Total Variation Diminishing Scheme for Incompressible Flow. <i>AIAA Journal</i> , 2003, 41, 49-55.	1.5	6
1077	Computation of the Noise Generated by a Shallow Cavity in a Duct and Test of a Solution for Lowering the Noise. , 2003, , .		0
1078	Direct Simulation of Sound Generated by Viscous Flow Over a Cylinder Using a TVD Method. , 2003, , .		0
1079	Upwind and High-Resolution Methods for Compressible Flow: From Donor Cell to Residual-Distribution Schemes. , 2003, , .		24
1080	Comparison of Methods for Determining Boundary Layer Edge Conditions for Transition Correlations. , 2003, , .		13
1081	Numerical Investigation of Ion Transport in Under-Expanded Jet Flows. , 2003, , .		2
1082	System Performance and Thermodynamic Cycle Analysis of Airbreathing Pulse Detonation Engines. <i>Journal of Propulsion and Power</i> , 2003, 19, 556-567.	1.3	112
1083	A study on the focusing phenomenon of a weak shock wave. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003, 217, 1209-1220.	1.1	3
1084	Numerical Solution of Time-Dependent Advection-Diffusion-Reaction Equations. <i>Springer Series in Computational Mathematics</i> , 2003, , .	0.1	708
1085	Nonlinear wave interactions in bubble layers. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1304-1316.	0.5	55
1086	The two-dimensional magnetohydrodynamic Kelvinâ€Helmholtz instability: Compressibility and large-scale coalescence effects. <i>Physics of Plasmas</i> , 2003, 10, 4661-4674.	0.7	49
1087	Computational Aerothermodynamics in Aeroassist Applications. <i>Journal of Spacecraft and Rockets</i> , 2003, 40, 305-312.	1.3	15
1088	Parallel, Adaptive-Mesh-Refinement MHD for Global Space-Weather Simulations. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	4
1089	On the propagation of a normal shock wave through a layer of incompressible porous material. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2003, 13, 178-198.	1.6	8
1090	Implementation of the CIP as the Advection Solver in the MM5. <i>Monthly Weather Review</i> , 2003, 131, 1256-1271.	0.5	5
1091	Possible Detection of Multiple Blockages Using Transients. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2003, 125, 154-159.	1.4	28

#	ARTICLE	IF	CITATIONS
1092	A Free, Fast, Simple, and Efficient Total Variation Diminishing Magnetohydrodynamic Code. <i>Astrophysical Journal, Supplement Series</i> , 2003, 149, 447-455.	3.0	47
1093	Aerodynamic Performance Prediction for Wind Turbine Blades with Incompressible and Compressible CFD Codes. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2003, 69, 1067-1072.	0.2	0
1095	Entropy stability theory for difference approximations of nonlinear conservation laws and related time-dependent problems. , 2003, , 451-512.		16
1096	Receptivity of a TVD Scheme in Incompressible Flow Analysis. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2003, 46, 96-103.	0.4	0
1097	MATHEMATICAL MODELING OF MICROCLIMATE AND SPREAD OF AEROSOL POLLUTANTS WITHIN LARGE BUILDINGS. <i>Journal of Aerosol Science</i> , 2004, 35, S915-S916.	1.8	0
1098	A note on $(2K+1)$ -point conservative monotone schemes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2004, 38, 345-357.	0.8	5
1099	A Hybrid Cosmological Hydrodynamic/Body Code Based on a Weighted Essentially Nonoscillatory Scheme. <i>Astrophysical Journal</i> , 2004, 612, 1-13.	1.6	56
1100	Flux-difference splitting scheme with modified multidimensional dissipation on unstructured meshes. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2004, 27, 981-992.	0.6	3
1103	High Resolution Methods for Computing Turbulent Flows. , 2002, , 43-74.		2
1104	A study of the impulse waves discharged from convergent and divergent ducts. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2004, 218, 1469-1479.	1.1	2
1105	Modified Multidimensional Dissipation Scheme on Unstructured Meshes for High-speed Compressible Flow Analysis. <i>International Journal of Computational Fluid Dynamics</i> , 2004, 18, 631-640.	0.5	9
1107	PCB Migration and Cleanup Scenarios in Natural Gas Pipelines. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2004, 126, 105-111.	1.4	0
1108	Numerical investigation of interface region flows in mass spectrometers: ion transport. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 550-559.	1.3	16
1109	X-38 Experimental Aeroheating at Mach 10. <i>Journal of Spacecraft and Rockets</i> , 2004, 41, 293-301.	1.3	10
1110	Supersonic Jet Impingement Navier-Stokes Computations for Vertical Launching System Design Applications. <i>Journal of Spacecraft and Rockets</i> , 2004, 41, 735-744.	1.3	8
1111	New Hybrid Runge-Kutta Methods for Unsteady Reactive Flow Simulation: Applications. <i>AIAA Journal</i> , 2004, 42, 1601-1611.	1.5	3
1112	CENTERED DIFFERENCE SCHEMES FOR NONLINEAR HYPERBOLIC EQUATIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2004, 01, 531-566.	0.3	24
1113	Performance of Upwind Schemes and Turbulence Models in Hypersonic Flows. <i>AIAA Journal</i> , 2004, 42, 945-957.	1.5	36

#	ARTICLE	IF	CITATIONS
1114	THE NUMERICAL SIMULATION OF VARIABLE-PROPERTY REACTING-GAS DYNAMICS: NEW INSIGHTS AND VALIDATION. Numerical Heat Transfer; Part A: Applications, 2004, 47, 27-56.	1.2	12
1115	Evaluation of some flux-limited high-resolution schemes for dam-break problems with source terms. Journal of Hydraulic Research/De Recherches Hydrauliques, 2004, 42, 507-516.	0.7	4
1116	Combining finite element and finite volume methods for efficient multiphase flow simulations in highly heterogeneous and structurally complex geologic media. Geofluids, 2004, 4, 284-299.	0.3	156
1117	Numerical modeling of shock-wave instability in thermodynamically nonideal media. Journal of Experimental and Theoretical Physics, 2004, 98, 811-819.	0.2	20
1118	Title is missing!. Journal of Scientific Computing, 2004, 20, 137-157.	1.1	149
1119	Two-dimensional adaptive mesh generation algorithm and its application with higher-order compressible flow solver. Journal of Mechanical Science and Technology, 2004, 18, 2190-2203.	0.4	3
1120	Analysis of numerical methods to solve one-dimensional fluid-dynamic governing equations under impulsive flow in tapered ducts. International Journal of Mechanical Sciences, 2004, 46, 981-1004.	3.6	34
1121	Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method: one-dimensional case. Journal of Computational Physics, 2004, 193, 115-135.	1.9	317
1122	Numerical problems in semiconductor simulation using the hydrodynamic model: a second-order finite difference scheme. Journal of Computational Physics, 2004, 195, 320-340.	1.9	7
1123	Limiting strategies for polynomial reconstructions in the finite volume approximation of the linear advection equation. Applied Numerical Mathematics, 2004, 49, 277-289.	1.2	11
1124	Increasing the force with which a shock wave discharged from the channel acts on an obstacle by way of converting a normal pressure shock to a system of oblique shocks. High Temperature, 2004, 42, 911-918.	0.1	2
1125	The Savage-Hutter theory: A system of partial differential equations for avalanche flows of snow, debris, and mud. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2004, 84, 507-527.	0.9	58
1126	Development of an adaptive discontinuity-capturing hyperbolic finite element model. International Journal for Numerical Methods in Fluids, 2004, 44, 957-973.	0.9	1
1127	Implicit WENO shock capturing scheme for unsteady flows. Application to one-dimensional Euler equations. International Journal for Numerical Methods in Fluids, 2004, 45, 197-229.	0.9	10
1128	Numerical simulation of dense gas flows on unstructured grids with an implicit high resolution upwind Euler solver. International Journal for Numerical Methods in Fluids, 2004, 46, 735-765.	0.9	54
1129	New two-dimensional slope limiters for discontinuous Galerkin methods on arbitrary meshes. International Journal for Numerical Methods in Engineering, 2004, 61, 2566-2593.	1.5	79
1130	Development of a two-dimensional finite element model for pure advective equation. Numerical Methods for Partial Differential Equations, 2004, 20, 302-326.	2.0	1
1131	On the effect of contraction ratio in viscoelastic flow through abrupt contractions. Journal of Non-Newtonian Fluid Mechanics, 2004, 122, 117-130.	1.0	62

#	ARTICLE	IF	CITATIONS
1132	Power ENO methods: a fifth-order accurate Weighted Power ENO method. Journal of Computational Physics, 2004, 194, 632-658.	1.9	97
1133	A matrix stability analysis of the carbuncle phenomenon. Journal of Computational Physics, 2004, 197, 647-670.	1.9	142
1134	High-resolution FEM-TVD schemes based on a fully multidimensional flux limiter. Journal of Computational Physics, 2004, 198, 131-158.	1.9	108
1135	Reduced-order modeling: new approaches for computational physics. Progress in Aerospace Sciences, 2004, 40, 51-117.	6.3	643
1136	Three decades of accomplishments in computational fluid dynamics. Progress in Aerospace Sciences, 2004, 40, 173-197.	6.3	44
1137	Application of multidimensional scheme and the discrete ordinate method to radiative heat transfer in a two-dimensional enclosure with diffusely emitting and reflecting boundary walls. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 88, 407-422.	1.1	31
1138	A study of the weak shock wave propagating through an engine exhaust silencer system. Journal of Sound and Vibration, 2004, 275, 893-915.	2.1	8
1139	Adaptive multiresolution approach for two-dimensional PDEs. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 405-425.	3.4	18
1140	Numerical experiments using high-resolution schemes for unsteady, inviscid, compressible flows. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 4675-4705.	3.4	44
1141	High-resolution FEM-FCT schemes for multidimensional conservation laws. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 4915-4946.	3.4	55
1142	Improved treatment of source terms in TVD scheme for shallow water equations. Advances in Water Resources, 2004, 27, 617-629.	1.7	34
1143	Shock detection and limiting with discontinuous Galerkin methods for hyperbolic conservation laws. Applied Numerical Mathematics, 2004, 48, 323-338.	1.2	330
1144	Multi-level lattice Boltzmann model on square lattice for compressible flows. Computers and Fluids, 2004, 33, 1363-1385.	1.3	23
1145	Modeling the Influence of Wind and Rivers on Current, Salinity and Temperature over the French Guiana Continental Shelf during the Rainy Season. Journal of Coastal Research, 2004, 204, 1183-1197.	0.1	14
1146	A CELL-CENTERED SECOND-ORDER ACCURATE FINITE VOLUME METHOD FOR CONVECTION-DIFFUSION PROBLEMS ON UNSTRUCTURED MESHES. Mathematical Models and Methods in Applied Sciences, 2004, 14, 1235-1260.	1.7	58
1147	Three-dimensional MHD simulations of the magnetosphere of Uranus. Journal of Geophysical Research, 2004, 109, .	3.3	34
1148	Numerical Investigation of Shock-Reflection Phenomena in Overexpanded Supersonic Jets. AIAA Journal, 2004, 42, 570-577.	1.5	33
1149	Application of multidimensional scheme and the discrete ordinate method to radiative heat transfer in a two-dimensional enclosure with diffusely emitting and reflecting boundary walls. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, , .	1.1	0

#	ARTICLE	IF	CITATIONS
1150	Development of a Hybrid Model for Non-Equilibrium High-Energy Plasmas. , 2004, , .		1
1151	Computational Aerothermodynamic Simulation Issues on Unstructured Grids. , 2004, , .		55
1152	Simulation of Flame Spread and Turbulent Separated Flows in Solid Rockets. , 2004, , .		2
1153	Preliminary Convective-Radiative Heating Environments for a Neptune Aerocapture Mission. , 2004, , .		16
1154	Centered and Upwind Multigrid Turbulent Flow Simulations with Applications to Launch Vehicles. , 2004, , .		7
1155	Stepsize Restrictions for the Total-Variation-Diminishing Property in General Runge-Kutta Methods. SIAM Journal on Numerical Analysis, 2004, 42, 1073-1093.	1.1	60
1156	Error Estimates to Smooth Solutions of Runge-Kutta Discontinuous Galerkin Methods for Scalar Conservation Laws. SIAM Journal on Numerical Analysis, 2004, 42, 641-666.	1.1	161
1157	On Monotonicity of Difference Schemes for Computational Physics. SIAM Journal of Scientific Computing, 2004, 25, 1557-1584.	1.3	17
1158	The Dynamics of a Plane Diode. SIAM Journal on Mathematical Analysis, 2004, 35, 1617-1635.	0.9	8
1159	Supersonic O2-jet Impingement on Liquid Iron with Surface Chemistry. ISIJ International, 2004, 44, 91-99.	0.6	15
1160	Temperature and Entropy Fields of Baryonic Gas in the Universe. Astrophysical Journal, 2004, 612, 14-27.	1.6	21
1161	Synthetic Observations of Simulated Radio Galaxies. I. Radio and X-Ray Analysis. Astrophysical Journal, 2004, 601, 778-797.	1.6	34
1162	An extension and analysis of the Shu-Osher representation of Runge-Kutta methods. Mathematics of Computation, 2004, 74, 201-220.	1.1	53
1163	Simple modelling of dam failure in a natural river. Water Management, 2004, 157, 53-60.	0.4	6
1164	Conservative CIP Transport in Meteorological Models. JSME International Journal Series B, 2004, 47, 725-734.	0.3	8
1165	The research analysis of aerodynamic numerical simulation of grid fin. Journal of Zhejiang University: Science A, 2005, 6, 741-746.	1.3	5
1166	Numerical Analysis of Flutter in a Transonic Low Pressure Steam Turbine. , 2005, , 425.		0
1167	A Numerical Simulation on the Solar-Terrestrial Transit Time of Successive CMEs during November 4-5, 1998. Chinese Journal of Geophysics, 2005, 48, 805-813.	0.2	7

#	ARTICLE	IF	CITATIONS
1168	Conservative Semi-Lagrangian Transport on a Sphere and the Impact on Vapor Advection in an Atmospheric General Circulation Model. <i>Monthly Weather Review</i> , 2005, 133, 504-520.	0.5	16
1170	Rapid motions of free-surface avalanches down curved and twisted channels and their numerical simulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 1551-1571.	1.6	40
1171	An efficient numerical scheme for simulating particle acceleration in evolving cosmic-ray modified shocks. <i>Astroparticle Physics</i> , 2005, 24, 75-91.	1.9	28
1172	Numerical relativistic hydrodynamics based on the total variation diminishing scheme. <i>New Astronomy</i> , 2005, 11, 116-129.	0.8	6
1173	On the computation of instabilities and symmetry-breaking in fluid mechanics. <i>Progress in Aerospace Sciences</i> , 2005, 41, 609-641.	6.3	25
1174	On the sonic point glitch. <i>Journal of Computational Physics</i> , 2005, 202, 507-532.	1.9	25
1175	Mapped weighted essentially non-oscillatory schemes: Achieving optimal order near critical points. <i>Journal of Computational Physics</i> , 2005, 207, 542-567.	1.9	699
1176	Accurate, efficient and monotonic numerical methods for multi-dimensional compressible flows. <i>Journal of Computational Physics</i> , 2005, 208, 527-569.	1.9	105
1177	Accurate, efficient and monotonic numerical methods for multi-dimensional compressible flows. <i>Journal of Computational Physics</i> , 2005, 208, 570-615.	1.9	248
1178	A numerical scheme based on a solution of nonlinear advection-diffusion equations. <i>Journal of Computational and Applied Mathematics</i> , 2005, 173, 39-55.	1.1	11
1179	Hyperbolic conservation laws with space-dependent fluxes: II. General study of numerical fluxes. <i>Journal of Computational and Applied Mathematics</i> , 2005, 176, 105-129.	1.1	29
1180	A new TVD-MUSCL scheme for hyperbolic conservation laws. <i>Computers and Mathematics With Applications</i> , 2005, 50, 231-248.	1.4	13
1181	Numerical modeling of open channel flows using a multiple grid ENO scheme. <i>Applied Mathematics and Computation</i> , 2005, 161, 599-610.	1.4	11
1182	Numerical approaches for 1D morphodynamic modelling. <i>Coastal Engineering</i> , 2005, 52, 691-707.	1.7	36
1183	Simulation of separation processes using finite volume method. <i>Computers and Chemical Engineering</i> , 2005, 30, 83-98.	2.0	54
1184	High-resolution schemes for bubbling flow computations. <i>Applied Mathematical Modelling</i> , 2005, 29, 1232-1251.	2.2	6
1185	Adaptive delaunay triangulation with multidimensional dissipation scheme for high-speed compressible flow analysis. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2005, 26, 1341-1356.	1.9	3
1186	Computation and flow visualization in high-speed aerodynamics. <i>Journal of Turbulence</i> , 2005, 6, N16.	0.5	37

#	ARTICLE	IF	CITATIONS
1187	The simulation of non-linear stellar pulsations. Monthly Notices of the Royal Astronomical Society, 2005, 360, 1532-1544.	1.6	22
1188	Generalization of Runge-Kutta discontinuous Galerkin method to LWR traffic flow model with inhomogeneous road conditions. Numerical Methods for Partial Differential Equations, 2005, 21, 80-88.	2.0	17
1189	Solution of shallow water equations using fully adaptive multiscale schemes. International Journal for Numerical Methods in Fluids, 2005, 49, 417-437.	0.9	30
1190	On the optimization of cyclic adsorption separation processes. AIChE Journal, 2005, 51, 1377-1395.	1.8	42
1191	Comment on "Finite-volume component-wise TVD schemes for 2D shallow water equations" by Gwo-Fong Lin, Jih-Sung Lai and Wen-Dar Guo. Advances in Water Resources, 2005, 28, 423-425.	1.7	1
1192	Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method II: Two dimensional case. Computers and Fluids, 2005, 34, 642-663.	1.3	216
1193	Modelled variability of the sea surface circulation in the North-western Mediterranean Sea and in the Gulf of Lions. Ocean Dynamics, 2005, 55, 294-308.	0.9	61
1194	Influence of obstacles on rapid granular flows. Acta Mechanica, 2005, 175, 105-122.	1.1	41
1195	On high order strong stability preserving runge-kutta and multi step time discretizations. Journal of Scientific Computing, 2005, 25, 105-128.	1.1	18
1196	Grid-Adaptive Computations of Magnetized Jets. Space Science Reviews, 2005, 121, 65-75.	3.7	4
1197	On High Order Strong Stability Preserving Runge-Kutta and Multi Step Time Discretizations. Journal of Scientific Computing, 2005, 25, 105-128.	1.1	177
1198	Laminar and turbulent modes of combustion of submerged hydrogen jets. High Temperature, 2005, 43, 119-124.	0.1	1
1199	Numerical Simulation of Formation of Cellular Heterogeneous Detonation of Aluminum Particles in Oxygen. Combustion, Explosion and Shock Waves, 2005, 41, 435-448.	0.3	61
1200	Characterization of the speed of a two-phase interface in a porous medium. Mathematical Problems in Engineering, 2005, 2005, 641-661.	0.6	2
1201	Modelling debris flows down general channels. Natural Hazards and Earth System Sciences, 2005, 5, 799-819.	1.5	148
1202	Parallel, AMR MHD for Global Space Weather Simulations. Lecture Notes in Computational Science and Engineering, 2005, , 473-490.	0.1	4
1203	Construction of monotonic schemes by the differential approximation method. Russian Journal of Numerical Analysis and Mathematical Modelling, 2005, 20, .	0.2	4
1204	Performance of high-resolution TVD schemes for 1D dam-break simulations. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2005, 28, 771-782.	0.6	3

#	ARTICLE	IF	CITATIONS
1205	COTS Clusters vs. the Earth Simulator: An Application Study Using IMPACT-3D. , 0, , .		0
1206	BEHAVIOR OF TVD LIMITERS ON THE SOLUTION OF NON-LINEAR HYPERBOLIC EQUATION. Modern Physics Letters B, 2005, 19, 1507-1510.	1.0	0
1207	HIGH ORDER LOCALIZED ENO SCHEMES ON UNSTRUCTURED MESHES FOR CONSERVATION LAWS. Modern Physics Letters B, 2005, 19, 1563-1566.	1.0	1
1208	COMPENSATED COMPACTNESS FOR 2D CONSERVATION LAWS. Journal of Hyperbolic Differential Equations, 2005, 02, 697-712.	0.3	12
1210	Interactions Between Shock and Acoustic Waves in a Supersonic Inlet Diffuser. Journal of Propulsion and Power, 2005, 21, 486-495.	1.3	58
1211	High-resolution TVD schemes in finite volume method for hydraulic shock wave modeling. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 376-389.	0.7	14
1212	30 Years of FCT: Status and Directions. , 2005, , 131-154.		2
1213	A Comparison of Troubled-Cell Indicators for Runge–Kutta Discontinuous Galerkin Methods Using Weighted Essentially Nonoscillatory Limiters. SIAM Journal of Scientific Computing, 2005, 27, 995-1013.	1.3	153
1214	Conservative Logarithmic Reconstructions and Finite Volume Methods. SIAM Journal of Scientific Computing, 2005, 27, 294-314.	1.3	9
1215	Runge–Kutta Discontinuous Galerkin Method Using WENO Limiters. SIAM Journal of Scientific Computing, 2005, 26, 907-929.	1.3	326
1217	Comparison between sea surface features from ocean color imagery and 3D modeling in the Gulf of Lions (Northern Mediterranean Sea). , 2005, , .		0
1218	Principles of Solution of the Governing Equations. , 2005, , 29-75.		4
1219	A parallel solution-adaptive scheme for multi-phase core flows in solid propellant rocket motors. International Journal of Computational Fluid Dynamics, 2005, 19, 159-177.	0.5	58
1220	A numerical study of detonation diffraction. Journal of Fluid Mechanics, 2005, 529, 117-146.	1.4	79
1221	A theory for particle size segregation in shallow granular free-surface flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 1447-1473.	1.0	217
1222	Structured Finite Volume Schemes. , 2005, , 77-129.		40
1223	A Godunov-type Finite-Volume Scheme for Flows on the Meso- and Micro-scales. , 2005, , .		0
1224	Transition Onset and Turbulent Heating Measurements for the Mars Science Laboratory Entry Vehicle. , 2005, , .		46

#	ARTICLE	IF	CITATIONS
1225	Computational Modeling of T5 Laminar and Turbulent Heating Data on Blunt Cones, Part 2: Mars Applications. , 2005, , .		29
1226	Computational Aerothermodynamic Assessment of Space Shuttle Orbiter Tile Damage - Open Cavities. , 2005, , .		7
1227	Numerical Computation of Surface Mounted Obstacle in Supersonic Flows Using a New Particle Velocity Upwinding Scheme. , 2005, , .		1
1228	Prediction of the Aerothermodynamic Environment of the Huygens Probe. , 2005, , .		13
1229	Analysis of Slope Limiters on Irregular Grids. , 2005, , .		86
1230	Numerical Modeling of Micron-Scale Flows Using the Gaussian Moment Closure. , 2005, , .		18
1231	Multi-Dimensional Limiting Process for Three Dimensional Compressible Flows. , 2005, , .		1
1232	Parallel AMR Scheme for Turbulent Multi-Phase Rocket Motor Core Flows. , 2005, , .		8
1233	Database Driven Computational Investigation of Aerothermodynamics and Automatic Grid Generation of Atmospheric Entry Vehicles. , 2005, , .		1
1234	Algebraic Flux Correction I. Scalar Conservation Laws. , 2005, , 155-206.		46
1236	Error Estimates to Smooth Solutions of Runge-Kutta Discontinuous Galerkin Method for Symmetrizable Systems of Conservation Laws. SIAM Journal on Numerical Analysis, 2006, 44, 1703-1720.	1.1	53
1237	Trajectory Coupled Aerothermodynamics Modeling for Atmospheric Entry Probes at Hypersonic Velocities. , 2006, , .		0
1238	Aeroacoustic Computations Using a High Order Shock Capturing Scheme. , 2006, , .		0
1239	High Resolution Algorithms Coupled with Three Turbulence Models Applied to an Aerospace Flow Problem - Part I. , 2006, , .		0
1240	Development of a Boundary Layer Properties Interpolation Tool in Support of Orbiter Return to Flight. , 2006, , .		15
1241	Smart Weighted Compact Scheme for Shock Tube and Shock-Entropy Interaction. , 2006, , .		5
1242	An accurate positivity preserving scheme for the Spalart-Allmaras turbulence model. Application to aerodynamics. , 2006, , .		3
1243	Multidimensional Aerothermodynamic Analysis for Planetary Probes Using OLAP Cubes. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
1244	Transition and Turbulence Decay in the Taylor-Green Vortex. , 2006, , .		1
1245	Orion Aerodynamics for Hypersonic Free Molecular to Continuum Conditions. , 2006, , .		13
1246	RKDG Finite Element Method Combined with BGK Scheme for Solving Fluid Dynamics System. SIAM Journal of Scientific Computing, 2006, 28, 805-831.	1.3	2
1247	A Class of Extended Limiters Applied to Piecewise Hyperbolic Methods. SIAM Journal of Scientific Computing, 2006, 28, 123-140.	1.3	16
1248	An Unstaggered, High-Resolution Constrained Transport Method for Magnetohydrodynamic Flows. SIAM Journal of Scientific Computing, 2006, 28, 1766-1797.	1.3	60
1249	Nonoscillatory Central Schemes for One- and Two-Dimensional Magnetohydrodynamics Equations. II: High-Order SemiDiscrete Schemes. SIAM Journal of Scientific Computing, 2006, 28, 533-560.	1.3	31
1250	High-Resolution Finite Volume Methods for Dusty Gas Jets and Plumes. SIAM Journal of Scientific Computing, 2006, 28, 1335-1360.	1.3	55
1251	Magnetohydrodynamic simulation of the interaction between interplanetary strong shock and magnetic cloud and its consequent geoeffectiveness. Journal of Geophysical Research, 2006, 111, .	3.3	38
1252	Performance of a second-order moments advection scheme in an Ocean General Circulation Model. Journal of Geophysical Research, 2006, 111, .	3.3	59
1253	The interaction of planar shock waves with multiphase saturated flexible porous materials " a numerical investigation. Journal of Fluid Mechanics, 2006, 563, 159.	1.4	7
1254	A process performance index based on gate-distance and incubation time for the optimization of gate locations in liquid composite molding processes. Composites Part A: Applied Science and Manufacturing, 2006, 37, 903-912.	3.8	16
1255	Polarized light-pulse transport through scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 664.	0.8	18
1256	Multipoint Nose Shape Optimization of Space Launcher Using Response Surface Method. Journal of Spacecraft and Rockets, 2006, 43, 137-146.	1.3	23
1257	Kelvin-Helmholtz disruptions in extended magnetized jet flows. Astronomy and Astrophysics, 2006, 447, 9-22.	2.1	25
1258	Flux Transfer Events: 1. generation mechanism for strong southward IMF. Annales Geophysicae, 2006, 24, 381-392.	0.6	157
1259	A comparison of hyperbolic solvers for ideal and real gas flows. Brazilian Journal of Chemical Engineering, 2006, 23, 301-318.	0.7	5
1260	MIXPC Turbocharging System for Diesel Engines. , 2006, , .		8
1261	Equation of State in Numerical Relativistic Hydrodynamics. Astrophysical Journal, Supplement Series, 2006, 166, 410-420.	3.0	74

#	ARTICLE	IF	CITATIONS
1262	Data-driven Magnetohydrodynamic Model for Active Region Evolution. <i>Astrophysical Journal</i> , 2006, 652, 800-811.	1.6	70
1263	è;æ'fæ•æ%æ³•ã«ã,^ã,«ãfœã,ççŠŕç•æ³çã@ã½çæ^ãšã,^ã³é†ã,Šã@èš£æž. <i>Proceedings of Coastal Engineering Jsce</i> , 2006, 53, 26-30.		
1264	A third-order explicit central scheme for open channel flow simulations. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006, 44, 402-411.	0.7	5
1265	The approximate Riemann solver of Roe applied to a drift-flux two-phase flow model. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2006, 40, 735-764.	0.8	38
1266	Positive Solution of Two-Dimensional Solute Transport in Heterogeneous Aquifers. <i>Ground Water</i> , 2006, 44, 803-813.	0.7	17
1267	A high resolution total variation diminishing scheme for hyperbolic conservation law and related problems. <i>Applied Mathematics and Computation</i> , 2006, 175, 1556-1573.	1.4	20
1268	Numerical solutions of the sediment conservation law; a review and improved formulation for coastal morphological modelling. <i>Coastal Engineering</i> , 2006, 53, 557-571.	1.7	25
1269	Out-of-core hydrodynamic simulations for cosmological applications. <i>New Astronomy</i> , 2006, 11, 273-286.	0.8	14
1270	MUSTA: A multi-stage numerical flux. <i>Applied Numerical Mathematics</i> , 2006, 56, 1464-1479.	1.2	35
1271	High order residual distribution conservative finite difference WENO schemes for steady state problems on non-smooth meshes. <i>Journal of Computational Physics</i> , 2006, 214, 698-724.	1.9	36
1272	High-resolution finite compact difference schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2006, 216, 114-137.	1.9	21
1273	A high resolution scheme for Eulerian gas-solids two-phase isentropic flow. <i>Journal of Computational Physics</i> , 2006, 216, 494-525.	1.9	12
1274	Robustness of MUSCL schemes for 2D unstructured meshes. <i>Journal of Computational Physics</i> , 2006, 218, 495-509.	1.9	31
1275	Computation of axisymmetric MHD flows in a channel with an external longitudinal magnetic field. <i>Computational Mathematics and Mathematical Physics</i> , 2006, 46, 527-536.	0.2	3
1276	Monotonicity criteria for difference schemes designed for hyperbolic equations. <i>Computational Mathematics and Mathematical Physics</i> , 2006, 46, 1560-1588.	0.2	69
1277	Thermodynamically conditioned splitting schemes in combustion problems. <i>Computational Mathematics and Mathematical Physics</i> , 2006, 46, 1753-1767.	0.2	0
1278	CRITICAL HYPERSONIC AEROTHERMODYNAMIC PHENOMENA. <i>Annual Review of Fluid Mechanics</i> , 2006, 38, 129-157.	10.8	218
1279	Multiphase Thermohaline Convection in the Earth's Crust: I. A New Finite Element Finite Volume Solution Technique Combined With a New Equation of State for NaCl-H ₂ O. <i>Transport in Porous Media</i> , 2006, 63, 399-434.	1.2	73

#	ARTICLE	IF	CITATIONS
1280	On the application of flows after strong discontinuities for treating dispersed-phase material. I. Shock-wave (and rarefaction-wave) action on particles. Journal of Engineering Physics and Thermophysics, 2006, 79, 328-338.	0.2	0
1281	Fifth-Order Weighted Power-ENO Schemes for Hamilton-Jacobi Equations. Journal of Scientific Computing, 2006, 29, 57-81.	1.1	25
1282	Adaptive Edge Detectors for Piecewise Smooth Data Based on the minmod Limiter. Journal of Scientific Computing, 2006, 28, 279-306.	1.1	47
1283	Theoretical and numerical study of detonation processes in gas suspensions with aluminum particles. Combustion, Explosion and Shock Waves, 2006, 42, 735-745.	0.3	8
1284	Simulation of space plasma allowing for the Hall effect: Kelvin-Helmholtz and Rayleigh-Taylor instabilities. Computational Mathematics and Modeling, 2006, 17, 140-154.	0.2	0
1285	Advection approaches for single- and multi-material arbitrary Lagrangian-Eulerian finite element procedures. Computational Mechanics, 2006, 39, 153-190.	2.2	17
1286	A stable gradient reconstruction for the MUSCL schemes applied to systems of conservation laws. Flow, Turbulence and Combustion, 2006, 76, 343-351.	1.4	1
1287	A Godunov-Type Scheme for Atmospheric Flows on Unstructured Grids: Scalar Transport. Pure and Applied Geophysics, 2006, 163, 1699-1735.	0.8	2
1288	Numerical simulation of a dissolution process in a stirred tank reactor. Chemical Engineering Science, 2006, 61, 3025-3032.	1.9	52
1289	Computational study of an incident shock wave into a Helmholtz resonator. Computers and Fluids, 2006, 35, 1252-1263.	1.3	5
1290	Gray radiative conductive 2D modeling using discrete ordinates method with multidimensional spatial scheme and non-uniform grid. International Journal of Thermal Sciences, 2006, 45, 706-715.	2.6	16
1291	Design study of a small scale soft recovery system. Journal of Mechanical Science and Technology, 2006, 20, 1961-1971.	0.7	7
1292	The Runge-Kutta DG finite element method and the KFVS scheme for compressible flow simulations. Numerical Methods for Partial Differential Equations, 2006, 22, 1455-1478.	2.0	3
1293	Extension of a high-resolution scheme to 1D liquid-gas flow. International Journal for Numerical Methods in Fluids, 2006, 50, 1063-1084.	0.9	2
1294	A comparative study of the performance of high resolution advection schemes in the context of data assimilation. International Journal for Numerical Methods in Fluids, 2006, 51, 719-748.	0.9	12
1295	A numerical scheme for strong blast wave driven by explosion. International Journal for Numerical Methods in Fluids, 2006, 51, 1335-1353.	0.9	11
1296	Discretization and parallel performance of an unstructured finite volume Navier-Stokes solver. International Journal for Numerical Methods in Fluids, 2006, 52, 591-615.	0.9	23
1297	The multi-stage centred-scheme approach applied to a drift-flux two-phase flow model. International Journal for Numerical Methods in Fluids, 2006, 52, 679-705.	0.9	44

#	ARTICLE	IF	CITATIONS
1298	Mixing times in a turbulent stirred tank by means of LES. <i>AIChE Journal</i> , 2006, 52, 3696-3706.	1.8	82
1299	An Efficient High-Resolution Shock-Capturing Scheme for Multi-Dimensional Flows I. <i>Hydrodynamics. Research in Astronomy and Astrophysics</i> , 2006, 6, 680-688.	1.1	4
1301	Numerical Study of Friction and Heat Transfer Influence on Spark Ignition Engine Manifolds. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006, 220, 805-816.	1.1	0
1302	On an extended clarifier-thickener model with singular source and sink terms. <i>European Journal of Applied Mathematics</i> , 2006, 17, 257-292.	1.4	15
1303	Predictor-corrector scheme for the solution of shallow water equations. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2006, 21, .	0.2	5
1304	Effect of nonuniform resistivity in Petschek reconnection. <i>Physics of Plasmas</i> , 2006, 13, 022312.	0.7	27
1305	New Scheme for the Computation of Compressible Flows. <i>AIAA Journal</i> , 2006, 44, 1025-1039.	1.5	19
1306	Reynolds-Averaged Navier-Stokes/Large-Eddy Simulations of Supersonic Base Flow. <i>AIAA Journal</i> , 2006, 44, 2578-2590.	1.5	74
1307	Mars Science Laboratory Experimental Aerothermodynamics with Effects of Cavities and Control Surfaces. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 340-353.	1.3	21
1308	Modeling of Shock Tunnel Aeroheating Data on the Mars Science Laboratory Aeroshell. <i>Journal of Thermophysics and Heat Transfer</i> , 2006, 20, 641-651.	0.9	37
1309	Positivity statements for a mixed-element-volume scheme on fixed and moving grids. <i>European Journal of Computational Mechanics</i> , 2006, 15, 767-798.	0.6	34
1310	Transition Due to Heat-Shield Cavities on a Mars Entry Vehicle. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 354-366.	1.3	26
1311	Aeroacoustic Computations Using a High-Order Shock-Capturing Scheme. <i>AIAA Journal</i> , 2007, 45, 2474-2486.	1.5	12
1312	Numerical simulation of multi-phase fluid flow in structurally complex reservoirs. <i>Geological Society Special Publication</i> , 2007, 292, 405-429.	0.8	88
1314	Simulation and experimental research on a mixed pulse converter turbocharging system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007, 221, 215-223.	1.1	6
1315	Assessment of Very High Order of Accuracy in Implicit LES models. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007, 129, 1497-1503.	0.8	46
1316	Stepsize Conditions for General Monotonicity in Numerical Initial Value Problems. <i>SIAM Journal on Numerical Analysis</i> , 2007, 45, 1226-1245.	1.1	64
1317	General Properties and High-Resolution Numerical Schemes. , 2007, , 337-409.		0

#	ARTICLE	IF	CITATIONS
1318	When is a Discrete Diffusion a Scale-Space?. , 2007, , .		0
1319	WENO-TVD schemes for hyperbolic conservation laws. Analysis (Germany), 2007, 27, .	0.2	0
1320	Filters, mollifiers and the computation of the Gibbs phenomenon. Acta Numerica, 2007, 16, 305-378.	6.3	77
1321	On Flux-Limiting-Based Implicit Large Eddy Simulation. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1483-1492.	0.8	41
1322	Numerical Treatment of Partial Differential Equations. , 2007, , .		191
1323	Application of Shock Capturing Schemes for Deformation of Neashore Periodic Waves. Proceedings of Coastal Engineering Jsce, 2007, 54, 26-30.	0.1	1
1324	Numerics for ILES. , 2007, , 94-194.		14
1325	More for LES: A Brief Historical Perspective of MILES. , 2007, , 9-38.		12
1326	Compressible Turbulent Shear Flows. , 2007, , 329-369.		1
1327	A flow solver for the Euler and Navierâ€Stokes equations for multiâ€phase flows with a stiffened gas equation of state. International Journal of Numerical Methods for Heat and Fluid Flow, 2007, 17, 823-835.	1.6	6
1328	Hydrodynamic Interactions of Relativistic Extragalactic Jets with Dense Clouds. Astrophysical Journal, 2007, 655, 769-780.	1.6	21
1329	Numerical Study of Tsunami Run-Up over Erodible Sand Dunes. , 2007, , .		1
1330	Black-Oil Simulations for Three-Component â€ Three-Phase Flow in Fractured Porous Media. , 2007, , .		7
1331	Pressure-Wave Propagation Technique for Blockage Detection in Subsea Flowlines. , 2007, , .		14
1332	Drag Force on a Sphere Moving in Low-Reynolds-Number Pipe Flows. Journal of Mechanics, 2007, 23, 423-432.	0.7	3
1333	Overshootings and spurious oscillations caused by biharmonic mixing. Ocean Modelling, 2007, 17, 183-198.	1.0	18
1334	High-order well-balanced finite-volume schemes for barotropic flows: Development and numerical comparisons. Ocean Modelling, 2007, 18, 53-79.	1.0	9
1335	High Resolution Schemes for a Hierarchical Sizeâ€Structured Model. SIAM Journal on Numerical Analysis, 2007, 45, 352-370.	1.1	23

#	ARTICLE	IF	CITATIONS
1336	Central Discontinuous Galerkin Methods on Overlapping Cells with a Nonoscillatory Hierarchical Reconstruction. SIAM Journal on Numerical Analysis, 2007, 45, 2442-2467.	1.1	97
1337	A Compositional Streamline Formulation With Compressibility Effects. , 2007, , .		14
1338	Turbulent Aeroheating Testing of Mars Science Laboratory Entry Vehicle in Perfect-Gas Nitrogen. , 2007, , .		16
1339	Development of a Parallel CFD Solver SPARTA for Aerothermodynamic Analysis. , 2007, , .		1
1340	Positive and Convergent Procedure for Non-linear k-w Turbulence Models. , 2007, , .		0
1341	Evaluation of Traditional and Shock-Confining LES Filters Using DNS Data of Compressible Turbulence. , 2007, , .		2
1342	CFD Validation for Long and Short Cavity Flow Simulations. , 2007, , .		5
1343	High-Order Central ENO Finite-Volume Scheme with Adaptive Mesh Refinement. , 2007, , .		14
1344	Exploring Hypersonic, Unstructured-Grid Issues through Structured Grids. , 2007, , .		6
1345	An Evaluation of Euler Fluxes for Hypersonic Flow Computations. , 2007, , .		16
1346	Energy Estimates for Nonlinear Conservation Laws with Applications to Solutions of the Burgers Equation and One-Dimensional Viscous Flow in a Shock Tube by Central Difference Schemes. , 2007, , .		5
1347	Weighted Compact and Non-compact Scheme for Shock Tube and Shock Entropy Interaction. , 2007, , .		2
1348	FIRE II Calculations for Hypersonic Nonequilibrium Aerothermodynamics Code Verification: DPLR, LAURA, and US3D. , 2007, , .		76
1349	Detonation Initiation on the Microsecond Time Scale: One and Two Dimensional Results Obtained from Adaptive Wavelet-Collocation Numerical Methods. , 2007, , .		0
1350	High-Purity Oxygen Production by Pressure Swing Adsorption. Industrial & Engineering Chemistry Research, 2007, 46, 591-599.	1.8	81
1351	Adaptive multiresolution mesh refinement for the solution of evolution PDEs. , 2007, , .		1
1352	Numerical Tracking of Shallow Water Waves by the Unstructured Finite Volume WAF Approximation. International Journal for Computational Methods in Engineering Science and Mechanics, 2007, 8, 75-88.	1.4	36
1353	Implicit Scheme for Hyperbolic Conservation Laws Using Nonoscillatory Reconstruction in Space and Time. SIAM Journal of Scientific Computing, 2007, 29, 2607-2620.	1.3	19

#	ARTICLE	IF	CITATIONS
1354	Simulation of transition and turbulence decay in the Taylorâ€™Green vortex. <i>Journal of Turbulence</i> , 2007, 8, N20.	0.5	109
1356	Finite volume methods for hyperbolic conservation laws. <i>Acta Numerica</i> , 2007, 16, 155-238.	6.3	31
1357	Godunov-type methods for free-surface shallow flows: A review. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007, 45, 736-751.	0.7	108
1358	Spatial simulations of the Kelvin-Helmholtz instability in astrophysical jets. <i>Astronomy and Astrophysics</i> , 2007, 473, 1-9.	2.1	5
1360	Can Satellite-derived Chlorophyll Imagery Be Used to Trace Surface Dynamics in Coastal Zone? A Case Study in the Northwestern Mediterranean Sea. <i>Sensors</i> , 2007, 7, 884-904.	2.1	12
1361	Comparison among structured first order algorithms in the solution of the euler equations in two-dimensions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2007, 29, 421-431.	0.8	1
1362	A class of high order TVD schemes for systems of conservation laws. <i>Portugaliae Mathematica</i> , 2007, 64, 155-174.	0.4	0
1363	A fast high-resolution algorithm for linear convection problems: particle transport method. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 655-684.	1.5	14
1364	Multiresolution schemes for strongly degenerate parabolic equations in one space dimension. <i>Numerical Methods for Partial Differential Equations</i> , 2007, 23, 706-730.	2.0	7
1365	Numerical simulation of a dam break for an actual river terrain environment. <i>Hydrological Processes</i> , 2007, 21, 447-460.	1.1	35
1366	Higher-order bounded differencing schemes for compressible and incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 57-80.	0.9	27
1367	Hybrid finite compact-WENO schemes for shock calculation. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 531-560.	0.9	48
1368	Numerical study of wave propagation in compressible two-phase flow. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 54, 393-417.	0.9	98
1369	Efficient solution techniques for implicit finite element schemes with flux limiters. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 55, 611-635.	0.9	7
1370	Efficient high-resolution relaxation schemes for hyperbolic systems of conservation laws. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 55, 483-507.	0.9	7
1371	High-order methods and numerical boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 4444-4457.	3.4	6
1372	Comparison of Roe-type methods for solving the two-fluid model with and without pressure relaxation. <i>Computers and Fluids</i> , 2007, 36, 1061-1080.	1.3	44
1373	High order Hybrid centralâ€™WENO finite difference scheme for conservation laws. <i>Journal of Computational and Applied Mathematics</i> , 2007, 204, 209-218.	1.1	75

#	ARTICLE	IF	CITATIONS
1374	Unconditional stable explicit finite difference technique for the advection–diffusion equation using spreadsheets. <i>Advances in Engineering Software</i> , 2007, 38, 80-86.	1.8	39
1375	MAST solution of advection problems in irrotational flow fields. <i>Advances in Water Resources</i> , 2007, 30, 665-685.	1.7	16
1376	A finite volume upwind scheme for the solution of the linear advection–diffusion equation with sharp gradients in multiple dimensions. <i>Advances in Water Resources</i> , 2007, 30, 2002-2025.	1.7	6
1377	A finite volume method for the mean of the solution of the random transport equation. <i>Applied Mathematics and Computation</i> , 2007, 187, 912-921.	1.4	8
1378	High-order methods for the Euler and Navier–Stokes equations on unstructured grids. <i>Progress in Aerospace Sciences</i> , 2007, 43, 1-41.	6.3	255
1379	Triple-deck theory of supersonic laminar viscous–inviscid interaction due to wall temperature jumps. <i>Progress in Aerospace Sciences</i> , 2007, 43, 42-63.	6.3	5
1380	Time-domain computation of muffler frequency response: Comparison of different numerical schemes. <i>Journal of Sound and Vibration</i> , 2007, 305, 333-347.	2.1	34
1381	Viscous microdetonation physics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 363, 458-467.	0.9	4
1382	Arbitrary high order non-oscillatory finite volume schemes on unstructured meshes for linear hyperbolic systems. <i>Journal of Computational Physics</i> , 2007, 221, 693-723.	1.9	652
1383	Runge–Kutta discontinuous Galerkin methods for compressible two-medium flow simulations: One-dimensional case. <i>Journal of Computational Physics</i> , 2007, 222, 353-373.	1.9	31
1384	High resolution kinetic beam schemes in generalized coordinates for ideal quantum gas dynamics. <i>Journal of Computational Physics</i> , 2007, 222, 573-591.	1.9	2
1385	CIP/multi-moment finite volume method for Euler equations: A semi-Lagrangian characteristic formulation. <i>Journal of Computational Physics</i> , 2007, 222, 849-871.	1.9	52
1386	Multi-domain hybrid spectral-WENO methods for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2007, 224, 970-991.	1.9	53
1387	High order residual distribution conservative finite difference WENO schemes for convection–diffusion steady state problems on non-smooth meshes. <i>Journal of Computational Physics</i> , 2007, 224, 992-1020.	1.9	34
1388	A computational strategy for the regularized 13 moment equations with enhanced wall-boundary conditions. <i>Journal of Computational Physics</i> , 2007, 225, 263-283.	1.9	101
1389	Design principles for bounded higher-order convection schemes – a unified approach. <i>Journal of Computational Physics</i> , 2007, 224, 182-207.	1.9	207
1390	Adjoint-based aerodynamic shape optimization on unstructured meshes. <i>Journal of Computational Physics</i> , 2007, 224, 267-287.	1.9	41
1391	An arbitrary Lagrangian–Eulerian discretization of MHD on 3D unstructured grids. <i>Journal of Computational Physics</i> , 2007, 226, 534-570.	1.9	31

#	ARTICLE	IF	CITATIONS
1392	Hybrid block-AMR in cartesian and curvilinear coordinates: MHD applications. <i>Journal of Computational Physics</i> , 2007, 226, 925-946.	1.9	78
1393	A TVD Scheme for Incompressible Flow Coupled with Different Turbulence Modles on a Ground-Mounted Square-Rib Flow. <i>Journal of Hydrodynamics</i> , 2007, 19, 743-750.	1.3	3
1394	Shock-capturing schemes: high accuracy versus total-variation boundedness. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1024101-1024102.	0.2	0
1395	Multiresolution schemes for an extended clarifier-thickener model. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1041803-1041804.	0.2	0
1396	Modeling of industrial problems on high-performance polyprocessor computing systems. <i>Automation and Remote Control</i> , 2007, 68, 922-933.	0.4	0
1397	Quasi-reversibility method for data assimilation in models of mantle dynamics. <i>Geophysical Journal International</i> , 2007, 170, 1381-1398.	1.0	26
1398	A comparison of hydrodynamic techniques for modelling collisions between main-sequence stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 997-1005.	1.6	14
1399	WHAM: a WENO-based general relativistic numerical scheme - I. <i>Hydrodynamics. Monthly Notices of the Royal Astronomical Society</i> , 2007, 379, 469-497.	1.6	121
1400	Two- or three-layered box-models versus fine 3D models for coastal ecological modelling? A comparative study in the English Channel (Western Europe). <i>Journal of Marine Systems</i> , 2007, 64, 47-65.	0.9	27
1401	Dynamically adapted grids for interacting discontinuous solutions. <i>Computational Mathematics and Mathematical Physics</i> , 2007, 47, 687-706.	0.2	9
1402	A dynamic mesh adaptation method for magnetohydrodynamics problems. <i>Computational Mathematics and Mathematical Physics</i> , 2007, 47, 1819-1832.	0.2	11
1403	Interaction between a composite compression wave and a vortex in a thermodynamically nonideal medium. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 104, 670-673.	0.2	6
1404	One-Dimensional Modeling of Dam-Break Flow over Movable Beds. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 48-58.	0.7	163
1405	A Godunov-Type Scheme for Atmospheric Flows on Unstructured Grids: Euler and Navier-Stokes Equations. <i>Pure and Applied Geophysics</i> , 2007, 164, 217-244.	0.8	3
1406	Numerical modeling of multiphase first-contact miscible flows. Part 1. Analytical Riemann solver. <i>Transport in Porous Media</i> , 2007, 67, 375-393.	1.2	10
1407	Anti-Dissipative Schemes for Advection and Application to Hamilton-Jacobi-Bellmann Equations. <i>Journal of Scientific Computing</i> , 2007, 30, 1-33.	1.1	40
1408	A New Smoothness Indicator for the WENO Schemes and Its Effect on the Convergence to Steady State Solutions. <i>Journal of Scientific Computing</i> , 2007, 31, 273-305.	1.1	82
1409	Spectral Difference Method for Unstructured Grids II: Extension to the Euler Equations. <i>Journal of Scientific Computing</i> , 2007, 32, 45-71.	1.1	224

#	ARTICLE	IF	CITATIONS
1410	Multirate Timestepping Methods for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2007, 33, 239-278.	1.1	97
1411	Resolving the shock-induced combustion by an adaptive mesh redistribution method. <i>Journal of Computational Physics</i> , 2007, 224, 587-600.	1.9	29
1412	Accurate monotonicity- and extrema-preserving methods through adaptive nonlinear hybridizations. <i>Journal of Computational Physics</i> , 2007, 225, 1827-1848.	1.9	58
1413	Limiters for high-order discontinuous Galerkin methods. <i>Journal of Computational Physics</i> , 2007, 226, 879-896.	1.9	244
1414	A third-order upwind scheme for the advection-diffusion equation using spreadsheets. <i>Advances in Engineering Software</i> , 2007, 38, 688-697.	1.8	18
1415	Central ADER schemes for hyperbolic conservation laws. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 346, 120-140.	0.5	8
1416	Overall chemical kinetics model for partial oxidation of methane in inert porous media. <i>Chemical Engineering Journal</i> , 2008, 144, 79-87.	6.6	33
1417	Mixing by solid particles. <i>Chemical Engineering Research and Design</i> , 2008, 86, 1363-1368.	2.7	7
1418	Prediction of cavitating flow noise by direct numerical simulation. <i>Journal of Computational Physics</i> , 2008, 227, 6511-6531.	1.9	47
1419	A limiter for PPM that preserves accuracy at smooth extrema. <i>Journal of Computational Physics</i> , 2008, 227, 7069-7076.	1.9	132
1420	Numerical study of shock-wave diffraction in variable-section channels in gas suspensions. <i>Combustion, Explosion and Shock Waves</i> , 2008, 44, 76-85.	0.3	8
1421	Simulation Techniques for Cosmological Simulations. <i>Space Science Reviews</i> , 2008, 134, 229-268.	3.7	80
1422	Effect of Reactive Surface Areas Associated with Different Particle Shapes on Chemical-Dissolution Front Instability in Fluid-Saturated Porous Rocks. <i>Transport in Porous Media</i> , 2008, 73, 75-94.	1.2	62
1423	The Construction of Discretely Conservative Finite Volume Schemes that Also Globally Conserve Energy or Entropy. <i>Journal of Scientific Computing</i> , 2008, 34, 152-187.	1.1	56
1424	Formulation of Kinetic Energy Preserving Conservative Schemes for Gas Dynamics and Direct Numerical Simulation of One-Dimensional Viscous Compressible Flow in a Shock Tube Using Entropy and Kinetic Energy Preserving Schemes. <i>Journal of Scientific Computing</i> , 2008, 34, 188-208.	1.1	149
1425	A family of numerical schemes for kinematic flows with discontinuous flux. <i>Journal of Engineering Mathematics</i> , 2008, 60, 387-425.	0.6	79
1426	Fully adaptive multiresolution schemes for strongly degenerate parabolic equations with discontinuous flux. <i>Journal of Engineering Mathematics</i> , 2008, 60, 365-385.	0.6	14
1427	The evolution of a detonation wave in a variable cross-sectional chamber. <i>Shock Waves</i> , 2008, 18, 213-233.	1.0	13

#	ARTICLE	IF	CITATIONS
1428	A class of the fourth order finite volume Hermite weighted essentially non-oscillatory schemes. <i>Science in China Series A: Mathematics</i> , 2008, 51, 1549-1560.	0.5	32
1429	On discreteness of the Hopf equation. <i>Acta Mathematicae Applicatae Sinica</i> , 2008, 24, 423-440.	0.4	11
1430	Applications of high-resolution schemes based on normalized variable formulation for 3D indoor airflow simulations. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 73, 948-981.	1.5	13
1431	Experimental validation of a new semi-implicit CE-SE scheme for the calculation of unsteady one-dimensional flow in tapered ducts. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 74, 1473-1494.	1.5	4
1432	Data assimilation and inverse problem for fluid traffic flow models and algorithms. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 837-861.	1.5	3
1433	On a relation between pressure-based schemes and central schemes for hyperbolic conservation laws. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 605-645.	2.0	1
1434	Theoretical and experimental analysis of debris flow: rheology and two-phase modelling. <i>Irrigation and Drainage</i> , 2008, 57, 555-570.	0.8	5
1435	Modular multi-purpose pulse converter turbocharging system for four-stroke diesel engines. <i>International Journal of Energy Research</i> , 2008, 32, 569-580.	2.2	5
1436	A robust high-resolution finite volume scheme for the simulation of long waves over complex domains. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 419-452.	0.9	54
1437	Simple efficient algorithm (SEA) for shallow flows with shock wave on dry and irregular beds. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2021-2043.	0.9	19
1438	A robust methodology for RANS simulations of highly underexpanded jets. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2179-2205.	0.9	20
1439	TVD adaptive mesh redistribution scheme for the shallow-water equations. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 1391-1397.	0.9	1
1440	RCM-TVD hybrid scheme for hyperbolic conservation laws. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 57, 745-760.	0.9	2
1441	Wavelet-based adaptive grids as applied to hydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 57, 877-903.	0.9	2
1442	A projection method-based model for dam and dyke break flows using an unstructured finite volume technique: Applications to the Malpasset dam break (France) and to the flood diversion in the Red River Basin (Vietnam). <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 1505-1512.	0.9	5
1443	High-resolution finite volume computations using a novel weighted least-squares formulation. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 1425-1431.	0.9	5
1444	A symmetric formulation for flux-limited convection schemes. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 1575-1581.	0.9	6
1445	Numerical experiments with several variant WENO schemes for the Euler equations. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 58, 1017-1039.	0.9	5

#	ARTICLE	IF	CITATIONS
1446	Scalar mixing by granular particles. <i>AIChE Journal</i> , 2008, 54, 1741-1747.	1.8	27
1447	Effect of discretization order on preconditioning and convergence of a high-order unstructured Newton-GMRES solver for the Euler equations. <i>Journal of Computational Physics</i> , 2008, 227, 2366-2386.	1.9	35
1448	Very simple, carbuncle-free, boundary-layer-resolving, rotated-hybrid Riemann solvers. <i>Journal of Computational Physics</i> , 2008, 227, 2560-2581.	1.9	160
1449	A high-order accurate unstructured finite volume Newton-Krylov algorithm for inviscid compressible flows. <i>Journal of Computational Physics</i> , 2008, 227, 2582-2609.	1.9	322
1450	Wavenumber-extended high-order oscillation control finite volume schemes for multi-dimensional aeroacoustic computations. <i>Journal of Computational Physics</i> , 2008, 227, 4089-4122.	1.9	30
1451	Multi-dimensional limiting process for three-dimensional flow physics analyses. <i>Journal of Computational Physics</i> , 2008, 227, 6001-6043.	1.9	79
1452	A comparison of spatial discretization schemes for differential solution methods of the radiative transfer equation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 189-200.	1.1	29
1453	Validation and verification of Courant number insensitive CE/SE method for transient viscous flow simulations. <i>Mathematics and Computers in Simulation</i> , 2008, 78, 653-670.	2.4	15
1454	Flux-limiting techniques for simulation of pollutant transport in porous media: Application to groundwater management. <i>Mathematical and Computer Modelling</i> , 2008, 47, 47-59.	2.0	20
1455	A class of high resolution shock capturing schemes for hyperbolic conservation laws. <i>Applied Mathematics and Computation</i> , 2008, 195, 110-126.	1.4	6
1456	A hybrid scheme for solving a multi-class traffic flow model with complex wave breaking. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 3816-3827.	3.4	25
1457	1D modelling of dam-break surges with floating debris. <i>Biosystems Engineering</i> , 2008, 100, 297-308.	1.9	10
1458	Numerical modeling of two-phase flow in heterogeneous permeable media with different capillarity pressures. <i>Advances in Water Resources</i> , 2008, 31, 56-73.	1.7	245
1459	A shock-capturing model based on flux-vector splitting method in boundary-fitted curvilinear coordinates. <i>Applied Mathematical Modelling</i> , 2008, 32, 249-266.	2.2	13
1460	Coupled consolidation and contaminant transport model for simulating migration of contaminants through the sediment and a cap. <i>Applied Mathematical Modelling</i> , 2008, 32, 2413-2428.	2.2	33
1461	On the link between weighted least-squares and limiters used in higher-order reconstructions for finite volume computations of hyperbolic equations. <i>Applied Numerical Mathematics</i> , 2008, 58, 705-725.	1.2	17
1462	Strong stability of singly-diagonally-implicit Runge-Kutta methods. <i>Applied Numerical Mathematics</i> , 2008, 58, 1675-1686.	1.2	71
1463	A numerical scheme for morphological bed level calculations. <i>Coastal Engineering</i> , 2008, 55, 167-180.	1.7	47

#	ARTICLE	IF	CITATIONS
1464	The reservoir technique: a way to make Godunov-type schemes zero or very low diffuse. Application to Colella's Glaz solver. <i>European Journal of Mechanics, B/Fluids</i> , 2008, 27, 643-664.	1.2	11
1465	Computational tools for supporting the testing of civil aircraft configurations in wind tunnels. <i>Progress in Aerospace Sciences</i> , 2008, 44, 67-120.	6.3	60
1466	An improved r-factor algorithm for TVD schemes. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 610-617.	2.5	35
1467	Methane partial oxidation reverse flow reactor scale up and optimization. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5501-5509.	3.8	27
1468	Three-dimensional generalization for W modification of a Godunov method. <i>Computational Mathematics and Mathematical Physics</i> , 2008, 48, 1620-1633.	0.2	0
1469	TVD scheme for computing open channel wave flows. <i>Computational Mathematics and Mathematical Physics</i> , 2008, 48, 2241-2253.	0.2	4
1470	A "TVD-like"™ Scheme for Conservation Laws with Source Terms. , 2008, , 265-272.		0
1471	One-dimensional explicit finite-volume model for sediment transport. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008, 46, 87-98.	0.7	59
1472	Numerical Simulation of Supersonic Magneto-Hydrodynamics Channel Flows. , 2008, , .		0
1473	Aeroheating Testing and Predictions for Project Orion CEV at Turbulent Conditions. , 2008, , .		21
1474	ALEGRA: An Arbitrary Lagrangian-Eulerian Multimaterial, Multiphysics Code. , 2008, , .		66
1475	Self-Adjusting Shock-Capturing Spatial Filtering for High-Order Non-Linear Computations. , 2008, , .		7
1476	Aerodynamic Analysis of Simulated Heat Shield Recession for the Orion Command Module. , 2008, , .		3
1477	An Evaluation of Euler Fluxes II: Hypersonic Surface Heating Computation. , 2008, , .		4
1478	Heating Augmentation in Laminar Flow Due to Heat-Shield Cavities on the Project Orion CEV. , 2008, , .		6
1479	Implicit Large-Eddy Simulation for Swept Wing Flow using High-Resolution Methods. , 2008, , .		4
1480	High Order Weighted Compact Scheme for Shock/Boundary Layer Interaction. , 2008, , .		0
1481	A High-Order Residual-Distribution Scheme with Variation-Bounded Nonlinear Stabilization. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
1482	Numerical analysis of the combined action of littoral current, tide and waves on the suspended mud transport and on turbid plumes around French Guiana mudbanks. <i>Continental Shelf Research</i> , 2008, 28, 545-560.	0.9	15
1483	Convergence of Godunov-Type Schemes for Scalar Conservation Laws under Large Time Steps. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 2211-2237.	1.1	25
1484	Numerical Solution Methods. , 2009, , 987-1120.		0
1485	Lie Symmetry Preservation and Shock-Capturing Methods. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 325-343.	1.1	5
1486	The Modified Ghost Fluid Method for Coupling of Fluid and Structure Constituted with Hydro-Elasto-Plastic Equation of State. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 1105-1130.	1.3	25
1487	A 2D finite volume model for debris flow and its application to events occurred in the Eastern Pyrenees. <i>International Journal of Sediment Research</i> , 2008, 23, 348-360.	1.8	26
1488	Upstream Nonoscillatory Advection Schemes. <i>Monthly Weather Review</i> , 2008, 136, 4709-4729.	0.5	37
1489	Simulation of aeroacoustic resonance in a deep cavity with grazing flow using a pressure-based solver. <i>International Journal of Computational Fluid Dynamics</i> , 2008, 22, 39-47.	0.5	5
1490	Analysis and Design of a Class of Limiter Schemes in Presence of Physical Diffusion. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008, 9, 180-188.	1.4	1
1491	Reducing the Numerical Viscosity in Nonstructured Three-Dimensional Finite Volumes Computations. <i>Journal of Spacecraft and Rockets</i> , 2008, 45, 406-408.	1.3	7
1492	Turbulent Aeroheating Testing of Mars Science Laboratory Entry Vehicle. <i>Journal of Spacecraft and Rockets</i> , 2008, 45, 417-427.	1.3	29
1493	Modeled Boltzmann Equation and Its Application to Shock-Capturing Simulation. <i>AIAA Journal</i> , 2008, 46, 3038-3048.	1.5	12
1494	A Pressure-Based Unstructured-Grid Algorithm Using High-Resolution Schemes for All-Speed Flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2008, 53, 75-96.	0.6	20
1495	Numerical Solutions to Dam Break Wave Propagation. , 2008, , .		0
1496	Transverse Injection Through Diamond and Circular Ports into a Mach 5.0 Freestream. <i>AIAA Journal</i> , 2008, 46, 1944-1962.	1.5	48
1497	Stream Tube Approach for Modelling Contaminant Transport in Open Channel Flows. , 2008, , .		0
1498	A Constrained Transport Magnetohydrodynamics Algorithm with Near-Spectral Resolution. <i>Astrophysical Journal</i> , 2008, 677, 520-529.	1.6	6
1499	MODFLOW SURFACT: A State-of-the-Art Use of Vadose Zone Flow and Transport Equations and Numerical Techniques for Environmental Evaluations. <i>Vadose Zone Journal</i> , 2008, 7, 610-631.	1.3	34

#	ARTICLE	IF	CITATIONS
1500	Analysis of implicit LES methods. Communications in Applied Mathematics and Computational Science, 2008, 3, 103-126.	0.7	88
1501	Modelling of Non-Linear Waves by An Extended Boussinesq Model. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 11-21.	1.5	5
1502	Development of an Interactive Hypersonic Flow Solver Framework for Aerothermodynamic Analysis. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 436-455.	1.5	1
1503	Develop a New Model for Saturation Calculation in Streamline Simulation. , 2008, , .		1
1504	Development of a Robust Diffusion-Kinematic Flow Algorithm for Regional Hydrologic Models Operating with Large Time Steps. , 2008, , .		1
1505	AN ALTERNATING EVOLUTION APPROXIMATION TO SYSTEMS OF HYPERBOLIC CONSERVATION LAWS. Journal of Hyperbolic Differential Equations, 2008, 05, 421-447.	0.3	8
1506	Numerical Analysis on Aerodynamic Heating in Hypersonic Shock Interacting Flow. Journal of the Japan Society for Aeronautical and Space Sciences, 2008, 56, 269-277.	0.0	2
1507	High-order finite volume method for solving viscoelastic fluid flows. Brazilian Journal of Chemical Engineering, 2008, 25, 153-166.	0.7	5
1508	A novel second order accurate hybrid numerical approach for conservation laws. ESAIM: Proceedings and Surveys, 2008, 25, 91-113.	0.4	0
1509	DAM-BREAK SHOCK WAVES WITH FLOATING DEBRIS: EXPERIMENTAL ANALYSIS AND TWO-PHASE MODELLING. Journal of Agricultural Engineering, 2008, 39, 7.	0.7	0
1510	Kink instabilities in jets from rotating magnetic fields. Astronomy and Astrophysics, 2008, 492, 621-630.	2.1	67
1512	Magnetohydrodynamic code for gravitationally-stratified media. Astronomy and Astrophysics, 2008, 486, 655-662.	2.1	37
1513	Structured high resolution algorithms in the solution of the euler equations in the two-dimensional space. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2008, 30, .	0.8	0
1514	Application of Constrained Interpolation Profile (CIP) Method for Numerical Simulation of Two-phase Flow in Porous Media. Journal of the Japan Petroleum Institute, 2009, 52, 257-264.	0.4	1
1515	Numerical Solution of a Nonlocal Problem Modelling Ohmic Heating of Foods. Computational Methods in Applied Mathematics, 2009, 9, 391-411.	0.4	0
1516	The Advanced URANUS Navier-Stokes Code for the Simulation of Nonequilibrium Re-entry Flows. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pe_15-Pe_24.	0.2	16
1517	Multiresolution Scheme for Incompressible Model of Three-phase Flow. , 2009, , .		0
1518	Atmospheric Reentry Dynamics of Conic Objects. Mathematical Problems in Engineering, 2009, 2009, 1-14.	0.6	6

#	ARTICLE	IF	CITATIONS
1521	Journal of Hydraulic Research Vol. 47, No. 3 (2009), pp. 299-310. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 299-310.	0.7	0
1522	Numerical Optimization Method for Turbine Blade Design Based on Condensation Theory. , 2009, , .		0
1523	Realistic and real-time simulation of water. , 2009, , .		0
1524	Petschek-like reconnection with uniform resistivity. Physics of Plasmas, 2009, 16, .	0.7	20
1525	Petschek reconnection with a nonlocalized resistivity. Physics of Plasmas, 2009, 16, .	0.7	17
1526	Use of Characteristic-Based Flux Limiters in a Pressure-Based Unstructured-Grid Algorithm Incorporating High-Resolution Schemes. Numerical Heat Transfer, Part B: Fundamentals, 2009, 55, 14-34.	0.6	17
1527	Simulation of Kelvin-Helmholtz Instability with Flux-Corrected Transport Method. Communications in Theoretical Physics, 2009, 51, 909-913.	1.1	0
1528	Improvement of Delayed-Detached Eddy Simulation Applied to Separated Flow over Missile Fin. AIAA Journal, 2009, 47, 345-360.	1.5	28
1529	Hybrid Continuum/Molecular Simulations of Transient Gas Flows with Rarefaction. AIAA Journal, 2009, 47, 1741-1749.	1.5	16
1530	Implicit Large-Eddy Simulation of Swept-Wing Flow Using High-Resolution Methods. AIAA Journal, 2009, 47, 618-630.	1.5	37
1531	Implicit Weighted Essentially Nonoscillatory Schemes with Antidiffusive Flux for Compressible Viscous Flows. AIAA Journal, 2009, 47, 1435-1444.	1.5	9
1532	Modeling of Flow and Advection Dominant Solute Transport in Variably Saturated Porous Media. Journal of Hydrologic Engineering - ASCE, 2009, 14, 1-14.	0.8	14
1533	Hierarchical reconstruction with up to second degree remainder for solving nonlinear conservation laws. Nonlinearity, 2009, 22, 2799-2812.	0.6	8
1534	Simulation of shock wave interaction with porous compressible foam. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2009, 223, 297-306.	0.7	4
1535	Modified stability controllable second-order difference scheme for incompressible flow and heat transfer problems. Progress in Computational Fluid Dynamics, 2009, 9, 300.	0.1	0
1536	A high-resolution 2-DH numerical scheme for process-based modeling of 3-D turbidite fan stratigraphy. Computers and Geosciences, 2009, 35, 1686-1700.	2.0	20
1537	High-order simulation of polymorphic crystallization using weighted essentially nonoscillatory methods. AIChE Journal, 2009, 55, 122-131.	1.8	25
1538	An improvement of classical slope limiters for high-order discontinuous Galerkin method. International Journal for Numerical Methods in Fluids, 2009, 59, 423-442.	0.9	10

#	ARTICLE	IF	CITATIONS
1539	Healing of shock instability for Roe's flux-difference splitting scheme on triangular meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 59, 559-575.	0.9	13
1540	A practical implementation of high-order RKDG models for the 1D open-channel flow equations. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 59, 1389-1409.	0.9	8
1541	Composite high resolution localized relaxation scheme based on upwinding for hyperbolic conservation laws. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 638-657.	0.9	1
1542	Insights on a sign-preserving numerical method for the advection-diffusion equation. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 864-887.	0.9	1
1543	Evaluation of linear and nonlinear convection schemes on multidimensional non-orthogonal grids with applications to KVLCC2 tanker. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 850-886.	0.9	19
1544	Numerical modeling of seismic triggering, evolution, and deposition of rapid landslides: Application to Higashi-Takezawa (2004). <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010, 34, 383-407.	1.7	7
1545	An efficient TVD-WENO method for conservation laws. <i>Numerical Methods for Partial Differential Equations</i> , 2009, 25, 1443-1467.	2.0	1
1546	Strong stability preserving hybrid methods. <i>Applied Numerical Mathematics</i> , 2009, 59, 891-904.	1.2	22
1547	Turbulence modelling of multiphase flow in high-pressure trickle-bed reactors. <i>Chemical Engineering Science</i> , 2009, 64, 1806-1819.	1.9	29
1548	Scalar mixing with fixed and fluidized particles in micro-reactors. <i>Chemical Engineering Research and Design</i> , 2009, 87, 550-556.	2.7	13
1549	Numerical simulations of anisothermal laminar vortex rings with large density variations. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 186-197.	1.1	5
1550	Explicit and implicit FEM-FCT algorithms with flux linearization. <i>Journal of Computational Physics</i> , 2009, 228, 2517-2534.	1.9	106
1551	FORCE schemes on unstructured meshes I: Conservative hyperbolic systems. <i>Journal of Computational Physics</i> , 2009, 228, 3368-3389.	1.9	104
1552	Compact third-order limiter functions for finite volume methods. <i>Journal of Computational Physics</i> , 2009, 228, 4118-4145.	1.9	126
1553	Unconditionally convergent nonlinear solver for hyperbolic conservation laws with S-shaped flux functions. <i>Journal of Computational Physics</i> , 2009, 228, 7497-7512.	1.9	95
1554	An operator splitting method for the Degasperis-Procesi equation. <i>Journal of Computational Physics</i> , 2009, 228, 7805-7820.	1.9	25
1555	A finite volume method for stochastic integrate-and-fire models. <i>Journal of Computational Neuroscience</i> , 2009, 26, 445-457.	0.6	10
1556	Gasification of Belarusian oil shales in a filtration-combustion wave. <i>Journal of Engineering Physics and Thermophysics</i> , 2009, 82, 199-208.	0.2	2

#	ARTICLE	IF	CITATIONS
1557	Multirate Explicit Adams Methods for Time Integration of Conservation Laws. <i>Journal of Scientific Computing</i> , 2009, 38, 229-249.	1.1	39
1558	High Order Strong Stability Preserving Time Discretizations. <i>Journal of Scientific Computing</i> , 2009, 38, 251-289.	1.1	266
1559	Shock Capturing Artificial Dissipation for High-Order Finite Difference Schemes. <i>Journal of Scientific Computing</i> , 2009, 39, 454-484.	1.1	12
1560	Computational Approaches to Solving Equations Arising from Wound Healing. <i>Bulletin of Mathematical Biology</i> , 2009, 71, 211-246.	0.9	21
1561	Numerical study and control method of interaction of nucleation and boundary layer separation in condensing flow. <i>Frontiers of Energy and Power Engineering in China</i> , 2009, 3, 254-261.	0.4	4
1562	Stability analysis of the cell centered finite-volume Muscl method on unstructured grids. <i>Numerische Mathematik</i> , 2009, 113, 555-600.	0.9	69
1563	Spectral/HP element method with hierarchical reconstruction for solving nonlinear hyperbolic conservation laws. <i>Acta Mathematica Scientia</i> , 2009, 29, 1737-1748.	0.5	2
1564	On the neutral stability of a shock wave in real media. <i>JETP Letters</i> , 2009, 90, 18-24.	0.4	16
1565	RAPID: A fast, high resolution, flux-conservative algorithm designed for planet-disk interactions. <i>New Astronomy</i> , 2009, 14, 71-87.	0.8	6
1566	A localized collocation meshless method (LCMM) for incompressible flows CFD modeling with applications to transient hemodynamics. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 1045-1061.	2.0	33
1567	A shock-capturing methodology based on adaptative spatial filtering for high-order non-linear computations. <i>Journal of Computational Physics</i> , 2009, 228, 1447-1465.	1.9	285
1568	A central conservative scheme for general rectangular grids. <i>Journal of Computational Physics</i> , 2009, 228, 2119-2131.	1.9	12
1569	Finite difference time domain algorithm for electromagnetic problems involving material movement. <i>Journal of Computational Physics</i> , 2009, 228, 2282-2295.	1.9	1
1570	Linear high-resolution schemes for hyperbolic conservation laws: TVB numerical evidence. <i>Journal of Computational Physics</i> , 2009, 228, 2266-2281.	1.9	23
1571	High order multi-moment constrained finite volume method. Part I: Basic formulation. <i>Journal of Computational Physics</i> , 2009, 228, 3669-3707.	1.9	57
1572	Coupled fluid-structure solver: The case of shock wave impact on monolithic and composite material plates. <i>Journal of Computational Physics</i> , 2009, 228, 4400-4434.	1.9	14
1573	Hierarchical reconstruction for spectral volume method on unstructured grids. <i>Journal of Computational Physics</i> , 2009, 228, 5787-5802.	1.9	279
1574	Effect of randomness on multi-frequency aeroelastic responses resolved by Unsteady Adaptive Stochastic Finite Elements. <i>Journal of Computational Physics</i> , 2009, 228, 7025-7045.	1.9	32

#	ARTICLE	IF	CITATIONS
1575	A Finite Variable Difference Relaxation Scheme for hyperbolic-parabolic equations. Journal of Computational Physics, 2009, 228, 7513-7542.	1.9	1
1576	A finite volume method parallelization for the simulation of free surface shallow water flows. Mathematics and Computers in Simulation, 2009, 79, 3339-3359.	2.4	9
1577	1D gas dynamic modelling of mass conservation in engine duct systems with thermal contact discontinuities. Mathematical and Computer Modelling, 2009, 49, 1078-1088.	2.0	18
1578	Modelling of hydrodispersive processes in the fissured media by flux limiters schemes (Chalk aquifer.) Tj ETQq1 1 0.784314 rgBT /Over	2.0	7
1579	A comparative study of flux-limiting methods for numerical simulation of gas-solid reactions with Arrhenius type reaction kinetics. Computers and Chemical Engineering, 2009, 33, 133-143.	2.0	14
1580	A parallel adaptive method for simulating shock-induced combustion with detailed chemical kinetics in complex domains. Computers and Structures, 2009, 87, 769-783.	2.4	117
1581	Numerical techniques for solving the inverse retrospective problem of thermal evolution of the Earth interior. Computers and Structures, 2009, 87, 802-811.	2.4	15
1582	Two-dimensional central-upwind schemes for curvilinear grids and application to gas dynamics with angular momentum. Computer Physics Communications, 2009, 180, 2283-2302.	3.0	13
1583	Analyse par simulation numérique du développement de l'instabilité électro-convective d'une couche de liquide diélectrique infinie soumise à une injection unipolaire. Comptes Rendus - Mécanique, 2009, 337, 667-674.	2.1	3
1584	Applying the TVD scheme to calculate two-phase flows with different velocities and pressures of the components. Mathematical Models and Computer Simulations, 2009, 1, 72-87.	0.1	2
1585	Evaluation of Euler Fluxes for Hypersonic Flow Computations. AIAA Journal, 2009, 47, 44-53.	1.5	99
1586	Aeroheating Testing and Predictions for Project Orion Crew Exploration Vehicle. Journal of Spacecraft and Rockets, 2009, 46, 766-780.	1.3	24
1587	Implicit Time-Dependent Methods for Inviscid and Viscous Compressible Flows, with a Discussion of the Concept of Numerical Dissipation. , 2009, , 183-234.		2
1588	Mesoscale slope current variability in the Gulf of Lions. Interpretation of in-situ measurements using a three-dimensional model. Continental Shelf Research, 2009, 29, 407-423.	0.9	29
1589	A multi-phase model of runaway core-mantle segregation in planetary embryos. Earth and Planetary Science Letters, 2009, 284, 144-150.	1.8	105
1590	Black-Oil Simulations for Three-Component, Three-Phase Flow in Fractured Porous Media. SPE Journal, 2009, 14, 338-354.	1.7	121
1591	Discretization methods with analytical solutions for a convection-reaction equation with higher-order discretizations. International Journal of Computer Mathematics, 2009, 86, 163-183.	1.0	2
1592	Computational Fluid Dynamics. , 2009, , .		86

#	ARTICLE	IF	CITATIONS
1593	Universal High Order Subroutine with New Shock Detector for Shock Boundary Layer Interaction. , 2009, , .		5
1594	A Massively Parallel Multi-Block Hybrid Compact-WENO Scheme for Compressible Flows. , 2009, , .		0
1595	Turbulent Supersonic/Hypersonic Heating Correlations for Open and Closed Cavities. , 2009, , .		2
1596	A 3D ABAQUS Toolkit for Thermal-Mechanical Damage Prediction of Composite Sandwich Structures Subjected to Fire. , 2009, , .		5
1597	Installation Effects Characterization of VHBR Engines: 3. CFD Assessment for Jet Mixing. , 2009, , .		4
1598	A Meshless Volume Scheme. , 2009, , .		6
1599	Accurate and Stable Calculations Involving Shocks Using a New Hybrid Scheme. , 2009, , .		3
1600	A Comparison of Various Meshless Schemes Within a Unified Algorithm. , 2009, , .		23
1601	A Parameter-Free Generalized Moment Limiter for High-Order Methods on Unstructured Grids. , 2009, , .		28
1602	Numerical Solutions of Partial Differential Equations. , 2009, , .		5
1603	A Lagrangian Model of Combustion in High-Speed Flows: Application to Scramjet Conditions. Combustion Science and Technology, 2009, 181, 1372-1396.	1.2	13
1604	Application of the Finite-Volume Method to Study the Effects of Baffles on Radiative Heat Transfer in Complex Enclosures. Numerical Heat Transfer; Part A: Applications, 2009, 55, 780-806.	1.2	20
1605	High Order Weighted Essentially Nonoscillatory Schemes for Convection Dominated Problems. SIAM Review, 2009, 51, 82-126.	4.2	677
1606	Stepsize Conditions for Boundedness in Numerical Initial Value Problems. SIAM Journal on Numerical Analysis, 2009, 47, 3797-3819.	1.1	9
1607	Error Analysis of an Adaptive Implicit Scheme for Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2009, 31, 2890-2914.	1.3	6
1608	An adaptive wavelet-collocation method for shock computations. International Journal of Computational Fluid Dynamics, 2009, 23, 503-518.	0.5	48
1609	Development of a New Model for Saturation Calculation in Streamline Simulation. SPE Reservoir Evaluation and Engineering, 2009, 12, 737-744.	1.1	2
1610	A two-dimensional TVD scheme for incompressible turbulent flows with pseudo-compressibility method. Progress in Computational Fluid Dynamics, 2009, 9, 86.	0.1	11

#	ARTICLE	IF	CITATIONS
1611	AN EXPLICIT SCHEME FOR INCORPORATING AMBIPOLAR DIFFUSION IN A MAGNETOHYDRODYNAMICS CODE. <i>Astrophysical Journal, Supplement Series</i> , 2009, 181, 413-420.	3.0	35
1612	A central scheme for shallow water flows along channels with irregular geometry. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009, 43, 333-351.	0.8	38
1613	Propagation of Interplanetary Shock and Its Consequent Geoeffectiveness. <i>Chinese Journal of Geophysics</i> , 2009, 52, 292-300.	0.2	1
1614	Assessment of Large-Eddy Simulation of Internal Separated Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2009, 131, .	0.8	22
1615	A comparison of hyperbolic solvers II: ausm-type and Hybrid Lax-Wendroff-Lax-Friedrichs methods for two-phase flows. <i>Brazilian Journal of Chemical Engineering</i> , 2010, 27, 153-171.	0.7	2
1616	Eliminating Discharge Imbalances in Predicting Shallow Water Flows with Shocks. <i>HKIE Transactions</i> , 2010, 17, 55-60.	1.9	3
1617	Local simulations of the magnetized Kelvin-Helmholtz instability in neutron-star mergers. <i>Astronomy and Astrophysics</i> , 2010, 515, A30.	2.1	63
1618	Two-dimensional high-resolution schemes and their application in the modeling of ionizing waves in gas discharges. <i>Computational Mathematics and Mathematical Physics</i> , 2010, 50, 1350-1366.	0.2	8
1619	On the convergence of shock-capturing difference schemes. <i>Doklady Mathematics</i> , 2010, 82, 599-603.	0.1	30
1620	Computational method for turbulent supersonic flows. <i>Mathematical Models and Computer Simulations</i> , 2010, 2, 407-422.	0.1	25
1621	On Stability, Monotonicity, and Construction of Difference Schemes I: Theory. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 2765-2792.	1.3	2
1622	On Stability, Monotonicity, and Construction of Difference Schemes II: Applications. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 2793-2819.	1.3	1
1623	Second-order schemes for conservation laws with discontinuous flux modelling clarifierâ€“thickener units. <i>Numerische Mathematik</i> , 2010, 116, 579-617.	0.9	23
1624	Multi-dimensional limiting process for hyperbolic conservation laws on unstructured grids. <i>Journal of Computational Physics</i> , 2010, 229, 788-812.	1.9	136
1625	On the use of flux limiters in the discrete ordinates method for 3D radiation calculations in absorbing and scattering media. <i>Journal of Computational Physics</i> , 2010, 229, 3189-3213.	1.9	26
1626	A high-resolution Petrovâ€“Galerkin method for the 1D convectionâ€“diffusionâ€“reaction problem. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 525-546.	3.4	26
1627	Simulation and visualization of the Saint-Venant system using GPUs. <i>Computing and Visualization in Science</i> , 2010, 13, 341-353.	1.2	28
1628	A modified TVD scheme for the advection of two or more variables with consideration for their sum. <i>Ocean Dynamics</i> , 2010, 60, 1157-1166.	0.9	1

#	ARTICLE	IF	CITATIONS
1629	A new computational fluid dynamics code I: Fyris Alpha. <i>Astrophysics and Space Science</i> , 2010, 327, 173-206.	0.5	26
1630	Shock-capturing method using characteristic-based dissipation filters in pressure-based algorithm. <i>Acta Mechanica</i> , 2010, 209, 99-113.	1.1	6
1631	Simulation of three-dimensional nonideal MHD flow at high magnetic Reynolds number. <i>Science China Technological Sciences</i> , 2010, 53, 206-212.	2.0	1
1632	Computation on pipe dynamic response induced by deflagration of H ₂ and air mixture. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 199-208.	2.0	2
1633	Numerical simulation of the liquid phase in SnO ₂ thin film deposition by sol-gel-dip-coating. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 385-393.	1.1	14
1634	Turbulence in the Solar Atmosphere and Solar Wind. <i>Space Science Reviews</i> , 2010, 156, 135-238.	3.7	56
1635	Implications and concerns of deep-seated disposal of hydrocarbon exploration produced water using three-dimensional contaminant transport model in Bhit Area, Dadu District of Southern Pakistan. <i>Environmental Monitoring and Assessment</i> , 2010, 170, 395-406.	1.3	3
1636	On maximum-principle-satisfying high order schemes for scalar conservation laws. <i>Journal of Computational Physics</i> , 2010, 229, 3091-3120.	1.9	417
1637	A hybrid multilevel method for high-order discretization of the Euler equations on unstructured meshes. <i>Journal of Computational Physics</i> , 2010, 229, 3938-3956.	1.9	10
1638	High-order conservative finite difference GLM-MHD schemes for cell-centered MHD. <i>Journal of Computational Physics</i> , 2010, 229, 5896-5920.	1.9	104
1639	L ² -stability of vertex-based MUSCL finite volume schemes on unstructured grids: Simulation of incompressible flows with high density ratios. <i>Journal of Computational Physics</i> , 2010, 229, 6027-6046.	1.9	24
1640	A hybrid Godunov method for radiation hydrodynamics. <i>Journal of Computational Physics</i> , 2010, 229, 6819-6852.	1.9	27
1641	A new approach of a limiting process for multi-dimensional flows. <i>Journal of Computational Physics</i> , 2010, 229, 7102-7128.	1.9	23
1642	An interface capturing method for the simulation of multi-phase compressible flows. <i>Journal of Computational Physics</i> , 2010, 229, 7411-7439.	1.9	181
1643	On positivity-preserving high order discontinuous Galerkin schemes for compressible Euler equations on rectangular meshes. <i>Journal of Computational Physics</i> , 2010, 229, 8918-8934.	1.9	463
1644	Goal-oriented a posteriori error estimates for transport problems. <i>Mathematics and Computers in Simulation</i> , 2010, 80, 1674-1683.	2.4	15
1645	Total variation diminishing nonstandard finite difference schemes for conservation laws. <i>Mathematical and Computer Modelling</i> , 2010, 51, 160-166.	2.0	5
1646	Viscoelastic flow analysis using the software OpenFOAM and differential constitutive equations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 1625-1636.	1.0	107

#	ARTICLE	IF	CITATIONS
1647	Solving the depth-integrated solute transport equation with a TVD-MacCormack scheme. Environmental Modelling and Software, 2010, 25, 1619-1629.	1.9	48
1648	A composite semi-conservative scheme for hyperbolic conservation laws. Applied Mathematics and Computation, 2010, 215, 3335-3342.	1.4	0
1649	Quasi-interpolation operators based on a cubic spline and applications in SAMR simulations. Applied Mathematics and Computation, 2010, 217, 3853-3868.	1.4	1
1650	Compact adaptive-grid scheme for high numerical resolution simulations of isotachopheresis. Journal of Chromatography A, 2010, 1217, 588-599.	1.8	25
1651	A new shock-capturing technique based on Moving Least Squares for higher-order numerical schemes on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2544-2558.	3.4	283
1652	Simulations of lateral mixing in cross-channel flow. Computers and Fluids, 2010, 39, 1058-1069.	1.3	10
1653	Roe solver with entropy corrector for uncertain hyperbolic systems. Journal of Computational and Applied Mathematics, 2010, 235, 491-506.	1.1	22
1654	Flow Around a Circular Cylinder Using a Finite-Volume TVD Scheme Based on a Vector Transformation Approach. Journal of Hydrodynamics, 2010, 22, 221-228.	1.3	20
1655	A numerical study of wave propagation and run-up in water channels. Journal of Hydrodynamics, 2010, 22, 197-202.	1.3	0
1656	Vortex-induced vibration on 2D circular riser using a high resolution numerical scheme. Journal of Hydrodynamics, 2010, 22, 911-916.	1.3	7
1657	A multiphase model of core formation. Geophysical Journal International, 2010, 181, 198-220.	1.0	38
1658	Hydrodynamic simulations of oscillating shock waves in a sub-Keplerian accretion flow around black holes. Monthly Notices of the Royal Astronomical Society, 2010, 403, 516-524.	1.6	26
1659	Computational Eulerian hydrodynamics and Galilean invariance. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2463-2476.	1.6	79
1661	Compressible Flows via Finite Difference Methods. , 0, , 120-217.		0
1663	Influence of Heating System on Greenhouse Microclimate Distribution. Transactions of the ASABE, 2010, 53, 225-238.	1.1	21
1664	Effect of the Injected Plasma on the Effective Radius of the Magnetic Bubble. Plasma Science and Technology, 2010, 12, 99-102.	0.7	2
1665	Truncation error, dissipation and dispersion terms of fifth order WENO and of WCS for 1D conservation law. International Journal of Computer Mathematics, 2010, 87, 339-352.	1.0	3
1666	Parallel Computational Fluid Dynamics 2008. Lecture Notes in Computational Science and Engineering, 2010, , .	0.1	3

#	ARTICLE	IF	CITATIONS
1667	Evaluation of Euler Fluxes for Hypersonic Heating Computations. AIAA Journal, 2010, 48, 763-776.	1.5	101
1668	Meshless Scheme Based on Alignment Constraints. AIAA Journal, 2010, 48, 2501-2511.	1.5	33
1669	Prediction of Ballistic Separation Effect by Direct Calculation of Incremental Coefficients. Journal of Aircraft, 2010, 47, 630-637.	1.7	3
1670	Turbulent Supersonic/Hypersonic Heating Correlations for Open and Closed Cavities. Journal of Spacecraft and Rockets, 2010, 47, 545-553.	1.3	21
1671	Numerical simulation of combustion-driven oil transport on the top land of an internal combustion engine piston. International Journal of Engine Research, 2010, 11, 243-256.	1.4	5
1672	Influence of a density increase on the evolution of the Kelvin-Helmholtz instability and vortices. Physics of Plasmas, 2010, 17, 072901.	0.7	18
1673	DENSITY POWER SPECTRUM IN TURBULENT THERMALLY BISTABLE FLOWS. Astrophysical Journal, 2010, 723, 482-491.	1.6	21
1674	Notice of Retraction: Numerical simulations of the interaction between the shock waves and moving interfaces. , 2010, , .		0
1675	A Study on an Automatically Variable Intake Exhaust Injection Timing Turbocharging System for Diesel Engines. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	5
1676	Implementation of Approximate Riemann Solver to Two-Phase Flows in Mortar Systems. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	1.1	17
1677	Creativity in the design process in the turbomachinery industry. Journal of Design Research, 2010, 8, 145.	0.1	6
1678	Numerical Simulation of Rotor Using Coupled Computational Fluid Dynamics and Free Wake. Journal of Aircraft, 2010, 47, 1167-1177.	1.7	9
1679	A computational framework for predicting laminar reactive flows with soot formation. Combustion Theory and Modelling, 2010, 14, 793-825.	1.0	41
1680	Numerical simulation of magmatic hydrothermal systems. Reviews of Geophysics, 2010, 48, .	9.0	146
1681	Three-dimensional numerical simulation of equatorial F region plasma irregularities with bottomside shear flow. Journal of Geophysical Research, 2010, 115, .	3.3	44
1682	Numerical simulation of channel segregates during alloy solidification using TVD schemes. International Journal of Numerical Methods for Heat and Fluid Flow, 2010, 20, 841-866.	1.6	3
1683	A new shock/discontinuity detector. International Journal of Computer Mathematics, 2010, 87, 3063-3078.	1.0	7
1684	Preliminary three-dimensional model of mantle convection with deformable, mobile continental lithosphere. Earth and Planetary Science Letters, 2010, 295, 205-218.	1.8	63

#	ARTICLE	IF	CITATIONS
1685	Really TVD advection schemes for the depth-integrated transport equation. Ocean Modelling, 2010, 33, 10-19.	1.0	5
1686	Advection scheme with 3rd high-order spatial interpolation at the middle temporal level and its application to saltwater intrusion in the Changjiang Estuary. Ocean Modelling, 2010, 33, 33-51.	1.0	115
1687	Consistent computation of the age of water parcels using CART. Ocean Modelling, 2010, 35, 67-76.	1.0	2
1688	A Genuinely High Order Total Variation Diminishing Scheme for One-Dimensional Scalar Conservation Laws. SIAM Journal on Numerical Analysis, 2010, 48, 772-795.	1.1	39
1689	High-Resolution Method for Modeling Hydraulic Regime Changes at Canal Gate Structures. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 795-808.	0.6	6
1690	Three-Dimensional Carbuncles and Euler Fluxes. , 2010, , .		3
1691	Simplex Elements Stochastic Collocation for Uncertainty Propagation in Robust Design Optimization. , 2010, , .		14
1692	High-Order Shock-Fitting Methods for Hypersonic Flow with Chemical and Thermal Nonequilibrium. , 2010, , .		2
1693	A High-Resolution Method Using Adaptive Polynomial for Local Refinement. , 2010, , .		3
1694	Time-Accurate Simulation of Shock Propagation and Reflection in an Axi-Symmetric Shock Tube. , 2010, , .		2
1695	High Performance Computing and Applications. Lecture Notes in Computer Science, 2010, , .	1.0	4
1696	Adaptation of Preissmann's scheme for transcritical open channel flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 428-440.	0.7	26
1697	Application of higher order low dissipative scheme on hypersonic flow field using a minmod limiter. , 2010, , .		0
1698	A High-Resolution Numerical Model for Simulation of 2D Flood Waves. , 2011, , .		0
1699	Fast edge-filtered image upsampling. , 2011, , 1165-1168.		4
1700	Reducing numerical diffusion in magnetospheric simulations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
1701	Three-dimensional, nonhydrostatic numerical simulation of nonlinear internal wave generation and propagation in the South China Sea. Journal of Geophysical Research, 2011, 116, .	3.3	114
1702	Discontinuous Galerkin methods with transient $\langle i \rangle_{hp} \langle /i \rangle$ adaptation. Radio Science, 2011, 46, .	0.8	3

#	ARTICLE	IF	CITATIONS
1703	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. Space Weather, 2011, 9, .	1.3	26
1704	A hybrid scheme for the numerical simulation of shock/discontinuity problems. International Journal of Computational Fluid Dynamics, 2011, 25, 469-486.	0.5	6
1705	Numerical Methods for High-Speed Flows. Annual Review of Fluid Mechanics, 2011, 43, 163-194.	10.8	339
1706	Two-Dimensional Interaction of the Oblique Shock Wave with the Boundary and High-Entropy Layers of the Blunt Plate. , 2011, , .		1
1707	A Hybrid Finite-Element Finite-Volume Method with Embedded Discontinuities for Solute Transport in Heterogeneous Media. Vadose Zone Journal, 2011, 10, 299-312.	1.3	36
1709	Advection of Microphysical Scalars in Terminal Area Simulation System (TASS). , 2011, , .		6
1710	High-Order Multi-Dimensional Limiting for Turbulent Flows and Combustion. , 2011, , .		4
1711	A New Pressure Flux for AUSM-Family Schemes for Hypersonic Heating Computations. , 2011, , .		5
1712	Advances in Bringing High-Order Methods to Practical Applications in Computational Fluid Dynamics. , 2011, , .		10
1713	Numerical Investigation of the Evolution of Vortex Instability in a 2-D Compressible Flow over a Cylinder. , 2011, , .		1
1714	High-Order Solution-Adaptive Central Essentially Non-Oscillatory (CENO) Method for Viscous Flows. , 2011, , .		10
1715	An efficient calculation of High Enthalpy Flows using High order e-MLP Scheme. , 2011, , .		0
1716	Sensitivity analysis of three-dimensional salinity simulations in North San Francisco Bay using the unstructured-grid SUNTANS model. Ocean Modelling, 2011, 39, 332-350.	1.0	42
1717	Application of a Finite-Volume Method in the Simulation of Chromatographic Systems: Effects of Flux Limiters. Industrial & Engineering Chemistry Research, 2011, 50, 1739-1748.	1.8	27
1718	Numerical simulation of advection-diffusion equation. International Journal of Mathematical Modelling and Numerical Optimisation, 2011, 2, 13.	0.1	0
1719	Error self-canceling of a difference scheme maintaining two conservation laws for linear advection equation. Mathematics of Computation, 2011, 81, 715-741.	1.1	6
1721	Coastal Morphological Modeling. , 2011, , .		3
1724	On the Connection Between the Spectral Difference Method and the Discontinuous Galerkin Method. Communications in Computational Physics, 2011, 9, 1071-1080.	0.7	19

#	ARTICLE	IF	CITATIONS
1725	Surface Tension Evaluation method based on geometrical interface reconstruction. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2011, 67, 1_75-1_84.	0.1	0
1726	Boundedness and strong stability of Runge-Kutta methods. Mathematics of Computation, 2011, 80, 863-863.	1.1	8
1727	Block-structured Adaptive Mesh Refinement - Theory, Implementation and Application. ESAIM: Proceedings and Surveys, 2011, 34, 97-150.	0.4	49
1728	Two upwinding schemes for nonlinear problems in fluid dynamics. Journal of Physics: Conference Series, 2011, 285, 012034.	0.3	1
1729	Helicopter Rotor Noise in the Merged Tip-Vortex and Blade Interaction Condition. International Journal of Aeroacoustics, 2011, 10, 427-442.	0.8	5
1730	WEIGHTED NON-OSCILLATORY LIMITERS FOR RUNGE-KUTTA DISCONTINUOUS GALERKIN METHODS. Advances in Computational Fluid Dynamics, 2011, , 153-184.	0.1	0
1732	UTILIZATION OF MULTIPLE MEASUREMENTS FOR GLOBAL THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC SIMULATIONS. Astrophysical Journal, 2011, 732, 19.	1.6	14
1733	The Application of Adaptive Wavelet Method to Multi-Dimensional Limiting Process for Enhancement of Computational Efficiency. , 2011, , .		0
1734	A Robust WENO Type Finite Volume Solver for Steady Euler Equations on Unstructured Grids. Communications in Computational Physics, 2011, 9, 627-648.	0.7	301
1735	On the Order of Accuracy and Numerical Performance of Two Classes of Finite Volume WENO Schemes. Communications in Computational Physics, 2011, 9, 807-827.	0.7	90
1736	Effects of Mach Numbers on Side Force, Yawing Moment and Surface Pressure. , 2011, , .		0
1737	Two-dimensional interaction between an incident shock and a turbulent boundary layer in the presence of an entropy layer. Fluid Dynamics, 2011, 46, 917-934.	0.2	8
1738	Role of back diffusion and biodegradation reactions in sustaining an MTBE/TBA plume in alluvial media. Journal of Contaminant Hydrology, 2011, 126, 235-247.	1.6	47
1739	Impact of dilution on the transport of poly(acrylic acid) supported magnetite nanoparticles in porous media. Journal of Contaminant Hydrology, 2011, 126, 248-257.	1.6	27
1740	A class of large time step Godunov schemes for hyperbolic conservation laws and applications. Journal of Computational Physics, 2011, 230, 7418-7440.	1.9	31
1741	The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids. Journal of Computational Physics, 2011, 230, 7775-7795.	1.9	52
1742	A High Resolution Low Dissipation Hybrid Scheme for Compressible Flows. Chinese Journal of Aeronautics, 2011, 24, 417-424.	2.8	4
1743	A comparative study of the performance of high-resolution non-oscillating advection schemes in the context of the motion induced by mixed region in a stratified fluid. Journal of Engineering Thermophysics, 2011, 20, 468-486.	0.6	0

#	ARTICLE	IF	CITATIONS
1744	The VOLNA code for the numerical modeling of tsunami waves: Generation, propagation and inundation. <i>European Journal of Mechanics, B/Fluids</i> , 2011, 30, 598-615.	1.2	60
1745	Polygonal structures in a gaseous disk: Numerical simulations. <i>Astronomy Letters</i> , 2011, 37, 563-575.	0.1	13
1746	On the theory of countercurrent flow in a rotating viscous heat-conducting gas. <i>Computational Mathematics and Mathematical Physics</i> , 2011, 51, 208-221.	0.2	7
1747	High-order accurate monotone difference schemes for solving gasdynamic problems by Godunov's method with antidiffusion. <i>Computational Mathematics and Mathematical Physics</i> , 2011, 51, 676-687.	0.2	2
1748	High-order accurate implicit running schemes. <i>Computational Mathematics and Mathematical Physics</i> , 2011, 51, 862-875.	0.2	5
1749	Numerical study of radiometric forces via the direct solution of the Boltzmann kinetic equation. <i>Computational Mathematics and Mathematical Physics</i> , 2011, 51, 1251-1266.	0.2	7
1750	Characteristic Line Based Schemes for Solving a Quasilinear Hierarchical Size-Structured Model. <i>Journal of Scientific Computing</i> , 2011, 46, 452-469.	1.1	6
1751	On the Linear Stability of the Fifth-Order WENO Discretization. <i>Journal of Scientific Computing</i> , 2011, 47, 127-149.	1.1	22
1752	Improvement of Convergence to Steady State Solutions of Euler Equations with the WENO Schemes. <i>Journal of Scientific Computing</i> , 2011, 47, 216-238.	1.1	28
1753	Simulation of Shock Wave Diffraction over 90° Sharp Corner in Gases of Arbitrary Statistics. <i>Journal of Statistical Physics</i> , 2011, 145, 1674-1688.	0.5	3
1754	Shock calculation based on second viscosity using local differential quadrature method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 349-360.	1.9	2
1755	Rotor wake capture improvement based on high-order spatially accurate schemes and chimera grids. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011, 32, 1565-1576.	1.9	3
1756	Numerical simulation of Mach reflection in steady flows. <i>Shock Waves</i> , 2011, 21, 499-509.	1.0	14
1757	On the relation between finite element and finite volume schemes for compressible flows with cylindrical and spherical symmetry. <i>Journal of Computational Physics</i> , 2011, 230, 680-694.	1.9	6
1758	High order weighted essentially non-oscillatory WENO-Z schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2011, 230, 1766-1792.	1.9	392
1759	A 5th order monotonicity-preserving upwind compact difference scheme. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 511-522.	2.0	18
1760	Galilean invariance and the conservative difference schemes for scalar laws. <i>Advances in Difference Equations</i> , 2011, 2011, .	3.5	0
1761	Evaluation of the effects of turbulence model enhancements on wind turbine wake predictions. <i>Wind Energy</i> , 2011, 14, 285-300.	1.9	67

#	ARTICLE	IF	CITATIONS
1762	On the approximation of local efflux/influx bed discharge in the shallow water equations based on a wave propagation algorithm. International Journal for Numerical Methods in Fluids, 2011, 66, 1295-1314.	0.9	10
1763	Multi-dimensional wave-oriented upwind schemes with reduced cross-wind diffusion for flow in porous media. International Journal for Numerical Methods in Fluids, 2011, 67, 33-57.	0.9	10
1764	A comparative study of TVD-limiters" well-known limiters and an introduction of new ones. International Journal for Numerical Methods in Fluids, 2011, 67, 404-440.	0.9	58
1765	Adaptive methods for multi-material ALE hydrodynamics. International Journal for Numerical Methods in Fluids, 2011, 65, 1325-1337.	0.9	13
1766	Slope limiting for vectors: A novel vector limiting algorithm. International Journal for Numerical Methods in Fluids, 2011, 65, 1365-1375.	0.9	35
1767	Finite volume simulation of waves formed by sliding masses. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 732-757.	1.0	1
1768	Reflections on the evolution of implicit Navier-Stokes algorithms. Computers and Fluids, 2011, 41, 15-19.	1.3	5
1769	Comparative study of different numerical approaches in space-time CESE framework for high-fidelity flow simulations. Computers and Fluids, 2011, 45, 47-54.	1.3	4
1770	Performance comparison of the NWF and DC methods for implementing High-Resolution schemes in a fully coupled incompressible flow solver. Applied Mathematics and Computation, 2011, 217, 5041-5054.	1.4	19
1771	Strong-stability-preserving 3-stage Hermite-Birkhoff time-discretization methods. Applied Numerical Mathematics, 2011, 61, 487-500.	1.2	1
1772	Application of RES methods for computation of hydrodynamic flows by an example of a 2D flow past a circular cylinder for $Re=5 \times 10^2$. International Journal of Heat and Mass Transfer, 2011, 54, 887-893.	2.5	8
1773	50 years of transonic aircraft design. Progress in Aerospace Sciences, 2011, 47, 308-318.	6.3	31
1774	A positivity-preserving ALE finite element scheme for convection-diffusion equations in moving domains. Journal of Computational Physics, 2011, 230, 2896-2914.	1.9	11
1775	An unstaggered constrained transport method for the 3D ideal magnetohydrodynamic equations. Journal of Computational Physics, 2011, 230, 3803-3829.	1.9	50
1776	On the spectral and conservation properties of nonlinear discretization operators. Journal of Computational Physics, 2011, 230, 4488-4518.	1.9	20
1777	Well-balanced and energy stable schemes for the shallow water equations with discontinuous topography. Journal of Computational Physics, 2011, 230, 5587-5609.	1.9	121
1778	Operator splitting implicit integration factor methods for stiff reaction-diffusion-advection systems. Journal of Computational Physics, 2011, 230, 5996-6009.	1.9	55
1779	Strong-Stability-Preserving Hermite-Birkhoff Time-Discretizations of Order 4 to 12. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
1780	Alternating Evolution Schemes for Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2011, 33, 3210-3240.	1.3	7
1781	Numerical investigation on shock wave interaction in a turbine cascade. , 2011, , .		0
1783	QUASI-SPHERICAL, TIME-DEPENDENT VISCOUS ACCRETION FLOW: ONE-DIMENSIONAL RESULTS. Astrophysical Journal, 2011, 728, 142.	1.6	24
1784	A Discontinuous Galerkin Method for Two-Dimensional Shock Wave Modeling. Modelling and Simulation in Engineering, 2011, 2011, 1-10.	0.4	2
1785	Aeroheating Predictions for Phoenix Entry Vehicle. Journal of Spacecraft and Rockets, 2011, 48, 727-745.	1.3	9
1786	Facilitating the Adoption of Unstructured High-Order Methods Amongst a Wider Community of Fluid Dynamicists. Mathematical Modelling of Natural Phenomena, 2011, 6, 97-140.	0.9	65
1787	Evolution of symmetric reconnection layer in the presence of parallel shear flow. Physics of Plasmas, 2011, 18, .	0.7	6
1788	Modified Predictor-Corrector WAF Method for the Shallow Water Equations with Source Terms. Mathematical Problems in Engineering, 2011, 2011, 1-17.	0.6	6
1790	A Non-Oscillatory Kinetic Scheme for Multi-Component Flows with the Equation of State for a Stiffend Gas. Journal of Computational Mathematics, 2011, 29, 661-683.	0.2	5
1791	Convergence of time-space adaptive algorithms for nonlinear conservation laws. IMA Journal of Numerical Analysis, 2012, 32, 1440-1483.	1.5	2
1792	Effects of the Large-Scale Reclamation Project on Hydro-Dynamic Environment in the Estuary. Applied Mechanics and Materials, 2012, 226-228, 2317-2322.	0.2	3
1793	2.5D magnetohydrodynamic simulation of the Kelvin-Helmholtz instability around Venusâ€™ Comparison of the influence of gravity and density increase. Physics of Plasmas, 2012, 19, .	0.7	7
1794	Application of Improved TVD Scheme in Hypersonic Heat-Flux Simulation. Advanced Materials Research, 2012, 588-589, 1822-1826.	0.3	0
1795	On coarse-grained simulations of turbulent material mixing. Physica Scripta, 2012, 86, 058203.	1.2	7
1796	Evaluation of the entropy consistent euler flux on 1D and 2D test problems. , 2012, , .		0
1797	Comparison of some approximation schemes for convective terms for solving gas flow past a square in a microchannel. , 2012, , .		3
1798	Numerical simulation of axisymmetric supersonic viscous flow over a blunt cone with a diagonal fourth-order finite difference method. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 310-326.	0.7	4
1799	LES for Supersonic Combustion. , 2012, , .		29

#	ARTICLE	IF	CITATIONS
1800	Boost-invariant (2+1)-dimensional anisotropic hydrodynamics. <i>Physical Review C</i> , 2012, 85, .	1.1	108
1801	Extension of the Finite Integration Technique including dynamic mesh refinement and its application to self-consistent beam dynamics simulations. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	3
1802	Unsteady relativistic shock-wave diffraction by cylinders and spheres. <i>Physical Review E</i> , 2012, 85, 026317.	0.8	5
1803	Toward structural LES modeling with high-order spectral difference schemes. , 2012, , .		3
1804	Propagation and Inundation Characteristics of the 2011 Tohoku Tsunami on the Central Sanriku Coast. <i>Coastal Engineering Journal</i> , 2012, 54, 1250004-1-1250004-17.	0.7	67
1805	High-Resolution Numerical Model for Dam-Break Flow in an L-Shaped Channel. <i>Advanced Materials Research</i> , 2012, 482-484, 679-683.	0.3	0
1806	High Efficient Numerical Simulation of Infrared Radiation from a Hot Exhaust Nozzle. <i>Communications in Computational Physics</i> , 2012, 11, 1182-1204.	0.7	7
1807	Numerical Errors in Diffusion Wave Models When Simulating Kinematic Flow. , 2012, , .		1
1808	ALISM-Based High-Order Solution for Euler Equations. <i>Communications in Computational Physics</i> , 2012, 12, 1096-1120.	0.7	9
1809	A High-Order NVD/TVD-Based Polynomial Upwind Scheme for the Modified Burgers's™ Equations. <i>Advances in Applied Mathematics and Mechanics</i> , 2012, 4, 617-635.	0.7	4
1810	Modified Upwinding Compact Scheme for Shock and Shock Boundary Layer Interaction. <i>Communications in Computational Physics</i> , 2012, 11, 1022-1042.	0.7	2
1811	GPU Acceleration of Tsunami Propagation Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1014-1023.	2.3	17
1812	Simulation of shock wave diffraction by a square cylinder in gases of arbitrary statistics using a semiclassical Boltzmann's-Bhatnagar's-Gross's-Krook equation solver. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 651-670.	1.0	7
1813	A Semidiscrete Finite Volume Constrained Transport Method on Orthogonal Curvilinear Grids. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A763-A791.	1.3	16
1814	New adaptive artificial viscosity method for hyperbolic systems of conservation laws. <i>Journal of Computational Physics</i> , 2012, 231, 8114-8132.	1.9	49
1815	Refinement Criteria for Simplex Stochastic Collocation with Local Extremum Diminishing Robustness. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A1522-A1543.	1.3	19
1816	The application of CFD modelling to support the reduction of CO 2 emissions in cement industry. <i>Energy</i> , 2012, 45, 464-473.	4.5	51
1817	On the monotonicity of multidimensional difference schemes. <i>Doklady Mathematics</i> , 2012, 86, 766-769.	0.1	2

#	ARTICLE	IF	CITATIONS
1818	High Order Weighted Essentially Non-oscillation Schemes for Two-Dimensional Detonation Wave Simulations. <i>Journal of Scientific Computing</i> , 2012, 53, 80-101.	1.1	16
1819	A sonic fix for ideal magnetogasdynamics equations using the Harten's Yee TVD scheme. <i>Aerospace Science and Technology</i> , 2012, 21, 55-63.	2.5	0
1820	Numerical simulations of the dark universe: State of the art and the next decade. <i>Physics of the Dark Universe</i> , 2012, 1, 50-93.	1.8	137
1821	A review of numerical methods for nonlinear partial differential equations. <i>Bulletin of the American Mathematical Society</i> , 2012, 49, 507-554.	0.8	116
1822	Resolving frontal structures: on the payoff using a less diffusive but computationally more expensive advection scheme. <i>Ocean Dynamics</i> , 2012, 62, 1457-1470.	0.9	16
1823	On the onset of the plasmoid instability. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	19
1824	Upwind schemes for the wave equation in second-order form. <i>Journal of Computational Physics</i> , 2012, 231, 5854-5889.	1.9	42
1825	Node-pair finite volume/finite element schemes for the Euler equation in cylindrical and spherical coordinates. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4827-4839.	1.1	5
1826	Two-dimensional simulation of shallow-water waves by Lagrangian block advection. <i>Computers and Fluids</i> , 2012, 65, 35-43.	1.3	3
1827	Multi-dimensional limiting process for finite volume methods on unstructured grids. <i>Computers and Fluids</i> , 2012, 65, 8-24.	1.3	57
1828	Application of a total variation diminishing scheme to electromagnetic hybrid particle-in-cell plasma simulation. <i>Computer Physics Communications</i> , 2012, 183, 2027-2034.	3.0	4
1829	40 Years of FCT: Status and Directions. <i>Scientific Computation</i> , 2012, , 119-143.	0.2	3
1830	Carbuncle Phenomena and Other Shock Anomalies in Three Dimensions. <i>AIAA Journal</i> , 2012, 50, 2655-2669.	1.5	44
1831	Two-dimensional numerical analysis of electroconvection in a dielectric liquid subjected to strong unipolar injection. <i>Physics of Fluids</i> , 2012, 24, .	1.6	95
1832	Simple and Parameter-Free Second Slope Limiter for Unstructured Grid Aerodynamic Simulations. <i>AIAA Journal</i> , 2012, 50, 1415-1426.	1.5	14
1833	On large time step TVD scheme for hyperbolic conservation laws and its efficiency evaluation. <i>Journal of Computational Physics</i> , 2012, 231, 7415-7430.	1.9	14
1834	Hydrogen deflagration simulations under typical containment conditions for nuclear safety. <i>Nuclear Engineering and Design</i> , 2012, 250, 678-686.	0.8	16
1835	Linear Advection Equation. , 2012, , 7-45.		6

#	ARTICLE	IF	CITATIONS
1836	Implicit Numerical Methods for Magnetohydrodynamics. , 2012, , .		1
1837	Shearing box simulations of accretion disk winds. <i>Astronomy and Astrophysics</i> , 2012, 548, A76.	2.1	22
1838	Dynamics of gaseous disks in a non-axisymmetric dark halo. <i>Astronomy Reports</i> , 2012, 56, 16-28.	0.2	16
1839	A Simplified <i>h</i> -box Method for Embedded Boundary Grids. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A861-A888.	1.3	31
1840	A family of efficient high-order hybrid finite difference schemes based on WENO schemes. <i>International Journal of Computational Fluid Dynamics</i> , 2012, 26, 205-229.	0.5	9
1841	Improved total variation diminishing schemes for advection simulation on arbitrary grids. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 359-382.	0.9	35
1842	An upwinded state approximate Riemann solver. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 578-602.	0.9	6
1843	Entropy dissipation scheme and minimumsâ€‘increaseâ€‘andâ€‘maximumsâ€‘decrease slope limiter. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 1221-1243.	0.9	0
1844	A Cartesian grid method for compressible flows to compute shock waves. , 2012, , .		0
1845	Mesoâ€‘scale simulations of solidâ€‘liquid flow and strategies for mesoâ€‘macro coupling. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 795-803.	0.9	0
1846	Quantification of numerically induced mixing and dissipation in discretisations of shallow water equations. <i>GEM - International Journal on Geomathematics</i> , 2012, 3, 51-65.	0.7	5
1847	A comparison study on high-order bounded schemes: Flow of PTT-linear fluid in a lid-driven square cavity. <i>Korea Australia Rheology Journal</i> , 2012, 24, 11-21.	0.7	2
1848	Identification of the initial field of concentrations of cs137 in the black sea after the chernobyl accident on the basis of the solution of a dual problem. <i>Physical Oceanography</i> , 2012, 21, 401-407.	0.4	1
1849	Optimization of the MUSCL scheme by dispersion and dissipation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 844-853.	2.0	11
1850	Impact of Sea Level Rise on Groundwater Salinity in a Coastal Community of South Florida¹. <i>Journal of the American Water Resources Association</i> , 2012, 48, 510-529.	1.0	29
1851	A Method of Accelerating Transport Simulation When Groundwater Pumping Is Simulated. <i>Ground Water</i> , 2012, 50, 464-471.	0.7	0
1852	Linearity-preserving flux correction and convergence acceleration for constrained Galerkin schemes. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 2317-2337.	1.1	43
1853	Binary weighted essentially non-oscillatory (BWENO) approximation. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 2431-2451.	1.1	0

#	ARTICLE	IF	CITATIONS
1854	A continuously differentiable upwinding scheme for the simulation of fluid flow problems. Applied Mathematics and Computation, 2012, 218, 8614-8633.	1.4	4
1855	Adaptation based on interpolation errors for high order mesh refinement methods applied to conservation laws. Applied Numerical Mathematics, 2012, 62, 278-296.	1.2	12
1856	On stability of difference schemes. Central schemes for hyperbolic conservation laws with source terms. Applied Numerical Mathematics, 2012, 62, 895-921.	1.2	1
1857	Numerical error estimation for nonlinear hyperbolic PDEs via nonlinear error transport. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 1-15.	3.4	36
1858	A bounded upwinding scheme for computing convection-dominated transport problems. Computers and Fluids, 2012, 57, 208-224.	1.3	32
1859	A penalty formulation for the throughflow modeling of turbomachinery. Computers and Fluids, 2012, 60, 86-98.	1.3	29
1860	Review of implicit methods for the magnetohydrodynamic description of magnetically confined plasmas. Journal of Computational Physics, 2012, 231, 822-838.	1.9	50
1861	Adaptive numerical algorithms in space weather modeling. Journal of Computational Physics, 2012, 231, 870-903.	1.9	560
1862	A class of hybrid DG/FV methods for conservation laws I: Basic formulation and one-dimensional systems. Journal of Computational Physics, 2012, 231, 1081-1103.	1.9	78
1863	Multi-dimensional limiting for high-order schemes including turbulence and combustion. Journal of Computational Physics, 2012, 231, 2199-2228.	1.9	29
1864	Solution of the equation of radiative transfer using a Newton-Krylov approach and adaptive mesh refinement. Journal of Computational Physics, 2012, 231, 3023-3040.	1.9	32
1865	A high order cell-centered semi-Lagrangian scheme for multi-dimensional kinetic simulations of neutral gas flows. Journal of Computational Physics, 2012, 231, 3289-3316.	1.9	13
1866	Hydrodynamic simulations of viscous accretion flows around black holes. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	6
1867	Local simulations of instabilities in relativistic jets - I. Morphology and energetics of the current-driven instability. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1436-1452.	1.6	44
1868	Simulation of radiation-driven winds from disc galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2153-2161.	1.6	17
1869	A numerical model of online forecasting Black Sea currents. Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 120-132.	0.2	35
1870	On the strong monotonicity of the CABARET scheme. Computational Mathematics and Mathematical Physics, 2012, 52, 387-399.	0.2	20
1871	A discontinuous Galerkin scheme for the numerical solution of flow problems with discontinuities. International Journal for Numerical Methods in Fluids, 2012, 68, 582-604.	0.9	0

#	ARTICLE	IF	CITATIONS
1872	Numerical analysis of flood risk change due to obstruction. KSCE Journal of Civil Engineering, 2012, 16, 207-214.	0.9	14
1873	An oscillation-free high order TVD/CBC-based upwind scheme for convection discretization. Numerical Algorithms, 2012, 59, 29-50.	1.1	12
1874	Strong-Stability-Preserving 7-Stage Hermite-Birkhoff Time-Discretization Methods. Journal of Scientific Computing, 2012, 50, 63-90.	1.1	2
1875	On the efficient application of weighted essentially nonoscillatory scheme. International Journal for Numerical Methods in Fluids, 2013, 71, 185-207.	0.9	27
1876	A novel multidimensional solution reconstruction and edge-based limiting procedure for unstructured cell-centered finite volumes with application to shallow water dynamics. International Journal for Numerical Methods in Fluids, 2013, 71, 584-633.	0.9	31
1877	A formally second-order cell centred scheme for convection-diffusion equations on general grids. International Journal for Numerical Methods in Fluids, 2013, 71, 873-890.	0.9	16
1878	A new TVD method for advection simulation on 2D unstructured grids. International Journal for Numerical Methods in Fluids, 2013, 71, 1260-1281.	0.9	24
1879	Convergence issues in using high-resolution schemes and lower-order upper symmetric Gauss-Seidel method for steady shock-induced combustion problems. International Journal for Numerical Methods in Fluids, 2013, 71, 1422-1437.	0.9	6
1880	On the optimization of flux limiter schemes for hyperbolic conservation laws. Numerical Methods for Partial Differential Equations, 2013, 29, 884-896.	2.0	5
1881	Computational Aerodynamics: Solvers and Shape Optimization. Journal of Heat Transfer, 2013, 135, .	1.2	12
1882	Emergence of Computational Fluid Dynamics at Imperial College (1965-1975): A Personal Recollection. Journal of Heat Transfer, 2013, 135, .	1.2	3
1883	\$\$-adaptive Mesh Method with Double Tolerance Adaptive Strategy for Hyperbolic Conservation Laws. Journal of Scientific Computing, 2013, 56, 616-636.	1.1	3
1884	WENO Schemes and Their Application as Limiters for RKDG Methods Based on Trigonometric Approximation Spaces. Journal of Scientific Computing, 2013, 55, 606-644.	1.1	20
1885	Mapped Hybrid Central-WENO Finite Difference Scheme for Detonation Waves Simulations. Journal of Scientific Computing, 2013, 55, 351-371.	1.1	24
1886	Aerodynamic Characteristics of the Blended Wing Body ACFA2020. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 51-58.	0.2	0
1887	Modification and Applications of a Large Time-Step High Resolution TVD Scheme. , 2013, , .		2
1888	Finite Volume Maximum Principle for Hyperbolic Scalar Problems. SIAM Journal on Numerical Analysis, 2013, 51, 467-490.	1.1	3
1889	Cartesian grid method for the compressible Euler equations using simplified ghost point treatments at embedded boundaries. Computers and Fluids, 2013, 82, 50-62.	1.3	5

#	ARTICLE	IF	CITATIONS
1890	Solution of a kinetic equation for diatomic gas with the use of differential scattering cross sections computed by the method of classical trajectories. Computational Mathematics and Mathematical Physics, 2013, 53, 1026-1043.	0.2	4
1891	A $C^{2\epsilon}$ -continuous high-resolution upwind convection scheme. International Journal for Numerical Methods in Fluids, 2013, 72, 1263-1285.	0.9	1
1892	Deterministic unsteady and aeroelastic flow simulations with high-order FVM schemes. Computing (Vienna/New York), 2013, 95, 145-161.	3.2	0
1893	A semi-discrete central scheme for scalar hyperbolic conservation laws with heterogeneous storage coefficient and its application to porous media flow. International Journal for Numerical Methods in Fluids, 2013, 73, 205-224.	0.9	14
1894	Flux limited schemes: Their classification and accuracy based on total variation stability regions. Applied Mathematics and Computation, 2013, 224, 325-336.	1.4	15
1895	Coupling of shallow water and circulation models for prediction of multiphysics coastal flows: Method, implementation, and experiment. Ocean Engineering, 2013, 62, 56-67.	1.9	15
1896	Compressible Counter-Flowing Hydrogen-Air Combustion. , 2013, , .		0
1897	Chemical evolution during the process of proto-star formation by considering a two dimensional hydrodynamic model. New Astronomy, 2013, 23-24, 118-125.	0.8	19
1898	Effect of enhanced heat and mass transport and flow reversal during cool down on weld pool shapes in laser spot welding of steel. International Journal of Heat and Mass Transfer, 2013, 66, 879-888.	2.5	51
1899	Numerical investigation of electrohydrodynamic plumes for locally enhanced cooling in dielectric liquids. , 2013, , .		0
1900	A hybrid ENO reconstruction with limiters for systems of hyperbolic conservation laws. Mathematical Sciences, 2013, 7, 15.	1.0	1
1901	Software package for solving hyperbolic-type equations. Mathematical Models and Computer Simulations, 2013, 5, 607-616.	0.1	10
1902	Investigation of Several Interpolation Functions for Unstructured Meshes in Conjunction with Compositional Reservoir Simulation. Numerical Heat Transfer; Part A: Applications, 2013, 64, 974-993.	1.2	21
1903	Simulation of multiphase flows in porous media with gravitational effects using dominant wave method. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 1204-1224.	1.6	5
1904	Functional Equivalence Acceptance Testing of FUN3D for Entry, Descent, and Landing Applications. , 2013, , .		16
1905	A Critical Study of the Compressible Lattice Boltzmann Methods for Riemann Problem. Journal of Scientific Computing, 2013, 54, 1-20.	1.1	7
1906	Spectral analysis of nonlinear finite difference discretizations. Journal of Computational and Applied Mathematics, 2013, 246, 113-121.	1.1	7
1907	Linearized Euler simulations of sound propagation with wind effects over a reconstructed urban terrain using digital geographic information. Applied Acoustics, 2013, 74, 1354-1366.	1.7	16

#	ARTICLE	IF	CITATIONS
1908	Kinetic numerical methods for solving the semiclassical Boltzmann-BGK equation. Computers and Fluids, 2013, 85, 153-165.	1.3	3
1909	Simplex stochastic collocation with ENO-type stencil selection for robust uncertainty quantification. Journal of Computational Physics, 2013, 239, 1-21.	1.9	33
1910	Detonation propagation characteristic of H ₂ O-N ₂ mixture in tube and effect of various initial conditions on it. International Journal of Hydrogen Energy, 2013, 38, 13471-13483.	3.8	8
1911	3DFLUX: A high-order fully three-dimensional flux integral solver for the scalar transport equation. Journal of Computational Physics, 2013, 240, 121-144.	1.9	4
1912	A projection method-based model with the exact C-property for shallow-water flows over dry and irregular bottom using unstructured finite-volume technique. Computers and Fluids, 2013, 76, 178-195.	1.3	14
1913	An efficient finite volume method for electric field-space charge coupled problems. Journal of Electrostatics, 2013, 71, 319-325.	1.0	38
1914	Accuracy of the weighted essentially non-oscillatory conservative finite difference schemes. Journal of Computational Physics, 2013, 250, 347-372.	1.9	157
1915	Two-Dimensional Shock-Wave/Boundary-Layer Interaction in the Presence of Entropy Layer. AIAA Journal, 2013, 51, 80-93.	1.5	17
1916	Multidimensional Numerical Noise from Captured Shock Wave and Its Cure. AIAA Journal, 2013, 51, 992-998.	1.5	25
1917	Implicit TVDLF Methods for Diffusion and Kinematic Flows. Journal of Hydraulic Engineering, 2013, 139, 974-983.	0.7	8
1918	Discrete filter operators for large-eddy simulation using high-order spectral difference methods. International Journal for Numerical Methods in Fluids, 2013, 72, 231-258.	0.9	35
1919	Estimation of operating blast furnace reactor invisible interior surface using Differential Evolution. Applied Soft Computing Journal, 2013, 13, 2767-2789.	4.1	8
1920	A Non-oscillatory Central Scheme for One-Dimensional Two-Layer Shallow Water Flows along Channels with Varying Width. Journal of Scientific Computing, 2013, 55, 499-528.	1.1	5
1921	Towards shock-stable and accurate hypersonic heating computations: A new pressure flux for AUSM-family schemes. Journal of Computational Physics, 2013, 245, 62-83.	1.9	184
1922	A Direct Solver for Initial Value Problems of Rarefied Gas Flows of Arbitrary Statistics. Communications in Computational Physics, 2013, 14, 242-264.	0.7	1
1923	Higher order FE-FV method on unstructured grids for transport and two-phase flow with variable viscosity in heterogeneous porous media. Journal of Computational Physics, 2013, 241, 416-444.	1.9	51
1924	Modeling of 3-D problems of gas dynamics on multiprocessing computers and GPU. Computers and Fluids, 2013, 80, 403-407.	1.3	14
1925	Dimensionless Analysis of HSDM and Application to Simulation of Breakthrough Curves of Highly Adsorbent Porous Media. Journal of Environmental Engineering, ASCE, 2013, 139, 667-676.	0.7	12

#	ARTICLE	IF	CITATIONS
1926	Improved ninth order WENO scheme for hyperbolic conservation laws. Applied Mathematics and Computation, 2013, 219, 8198-8212.	1.4	5
1927	High-order central ENO finite-volume scheme for ideal MHD. Journal of Computational Physics, 2013, 250, 141-164.	1.9	45
1928	Laser Vaporization and Plume Chemistry in a Boron Nitride Nanotube Production Rig. Journal of Thermophysics and Heat Transfer, 2013, 27, 369-381.	0.9	12
1929	Highly cited literature of high-speed compressible flow research. Aerospace Science and Technology, 2013, 26, 216-234.	2.5	20
1930	Monotonicity Conditions for Multirate and Partitioned Explicit Runge-Kutta Schemes. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 177-195.	0.2	6
1931	On the convergence of finite difference methods for PDE under temporal refinement. Computers and Mathematics With Applications, 2013, 66, 33-40.	1.4	11
1932	A high-resolution method for the depth-integrated solute transport equation based on an unstructured mesh. Environmental Modelling and Software, 2013, 40, 109-127.	1.9	26
1933	An improved weighted essentially non-oscillatory scheme with a new smoothness indicator. Journal of Computational Physics, 2013, 232, 68-86.	1.9	119
1934	A simple weighted essentially nonoscillatory limiter for Runge-Kutta discontinuous Galerkin methods. Journal of Computational Physics, 2013, 232, 397-415.	1.9	157
1935	The existence of stepsize-coefficients for boundedness of linear multistep methods. Applied Numerical Mathematics, 2013, 63, 45-57.	1.2	6
1936	A finite volume formulation for transient convection and diffusion equations with unstructured distorted grids and its applications in fluid flow simulations with a collocated variable arrangement. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 146-159.	3.4	15
1937	Application of a bounded upwinding scheme to complex fluid dynamics problems. Mathematical and Computer Modelling, 2013, 57, 435-459.	2.0	2
1938	Electric structure of dipolarization fronts associated with interchange instability in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 6019-6025.	0.8	32
1939	An adaptive moving finite volume scheme for modeling flood inundation over dry and complex topography. Water Resources Research, 2013, 49, 1914-1928.	1.7	23
1940	Numerical study of coastal sandbar migration, by hydro-morphodynamical coupling. Environmental Fluid Mechanics, 2013, 13, 169-187.	0.7	16
1941	Parametrized maximum principle preserving flux limiters for high order schemes solving hyperbolic conservation laws: one-dimensional scalar problem. Mathematics of Computation, 2013, 83, 2213-2238.	1.1	69
1942	Numerical simulation of two-phase reactive flow with moving boundary. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 1277-1290.	1.6	19
1943	An MHD simulation model of time-dependent global solar corona with temporally varying solar surface magnetic field maps. Journal of Geophysical Research: Space Physics, 2013, 118, 6889-6906.	0.8	27

#	ARTICLE	IF	CITATIONS
1944	High-order mixed weighted compact and non-compact scheme for shock and small length scale interaction. <i>International Journal of Computer Mathematics</i> , 2013, 90, 376-407.	1.0	2
1945	Effect of different transport observations on inverse modeling results: case study of a long-term groundwater tracer test monitored at high resolution. <i>Hydrogeology Journal</i> , 2013, 21, 1539-1554.	0.9	6
1946	A Further Survey of Shock Capturing Methods on Hypersonic Heating Issues. , 2013, , .		9
1947	Numerical Simulation of Flows Past Partially-Submerged Horizontal Circular Cylinders in Free Surface Waves. , 2013, , .		3
1948	Calculation of Wave Forces on Cylindrical Piles Using a 3D Numerical Wave Tank. , 2013, , .		3
1949	Aerodynamic Design of EAV Propeller using a Multi-Level Optimization Method. , 2013, , .		0
1950	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
1951	A Method for Aerodynamic Characteristic Analysis of Hypersonic Aircraft Based on Response Surface Model. <i>Applied Mechanics and Materials</i> , 2013, 477-478, 277-280.	0.2	2
1952	Influence of Tidal Gate on Hydrodynamic and Sedimentary Environment. <i>Advanced Materials Research</i> , 0, 726-731, 3434-3438.	0.3	0
1953	Application of Total Variation Diminishing for 1D Nozzle Problem. <i>Applied Mechanics and Materials</i> , 0, 393, 872-877.	0.2	0
1954	Hydrodynamic simulation of two-component advective flows around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2836-2843.	1.6	63
1955	An MBO Scheme on Graphs for Classification and Image Processing. <i>SIAM Journal on Imaging Sciences</i> , 2013, 6, 1903-1930.	1.3	82
1956	A high resolution NV/TVD Hermite polynomial upwind scheme for convection-dominated problems. <i>Mathematical Methods in the Applied Sciences</i> , 2013, 36, 1107-1122.	1.2	4
1957	Implicit large-eddy simulation of passive scalar mixing in statistically stationary isotropic turbulence. <i>Physics of Fluids</i> , 2013, 25, .	1.6	39
1958	Non-Oscillatory Central Difference Schemes for Hamilton-Jacobi Equations. , 2013, , .		0
1959	On high-order accurate weighted essentially non-oscillatory and discontinuous Galerkin schemes for compressible turbulence simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120172.	1.6	6
1960	A second-order finite difference approximation for a mathematical model of erythropoiesis. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 1821-1836.	2.0	1
1961	A Second-Order High-Resolution Scheme for a Juvenile-Adult Model of Amphibians. <i>Numerical Functional Analysis and Optimization</i> , 2013, 34, 365-403.	0.6	11

#	ARTICLE	IF	CITATIONS
1962	Research on the End Effect Experiment of New Type 18.4Åmm Kinetic Energy Pain Block Bullet. , 2013, , 865-875.		0
1963	Simulation analysis of the effects of an initial cone position and opening angle on a cone-guided implosion. Physics of Plasmas, 2013, 20, 102703.	0.7	1
1964	Implicit large eddy simulation of shock-driven material mixing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120217.	1.6	9
1965	A technical note on stability analysis of the composite high-resolution schemes satisfying convective boundedness criteria. Progress in Computational Fluid Dynamics, 2013, 13, 357.	0.1	0
1966	Flow Structures and Losses in the Exhaust Port of an Internal Combustion Engine. , 2013, , .		3
1967	Numerical Modeling of Breaking Waves Over a Reef With a Level-Set Based Numerical Wave Tank. , 2013, , .		0
1968	On the origin of divergence errors in MHD simulations and consequences for numerical schemes. Communications in Applied Mathematics and Computational Science, 2013, 8, 1-38.	0.7	6
1969	Consistency, accuracy and entropy behaviour of remeshed particle methods. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 57-81.	0.8	2
1970	Groundwater and Contaminant Hydrology. , 0, , .		2
1971	Evaluating the Capability of the Flux-Limiter Schemes in Capturing Strong Shocks and Discontinuities. Shock and Vibration, 2013, 20, 287-296.	0.3	2
1974	High Speed and Accurate Computing Method for Transient Response of Pneumatic Transmission Line Using Conservative Governing Equations. Transactions of the Japan Fluid Power System Society, 2013, 44, 35-42.	0.4	1
1975	Study of Conservation on Implicit Techniques for Unstructured Finite Volume Navier-Stokes Solvers. Journal of Aerospace Technology and Management, 2014, 6, 267-280.	0.3	2
1976	Analysis of the cavitating flow induced by an ultrasonic horn " Numerical 3D simulation for the analysis of vapour structures and the assessment of erosion-sensitive areas. EPJ Web of Conferences, 2014, 67, 02078.	0.1	9
1977	Numerical Investigation of Equilibrium Wet Steam Flow Property Based on S2 Calculation Code. , 2014, , .		0
1978	Discontinuous Galerkin Method for Time-Dependent Problems: Survey and Recent Developments. The IMA Volumes in Mathematics and Its Applications, 2014, , 25-62.	0.5	29
1979	The formation and stability of Petschek reconnection. Physics of Plasmas, 2014, 21, .	0.7	14
1980	Simple and High-Accurate Schemes for Hyperbolic Conservation Laws. Journal of Applied Mathematics, 2014, 2014, 1-13.	0.4	1
1981	Robust Design Optimization Using a Trended Kriging Surrogate Model and Applications to Unsteady Flows. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
1982	Historical Review on the Roles of Mathematics in the Study of Aerodynamics. , 2014, , 189-197.		0
1983	Analysis of Wave Interaction With Cylinders Using a 3D Numerical Wave Tank. , 2014, , .		0
1984	Reconsidering remap methods. International Journal for Numerical Methods in Fluids, 2014, 76, 587-610.	0.9	6
1985	Mathematical Simulation of a Swirling Viscoplastic Fluid Flow in a Cylindrical Channel. Journal of Engineering Physics and Thermophysics, 2014, 87, 1177-1185.	0.2	6
1986	Free-boundary method for the numerical solution of gas-dynamic equations in domains with varying geometry. Mathematical Models and Computer Simulations, 2014, 6, 612-621.	0.1	23
1987	A Conservative and Convergent Scheme for Undercompressive Shock Waves. SIAM Journal on Numerical Analysis, 2014, 52, 554-579.	1.1	12
1988	Forest Fire Spreading. , 2014, , 1-34.		7
1989	GRHydro: a new open-source general-relativistic magnetohydrodynamics code for the Einstein toolkit. Classical and Quantum Gravity, 2014, 31, 015005.	1.5	110
1990	Mathematical Modeling of Catalytic Oxidation of Methane in a Channel with a Porous Insert. Journal of Engineering Physics and Thermophysics, 2014, 87, 1298-1312.	0.2	7
1991	Numerical solutions of the semiclassical Boltzmann ellipsoidal-statistical kinetic model equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140061.	1.0	1
1992	Numerical Solution Methods. , 2014, , 1089-1273.		0
1993	Effect of plasma- β^2 on the onset of plasmoid instability in Sweet-Parker current sheets. Journal of Plasma Physics, 2014, 80, 655-665.	0.7	9
1994	Numerical assessments of high-order accurate shock capturing schemes: Kelvin-Helmholtz type vortical structures in high-resolutions. Computers and Fluids, 2014, 89, 254-276.	1.3	35
1995	Strong-stability-preserving, Hermite-Birkhoff time-discretization based onkstep methods and 8-stage explicit Runge-Kutta methods of order 5 and 4. Journal of Computational and Applied Mathematics, 2014, 263, 45-58.	1.1	1
1996	A note on the numerical dissipation from high-order discontinuous finite element schemes. Computers and Fluids, 2014, 98, 186-195.	1.3	14
1997	Numerical experiments using a HLLC-type scheme with ALE formulation for compressible two-phase flows five-equation models with phase transition. Computers and Fluids, 2014, 94, 112-138.	1.3	39
1998	Phase Appearance or Disappearance in Two-Phase Flows. Journal of Scientific Computing, 2014, 58, 115-148.	1.1	24
1999	CPU/GPU computing for a multi-block structured grid based high-order flow solver on a large heterogeneous system. Cluster Computing, 2014, 17, 255-270.	3.5	12

#	ARTICLE	IF	CITATIONS
2000	Fundamental Algorithms in Computational Fluid Dynamics. Scientific Computation, 2014, , .	0.2	27
2001	Multi-resolution analysis for high accuracy and efficiency of Euler computation. International Journal for Numerical Methods in Fluids, 2014, 74, 661-683.	0.9	4
2002	A Riemann solver for RANS. Computational Mathematics and Mathematical Physics, 2014, 54, 135-147.	0.2	0
2003	Optimal Strong-Stability-Preserving Runge-Kutta Time Discretizations for Discontinuous Galerkin Methods. Journal of Scientific Computing, 2014, 60, 313-344.	1.1	45
2005	Simulations of scalar dispersion in fluidized solid-liquid suspensions. AIChE Journal, 2014, 60, 1880-1890.	1.8	13
2006	High-order solution-adaptive central essentially non-oscillatory (CENO) method for viscous flows. Journal of Computational Physics, 2014, 257, 830-862.	1.9	70
2007	The generalized Riemann problems for compressible fluid flows: Towards high order. Journal of Computational Physics, 2014, 259, 358-389.	1.9	31
2008	Simulations of solid-liquid scalar transfer for a spherical particle in laminar and turbulent flow. AIChE Journal, 2014, 60, 1202-1215.	1.8	9
2009	DEVELOPMENT AND ASSESSMENT OF SEVERAL HIGH-RESOLUTION SCHEMES FOR COMPRESSIBLE EULER EQUATIONS. International Journal of Computational Methods, 2014, 11, 1350049.	0.8	2
2010	Simulation of the compressible flow with mass transfer of semi-continuous mixtures using the direct quadrature method of moments. Computers and Chemical Engineering, 2014, 64, 153-166.	2.0	3
2011	Heat transfer modeling in exhaust systems of high-performance two-stroke engines. Applied Thermal Engineering, 2014, 69, 96-104.	3.0	8
2012	Higher-order multi-dimensional limiting strategy for discontinuous Galerkin methods in compressible inviscid and viscous flows. Computers and Fluids, 2014, 96, 377-396.	1.3	28
2013	Accelerated solution of problems of combustion gas dynamics on GPUs. Computers and Fluids, 2014, 90, 164-171.	1.3	6
2014	Structural Wall-modeled LES Using a High-order Spectral Difference Scheme for Unstructured Meshes. Flow, Turbulence and Combustion, 2014, 92, 579-606.	1.4	46
2015	Switch flux limiter method for viscous and nonviscous conservation laws. Applied Mathematics and Computation, 2014, 246, 292-305.	1.4	1
2016	Modification of the CABARET scheme ensuring its strong monotonicity and high accuracy on local extrema. Doklady Mathematics, 2014, 90, 453-457.	0.1	1
2017	Simulations of solid-liquid mass transfer in fixed and fluidized beds. Chemical Engineering Journal, 2014, 255, 233-244.	6.6	24
2018	A High-Order Dirac-Delta Regularization with Optimal Scaling in the Spectral Solution of One-Dimensional Singular Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2014, 36, A1831-A1849.	1.3	18

#	ARTICLE	IF	CITATIONS
2019	Data-driven numerical simulations and forecasts of equatorial spread F in the peruvian sector. , 2014, , .		0
2020	Numerical Simulations of the Sandia Flame D Using the Eddy Dissipation Concept. Flow, Turbulence and Combustion, 2014, 93, 665-687.	1.4	48
2021	High resolution numerical schemes for solving kinematic wave equation. Journal of Hydrology, 2014, 519, 823-832.	2.3	8
2022	Gravity wave effects on postsunset equatorial F_2 region stability. Journal of Geophysical Research: Space Physics, 2014, 119, 5847-5860.	0.8	20
2023	CFD modeling of bubbling fluidized beds using OpenFOAM®: Model validation and comparison of TVD differencing schemes. Computers and Chemical Engineering, 2014, 69, 75-88.	2.0	29
2024	Analysis of One-Dimensional Inviscid and Two-Dimensional Viscous Flows Using Entropy Preserving Method. Arabian Journal for Science and Engineering, 2014, 39, 7315-7325.	1.1	1
2025	Application of Compact-Reconstruction Weighted Essentially Nonoscillatory Schemes to Compressible Aerodynamic Flows. AIAA Journal, 2014, 52, 1858-1870.	1.5	12
2026	Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB. , 2014, , .		25
2027	Simulating the filtration combustion of gases on multi-core computers. Journal of Applied and Industrial Mathematics, 2014, 8, 218-226.	0.1	2
2028	High-resolution Roe's scheme and characteristic boundary conditions for solving complex wave reflection phenomena in a tree-like arterial structure. Journal of Computational Physics, 2014, 260, 143-162.	1.9	3
2029	A level set two-way wave equation approach for Eulerian interface tracking. Journal of Computational Physics, 2014, 259, 617-635.	1.9	4
2030	Computational and experimental studies of rapid free-surface granular flows around obstacles. Computers and Fluids, 2014, 89, 179-190.	1.3	7
2031	Steady-state and dynamic behavior of a moderated molten salt reactor. Annals of Nuclear Energy, 2014, 64, 365-379.	0.9	12
2032	Modified weighted compact scheme with global weights for shock capturing. Computers and Fluids, 2014, 96, 165-176.	1.3	17
2033	High order accurate and low dissipation method for unsteady compressible viscous flow computation on helicopter rotor in forward flight. Journal of Computational Physics, 2014, 258, 470-488.	1.9	22
2034	Data-driven numerical simulations of equatorial spread F_2 in the Peruvian sector. Journal of Geophysical Research: Space Physics, 2014, 119, 3815-3827.	0.8	22
2035	A stabilized finite element formulation for high-speed inviscid compressible flows using finite calculus. International Journal for Numerical Methods in Fluids, 2014, 74, 872-897.	0.9	6
2038	On the practical accuracy of shock-capturing schemes. Mathematical Models and Computer Simulations, 2014, 6, 183-191.	0.1	24

#	ARTICLE	IF	CITATIONS
2039	Hybrid Large-Eddy/Reynolds-Averaged Navier–Stokes Simulations of Flow Through a Model Scramjet. AIAA Journal, 2014, 52, 1417-1429.	1.5	42
2040	High-order conservative reconstruction schemes for finite volume methods in cylindrical and spherical coordinates. Journal of Computational Physics, 2014, 270, 784-814.	1.9	96
2041	A High-Order Accurate Gas-Kinetic Scheme for One- and Two-Dimensional Flow Simulation. Communications in Computational Physics, 2014, 15, 911-943.	0.7	24
2042	Cross-shore variation of water surface elevation and velocity during bore propagation. Journal of Coastal Research, 2014, 70, 533-538.	0.1	1
2043	Numerical code for multi-component galaxies: from N-body to chemistry and magnetic fields. Journal of Physics: Conference Series, 2014, 510, 012011.	0.3	19
2044	Study on Accuracy of the High-Resolution Schemes. Advances in Mechanical Engineering, 2014, 6, 905053.	0.8	0
2045	TVD and ENO Applications to Supersonic Flows in 2D. , 2014, , .		2
2046	High resolution schemes for genuinely two-dimensional HLL Riemann solver. Progress in Computational Fluid Dynamics, 2014, 14, 205.	0.1	10
2047	Modal and non-modal stability analysis of electrohydrodynamic flow with and without cross-flow. Journal of Fluid Mechanics, 2015, 770, 319-349.	1.4	57
2048	A community benchmark for viscoplastic thermal convection in a 2D square box. Geochemistry, Geophysics, Geosystems, 2015, 16, 2175-2196.	1.0	69
2049	The technique of MIEELDL as a measure of the shock-capturing property of numerical methods for hyperbolic conservation laws. Progress in Computational Fluid Dynamics, 2015, 15, 247.	0.1	6
2050	Numerical 3D flow simulation of attached cavitation structures at ultrasonic horn tips and statistical evaluation of flow aggressiveness via load collectives. Journal of Physics: Conference Series, 2015, 656, 012052.	0.3	4
2051	The effect of spatial perturbations of a supersonic flow on heat flux to the surface of blunt bodies. High Temperature, 2015, 53, 677-689.	0.1	4
2052	Grid-based Methods in Relativistic Hydrodynamics and Magnetohydrodynamics. Living Reviews in Solar Physics, 2015, 1, 3.	5.0	61
2053	<i>a priori</i> error estimates to smooth solutions of the third order Runge–Kutta discontinuous Galerkin method for symmetrizable systems of conservation laws. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 991-1018.	0.8	17
2054	Evolution of Kelvin-Helmholtz instability at Venus in the presence of the parallel magnetic field. Physics of Plasmas, 2015, 22, .	0.7	3
2055	On a family of monotone finite-difference schemes of the second order of approximation. AIP Conference Proceedings, 2015, , .	0.3	2
2056	High-order interpolation schemes for shear instability simulations. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1340-1360.	1.6	8

#	ARTICLE	IF	CITATIONS
2057	Segregation of a Keplerian disc and sub-Keplerian halo from a transonic flow around a black hole by viscosity and cooling processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3221-3228.	1.6	22
2058	Hall and finite Larmor radius effects on the dipolarization fronts associated with interchange instability. <i>Geophysical Research Letters</i> , 2015, 42, 10,099.	1.5	12
2059	Numerical study of heterogeneous mean temperature and shock wave in a resonator. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	3
2060	Application of a compressible flow solver and barotropic cavitation model for the evaluation of the suction head in a low specific speed centrifugal pump impeller channel. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012065.	0.3	2
2061	Numerical 3D analysis of cloud cavitation shedding frequency on a circular leading edge hydrofoil with a barotropic cavitation model. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012146.	0.3	2
2062	Effects of turbulent viscosity on a rotating gas ring around a black hole: Results of numerical simulations. <i>Astronomische Nachrichten</i> , 2015, 336, 1005-1012.	0.6	0
2063	Keeping the edge: A numerical method that avoids knickpoint smearing when solving the stream power law. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1189-1205.	1.0	33
2064	COMPARISON OF 2D AND 3D SIMULATIONS OF AN OWC DEVICE IN DIFFERENT CONFIGURATIONS. <i>Coastal Engineering Proceedings</i> , 2015, 1, 66.	0.1	4
2066	Methods and Tools for Robust Optimal Control of Batch Chromatographic Separation Processes. <i>Processes</i> , 2015, 3, 568-606.	1.3	11
2067	3D hydrodynamic simulations of the Galactic supernova remnant CTB 109. <i>Astronomy and Astrophysics</i> , 2015, 582, A47.	2.1	8
2068	A 3D Total Variation Diminishing Scheme for Compositional Reservoir Simulation Using the Element-Based Finite-Volume Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 839-856.	1.2	15
2069	An extension of AUFSSR scheme for the ideal magnetohydrodynamics equations. <i>Computers and Fluids</i> , 2015, 114, 297-313.	1.3	5
2071	Hybrid Compact-WENO Finite Difference Scheme For Detonation Waves Simulations. <i>Lecture Notes in Computational Science and Engineering</i> , 2015, , 179-187.	0.1	2
2072	Error estimates for forward Euler shock capturing finite element approximations of the one-dimensional Burgers' equation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 2015-2042.	1.7	2
2073	A Scheme For Inviscid Compressible Flow, Considering A Gas In Thermo-chemical Equilibrium. <i>International Journal of Computational Methods</i> , 2015, 12, 1550015.	0.8	4
2074	The motion of entrapped air cavities in inclined ducts. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 814-819.	0.7	8
2075	Simulation of electromagnetic scattering with stationary or accelerating targets. <i>International Journal of Modern Physics C</i> , 2015, 26, 1550075.	0.8	3
2076	A High-Order Finite-Volume Method for Compressible Flows on Moving Tetrahedral Grids. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
2077	Discontinuous Galerkin finite element method for solving population density functions of cortical pyramidal and thalamic neuronal populations. <i>Computers in Biology and Medicine</i> , 2015, 57, 150-158.	3.9	3
2078	A Maximum-Principle-Satisfying High-Order Finite Volume Compact WENO Scheme for Scalar Conservation Laws with Applications in Incompressible Flows. <i>Journal of Scientific Computing</i> , 2015, 65, 83-109.	1.1	12
2079	On two-dimensional finite amplitude electro-convection in a dielectric liquid induced by a strong unipolar injection. <i>Journal of Electrostatics</i> , 2015, 74, 85-95.	1.0	32
2080	Self-adjusting entropy-stable scheme for compressible Euler equations. <i>Chinese Physics B</i> , 2015, 24, 020202.	0.7	4
2081	Modeling and simulation of mixing in water-in-oil emulsion flow through a valve-like element using a population balance model. <i>Computers and Chemical Engineering</i> , 2015, 75, 155-170.	2.0	20
2082	Influence of non-reactive particle cloud on heterogeneous detonation propagation. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 404-415.	1.7	6
2083	Simulation of Air Cavity Advancing into a Straight Duct. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	0.7	8
2084	Numerical simulation of dust dispersion using molecular-kinetic model for description of particle-to-particle collisions. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 223-229.	1.7	14
2085	Model Equation for the Dynamics of Wrinkled Shockwaves: Comparison with DNS and Experiments. <i>Combustion Science and Technology</i> , 2015, 187, 296-323.	1.2	20
2086	Numerical Investigation of Electrohydrodynamic Plumes for Locally Enhanced Cooling in Dielectric Liquids. <i>IEEE Transactions on Industry Applications</i> , 2015, 51, 669-678.	3.3	11
2087	Implicit Large Eddy Simulation of weakly-compressible turbulent channel flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 287, 229-261.	3.4	56
2088	Multislope MUSCL method for general unstructured meshes. <i>Journal of Computational Physics</i> , 2015, 284, 389-418.	1.9	51
2089	High Resolution, Entropy-Consistent Scheme Using Flux Limiter for Hyperbolic Systems of Conservation Laws. <i>Journal of Scientific Computing</i> , 2015, 64, 914-937.	1.1	15
2090	Hybrid Fourier-Continuation Method and Weighted Essentially Non-oscillatory Finite Difference Scheme for Hyperbolic Conservation Laws in a Single-Domain Framework. <i>Journal of Scientific Computing</i> , 2015, 64, 670-695.	1.1	11
2091	A conservative discrete ordinate method for solving semiclassical Boltzmann-BGK equation with Maxwell type wall boundary condition. <i>Journal of Computational Physics</i> , 2015, 290, 112-131.	1.9	3
2092	Simulations of liquid-to-solid mass transfer in a fluidized microchannel. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 829-839.	1.0	2
2093	An approximate Riemann solver for shallow water equations and heat advection in horizontal centrifugal casting. <i>Applied Mathematics and Computation</i> , 2015, 267, 179-194.	1.4	3
2094	An optimized dispersion-relationship-preserving combined compact difference scheme to solve advection equations. <i>Journal of Computational Physics</i> , 2015, 300, 92-115.	1.9	11

#	ARTICLE	IF	CITATIONS
2095	An intercomparison study between RAMS and CRES-Flow-NS models and evaluation with wind tunnel experimental data: Toward improving atmospheric modeling for wind resource assessment. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 142, 272-288.	1.7	5
2096	TVD differencing on three-dimensional unstructured meshes with monotonicity-preserving correction of mesh skewness. <i>Journal of Computational Physics</i> , 2015, 298, 466-479.	1.9	29
2097	Design of Efficient Propellers Using Variable-Fidelity Aerodynamic Analysis and Multilevel Optimization. <i>Journal of Propulsion and Power</i> , 2015, 31, 1057-1072.	1.3	26
2098	Origins and Further Development of the Jameson-Schmidt-Turkel Scheme (Invited). , 2015, , .		3
2099	A front-tracking method for computational modeling of viscoelastic two-phase flow systems. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 223, 122-140.	1.0	42
2100	A Finite-Volume Method for Electro-Thermoconvective Phenomena in a Plane Layer of Dielectric Liquid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 471-500.	1.2	74
2101	Rarefied gas flow simulations using high-order gas-kinetic unified algorithms for Boltzmann model equations. <i>Progress in Aerospace Sciences</i> , 2015, 74, 81-113.	6.3	62
2102	Improvement of weighted compact scheme with multi-step strategy for supersonic compressible flow. <i>Computers and Fluids</i> , 2015, 115, 243-255.	1.3	13
2103	Liouville equation-based stochastic model for shoreline evolution. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1867-1880.	1.9	2
2104	Finite Difference Hermite WENO Schemes for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2015, 63, 548-572.	1.1	40
2105	Validation results for the LOGOS multifunction software package in solving problems of aerodynamics and gas dynamics for the lift-off and injection of launch vehicles. <i>Mathematical Models and Computer Simulations</i> , 2015, 7, 144-153.	0.1	10
2106	A finite element model based on triangular mesh for convection-dominated stationary flows. <i>European Journal of Computational Mechanics</i> , 2015, 24, 16-33.	0.6	0
2107	Evaluation of Riemann flux solvers for WENO reconstruction schemes: Kelvinâ€™Helmholtz instability. <i>Computers and Fluids</i> , 2015, 117, 24-41.	1.3	49
2108	Fluidic Control of a 155 Millimeter Spin-Stabilized Projectile Using Coanda Effect. <i>AIAA Journal</i> , 2015, 53, 1146-1158.	1.5	7
2109	Principles of Solution of the Governing Equations. , 2015, , 29-72.		7
2110	Structured Finite-Volume Schemes. , 2015, , 73-120.		2
2111	Characteristic analysis of the flux vector of the Euler equations at different advection/pressure split procedures for hypersonic flow simulations. , 2015, , .		0
2112	High-Order Methods for Conservation Laws Employing Embedded Structured Element Method on Unstructured Hexahedral Grid. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
2113	Sergei Konstantinovich Godunov has turned 85 years old. <i>Russian Mathematical Surveys</i> , 2015, 70, 561-590.	0.2	0
2114	Finite difference approximations for a size-structured population model with distributed states in the recruitment. <i>Journal of Biological Dynamics</i> , 2015, 9, 2-31.	0.8	4
2115	A flood inundation modelling using v-support vector machine regression model. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 46, 223-231.	4.3	32
2116	Vibro-Injection Pile Installation in Sand: Part II – Numerical and Experimental Investigation. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2015, , 103-131.	2.0	11
2117	Evaluating wave forces on groups of three and nine cylinders using a 3D numerical wave tank. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 343-354.	1.5	21
2118	Numerical error control for second-order explicit TVD scheme with limiters in advection simulation. <i>Computers and Mathematics With Applications</i> , 2015, 70, 2197-2209.	1.4	8
2119	A review on TVD schemes and a refined flux-limiter for steady-state calculations. <i>Journal of Computational Physics</i> , 2015, 302, 114-154.	1.9	70
2120	Preconditioning of gas dynamics equations in compressible gas flow computations at low mach numbers. <i>Computational Mathematics and Mathematical Physics</i> , 2015, 55, 1051-1067.	0.2	1
2121	A second-order high-resolution finite difference scheme for a size-structured model for the spread of <i>Mycobacterium marinum</i> . <i>Journal of Biological Dynamics</i> , 2015, 9, 156-187.	0.8	5
2122	A numerical method to simulate turbulent cavitating flows. <i>International Journal of Multiphase Flow</i> , 2015, 70, 22-34.	1.6	68
2123	High-order central ENO finite-volume scheme for hyperbolic conservation laws on three-dimensional cubed-sphere grids. <i>Journal of Computational Physics</i> , 2015, 282, 157-182.	1.9	34
2124	Investigation of numerical viscosities and dissipation rates of second-order TVD-MUSCL schemes for implicit large-eddy simulation. <i>Journal of Computational Physics</i> , 2015, 281, 1003-1031.	1.9	13
2125	Understanding explosions – From catastrophic accidents to creation of the universe. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1-35.	2.4	60
2126	Hybrid discrete/continuum algorithms for stochastic reaction networks. <i>Journal of Computational Physics</i> , 2015, 281, 177-198.	1.9	11
2127	Numerical smearing, ray effect, and angular false scattering in radiation transfer computation. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 63-74.	2.5	34
2128	Recent advances on the numerical modelling of turbulent flows. <i>Applied Mathematical Modelling</i> , 2015, 39, 693-732.	2.2	352
2129	Quad-Tree decomposition method for areal upscaling of heterogeneous reservoirs: Application to arbitrary shaped reservoirs. <i>Fuel</i> , 2015, 139, 659-670.	3.4	3
2130	On the performance of high resolution non-oscillating advection schemes in the context of the flow generated by a mixed region in a stratified fluid. <i>Mathematics and Computers in Simulation</i> , 2016, 127, 203-219.	2.4	1

#	ARTICLE	IF	CITATIONS
2131	A SOLUTION OF THE CONSERVATION LAW FORM OF THE SERRE EQUATIONS. ANZIAM Journal, 2016, 57, 385-394.	0.3	1
2132	On the monotonicity of multidimensional finite difference schemes. AIP Conference Proceedings, 2016, , ,	0.3	0
2133	The Finite Volume Method (FVM). , 2016, , 277-338.		8
2134	Local maximum principle satisfying high-order non-oscillatory schemes. International Journal for Numerical Methods in Fluids, 2016, 81, 689-715.	0.9	6
2135	Simulation of all-scale atmospheric dynamics on unstructured meshes. Journal of Computational Physics, 2016, 322, 267-287.	1.9	19
2136	Inlet effects on roll-wave development in shallow turbulent open-channel flows. Journal of Hydrology and Hydromechanics, 2016, 64, 45-55.	0.7	8
2137	Euler model of mass loss in the process of hypersonic solid particle impact. , 2016, ,		0
2138	A refined r -factor algorithm for TVD schemes on arbitrary unstructured meshes. International Journal for Numerical Methods in Fluids, 2016, 80, 105-139.	0.9	14
2139	TVD scheme for stiff problems of wave dynamics of heterogeneous media of nonhyperbolic nonconservative type. Computational Mathematics and Mathematical Physics, 2016, 56, 2068-2078.	0.2	13
2140	Arbitrary Lagrangian-Eulerian discontinuous Galerkin method for conservation laws: Analysis and application in one dimension. Mathematics of Computation, 2016, 86, 1203-1232.	1.1	34
2141	Study of Water Impact and Entry of a Free Falling Wedge Using CFD Simulations. , 2016, ,		0
2142	Hybrid, explicit-implicit, finite-volume schemes on unstructured grids for unsteady compressible flows. AIP Conference Proceedings, 2016, , ,	0.3	2
2144	Numerical Simulations of Two Coaxial Vortex Rings Head-on Collision. Advances in Applied Mathematics and Mechanics, 2016, 8, 616-647.	0.7	3
2145	A Constant-Pressure Model for the Overlap of Chambers in Rotary Internal Combustion Engines. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	1
2146	MULTI-FLUID APPROACH TO HIGH-FREQUENCY WAVES IN PLASMAS. I. SMALL-AMPLITUDE REGIME IN FULLY IONIZED MEDIUM. Astrophysical Journal, 2016, 832, 101.	1.6	18
2147	Monotonicity of the CABARET scheme approximating a hyperbolic equation with a sign-changing characteristic field. Computational Mathematics and Mathematical Physics, 2016, 56, 783-801.	0.2	8
2148	SIMULATIONS OF VISCOUS ACCRETION FLOW AROUND BLACK HOLES IN A TWO-DIMENSIONAL CYLINDRICAL GEOMETRY. Astrophysical Journal, 2016, 831, 33.	1.6	28
2149	Polarized radiative transfer in discontinuous media. Astronomy and Astrophysics, 2016, 586, A42.	2.1	12

#	ARTICLE	IF	CITATIONS
2150	CFD Simulations of Non-Linear Sloshing in a Rotating Rectangular Tank Using the Level Set Method. , 2016, , .		1
2151	Subgrid and Supergrid Modeling. , 0, , 107-133.		0
2152	Unsteady laminar gas flows in an annular nozzle. High Temperature, 2016, 54, 837-841.	0.1	2
2153	A front-tracking shock-capturing method for two gases. Communications in Applied Mathematics and Computational Science, 2016, 11, 1-35.	0.7	3
2154	High-Resolution Schemes. , 0, , 285-379.		0
2156	Application of the program package TURBO problem solver for some fluid dynamics problems. Computational Mathematics and Mathematical Physics, 2016, 56, 1162-1173.	0.2	4
2157	Scale-Dependent Mixing for Adverse Mobility Ratio Flows in Heterogeneous Porous Media. Transport in Porous Media, 2016, 113, 29-50.	1.2	19
2158	Total variation diminishing and mass conservative implementation of hydrological flow routing. Journal of Hydrology, 2016, 539, 188-195.	2.3	4
2159	Computational aerodynamics: Advances and challenges. Aeronautical Journal, 2016, 120, 13-36.	1.1	14
2160	Direct numerical simulation of shock wavy-wall interaction: analysis of cellular shock structures and flow patterns. Journal of Fluid Mechanics, 2016, 789, 221-258.	1.4	33
2161	Evaluation of rotated upwind schemes for contact discontinuity and strong shock. Computers and Fluids, 2016, 134-135, 11-22.	1.3	22
2162	Solution Methods for the Incompressible Navier–Stokes Equations. , 2016, , 41-1-41-22.		3
2163	Surrogate-Based Robust Optimization and Design to Unsteady Low-Noise Open Rotors. Journal of Aircraft, 2016, 53, 1448-1467.	1.7	14
2164	High Order Maximum Principle Preserving Finite Volume Method for Convection Dominated Problems. Journal of Scientific Computing, 2016, 67, 795-820.	1.1	11
2165	A central scheme for advecting scalars by velocity fields obtained from Finite Volume multiphase incompressible solvers. Applied Mathematical Modelling, 2016, 40, 6934-6955.	2.2	3
2166	An Efficient Filtered Scheme for Some First Order Time-Dependent Hamilton–Jacobi Equations. SIAM Journal of Scientific Computing, 2016, 38, A171-A195.	1.3	17
2167	Finite Difference Hermite WENO Schemes for Conservation Laws, II: An Alternative Approach. Journal of Scientific Computing, 2016, 66, 598-624.	1.1	32
2168	A Roe-like numerical method for weakly hyperbolic systems of equations in conservation and non-conservation form. Journal of Computational Physics, 2016, 316, 117-138.	1.9	10

#	ARTICLE	IF	CITATIONS
2169	An accurate shock-capturing scheme based on rotated-hybrid Riemann solver. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1310-1327.	1.6	5
2170	Numerical Solution of Multidimensional Hyperbolic PDEs Using Defect Correction on Adaptive Grids. Journal of Scientific Computing, 2016, 69, 581-609.	1.1	1
2171	A new fifth order finite difference WENO scheme for solving hyperbolic conservation laws. Journal of Computational Physics, 2016, 318, 110-121.	1.9	167
2172	Open-loop optimal control of batch chromatographic separation processes using direct collocation. Journal of Process Control, 2016, 46, 55-74.	1.7	18
2173	Numerical analysis of the nonlinear plane Couette-flow problem of a rarefied gas for hard-sphere molecules. European Journal of Mechanics, B/Fluids, 2016, 60, 148-163.	1.2	12
2174	A Lagrangian finite element method for 3D compressible flow applications. Computer Methods in Applied Mechanics and Engineering, 2016, 311, 374-392.	3.4	13
2175	A fixed grid, shifted stencil scheme for inviscid fluid-particle interaction. Applied Numerical Mathematics, 2016, 110, 26-40.	1.2	3
2176	Large Time Step TVD Schemes for Hyperbolic Conservation Laws. SIAM Journal on Numerical Analysis, 2016, 54, 2775-2798.	1.1	14
2177	High order accurate dual-phase-lag numerical model for microscopic heating in multiple domains. International Communications in Heat and Mass Transfer, 2016, 78, 21-28.	2.9	5
2178	Boundary Variation Diminishing (BVD) reconstruction: A new approach to improve Godunov schemes. Journal of Computational Physics, 2016, 322, 309-325.	1.9	87
2180	Discontinuous Galerkin Methods for Time-Dependent Convection Dominated Problems: Basics, Recent Developments and Comparison with Other Methods. Lecture Notes in Computational Science and Engineering, 2016, , 371-399.	0.1	12
2181	The data from the numerical investigation of turbulent combustion in jet flows. Mathematical Models and Computer Simulations, 2016, 8, 301-308.	0.1	0
2182	A Second Order Time Homogenized Model for Sediment Transport. Multiscale Modeling and Simulation, 2016, 14, 965-996.	0.6	2
2183	A central-upwind scheme with artificial viscosity for shallow-water flows in channels. Advances in Water Resources, 2016, 96, 323-338.	1.7	18
2184	Do turbulence models deteriorate solutions using a non-oscillatory scheme?. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 156, 41-49.	1.7	11
2185	Flood hazard assessment for extreme flood events. Natural Hazards, 2016, 84, 1569-1599.	1.6	103
2186	Coupled Two-Dimensional Surface Flow and Three-Dimensional Subsurface Flow Modeling for Drainage of Permeable Road Pavement. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	11
2187	Numerical simulation of vertical oscillations in an axisymmetric thick accretion flow around a black hole. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3502-3510.	1.6	4

#	ARTICLE	IF	CITATIONS
2188	Sixth-order Weighted Essentially Nonoscillatory Schemes Based on Exponential Polynomials. SIAM Journal of Scientific Computing, 2016, 38, A1987-A2017.	1.3	16
2189	Comparison and modification: TVD schemes for scalar transport on an unstructured grid. China Ocean Engineering, 2016, 30, 615-626.	0.6	1
2190	An improved accurate monotonicity-preserving scheme for the Euler equations. Computers and Fluids, 2016, 140, 1-10.	1.3	20
2191	An efficient adaptive high-order scheme based on the WENO process. Computers and Fluids, 2016, 140, 81-96.	1.3	14
2192	A new level set numerical wave tank with improved density interpolation for complex wave hydrodynamics. Computers and Fluids, 2016, 140, 191-208.	1.3	157
2193	Continuous solar wind forcing knowledge: Providing continuous conditions at Mars with the WSA+ENLIL+Cone model. Journal of Geophysical Research: Space Physics, 2016, 121, 6207-6222.	0.8	10
2194	Propagation of an Air-Water Interface from Pressurized to Free-Surface Flow in a Circular Pipe. Journal of Hydraulic Engineering, 2016, 142, .	0.7	10
2195	Family of quasi-monotonic finite-difference schemes of the second-order of approximation. Mathematical Models and Computer Simulations, 2016, 8, 487-496.	0.1	24
2196	Stability, Error Estimate and Limiters of Discontinuous Galerkin Methods. Handbook of Numerical Analysis, 2016, , 147-171.	0.9	3
2197	Spectral Volume and Spectral Difference Methods. Handbook of Numerical Analysis, 2016, , 199-226.	0.9	2
2198	Derivative artificial compression method for conservation laws with multi-dimensional extension. International Journal of Computational Fluid Dynamics, 2016, 30, 455-468.	0.5	0
2199	Time Discretization Techniques. Handbook of Numerical Analysis, 2016, , 549-583.	0.9	6
2200	Simulation of dissolution in porous media in three dimensions with lattice Boltzmann, finite-volume, and surface-rescaling methods. Physical Review E, 2016, 94, 043320.	0.8	17
2201	Simulating nonlinear cosmological structure formation with massive neutrinos. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 015-015.	1.9	97
2202	Uncertainty Quantification in Aeroelastic Problems. , 2016, , 151-180.		0
2203	CABARET scheme's modification ensuring its high accuracy on local extrema. Mathematical Models and Computer Simulations, 2016, 8, 231-237.	0.1	0
2204	Mathematical Modeling of the Heat Transfer and Chemical Reaction of a Swirling Flow of a Dissociative Gas. Journal of Engineering Physics and Thermophysics, 2016, 89, 127-134.	0.2	7
2205	Correlation between the discontinuous Galerkin method and MUSCL-type schemes. Mathematical Models and Computer Simulations, 2016, 8, 285-300.	0.1	3

#	ARTICLE	IF	CITATIONS
2206	Termination of the magnetorotational instability via parasitic instabilities in core-collapse supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3782-3802.	1.6	37
2207	On the maximum magnetic field amplification by the magnetorotational instability in core-collapse supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3316-3334.	1.6	46
2208	xtroem-fv: a new code for computational astrophysics based on very high order finite-volume methods – II. Relativistic hydro- and magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 535-559.	1.6	16
2209	Laminar-Turbulent Transition on a Flared Cone at Mach 6. , 2016, , .		9
2210	Uncertainty Quantification and Sensitivity Analysis applied to an under-expanded single jet. , 2016, , .		2
2211	Extension of Kestrel to General Thermochemical Models, Part I. , 2016, , .		14
2212	A third-order KdV solution for internal solitary waves and its application in the numerical wave tank. <i>Journal of Ocean Engineering and Science</i> , 2016, 1, 93-108.	1.7	14
2213	High-order finite volume WENO schemes for Boussinesq modelling of nearshore wave processes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 646-662.	0.7	5
2214	A new $\langle i \rangle r \langle /i \rangle$ ratio formulation for TVD schemes for vertex-centered FVM on an unstructured mesh. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 81, 741-764.	0.9	3
2215	Well-posedness of a conservation law with non-local flux arising in traffic flow modeling. <i>Numerische Mathematik</i> , 2016, 132, 217-241.	0.9	77
2216	Exploring various flux vector splittings for the magnetohydrodynamic system. <i>Journal of Computational Physics</i> , 2016, 311, 1-21.	1.9	17
2217	Error Estimates of a First-order Lagrange Finite Element Technique for Nonlinear Scalar Conservation Equations. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 57-85.	1.1	3
2218	Cost Effective Multi-Resolution Analysis Applied to Implicit Temporal Integration. , 2016, , .		0
2219	Construction Methodology of Weighted Upwind Compact Scheme. , 2016, , .		2
2220	Numerical homogenization of a second order discrete model for traffic flow. <i>Computers and Mathematics With Applications</i> , 2016, 71, 29-45.	1.4	1
2221	xtroem-fv: a new code for computational astrophysics based on very high order finite-volume methods – I. Magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3458-3479.	1.6	15
2222	Assessment of SLAU2 and other flux functions with slope limiters in hypersonic shock-interaction heating. <i>Computers and Fluids</i> , 2016, 129, 134-145.	1.3	25
2223	Seventh order Hermite WENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2016, 131, 66-80.	1.3	26

#	ARTICLE	IF	CITATIONS
2224	Compact high order finite volume method on unstructured grids I: Basic formulations and one-dimensional schemes. <i>Journal of Computational Physics</i> , 2016, 314, 863-882.	1.9	32
2225	Numerical 3D flow simulation of ultrasonic horns with attached cavitation structures and assessment of flow aggressiveness and cavitation erosion sensitive wall zones. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 570-589.	3.8	46
2226	Hybrid Compact-WENO Finite Difference Scheme with Conjugate Fourier Shock Detection Algorithm for Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A691-A711.	1.3	30
2227	Development of roll-waves in power-law fluids with non-uniform initial conditions. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 289-306.	0.7	10
2228	Large Eddy Simulation of a Supersonic Underexpanded Jet with a High-order Hybrid Central/WENO-Z Scheme. , 2016, , .		1
2229	A Decoupled Method for the Roe FDS Scheme in the Reacting Gas Path of FUN3D. , 2016, , .		2
2230	Development of a VOF-Based Interface Capturing Method Using a Family of Bounded Compressive Flux Blending Schemes in an Existing Finite Volume Flow Solver. , 2016, , .		1
2231	Assessment of Limiting Processes of Numerical Schemes on Hypersonic Aeroheating Predictions. <i>Journal of Thermophysics and Heat Transfer</i> , 2016, 30, 754-769.	0.9	6
2232	A family of high-order targeted ENO schemes for compressible-fluid simulations. <i>Journal of Computational Physics</i> , 2016, 305, 333-359.	1.9	218
2233	Roe-type schemes for shallow water magnetohydrodynamics with hyperbolic divergence cleaning. <i>Applied Mathematics and Computation</i> , 2016, 272, 385-402.	1.4	6
2234	A New Mapped Weighted Essentially Non-oscillatory Method Using Rational Mapping Function. <i>Journal of Scientific Computing</i> , 2016, 67, 540-580.	1.1	35
2235	Study of a stall induced dynamical system under gust using the probability density evolution technique. <i>Computers and Structures</i> , 2016, 162, 38-47.	2.4	16
2236	High Resolution Schemes. <i>Fluid Mechanics and Its Applications</i> , 2016, , 429-488.	0.1	0
2237	A High-Order Compact Limiter Based on Spatially Weighted Projections for the Spectral Volume and the Spectral Differences Method. <i>Journal of Scientific Computing</i> , 2016, 67, 375-403.	1.1	7
2238	A unified single-field model framework for Volume-Of-Fluid simulations of interfacial species transfer applied to bubbly flows. <i>Chemical Engineering Science</i> , 2016, 139, 173-195.	1.9	71
2239	Numerical investigations of turbulent free surface flows using TOPUS scheme. <i>Computational and Applied Mathematics</i> , 2017, 36, 1145-1160.	1.3	4
2240	Construction of Approximate Entropy Measure-Valued Solutions for Hyperbolic Systems of Conservation Laws. <i>Foundations of Computational Mathematics</i> , 2017, 17, 763-827.	1.5	65
2241	A semi-Lagrangian multi-moment finite volume method with fourth-order WENO projection. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 351-375.	0.9	8

#	ARTICLE	IF	CITATIONS
2242	High-order local maximum principle preserving (MPP) discontinuous Galerkin finite element method for the transport equation. <i>Journal of Computational Physics</i> , 2017, 334, 102-124.	1.9	42
2243	Stabilization of an open-source finite-volume solver for viscoelastic fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 239, 85-104.	1.0	185
2244	Transient evolution of suspended and benthic algae in a riverine ecosystem: A numerical study. <i>Ecological Modelling</i> , 2017, 348, 78-92.	1.2	0
2245	Gradient-based nodal limiters for artificial diffusion operators in finite element schemes for transport equations. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 84, 675-695.	0.9	11
2246	Numerical Simulation of Supersonic Flow over Segmental-Conical Bodies. , 2017, , .		0
2247	A multi-term solution of the space-time Boltzmann equation for electrons in gases and liquids. <i>Plasma Sources Science and Technology</i> , 2017, 26, 024007.	1.3	20
2248	Fluid dynamic investigation of innovative intake strategies for multivalve internal combustion engines. <i>International Journal of Mechanical Sciences</i> , 2017, 123, 297-310.	3.6	12
2249	A theoretical approximation of the shock standoff distance for supersonic flows around a circular cylinder. <i>Physics of Fluids</i> , 2017, 29, .	1.6	41
2250	A positivity preserving variational method for multi-dimensional convection-diffusion-reaction equation. <i>Journal of Computational Physics</i> , 2017, 339, 247-284.	1.9	19
2251	Accuracy preserving limiter for the high-order finite volume method on unstructured grids. <i>Computers and Fluids</i> , 2017, 149, 88-99.	1.3	17
2252	Third-order WENO scheme with a new smoothness indicator. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 85, 90-112.	0.9	27
2253	A spatially stabilized TDG based finite element framework for modeling biofilm growth with a multi-dimensional multi-species continuum biofilm model. <i>Computational Mechanics</i> , 2017, 59, 1049-1070.	2.2	10
2254	Finite volume schemes for the numerical simulation of tracer transport in plants. <i>Mathematical Biosciences</i> , 2017, 288, 14-20.	0.9	6
2255	A high resolution finite difference method for a model of structured susceptible-infected populations coupled with the environment. <i>Numerical Methods for Partial Differential Equations</i> , 2017, 33, 1420-1458.	2.0	4
2256	A semi-discrete central scheme for incompressible multiphase flow in porous media in several space dimensions. <i>Mathematics and Computers in Simulation</i> , 2017, 140, 24-52.	2.4	3
2257	Study of Water Impact and Entry of a Free Falling Wedge Using Computational Fluid Dynamics Simulations. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017, 139, .	0.6	25
2258	Framework for incorporating climate change on flood magnitude and frequency analysis in the upper Santa Cruz River. <i>Journal of Hydrology</i> , 2017, 549, 194-207.	2.3	16
2259	Direct numerical simulation of water-ethanol flows in a T-mixer. <i>Chemical Engineering Journal</i> , 2017, 324, 168-181.	6.6	32

#	ARTICLE	IF	CITATIONS
2260	Numerical investigation on an array of Helmholtz resonators for the reduction of micro-pressure waves in modern and future high-speed rail tunnel systems. <i>Journal of Sound and Vibration</i> , 2017, 400, 606-625.	2.1	14
2261	Stability analysis of the carbuncle phenomenon and the sonic point glitch. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017, 42, 741-757.	0.8	2
2262	Entropy stable high order discontinuous Galerkin methods with suitable quadrature rules for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2017, 345, 427-461.	1.9	153
2263	A single-stage flux-corrected transport algorithm for high-order finite-volume methods. <i>Communications in Applied Mathematics and Computational Science</i> , 2017, 12, 1-24.	0.7	3
2264	Bound-Preserving High Order Finite Volume Schemes for Conservation Laws and Convection-Diffusion Equations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017, , 3-14.	0.1	3
2265	On the Measurements of Numerical Viscosity and Resistivity in Eulerian MHD Codes. <i>Astrophysical Journal, Supplement Series</i> , 2017, 230, 18.	3.0	25
2266	A New Type of Modified WENO Schemes for Solving Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A1089-A1113.	1.3	15
2267	Numerical solution of the fully non-linear weakly dispersive serre equations for steep gradient flows. <i>Applied Mathematical Modelling</i> , 2017, 48, 70-95.	2.2	5
2268	Origins and Further Development of the Jamesonâ€“Schmidtâ€“Tukel Scheme. <i>AIAA Journal</i> , 2017, 55, 1487-1510.	1.5	68
2269	Two-dimensional numerical modeling of dam-break flow using a new TVD finite-element scheme. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 4393-4401.	0.8	13
2270	Extension of staggered-grid-based AUSM-family schemes for use in nuclear safety analysis codes. <i>International Journal of Multiphase Flow</i> , 2017, 93, 17-32.	1.6	1
2271	Sharpening diffuse interfaces with compressible fluids on unstructured meshes. <i>Journal of Computational Physics</i> , 2017, 340, 389-417.	1.9	60
2272	Predicting the Numerical and Experimental Open-Channel Flow Resistance of Corrugated Steep Circular Drainage Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, .	0.9	4
2273	An Explicit Implicit Scheme for Cut Cells in Embedded Boundary Meshes. <i>Journal of Scientific Computing</i> , 2017, 71, 919-943.	1.1	35
2274	Artificial viscosity model to mitigate numerical artefacts at fluid interfaces with surface tension. <i>Computers and Fluids</i> , 2017, 143, 59-72.	1.3	26
2275	Nonlocal Conservation Laws. A New Class of Monotonicity-Preserving Models. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 2465-2489.	1.1	21
2276	Hydrodynamic simulations of accretion flows with time-varying viscosity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4689-4699.	1.6	10
2277	On the effect of different flux limiters on the performance of an engine gas exchange gas-dynamic model. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 740-751.	3.6	7

#	ARTICLE	IF	CITATIONS
2278	Testing of various schemes with quasi-one-dimensional reconstruction of gasdynamic variables in the case of unstructured-grid calculations. St Petersburg Polytechnical University Journal Physics and Mathematics, 2017, 3, 259-270.	0.3	0
2279	Eulerian modeling of inertial and diffusional aerosol deposition in bent pipes. Computers and Fluids, 2017, 159, 217-231.	1.3	18
2280	Improved both sides diffusion (iBSD): A new and straightforward stabilization approach for viscoelastic fluid flows. Journal of Non-Newtonian Fluid Mechanics, 2017, 249, 63-78.	1.0	38
2281	Dynamics of magnetic flux tubes in an advective flow around a black hole. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1259-1271.	1.6	6
2282	A Novel Multi-Dimensional Limiter for High-Order Finite Volume Methods on Unstructured Grids. Communications in Computational Physics, 2017, 22, 1385-1412.	0.7	9
2283	The use of Ann for the prediction of the modified relative permeability functions in stratified reservoirs. Lobachevskii Journal of Mathematics, 2017, 38, 843-848.	0.1	1
2284	Extreme Wave Generation, Breaking and Impact Simulations With REEF3D. , 2017, , .		3
2285	Numerical Reproduction of DDT in Small Scale Channels. , 2017, , .		0
2286	A TVD discretization method for shallow water equations: Numerical simulations of tailing dam break. International Journal of Modeling, Simulation, and Scientific Computing, 2017, 08, 1850001.	0.9	6
2287	LPC Blade and Non-Axisymmetric Hub Profiling Optimization Using Multi-Fidelity Non-Intrusive POD Surrogates. , 2017, , .		4
2288	A Few Benchmark Test Cases for Higher-Order Euler Solvers. Numerical Mathematics, 2017, 10, 711-736.	0.6	15
2289	Ionization fronts in coupled MHD-gas simulations. Physics of Plasmas, 2017, 24, 092112.	0.7	1
2290	A new class of high-order weighted essentially non-oscillatory schemes for hyperbolic conservation laws. Computers and Fluids, 2017, 159, 81-94.	1.3	15
2291	Hamiltonâ€“Jacobiâ€“Bellman Equations. Lecture Notes in Mathematics, 2017, , 127-261.	0.1	4
2292	Residual equilibrium schemes for time dependent partial differential equations. Computers and Fluids, 2017, 156, 329-342.	1.3	14
2293	Enhanced Robustness of the Hybrid Compact-WENO Finite Difference Scheme for Hyperbolic Conservation Laws with Multi-resolution Analysis and Tukeyâ€™s Boxplot Method. Journal of Scientific Computing, 2017, 73, 736-752.	1.1	8
2294	Numerical study on the convergence to steady state solutions of a new class of high order WENO schemes. Journal of Computational Physics, 2017, 349, 80-96.	1.9	22
2295	Navierâ€“Stokes simulation of shock-heavy bubble interaction: Comparison of upwind and WENO schemes. Computers and Fluids, 2017, 157, 131-145.	1.3	14

#	ARTICLE	IF	CITATIONS
2296	Balance-characteristic scheme as applied to the shallow water equations over a rough bottom. Computational Mathematics and Mathematical Physics, 2017, 57, 1140-1157.	0.2	10
2297	An improved non-linear weights for seventh-order weighted essentially non-oscillatory scheme. Computers and Fluids, 2017, 156, 496-514.	1.3	14
2298	Multi-fidelity POD surrogate-assisted optimization: Concept and aero-design study. Structural and Multidisciplinary Optimization, 2017, 56, 1387-1412.	1.7	26
2299	Three-Dimensional General-Relativistic Magnetohydrodynamic Simulations of Remnant Accretion Disks from Neutron Star Mergers: Outflows and $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle mml:mi \rangle r \langle /mml:mi \rangle \langle /mml:math \rangle$ -Process Nucleosynthesis. Physical Review Letters, 2017, 119, 231102.	2.9	225
2300	Black $\langle scp \rangle S \langle /scp \rangle$ ea thermohaline properties: Long-term trends and variations. Journal of Geophysical Research: Oceans, 2017, 122, 5624-5644.	1.0	42
2301	Entropy-TVD Scheme for the Shallow Water Equations in One Dimension. Journal of Scientific Computing, 2017, 71, 822-838.	1.1	4
2302	A New Type of Finite Volume WENO Schemes for Hyperbolic Conservation Laws. Journal of Scientific Computing, 2017, 73, 1338-1359.	1.1	71
2303	A \mathbb{R}^2 hyperbolic system modelling incompressible two phase flows: theory and numerics. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.4	1
2304	A probabilistic model for track random irregularities in vehicle/track coupled dynamics. Applied Mathematical Modelling, 2017, 51, 145-158.	2.2	66
2305	Stability and boundedness in the numerical solution of initial value problems. Mathematics of Computation, 2017, 86, 2777-2798.	1.1	2
2306	Implementation of boundary conditions in pressure-based finite volume methods on unstructured grids. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 82-107.	0.6	6
2307	Bound-Preserving High-Order Schemes. Handbook of Numerical Analysis, 2017, , 81-102.	0.9	12
2308	A type of high order schemes for steady convection-diffusion problems. International Journal of Heat and Mass Transfer, 2017, 107, 1044-1053.	2.5	8
2309	Well-balanced hybrid compact-WENO scheme for shallow water equations. Applied Numerical Mathematics, 2017, 112, 65-78.	1.2	21
2310	Maximum-principle-satisfying space-time conservation element and solution element scheme applied to compressible multifluids. Journal of Computational Physics, 2017, 330, 668-692.	1.9	34
2311	Rescaling of the Roe scheme in low Mach-number flow regions. Journal of Computational Physics, 2017, 328, 177-199.	1.9	7
2312	Developments of entropy-stable residual distribution methods for conservation laws I: Scalar problems. Journal of Computational Physics, 2017, 330, 1093-1115.	1.9	17
2313	Numerical Simulations Using TVD Schemes of Two-Dimensional Supersonic Flow in Chemical Equilibrium. International Journal of Computational Methods, 2017, 14, 1750020.	0.8	3

#	ARTICLE	IF	CITATIONS
2314	On the convergence of a local third order shock capturing method for hyperbolic conservation laws. Numerical Algorithms, 2017, 74, 1011-1028.	1.1	1
2315	Some recent progress of high-order methods on structured and unstructured grids in CARDC. Computers and Fluids, 2017, 154, 371-389.	1.3	7
2316	Shallow water simulations of Saturn's giant storms at different latitudes. Icarus, 2017, 286, 241-260.	1.1	10
2317	Effects of Surface-Catalysis Efficiency on Aeroheating Characteristics in Hypersonic Flow. Journal of Aerospace Engineering, 2017, 30, .	0.8	11
2318	Error estimates to smooth solutions of semi-discrete discontinuous Galerkin methods with quadrature rules for scalar conservation laws. Numerical Methods for Partial Differential Equations, 2017, 33, 467-488.	2.0	9
2319	Higher-order accurate space-time schemes for computational astrophysicsâ€”Part I: finite volume methods. Living Reviews in Solar Physics, 2017, 3, 2.	5.0	39
2320	Numerical simulation on the multiple dipolarization fronts in the magnetotail. Physics of Plasmas, 2017, 24, .	0.7	2
2321	Tuning Up TVD HOPMOC Method on Intel MIC Xeon Phi Architectures with Intel Parallel Studio Tools. , 2017, , .		7
2323	Reduction of mass loss by the hot Jupiter WASP-12b due to its magnetic field. Astronomy Reports, 2017, 61, 932-941.	0.2	46
2324	Entropic sub-cell shock capturing schemes via Jin-Xin relaxation and Glimm front sampling for scalar conservation laws. Mathematics of Computation, 2017, 87, 1083-1126.	1.1	3
2325	Accurate simulation of transient landscape evolution by eliminating numerical diffusion: the TTLEM1.0 model. Earth Surface Dynamics, 2017, 5, 47-66.	1.0	60
2327	Simulation of Underwater Explosions Initiated by High-Pressure Gas Bubbles of Various Initial Shapes. Applied Sciences (Switzerland), 2017, 7, 880.	1.3	12
2328	Resolution and Energy Dissipation Characteristics of Implicit LES and Explicit Filtering Models for Compressible Turbulence. Fluids, 2017, 2, 14.	0.8	17
2329	Uncertainty Quantification for Hyperbolic Systems of Conservation Laws. Handbook of Numerical Analysis, 2017, 18, 507-544.	0.9	12
2330	A TVD scheme for 3d unstructured grids applied to compositional reservoir simulation. Brazilian Journal of Chemical Engineering, 2017, 34, 1161-1174.	0.7	3
2331	A review on the numerical simulation of equatorial plasma bubbles toward scintillation evaluation and forecasting. Progress in Earth and Planetary Science, 2017, 4, .	1.1	56
2332	An improved uncoupled finite volume solver for simulating unsteady shock-induced combustion. Computers and Fluids, 2018, 167, 146-157.	1.3	4
2333	A novel finite volume discretization method for advectionâ€”diffusion systems on stretched meshes. Journal of Computational Physics, 2018, 362, 220-242.	1.9	2

#	ARTICLE	IF	CITATIONS
2334	An MHD Simulation of Solar Active Region 11158 Driven with a Time-dependent Electric Field Determined from HMI Vector Magnetic Field Measurement Data. <i>Astrophysical Journal</i> , 2018, 855, 11.	1.6	38
2335	Pressure-based algorithm for compressible interfacial flows with acoustically-conservative interface discretisation. <i>Journal of Computational Physics</i> , 2018, 367, 192-234.	1.9	38
2336	Entropy Stability and the No-Slip Wall Boundary Condition. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 256-273.	1.1	12
2337	On the Construction of Combined Finite-Difference Schemes of High Accuracy. <i>Doklady Mathematics</i> , 2018, 97, 77-81.	0.1	27
2338	Stochastic porous media modeling and high-resolution schemes for numerical simulation of subsurface immiscible fluid flow transport. <i>Acta Geophysica</i> , 2018, 66, 243-266.	1.0	9
2339	An adaptive variational procedure for the conservative and positivity preserving Allen-Cahn phase-field model. <i>Journal of Computational Physics</i> , 2018, 366, 478-504.	1.9	25
2340	Feedback control of photoresponsive fluid interfaces. <i>Soft Matter</i> , 2018, 14, 1856-1869.	1.2	9
2341	Performance of high-order implicit large eddy simulations. <i>Computers and Fluids</i> , 2018, 173, 307-312.	1.3	23
2342	On wave breaking for Boussinesq-type models. <i>Ocean Modelling</i> , 2018, 123, 16-39.	1.0	33
2343	The numerics of hydrostatic structured-grid coastal ocean models: State of the art and future perspectives. <i>Ocean Modelling</i> , 2018, 125, 80-105.	1.0	63
2344	HWENO Schemes Based on Compact Difference for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2018, 76, 1301-1325.	1.1	11
2345	Chapter 8: High-order accuracy and its challenges. , 2018, , 165-218.		0
2346	Channel Geometry Controls Downstream Lags in Sediment Rating Curves. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	0.7	1
2347	High-Order Simulations of Shock Problems using HPCMP CREATE(TM)-AV Kestrel COFFE. , 2018, , .		6
2348	Probabilistic assessment of railway vehicle-curved track systems considering track random irregularities. <i>Vehicle System Dynamics</i> , 2018, 56, 1552-1576.	2.2	24
2349	CFD Techniques and Thermo-Mechanics Applications. , 2018, , .		0
2350	Multigrid and Preconditioning Techniques in CFD Applications. , 2018, , 83-149.		9
2351	A modified fifth-order WENO scheme for hyperbolic conservation laws. <i>Computers and Mathematics With Applications</i> , 2018, 75, 1531-1549.	1.4	48

#	ARTICLE	IF	CITATIONS
2352	Modified multi-dimensional limiting process with enhanced shock stability on unstructured grids. Computers and Fluids, 2018, 161, 171-188.	1.3	15
2353	An ALE-based Meshless Method for 3-D Compressible Flow around Moving Bodies. , 2018, , .		0
2354	Evaluation of the CPU time for solving the radiative transfer equation with high-order resolution schemes applying the normalized weighting-factor method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 45-63.	1.1	4
2355	Reynolds-Averaged, Scale-Adaptive and Large-Eddy Simulations of Premixed Bluff-Body Combustion Using the Eddy Dissipation Concept. Flow, Turbulence and Combustion, 2018, 100, 721-768.	1.4	21
2356	A new weighting method for improving the WENO ϵ scheme. International Journal for Numerical Methods in Fluids, 2018, 87, 271-291.	0.9	28
2357	A phenomenon of artificial odd-even grid oscillation and its presence in domain decomposition computation: Algebraic analysis and numerical illustration. Journal of Computational and Applied Mathematics, 2018, 333, 404-427.	1.1	3
2358	A Discontinuous Galerkin Material Point Method for the solution of impact problems in solid dynamics. Journal of Computational Physics, 2018, 369, 80-102.	1.9	7
2359	Suitable diffusion for constructing non-oscillatory entropy stable schemes. Journal of Computational Physics, 2018, 372, 912-930.	1.9	15
2360	Numerical simulation of 3D unsteady turbulent free surface flows using κ - ϵ - μ model and ADBQUICKEST scheme. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	6
2361	Modeling of density stratification and filamentous structure formation in molecular clouds after shock wave collision. Computers and Fluids, 2018, 173, 189-194.	1.3	21
2362	Instabilities of a power-law film over an inclined permeable plane: A two-sided model. Journal of Non-Newtonian Fluid Mechanics, 2018, 259, 111-124.	1.0	17
2363	Reprint of: Residual equilibrium schemes for time dependent partial differential equations. Computers and Fluids, 2018, 169, 141-154.	1.3	0
2364	Wetting and drying numerical treatments for the Roe Riemann scheme. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 256-267.	0.7	11
2365	High-order filtered schemes for first order time dependent linear and non-linear partial differential equations. Mathematics and Computers in Simulation, 2018, 147, 250-263.	2.4	3
2366	High Order Positivity- and Bound-Preserving Hybrid Compact-WENO Finite Difference Scheme for the Compressible Euler Equations. Journal of Scientific Computing, 2018, 74, 640-666.	1.1	16
2367	Positivity for Convective Semi-discretizations. Journal of Scientific Computing, 2018, 74, 244-266.	1.1	1
2368	Study of Flux Limiters to Minimize the Numerical Dissipation Based on Entropy-Consistent Scheme. Journal of Mechanics, 2018, 34, 135-149.	0.7	5
2369	A modified finite volume method for convection-diffusion-reaction problems. International Journal of Heat and Mass Transfer, 2018, 117, 658-668.	2.5	22

#	ARTICLE	IF	CITATIONS
2370	Boundedness-preserving implicit correction of mesh-induced errors for VOF based heat and mass transfer. <i>Journal of Computational Physics</i> , 2018, 352, 285-300.	1.9	9
2371	Steepest descent optimisation of Runge-Kutta coefficients for second order implicit finite volume CFD codes. <i>Journal of Computational Physics</i> , 2018, 354, 576-592.	1.9	6
2372	Hybrid DG/FV schemes for magnetohydrodynamics and relativistic hydrodynamics. <i>Computer Physics Communications</i> , 2018, 222, 113-135.	3.0	15
2373	Fast Iterative Adaptive Multi-quadric Radial Basis Function Method for Edges Detection of Piecewise Functions: Uniform Mesh. <i>Journal of Scientific Computing</i> , 2018, 75, 1016-1039.	1.1	2
2374	Application of high-resolution NVD differencing schemes to the FTN finite volume method for radiative heat transfer. <i>Heat Transfer - Asian Research</i> , 2018, 47, 366-388.	2.8	3
2375	Application of the \hat{I} -method to a telegraphic model of fluid flow in a dual-porosity medium. <i>Journal of Computational Physics</i> , 2018, 352, 426-444.	1.9	1
2376	Novel local smoothness indicators for improving the third-order WENO scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 51-69.	0.9	20
2377	A minimally-dissipative low-Mach number solver for complex reacting flows in OpenFOAM. <i>Computers and Fluids</i> , 2018, 162, 11-25.	1.3	38
2378	Simulating the blast wave from detonation of a charge using a balloon of compressed air. <i>Shock Waves</i> , 2018, 28, 641-652.	1.0	9
2379	Comparison among unstructured TVD, ENO and UNO schemes in two- and three-dimensions. <i>Applied Mathematics and Computation</i> , 2018, 321, 130-175.	1.4	3
2380	Behaviour of the Serre equations in the presence of steep gradients revisited. <i>Wave Motion</i> , 2018, 76, 61-77.	1.0	10
2381	An immersed boundary formulation for simulating high-speed compressible viscous flows with moving solids. <i>Journal of Computational Physics</i> , 2018, 354, 672-691.	1.9	33
2382	A new adaptive weighted essentially non-oscillatory WENO- \hat{I} scheme for hyperbolic conservation laws. <i>Journal of Computational and Applied Mathematics</i> , 2018, 328, 314-339.	1.1	6
2383	On the numerical simulation of non-classical quasi-1D steady nozzle flows: Capturing sonic shocks. <i>Applied Mathematics and Computation</i> , 2018, 319, 617-632.	1.4	2
2384	Improved Finite Volume Method for Three-Dimensional Radiative Heat Transfer in Complex Enclosures Containing Homogenous and Inhomogeneous Participating Media. <i>Heat Transfer Engineering</i> , 2018, 39, 1364-1376.	1.2	3
2385	Monotone Finite-Difference Scheme Preserving High Accuracy in Regions of Shock Influence. <i>Doklady Mathematics</i> , 2018, 98, 506-510.	0.1	23
2386	Computing complex for modeling the Black Sea. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 211, 012082.	0.2	3
2387	Total variation bounded flux limiters for high order finite difference schemes solving one-dimensional scalar conservation laws. <i>Mathematics of Computation</i> , 2018, 88, 691-716.	1.1	4

#	ARTICLE	IF	CITATIONS
2388	A Numerical Simulation of the Shallow Water Flow on a Complex Topography. , 0, , .		8
2389	The work of the main forces in the annual-averaged and seasonal-averaged energy balance of the Black Sea circulation. Journal of Physics: Conference Series, 2018, 1128, 012141.	0.3	0
2390	Simulation of Characteristics of a System of Supersonic Jets in Carbon Dioxide Atmosphere. Technical Physics Letters, 2018, 44, 1145-1149.	0.2	0
2391	Mathematical modeling of non-stationary gas flow in gas pipeline. IOP Conference Series: Materials Science and Engineering, 2018, 327, 022034.	0.3	8
2392	Numerical Solution of Test Problems Using a Modified Godunov Scheme. Computational Mathematics and Mathematical Physics, 2018, 58, 1573-1584.	0.2	12
2393	Investigation of the near-wake flow topology of a simplified heavy vehicle using PANS simulations. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 183, 243-272.	1.7	18
2394	A localised dynamic closure model for Euler turbulence. International Journal of Computational Fluid Dynamics, 2018, 32, 326-378.	0.5	3
2395	Strong Stability Preserving Integrating Factor Runge–Kutta Methods. SIAM Journal on Numerical Analysis, 2018, 56, 3276-3307.	1.1	34
2396	Sensitivity of Spectral and Temporal Properties of Accretion and Outflows on Space Time Geometry, Viscosity and Cooling. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 171-181.	0.3	0
2397	Computational Fluid Dynamics Simulations of Nonlinear Sloshing in a Rotating Rectangular Tank Using the Level Set Method. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	0.6	3
2398	Large time step HLL and HLLC schemes. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 1239-1260.	0.8	7
2399	On the Accuracy of the Discontinuous Galerkin Method in Calculation of Shock Waves. Computational Mathematics and Mathematical Physics, 2018, 58, 1344-1353.	0.2	26
2400	Construction of Monotone Difference Schemes for Systems of Hyperbolic Equations. Computational Mathematics and Mathematical Physics, 2018, 58, 1226-1246.	0.2	5
2401	Renaissance of Astro-Chemistry in Indian Context. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 427-438.	0.3	0
2402	High order combined finite-difference schemes. AIP Conference Proceedings, 2018, , .	0.3	0
2403	Monotonicity of the CABARET Scheme Approximating a Hyperbolic System of Conservation Laws. Computational Mathematics and Mathematical Physics, 2018, 58, 1435-1450.	0.2	6
2404	Impact of the Hall effect in star formation and the issue of angular momentum conservation. Astronomy and Astrophysics, 2018, 619, A37.	2.1	26
2405	Analyzing the role of pulse density and voxelization parameters on full-waveform LiDAR-derived metrics. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 453-464.	4.9	14

#	ARTICLE	IF	CITATIONS
2406	Analysis of nonequilibrium effects and flow instability in immiscible two-phase flow in porous media. <i>Advances in Water Resources</i> , 2018, 122, 291-303.	1.7	7
2407	Solar Coronal Modeling by Path-conservative HLLEM Riemann Solver. <i>Astrophysical Journal</i> , 2018, 867, 42.	1.6	11
2408	Assessment of Time and Space High-Order Schemes for Two-Fluid Seven-Equation Two-Pressure Model Using the Reversed Water Faucet Problem. , 2018, , .		0
2409	Hybrid Compact-WENO Finite Difference Scheme with Radial Basis Function Based Shock Detection Method for Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A3699-A3714.	1.3	4
2410	Major upwelling and overturning in the mid-latitude F region ionosphere. <i>Nature Communications</i> , 2018, 9, 3326.	5.8	32
2411	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy. <i>Journal of Computational Physics</i> , 2018, 375, 659-683.	1.9	96
2412	Performance of various shock-capturing-type reconstruction schemes in the Boussinesq wave model, FUNWAVE-TVD. <i>Ocean Modelling</i> , 2018, 131, 86-100.	1.0	21
2413	Simplified Energy Landscape for Modularity Using Total Variation. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 2439-2464.	0.8	8
2414	Seventh order compact-WENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2018, 176, 193-209.	1.3	9
2415	Images and spectra of time-dependent two-component advective flow in presence of outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3356-3366.	1.6	8
2416	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml203" display="inline" overflow="scroll" altimg="si3.gif" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ - factor: A modified relaxation factor to accelerate the convergence rate of the radiative transfer equation with high-order resolution schemes using the Normalized Weighting-Factor method. <i>Computer Physics Communications</i> , 2018, 231, 72-93.	3.0	4
2417	Evaluation of the Spectral Element Dynamic Model for Large-Eddy Simulation on Unstructured, Deformed Meshes. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 271-294.	1.4	7
2418	A non-negative and high-resolution finite volume method for the depth-integrated solute transport equation using an unstructured triangular mesh. <i>Environmental Fluid Mechanics</i> , 2018, 18, 1379-1411.	0.7	3
2419	Application of implicit Roe-type scheme and Jacobian-Free Newton-Krylov method to two-phase flow problems. <i>Annals of Nuclear Energy</i> , 2018, 119, 180-190.	0.9	16
2420	Multi-phase Fluid Simulation Based on Narrow-Band FLIP Method. <i>3D Research</i> , 2018, 9, 1.	1.8	1
2421	<i>Computational Fluid Dynamics</i> . , 2018, , 293-327.		1
2422	New least squares method with geometric conservation law (GC-LSM) for compressible flow computation in meshless method. <i>Computers and Fluids</i> , 2018, 172, 122-146.	1.3	14
2423	The CRONOS Code for Astrophysical Magnetohydrodynamics. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 53.	3.0	25

#	ARTICLE	IF	CITATIONS
2424	Three-dimensional GRMHD Simulations of Neutrino-cooled Accretion Disks from Neutron Star Mergers. <i>Astrophysical Journal</i> , 2018, 858, 52.	1.6	166
2425	Non-stationary operation of gas pipeline based on selections of travel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 327, 022074.	0.3	3
2426	Tutorial on Advection Schemes for Interface Volume Capturing Techniques. , 2018, , 73-115.		0
2427	Decoupling schemes for predicting compressible fluid flows. <i>Computers and Fluids</i> , 2018, 171, 94-102.	1.3	1
2428	Separation of Nonspherical Particles in a Hydrocyclone. <i>Journal of Engineering Physics and Thermophysics</i> , 2018, 91, 712-730.	0.2	4
2429	Hyperbolic Runge-Kutta Method Using Evolutionary Algorithm. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	3
2430	Analysis of slope limiters on unstructured triangular meshes. <i>Journal of Computational Physics</i> , 2018, 374, 1-26.	1.9	12
2431	A new class of adaptive high-order targeted ENO schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2018, 374, 724-751.	1.9	62
2432	A Total Variation Diminishing Hopmoc Scheme for Numerical Time Integration of Evolutionary Differential Equations. <i>Lecture Notes in Computer Science</i> , 2018, , 53-66.	1.0	4
2433	A cure for numerical shock instability in HLLC Riemann solver using antidiffusion control. <i>Computers and Fluids</i> , 2018, 174, 144-166.	1.3	41
2434	Electroosmotic Flow of Viscoelastic Fluid in a Nanoslit. <i>Micromachines</i> , 2018, 9, 155.	1.4	23
2435	Decay of Unstable Strong Discontinuities in the Case of a Convex-Flux Scalar Conservation Law Approximated by the CABARET Scheme. <i>Computational Mathematics and Mathematical Physics</i> , 2018, 58, 950-966.	0.2	2
2436	A new Eulerian model for viscous and heat conducting compressible flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 506, 350-375.	1.2	29
2437	Numerical Simulation of the Flow over a Segment-Conical Body on the Basis of Reynolds Equations. <i>Computational Mathematics and Mathematical Physics</i> , 2018, 58, 118-129.	0.2	5
2438	Ionospheric Specification and Space Weather Forecasting With an HF Beacon Network in the Peruvian Sector. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6851-6864.	0.8	7
2439	A fully hydrodynamic urban flood modelling system representing buildings, green space and interventions. <i>Environmental Modelling and Software</i> , 2018, 109, 272-292.	1.9	73
2440	A New Robust Carbuncle-Free Roe Scheme for Strong Shock. <i>Journal of Scientific Computing</i> , 2018, 77, 1250-1277.	1.1	11
2441	Improved multislope MUSCL reconstruction on unstructured grids for shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 401-436.	0.9	5

#	ARTICLE	IF	CITATIONS
2442	Development of temporal and spatial high-order schemes for two-fluid seven-equation two-pressure model and its applications in two-phase flow benchmark problems. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 88, 169-192.	0.9	5
2443	A Splitting Method for a CABARET Scheme Approximating a Nonuniform Scalar Conservation Law. <i>Numerical Analysis and Applications</i> , 2018, 11, 146-157.	0.2	2
2444	A compact fourth-order gas-kinetic scheme for the Euler and Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2018, 372, 446-472.	1.9	41
2445	Direction-aware slope limiter for three-dimensional cubic grids with adaptive mesh refinement. <i>Computers and Mathematics With Applications</i> , 2019, 78, 670-687.	1.4	3
2446	Least Squares Minimization Closure Models for LES of Turbulent Combustion. <i>Flow, Turbulence and Combustion</i> , 2019, 102, 699-733.	1.4	5
2447	On Alternative Setups of the Double Mach Reflection Problem. <i>Journal of Scientific Computing</i> , 2019, 78, 1291-1303.	1.1	19
2448	Best practice guidelines in numerical simulations and CFD benchmarking for hydrogen safety applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9050-9062.	3.8	48
2449	Spectra signals of gas pressure pulsations in annular and linear dual-slotted nozzles. <i>Combustion Science and Technology</i> , 2019, 191, 339-352.	1.2	5
2450	Assessment of two-equation model for simulation of air pocket advancing into a rectangular duct. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 122-130.	0.7	3
2451	An adaptive ALE scheme for non-ideal compressible fluid dynamics over dynamic unstructured meshes. <i>Shock Waves</i> , 2019, 29, 73-99.	1.0	11
2452	A front tracking method capturing field features accurately for one-dimensional flows. <i>Shock Waves</i> , 2019, 29, 51-71.	1.0	1
2453	An accuracy preserving limiter for the high-order discontinuous Galerkin method on unstructured grids. <i>Computers and Fluids</i> , 2019, 192, 104253.	1.3	1
2454	The Accuracy of Finite-Difference Schemes Calculating the Interaction of Shock Waves. <i>Doklady Physics</i> , 2019, 64, 197-201.	0.2	6
2455	A Strong Stability Preserving Analysis for Explicit Multistage Two-Derivative Time-Stepping Schemes Based on Taylor Series Conditions. <i>Communications on Applied Mathematics and Computation</i> , 2019, 1, 21.	0.7	5
2456	Constructing a Limiter Based on Averaging the Solutions for the Discontinuous Galerkin Method. <i>Mathematical Models and Computer Simulations</i> , 2019, 11, 61-73.	0.1	7
2457	A Group of CFL-Dependent Flux-Limiters to Control the Numerical Dissipation in Multi-stage Unsteady Calculation. <i>Journal of Scientific Computing</i> , 2019, 81, 186-216.	1.1	2
2458	High-order accurate large-eddy simulations of compressible viscous flow in cylindrical coordinates. <i>Computers and Fluids</i> , 2019, 191, 104241.	1.3	13
2459	Strong Stability Preserving Second Derivative General Linear Methods. <i>Journal of Scientific Computing</i> , 2019, 81, 392-435.	1.1	15

#	ARTICLE	IF	CITATIONS
2460	Explicit Splitting Scheme for Maxwell's Equations. <i>Mathematical Models and Computer Simulations</i> , 2019, 11, 551-563.	0.1	4
2461	An Efficient Hybrid Method for Solving Euler Equations. <i>Journal of Scientific Computing</i> , 2019, 81, 732-762.	1.1	8
2462	Meshless Modeling of Flow Dispersion and Progressive Piping in Poroelastic Levees. <i>Fluids</i> , 2019, 4, 120.	0.8	2
2463	Investigation of the Spectral Composition of the Gas Pressure and Thrust Pulsations in Nozzles Equipped with a Deflector. <i>Fluid Dynamics</i> , 2019, 54, 414-427.	0.2	3
2464	Variation entropy: a continuous local generalization of the TVD property using entropy principles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 355, 261-283.	3.4	5
2465	On derivatives of smooth functions represented in multiwavelet bases. <i>Journal of Computational Physics: X</i> , 2019, 4, 100033.	1.1	5
2466	A brief review on the convergence to steady state solutions of Euler equations with high-order WENO schemes. <i>Advances in Aerodynamics</i> , 2019, 1, .	1.3	16
2467	Design method with controllable velocity direction at throat for inward-turning inlets. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 1403-1415.	2.8	12
2468	Study of new accurate supplementary energy modeling with multi-components based on newly developed high resolution scheme. <i>International Communications in Heat and Mass Transfer</i> , 2019, 107, 121-140.	2.9	4
2469	Inertial effects in triple-layer core-annular pipeline flow. <i>Physics of Fluids</i> , 2019, 31, 103102.	1.6	5
2470	Physics-Compatible Finite Element Methods for Scalar and Tensorial Advection Problems. , 2019, , .		13
2471	Accelerating AGN jets to parsec scales using general relativistic MHD simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2200-2218.	1.6	89
2472	Two-stage fourth order: temporal-spatial coupling in computational fluid dynamics (CFD). <i>Advances in Aerodynamics</i> , 2019, 1, .	1.3	17
2473	On the carbuncle instability of the HLLC-type solvers. <i>Journal of Physics: Conference Series</i> , 2019, 1290, 012026.	0.3	1
2474	Stochastic seismic lateral deformation of a multi-story subway station structure based on the probability density evolution method. <i>Tunnelling and Underground Space Technology</i> , 2019, 94, 103114.	3.0	20
2475	The thermal-radiative wind in low-mass X-ray binary H1743-322: radiation hydrodynamic simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 3098-3111.	1.6	19
2476	Numerical Analysis of Aerodynamic Heating of Two-dimensional spiral model. , 2019, , .		0
2477	TVDal: Total variation diminishing scheme with alternating limiters to balance numerical compression and diffusion. <i>Ocean Modelling</i> , 2019, 134, 42-50.	1.0	15

#	ARTICLE	IF	CITATIONS
2478	Comparing Anisotropic Adaptive Strategies on the Second AIAA Sonic Boom Workshop Geometry. <i>Journal of Aircraft</i> , 2019, 56, 938-952.	1.7	17
2479	Implicitly coupled phase fraction equations for the Eulerian multi-fluid model. <i>Computers and Fluids</i> , 2019, 192, 104277.	1.3	7
2480	Multi-element SIAC Filter for Shock Capturing Applied to High-Order Discontinuous Galerkin Spectral Element Methods. <i>Journal of Scientific Computing</i> , 2019, 81, 820-844.	1.1	7
2481	Predicting the excess pressure drop incurred by LPTT fluids in flow through a planar constricted channel. <i>Korea Australia Rheology Journal</i> , 2019, 31, 149-166.	0.7	0
2482	Explicit combined finite-difference scheme of high accuracy. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
2483	Modeling of acetylene detonation in a shock tube by the large particle method with TVD correction. <i>Journal of Physics: Conference Series</i> , 2019, 1205, 012027.	0.3	0
2484	3D relativistic MHD simulations of bow-shock Pulsar Wind Nebulae with highly asymmetric geometry. <i>Journal of Physics: Conference Series</i> , 2019, 1225, 012001.	0.3	0
2485	Numerical experiments of flux difference splitting methods with high resolution scheme for supersonic flows. <i>Journal of Physics: Conference Series</i> , 2019, 1240, 012020.	0.3	1
2486	Effect of Spectral Estimation on Ultrasonic Backscatter Parameters in Measurements of Cancellous Bones. <i>IEEE Access</i> , 2019, 7, 83034-83045.	2.6	4
2487	Numerical Model of Compression Plasma Flows in Channels under a Longitudinal Magnetic Field. <i>Differential Equations</i> , 2019, 55, 894-904.	0.1	3
2488	Assembling a High-Productivity DSL for Computational Fluid Dynamics. , 2019, , .		4
2489	Modified Stencil Approximations for Fifth-Order Weighted Essentially Non-oscillatory Schemes. <i>Journal of Scientific Computing</i> , 2019, 81, 898-922.	1.1	7
2490	A high-order finite volume scheme for unsteady convection-dominated convectionâ€“diffusion equations. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2019, 76, 253-272.	0.6	8
2491	Numerical method to simulate detonative combustion of hydrogen-air mixture in a containment. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 938-953.	1.5	9
2492	A Strategy to Implement High-Order WENO Schemes on Unstructured Grids. , 2019, , .		2
2493	Multiscale Computational Fluid Dynamics. <i>Energies</i> , 2019, 12, 3272.	1.6	30
2494	A volume of fluid framework for interface-resolved simulations of vaporizing liquid-gas flows. <i>Journal of Computational Physics</i> , 2019, 399, 108954.	1.9	45
2495	Numerical simulation of upwinding schemes applied to complex fluid dynamics equations. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	0

#	ARTICLE	IF	CITATIONS
2496	Very High-Order Upwind Multi-Layer Compact (MLC) Schemes with Spectral-Like Resolution II: Two-Dimensional Case. , 2019, , .		0
2497	A fast, robust, and simple Lagrangianâ€Eulerian solver for balance laws and applications. Computers and Mathematics With Applications, 2019, 77, 2310-2336.	1.4	17
2499	Total variation diminishing schemes in optimal control of scalar conservation laws. IMA Journal of Numerical Analysis, 2019, 39, 105-140.	1.5	7
2500	Numerical Investigations of Stall Development in a Transonic Axial Compressor Stage. BioNanoScience, 2019, 9, 461-473.	1.5	3
2501	Implementation of a Moving Mesh VOF-Based Interface Capturing Method with Application to Low Speed Water Entry Dynamics. , 2019, , .		3
2502	Breaking Focused Waves Generated Using the Transient Wave Packet Method and the Breaking Impact Forces on a Vertical Cylinder. Lecture Notes in Civil Engineering, 2019, , 585-590.	0.3	0
2503	Problems of Modeling Natural and Anthropogenic Processes in the Arctic Zone of the Russian Federation. Mathematical Models and Computer Simulations, 2019, 11, 226-246.	0.1	5
2504	WENOâ€WOMBAT: Scalable Fifth-order Constrained-transport Magnetohydrodynamics for Astrophysical Applications. Astrophysical Journal, Supplement Series, 2019, 241, 23.	3.0	3
2505	Bounded and compact weighted essentially nonoscillatory limiters for discontinuous Galerkin schemes: Triangular elements. Journal of Computational Physics, 2019, 395, 461-488.	1.9	11
2506	Hybrid Flux Method in Monotonicity-Preserving Scheme for Accurate and Robust Simulation in Supersonic Flow. Mathematical Problems in Engineering, 2019, 2019, 1-19.	0.6	0
2507	Flutter Analysis of a Transonic Steam Turbine Blade with Frequency and Time-Domain Solvers. International Journal of Turbomachinery, Propulsion and Power, 2019, 4, 15.	0.5	7
2508	Optoelectronic Device Simulations Based on Macroscopic Maxwellâ€Bloch Equations. Advanced Theory and Simulations, 2019, 2, 1900018.	1.3	34
2509	Progress in the development of a new lattice Boltzmann method. Computers and Fluids, 2019, 190, 440-469.	1.3	15
2510	Bardeenâ€Petterson alignment, jets, and magnetic truncation in GRMHD simulations of tilted thin accretion discs. Monthly Notices of the Royal Astronomical Society, 2019, 487, 550-561.	1.6	86
2511	Numerical Simulation of Conservation Laws with Moving Grid Nodes: Application to Tsunami Wave Modelling. Geosciences (Switzerland), 2019, 9, 197.	1.0	8
2512	An extension of Darcyâ€™s law incorporating dynamic length scales. Advances in Water Resources, 2019, 129, 70-79.	1.7	13
2513	Entropy stable artificial dissipation based on Brenner regularization of the Navier-Stokes equations. Journal of Computational Physics, 2019, 393, 74-91.	1.9	13
2514	CardioFAN: open source platform for noninvasive assessment of pulse transit time and pulsatile flow in hyperelastic vascular networks. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1529-1548.	1.4	2

#	ARTICLE	IF	CITATIONS
2515	On flow field of the system of supersonic jets in the Mars atmosphere. International Journal of Heat and Mass Transfer, 2019, 134, 1084-1090.	2.5	0
2516	Evolution of Kelvin-Helmholtz Instability on the Venusian Ionopause with the Influence of Hall Effect. Astrophysical Journal, 2019, 875, 47.	1.6	5
2517	Derivation and numerical comparison of Shakhov and Ellipsoidal Statistical kinetic models for a monoatomic gas mixture. European Journal of Mechanics, B/Fluids, 2019, 76, 390-402.	1.2	16
2518	Fine-Tuning an OpenMP-Based TVD-Hopmoc Method Using Intel® Parallel Studio XE Tools on Intel® Xeon® Architectures. Communications in Computer and Information Science, 2019, , 194-209.	0.4	2
2519	Kinetic jets™ from fast-moving pulsars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2041-2053.	1.6	26
2520	A Relaxation Filtering Approach for Two-Dimensional Rayleigh-Taylor Instability-Induced Flows. Fluids, 2019, 4, 78.	0.8	7
2521	3D flow simulation of a circular leading edge hydrofoil and assessment of cavitation erosion by the statistical evaluation of void collapses and cavitation structures. Wear, 2019, 428-429, 457-469.	1.5	40
2522	Direct numerical simulations of hypersonic boundary-layer transition for a flared cone: fundamental breakdown. Journal of Fluid Mechanics, 2019, 869, 341-384.	1.4	101
2523	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy on triangular meshes. Journal of Computational Physics, 2019, 392, 19-33.	1.9	48
2525	3D dynamics and morphology of bow-shock pulsar wind nebulae. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4760-4784.	1.6	35
2526	On the numerical modelling of Corium spreading using Volume-of-Fluid methods. Nuclear Engineering and Design, 2019, 345, 216-232.	0.8	5
2527	Efficient Wave Modeling Using Nonhydrostatic Pressure Distribution and Free Surface Tracking on Fixed Grids. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	3
2528	A Moment Limiter for the Discontinuous Galerkin Method on Unstructured Triangular Meshes. SIAM Journal of Scientific Computing, 2019, 41, A508-A537.	1.3	7
2529	A fifth-order shock capturing scheme with two-stage boundary variation diminishing algorithm. Journal of Computational Physics, 2019, 386, 323-349.	1.9	45
2530	Numerical Experiments on Anomalies from Stationary, Slowly Moving, and Fast-Moving Shocks. AIAA Journal, 2019, 57, 1763-1772.	1.5	8
2531	Multiresolution-based adaptive central high resolution schemes for modeling of nonlinear propagating fronts. Engineering Analysis With Boundary Elements, 2019, 103, 172-195.	2.0	5
2532	An Improved OpenMP Implementation of the TVD-Hopmoc Method Based on a Cluster of Points. Lecture Notes in Computer Science, 2019, , 132-145.	1.0	1
2533	A three-dimensional coupled Euler-PIC method for penetration problems. International Journal for Numerical Methods in Engineering, 2019, 119, 737-756.	1.5	13

#	ARTICLE	IF	CITATIONS
2534	Multiscale Polynomial-Based High-Order Central High Resolution Schemes. <i>Journal of Scientific Computing</i> , 2019, 80, 555-613.	1.1	3
2535	Mathematical Modeling of Swirling Herschel-Bulkley Pseudoplastic Fluid Flow in a Cylindrical Channel. <i>Journal of Engineering Physics and Thermophysics</i> , 2019, 92, 208-218.	0.2	8
2536	A New MHD Model with a Rotated-hybrid Scheme and Solenoidality-preserving Approach. <i>Astrophysical Journal</i> , 2019, 871, 226.	1.6	19
2538	A split random time-stepping method for stiff and nonstiff detonation capturing. <i>Combustion and Flame</i> , 2019, 204, 397-413.	2.8	6
2539	A hybrid variational Allen-Cahn/ALE scheme for the coupled analysis of two-phase fluid-structure interaction. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 405-429.	1.5	18
2540	A convergent finite difference scheme for the Ostrovsky-Hunter equation with Dirichlet boundary conditions. <i>BIT Numerical Mathematics</i> , 2019, 59, 775-796.	1.0	7
2541	A Hybrid Dispersed-Large Interface Solver for multi-scale two-phase flow modelling. <i>Nuclear Engineering and Design</i> , 2019, 344, 69-82.	0.8	14
2542	Parallel multi-objective calibration of a component-based river temperature model. <i>Environmental Modelling and Software</i> , 2019, 116, 57-71.	1.9	13
2543	Reactive contaminant transport simulation using the analytic element method, random walk particle tracking and kernel density estimator. <i>Journal of Contaminant Hydrology</i> , 2019, 222, 76-88.	1.6	10
2544	Uncertainty quantification of axisymmetric spherical cavities with lining in coupled saturated thermo-poro-elastic media via adaptive second-order central high resolution schemes. <i>International Journal of Hydromechatronics</i> , 2019, 2, 111.	1.0	2
2545	Node-Level optimization of a 3D Block-Based Multiresolution Compressible Flow Solver with Emphasis on Performance Portability. , 2019, , .		4
2546	Small dust grain dynamics on adaptive mesh refinement grids. <i>Astronomy and Astrophysics</i> , 2019, 626, A96.	2.1	32
2547	An Energetic Model for Detonation of Granulated Solid Propellants. <i>Energies</i> , 2019, 12, 4459.	1.6	4
2548	Combined DG Scheme That Maintains Increased Accuracy in Shock Wave Areas. <i>Doklady Mathematics</i> , 2019, 100, 519-523.	0.1	17
2549	Generation of Steady-States with Discontinuities Using Minimal Gain Marching Schemes. , 2019, , .		0
2550	On a compact finite-difference scheme of the third order of weak approximation. <i>Journal of Physics: Conference Series</i> , 2019, 1359, 012072.	0.3	0
2551	Sensitivity of results of Black Sea level modeling to the choice of boundary conditions on the free surface. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 386, 012027.	0.2	0
2552	Influence of parallel shearing flow on the switch-off effect of magnetic reconnection. <i>AIP Advances</i> , 2019, 9, 125151.	0.6	0

#	ARTICLE	IF	CITATIONS
2553	Numerical Simulations of the 1-D Modified Burgers Equation. , 2019, , .		2
2554	Magnetosphere response to stationary solar wind forcing at various plasma resistivities in 2D MHD simulation. Journal of Physics: Conference Series, 2019, 1394, 012026.	0.3	0
2555	Development of Low Diffusive MLP Limiter for Meshless Method. , 2019, , .		0
2556	Introduction to Basic Space Plasma Physics and Its Methods for Computer Simulation. Japanese Journal of Multiphase Flow, 2019, 33, 249-257.	0.1	0
2557	Numerical investigations on stability of the spatially oscillating planar two-phase liquid jet in a quiescent atmosphere. Physics of Fluids, 2019, 31, .	1.6	21
2558	Mathematical Simulation of the Swirling Flow of a Dilatant Herschel-Bulkley Fluid in a Cylindrical Channel. Journal of Engineering Physics and Thermophysics, 2019, 92, 1593-1602.	0.2	6
2559	Plasma-sheath transition in multi-fluid models with inertial terms under low pressure conditions: Comparison with the classical and kinetic theory. Plasma Sources Science and Technology, 0, , .	1.3	8
2560	A Maximum Entropy-Inspired Interpolative Closure for the Prediction of Radiative Heat Transfer in Laminar Co-Flow Diffusion Flames. Combustion Science and Technology, 2019, , 1-35.	1.2	4
2561	Soft wall resistance as a necessary condition to validate numerical simulations in thermoacoustic heat transfer within closed cavities. International Journal of Thermal Sciences, 2019, 135, 580-588.	2.6	1
2562	New very high-order upwind multi-layer compact (MLC) schemes with spectral-like resolution for flow simulations. Journal of Computational Physics, 2019, 378, 63-109.	1.9	6
2563	A new hybrid WENO scheme for hyperbolic conservation laws. Computers and Fluids, 2019, 179, 422-436.	1.3	34
2564	High-order well-balanced finite volume schemes for the Euler equations with gravitation. Journal of Computational Physics, 2019, 378, 324-343.	1.9	26
2565	Steady-States of Supersonic Flows Over Compression Ramps. , 2019, , .		3
2566	Characteristic modal shock detection for discontinuous finite element methods. Computers and Fluids, 2019, 179, 309-333.	1.3	16
2567	Adaptive mapping for high order WENO methods. Journal of Computational Physics, 2019, 381, 162-188.	1.9	28
2568	A low-dissipation finite-volume method based on a new TENO shock-capturing scheme. Computer Physics Communications, 2019, 235, 25-39.	3.0	45
2569	Numerical simulation of non-isothermal two-phase flow in pipelines using a two-fluid model. Journal of Petroleum Science and Engineering, 2019, 173, 298-314.	2.1	15
2570	IB-WENO method for incompressible flow with elastic boundaries. Journal of Computational and Applied Mathematics, 2019, 362, 498-509.	1.1	4

#	ARTICLE	IF	CITATIONS
2571	A New TVD Scheme for Gradient Smoothing Method Using Unstructured Grids. International Journal of Computational Methods, 2020, 17, 1850132.	0.8	6
2572	A comparison of two- and three-dimensional single-mode reshocked Richtmyer–Meshkov instability growth. Physica D: Nonlinear Phenomena, 2020, 401, 132201.	1.3	15
2573	Convergence to Steady-State Solutions of the New Type of High-Order Multi-resolution WENO Schemes: a Numerical Study. Communications on Applied Mathematics and Computation, 2020, 2, 429-460.	0.7	9
2574	A theoretical framework for discontinuity capturing: Joining variational multiscale analysis and variation entropy theory. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112664.	3.4	9
2575	A modified monotonicity-preserving high-order scheme with application to computation of multi-phase flows. Computers and Fluids, 2020, 197, 104345.	1.3	7
2576	Cell-Centered Finite Volume Methods. Atmosphere, Earth, Ocean & Space, 2020, , 125-337. Implicit large eddy simulation of compressible turbulence flow with $\langle \mathbf{u} \cdot \nabla \mathbf{u} \rangle$	0.4	1
2577	Implicit large eddy simulation of compressible turbulence flow with $\langle \mathbf{u} \cdot \nabla \mathbf{u} \rangle$	1.8	18
2578	Numerical analysis on the effects of a submerged bottom-mounted barrier in the head-on collision of two solitary waves. Applied Ocean Research, 2020, 94, 101996.	1.8	3
2579	Double-Thyristor-Based Protection for Valve-Side Single-Phase-to-Ground Faults in HB-MMC-Based Bipolar HVDC Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 5810-5815.	5.2	18
2580	Strong stability preserving second derivative diagonally implicit multistage integration methods. Applied Numerical Mathematics, 2020, 150, 536-558.	1.2	8
2581	WENO interpolation for Lagrangian particles in highly compressible flow regimes. Journal of Computational Physics, 2020, 402, 109054.	1.9	12
2582	A new very high-order upwind directional multi-layer compact (DMLC) scheme for multi-dimensional flows. Computers and Fluids, 2020, 197, 104356.	1.3	0
2583	Stability properties of the Discontinuous Galerkin Material Point Method for hyperbolic problems in one and two space dimensions. International Journal for Numerical Methods in Engineering, 2020, 121, 664-689.	1.5	5
2584	An efficient and accurate MPI-based parallel simulator for streamer discharges in three dimensions. Journal of Computational Physics, 2020, 401, 109026.	1.9	13
2585	Redshift effect implications on revised models of Stephan's Quintet. Modern Physics Letters A, 2020, 35, 1950342.	0.5	0
2586	High-resolution large time-step schemes for inviscid fluid flow. Applied Mathematical Modelling, 2020, 81, 263-278.	2.2	0
2587	A hybrid Hermite WENO scheme for hyperbolic conservation laws. Journal of Computational Physics, 2020, 405, 109175.	1.9	28
2588	Bound-preserving flux limiting schemes for DG discretizations of conservation laws with applications to the Cahn–Hilliard equation. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112665.	3.4	12

#	ARTICLE	IF	CITATIONS
2589	Generalized Få€discrepancyâ€based point selection strategy for dependent random variables in uncertainty quantification of nonlinear structures. International Journal for Numerical Methods in Engineering, 2020, 121, 1507-1529.	1.5	27
2590	Entropy inequalities for fully-discrete E-schemes. Numerische Mathematik, 2020, 144, 347-356.	0.9	1
2591	A closure model for the drag coefficient of a sphere translating in a viscoelastic fluid. Journal of Non-Newtonian Fluid Mechanics, 2020, 277, 104218.	1.0	17
2592	Numerical issues in gas flow dynamics with hydraulic shocks using high order finite volume WENO schemes. Journal of Computational Physics, 2020, 404, 109137.	1.9	0
2593	An Improvement of Third Order WENO Scheme for Convergence Rate at Critical Points with New Non-linear Weights. Differential Equations and Dynamical Systems, 2020, 28, 539-557.	0.5	1
2594	Conservative numerical methods for nonlinear oscillators. American Journal of Physics, 2020, 88, 60-69.	0.3	1
2595	Numerical Approach of the Equilibrium Solutions of a Global Climate Model. Mathematics, 2020, 8, 1542.	1.1	5
2596	Construction and application of several new symmetrical flux limiters for hyperbolic conservation law. Computers and Fluids, 2020, 213, 104741.	1.3	16
2597	Inertia-driven and elastoinertial viscoelastic turbulent channel flow simulated with a hybrid pseudo-spectral/finite-difference numerical scheme. Journal of Non-Newtonian Fluid Mechanics, 2020, 286, 104410.	1.0	11
2598	An L2-norm regularized incremental-stencil WENO scheme for compressible flows. Computers and Fluids, 2020, 213, 104721.	1.3	5
2599	On the Behaviour of High-Order One-Step Monotonicity-Preserving Scheme for Direct Numerical Simulation of Shocked Turbulent Flows. International Journal of Computational Fluid Dynamics, 2020, 34, 671-704.	0.5	2
2600	A Modified Fifth Order Finite Difference Hermite WENO Scheme for Hyperbolic Conservation Laws. Journal of Scientific Computing, 2020, 85, 1.	1.1	13
2601	Copula-Based Quantification of Probabilistic Dependence Configurations of Material Parameters in Damage Constitutive Modeling of Concrete. Journal of Structural Engineering, 2020, 146, .	1.7	29
2602	Scaling Analysis of Twoâ€Phase Flow in Fractal Permeability Fields. Water Resources Research, 2020, 56, e2020WR028214.	1.7	7
2603	Design of Hybrid Reconstruction Scheme for Compressible Flow Using Data-Driven Methods. Journal of Mechanics, 2020, 36, 675-689.	0.7	1
2604	A quantitative risk analysis model for cascade reservoirs overtopping: principle and application. Natural Hazards, 2020, 104, 249-277.	1.6	11
2605	A second-order maximum-entropy inspired interpolative closure for radiative heat transfer in gray participating media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107238.	1.1	8
2606	Acceleration of the numerical solution for the radiative transfer equation using a modified relaxation factor. Engineering Computations, 2020, 37, 1823-1847.	0.7	3

#	ARTICLE	IF	CITATIONS
2607	The Physical Influence Scheme applied to staggered unstructured grids for solving fluid flow problems. Numerical Heat Transfer, Part B: Fundamentals, 2020, 78, 197-220.	0.6	2
2608	Numerical Simulation of Detonation Combustion of Kerosene Vapors in an Expanding Nozzle. Combustion, Explosion and Shock Waves, 2020, 56, 344-352.	0.3	6
2609	Direct Numerical Simulations of Hypersonic Boundary-Layer Transition for a slender cone. , 2020, , .		5
2610	Modelling of the arteriovenous malformation embolization optimal scenario. Royal Society Open Science, 2020, 7, 191992.	1.1	4
2611	An Acoustic and Shock Wave Capturing Compact High-Order Gas-Kinetic Scheme with Spectral-Like Resolution. International Journal of Computational Fluid Dynamics, 2020, 34, 731-756.	0.5	11
2612	On coherent structures of spatially oscillating planar liquid jet developing in a quiescent atmosphere. Physics of Fluids, 2020, 32, .	1.6	18
2613	Features of High-Velocity Pulsating Liquid Jets. Journal of Engineering Physics and Thermophysics, 2020, 93, 893-910.	0.2	0
2614	Obstacles, Interfacial Forms, and Turbulence: A Numerical Analysis of Soilâ€™Water Evaporation Across Different Interfaces. Transport in Porous Media, 2020, 134, 275-301.	1.2	6
2615	Existence and Computation of Solutions of a Model of Traffic Involving Hysteresis. SIAM Journal on Applied Mathematics, 2020, 80, 2319-2337.	0.8	4
2616	Modeling of nitrogen and oxygen gas mixture with a novel diatomic kinetic model. AIP Advances, 2020, 10, .	0.6	10
2617	Numerical relativity in spherical coordinates: A new dynamical spacetime and general relativistic MHD evolution framework for the Einstein Toolkit. Physical Review D, 2020, 101, .	1.6	19
2618	A low-diffusion self-adaptive flux-vector splitting approach for compressible flows. Computers and Fluids, 2020, 206, 104586.	1.3	3
2619	An improved Roe solver for high order reconstruction schemes. Computers and Fluids, 2020, 207, 104591.	1.3	9
2620	Solution property preserving reconstruction BVD+MOOD scheme for compressible euler equations with source terms and detonations. Computers and Fluids, 2020, 206, 104594.	1.3	5
2621	A conservative diffuse-interface method for compressible two-phase flows. Journal of Computational Physics, 2020, 418, 109606.	1.9	39
2622	A solution to the overdamping problem when simulating dustâ€™gas mixtures with smoothed particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3929-3934.	1.6	13
2623	Efficient modeling of shallow water equations using method of lines and artificial viscosity. Modern Physics Letters B, 2020, 34, 2050051.	1.0	8
2624	Compressible multiphase particle-in-cell method (CMP-PIC) for full pattern flows of gas-particle system. Journal of Computational Physics, 2020, 418, 109602.	1.9	18

#	ARTICLE	IF	CITATIONS
2625	Numerical investigation of an internal solitary wave interaction with horizontal cylinders. <i>Ocean Engineering</i> , 2020, 208, 107430.	1.9	20
2626	3D flow simulations and pressure measurements for the evaluation of cavitation dynamics and flow aggressiveness in ultrasonic erosion devices with varying gap widths. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105091.	3.8	15
2627	An Edge Detector Based on Artificial Neural Network with Application to Hybrid Compact-WENO Finite Difference Scheme. <i>Journal of Scientific Computing</i> , 2020, 83, 1.	1.1	10
2628	Overcoming shock instability of the HLLC-type Riemann solvers. <i>Journal of Computational Physics</i> , 2020, 418, 109628.	1.9	5
2629	A Review on Turbine Trailing Edge Flow. <i>International Journal of Turbomachinery, Propulsion and Power</i> , 2020, 5, 10.	0.5	23
2630	Computational Modeling of Turbulent Flows. <i>Journal of Engineering Thermophysics</i> , 2020, 29, 156-169.	0.6	3
2631	3D numerical experiment for EUV waves caused by flux rope eruption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4816-4829.	1.6	13
2632	Decoupling of hyperbolic conservation laws using an improved eigenvector matrix. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 1185-1193.	0.7	0
2633	On the Accuracy of Bcompact Schemes as Applied to Computation of Unsteady Shock Waves. <i>Computational Mathematics and Mathematical Physics</i> , 2020, 60, 864-878.	0.2	7
2634	Well-balanced central schemes for the one and two-dimensional Euler systems with gravity. <i>Applied Numerical Mathematics</i> , 2020, 156, 608-626.	1.2	10
2635	A new type of increasingly high-order multi-resolution trigonometric WENO schemes for hyperbolic conservation laws and highly oscillatory problems. <i>Computers and Fluids</i> , 2020, 200, 104448.	1.3	7
2636	A novel finite-volume TVD scheme to overcome non-realizability problem in quadrature-based moment methods. <i>Journal of Computational Physics</i> , 2020, 409, 109337.	1.9	9
2637	3D Numerical Investigation of Forces and Flow Field around the Semi-Submersible Platform in An Internal Solitary Wave. <i>Water (Switzerland)</i> , 2020, 12, 208.	1.2	15
2638	Multilevel quasidiffusion method with mixed-order time discretization for multigroup thermal radiative transfer problems. <i>Journal of Computational Physics</i> , 2020, 409, 109315.	1.9	5
2639	Conservative finite-volume framework and pressure-based algorithm for flows of incompressible, ideal-gas and real-gas fluids at all speeds. <i>Journal of Computational Physics</i> , 2020, 409, 109348.	1.9	39
2640	A new method towards high-order weno schemes on structured and unstructured grids. <i>Computers and Fluids</i> , 2020, 200, 104453.	1.3	13
2641	Numerical evaluation of novel kinetic models for binary gas mixture flows. <i>Physics of Fluids</i> , 2020, 32, .	1.6	6
2642	Robust numerical fluxes for unrealizable states. <i>Journal of Computational Physics</i> , 2020, 408, 109244.	1.9	8

#	ARTICLE	IF	CITATIONS
2643	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
2644	Monolithic convex limiting for continuous finite element discretizations of hyperbolic conservation laws. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112804.	3.4	35
2645	Entropy-stable schemes for relativistic hydrodynamics equations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020, 71, 1.	0.7	11
2646	Flux-corrected Transport with MT3DMS for Positive Solution of Transport with Full-tensor Dispersion. <i>Ground Water</i> , 2020, 58, 338-348.	0.7	3
2647	LES prediction for acoustic noise of airfoil at high angle of attack. , 2020, , .		1
2648	High Order ADER Schemes for Continuum Mechanics. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	47
2649	A third-order compact nonlinear scheme for compressible flow simulations. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1352-1367.	0.9	3
2650	Numerical simulation of aerodynamic problems based on adaptive mesh refinement method. <i>Acta Astronautica</i> , 2020, 172, 7-15.	1.7	13
2651	A Novel Arc-length Numerical Method for Shock Interruption Problems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 790, 012072.	0.3	0
2652	An improved weighted essentially non-oscillatory scheme with modified smoothness indicator $\tilde{\tau}_i$, and adaptive index p . <i>International Journal of Computational Fluid Dynamics</i> , 2020, 34, 299-313.	0.5	2
2653	Numerical Analysis of Vortex Structures and Heat Transfer in a Supersonic Flow Past the Junction of a Blunt-Fin Body and a Plate. <i>Technical Physics</i> , 2020, 65, 174-181.	0.2	5
2654	Catchment-scale multi-process modeling with local time stepping. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	6
2655	On the temperature influence on cavitation erosion in micro-channels. <i>Experimental Thermal and Fluid Science</i> , 2020, 117, 110140.	1.5	9
2656	The Discontinuous Galerkin Material Point Method for variational hyperelastic-plastic solids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 365, 112987.	3.4	5
2657	Numerical Methods for the Solution of Population Balance Equations Coupled with Computational Fluid Dynamics. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2020, 11, 339-366.	3.3	36
2658	FLEXI: A high order discontinuous Galerkin framework for hyperbolic-parabolic conservation laws. <i>Computers and Mathematics With Applications</i> , 2021, 81, 186-219.	1.4	69
2659	On the range diminishing property of numerical schemes for scalar conservation laws. <i>Journal of Computational and Applied Mathematics</i> , 2021, 381, 113013.	1.1	0
2660	A novel finite volume scheme for hyperbolic conservation laws. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e201900339.	0.9	2

#	ARTICLE	IF	CITATIONS
2661	An efficient targeted ENO scheme with local adaptive dissipation for compressible flow simulation. Journal of Computational Physics, 2021, 425, 109902.	1.9	22
2662	A comparative analysis of explicit, IMEX and implicit strong stability preserving Runge-Kutta schemes. Applied Numerical Mathematics, 2021, 159, 204-220.	1.2	1
2663	Flux-corrected transport for scalar hyperbolic conservation laws and convection-diffusion equations by using linear programming. Journal of Computational Physics, 2021, 425, 109874.	1.9	5
2664	A conservative flux-splitting method for steady shock capturing. International Journal for Numerical Methods in Fluids, 2021, 93, 1564-1577.	0.9	0
2665	A new perspective on flux and slope limiting in discontinuous Galerkin methods for hyperbolic conservation laws. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113569.	3.4	5
2666	An improved flux limiter using fuzzy modifiers for Hyperbolic Conservation Laws. Mathematics and Computers in Simulation, 2021, 181, 16-37.	2.4	6
2667	Modeling Swash Zone Hydrodynamics Using Discontinuous Galerkin Finite-Element Method. Journal of Waterway, Port, Coastal and Ocean Engineering, 2021, 147, .	0.5	1
2668	An improved ϵ -factor algorithm for total variational diminishing (TVD) schemes on two-dimensional non-uniform unstructured grids. International Journal for Numerical Methods in Fluids, 2021, 93, 1446-1467.	0.9	1
2669	A new reconstruction of numerical fluxes for conservation laws using fuzzy operators. International Journal for Numerical Methods in Fluids, 2021, 93, 1690-1711.	0.9	6
2670	A new ninth-order central Hermite weighted essentially nonoscillatory scheme for hyperbolic conservation laws. International Journal for Numerical Methods in Fluids, 2021, 93, 1645-1667.	0.9	3
2671	Numerical simulation of bread baking in a convection oven. Applied Thermal Engineering, 2021, 184, 116252.	3.0	12
2672	A low-dissipation shock-capturing framework with flexible nonlinear dissipation control. Journal of Computational Physics, 2021, 428, 109960.	1.9	15
2673	On derivation and verification of a kinetic model for quantum vibrational energy of polyatomic gases in the gas-kinetic unified algorithm. Journal of Computational Physics, 2021, 435, 109938.	1.9	10
2674	Future Space-Transport-System Components under High Thermal and Mechanical Loads. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , .	0.2	1
2675	Nearfield Summary and Analysis of the Third AIAA Sonic Boom Prediction Workshop C608 Low Boom Demonstrator. , 2021, , .		20
2676	Local Discontinuous Galerkin Methods to a Dispersive System of KdV-Type Equations. Journal of Scientific Computing, 2021, 86, 1.	1.1	2
2677	Improving Accuracy of the Fifth-Order WENO Scheme by Using the Exponential Approximation Space. SIAM Journal on Numerical Analysis, 2021, 59, 143-172.	1.1	5
2678	Second-Order Accurate TVD Numerical Methods for Nonlocal Nonlinear Conservation Laws. SIAM Journal on Numerical Analysis, 2021, 59, 1167-1194.	1.1	3

#	ARTICLE	IF	CITATIONS
2679	An Oscillation-free Discontinuous Galerkin Method for Scalar Hyperbolic Conservation Laws. SIAM Journal on Numerical Analysis, 2021, 59, 1299-1324.	1.1	13
2680	An evolutionary algorithm for controlling numerical convergence of the radiative transfer equation with participating media using TVD interpolation schemes. Engineering Computations, 2021, 38, 2552-2574.	0.7	0
2681	Shock Wave Stability. Shock Wave and High Pressure Phenomena, 2021, , 341-388.	0.1	0
2682	Implementation of a parallel high-order WENO-type Euler equation solver using a CUDA PTX paradigm. Journal of Mechanics, 2021, 37, 496-512.	0.7	1
2683	A Numerical Model for Simulating Two-Phase Flow with Adaptive Mesh Refinement. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 43-64.	0.8	1
2684	Shock Capturing Methods in High-Order Flux Reconstruction I: Graph Viscosity and Convex Limiting Approaches. , 2021, , .		0
2685	Numerical uncertainties in discretization of the shallow-water equations for weather prediction models. , 2021, , 47-80.		0
2686	A fourth-order entropy condition scheme for systems of hyperbolic conservation laws. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1259-1281.	1.5	3
2687	Assessment of algebraic subgrid scale models for the flow over a triangular cylinder at Re = 45000. Ocean Engineering, 2021, 222, 108559.	1.9	9
2690	Low-dissipation BVD schemes for single and multi-phase compressible flows on unstructured grids. Journal of Computational Physics, 2021, 428, 110088.	1.9	17
2691	Dynamically inflated wind models of classical Wolf-Rayet stars. Astronomy and Astrophysics, 2021, 647, A151.	2.1	17
2692	Application of Spectral Method for Vibration-Induced High-Cycle Fatigue Evaluation of an High-Pressure Turbine Blade. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	0
2693	What determines the structure of short gamma-ray burst jets?. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4363-4371.	1.6	22
2694	High-order mapped WENO methods with improved efficiency. Computers and Fluids, 2021, 219, 104874.	1.3	10
2695	Simplified artificial viscosity approach for curing the shock instability. Computers and Fluids, 2021, 219, 104873.	1.3	9
2696	Numerical Investigations into the Effect of Confinement on the Stability of an Oscillating Planar Liquid Jet. IOP Conference Series: Materials Science and Engineering, 2021, 1128, 012032.	0.3	3
2697	A New Sixth-Order Finite Difference WENO Scheme for Fractional Differential Equations. Journal of Scientific Computing, 2021, 87, 1.	1.1	9
2698	An Energy-conserving Integrator for Conservative Hamiltonian Systems with Ten-dimensional Phase Space. Astrophysical Journal, Supplement Series, 2021, 253, 55.	3.0	12

#	ARTICLE	IF	CITATIONS
2699	Accuracy of Cell Centres to Vertices Interpolation for Unstructured Mesh Finite Volume Solver. Journal of the Institution of Engineers (India): Series C, 2021, 102, 577.	0.7	2
2700	A high-order moment limiter for the discontinuous Galerkin method on triangular meshes. Journal of Computational Physics, 2021, 433, 110188.	1.9	3
2701	Behavior of synchronous and asynchronous spatially oscillating planar liquid jets in tandem. Physics of Fluids, 2021, 33, 052102.	1.6	1
2702	A Method to Solve Hamiltonâ€“Jacobi Type Equation on Unstructured Meshes. Journal of Scientific Computing, 2021, 88, 1.	1.1	1
2703	Fourth-order gas-kinetic scheme for turbulence simulation with multi-dimensional WENO reconstruction. Computers and Fluids, 2021, 221, 104927.	1.3	11
2704	Very high order WENO schemes using efficient smoothness indicators. Journal of Computational Physics, 2021, 432, 110158.	1.9	14
2705	Analysis of High-order Explicit LES Dynamic Modeling Applied to Airfoil Flows. Flow, Turbulence and Combustion, 2022, 108, 77-104.	1.4	4
2706	A class of non-oscillatory direct-space-time schemes for hyperbolic conservation laws. Applied Mathematics and Computation, 2021, 399, 126013.	1.4	1
2707	A New Fifth-Order Finite Difference WENO Scheme for Dam-Break Simulations. Advances in Applied Mathematics and Mechanics, 2021, 13, 58-82.	0.7	3
2708	Scavenging processes in multicomponent medium with first-order reaction kinetics: Lagrangian and Eulerian modeling. Environmental Fluid Mechanics, 2021, 21, 817-842.	0.7	5
2709	Spatiotemporal flood risk assessment of underground space considering flood intensity and escape route. Natural Hazards, 2021, 109, 1539-1555.	1.6	9
2710	A locally implicit time-reversible sonic point processing algorithm for one-dimensional shallow-water equations. Journal of Computational Physics, 2021, 434, 110220.	1.9	5
2711	New Finite Difference Mapped WENO Schemes with Increasingly High Order of Accuracy. Communications on Applied Mathematics and Computation, 2023, 5, 64-96.	0.7	3
2712	Hybrid Discontinuous Galerkin/Finite Volume Method with Subcell Resolution for Shocked Flows. AIAA Journal, 2021, 59, 2027-2044.	1.5	2
2713	Numerical Investigation of Sloshing Under Roll Excitation at Shallow Liquid Depths and the Effect of Baffles. Journal of Marine Science and Application, 2021, 20, 185-200.	0.7	9
2714	Simulations of cosmic ray propagation. Living Reviews in Solar Physics, 2021, 7, 2.	5.0	19
2715	Numerical schemes for quasi-1D steady nozzle flows. Applied Mathematics and Computation, 2021, 400, 126072.	1.4	3
2717	High-order Runge-Kutta discontinuous Galerkin methods with multi-resolution WENO limiters for solving steady-state problems. Applied Numerical Mathematics, 2021, 165, 482-499.	1.2	7

#	ARTICLE	IF	CITATIONS
2718	A domain decomposition technique for small amplitude wave interactions with shock waves. <i>Journal of Computational Physics</i> , 2021, 437, 110326.	1.9	2
2719	Exponential stability of a general slope limiter scheme for scalar conservation laws subject to a dissipative boundary condition. <i>Mathematics of Control, Signals, and Systems</i> , 2022, 34, 37-65.	1.4	4
2720	Entropy inequalities for fully-discrete E-schemes: a sequel. <i>Numerische Mathematik</i> , 2021, 149, 139-149.	0.9	0
2721	Strong oblique shock waves in granular free-surface flows. <i>Physics of Fluids</i> , 2021, 33, .	1.6	3
2722	Numerical investigation of real-gas effect of inward-turning inlet at Mach 12. <i>Aerospace Science and Technology</i> , 2021, 115, 106786.	2.5	10
2723	Feature-based and goal-oriented anisotropic mesh adaptation for RANS applications in aeronautics and aerospace. <i>Journal of Computational Physics</i> , 2021, 439, 110340.	1.9	19
2724	Numerical prediction of noise generated from airfoil in stall using LES and acoustic analogy. <i>Noise and Vibration Worldwide</i> , 0, , 095745652110307.	0.4	1
2725	Computation of Compressible Gas Flow Using General-Purpose Graphics Processing Unit. <i>Journal of Engineering Physics and Thermophysics</i> , 0, , 1.	0.2	1
2726	Undercurrents in the Northeastern Black Sea Detected on the Basis of Multi-Model Experiments and Observations. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 933.	1.2	5
2727	Aquifer Storage and Recovery in Layered Saline Aquifers: Importance of Layer-Arrangements. <i>Water (Switzerland)</i> , 2021, 13, 2595.	1.2	2
2728	A High-Resolution Population Dynamic Model for Predicting Homogeneous Precipitation Kinetics of Spherical Precipitates During Thermal Aging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 4987-4996.	1.1	0
2729	Detonation flows in aluminium particle gas suspensions, inhomogeneous in concentrations. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 72, 104522.	1.7	8
2730	A Hierarchical Grid Solver for Simulation of Flows of Complex Fluids. <i>Polymers</i> , 2021, 13, 3168.	2.0	8
2731	High-order implicit time-stepping with high-order central-essentially-non-oscillatory methods for unsteady three-dimensional computational fluid dynamics simulations. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 121-151.	0.9	1
2732	AENO: a Novel Reconstruction Method in Conjunction with ADER Schemes for Hyperbolic Equations. <i>Communications on Applied Mathematics and Computation</i> , 0, , 1.	0.7	7
2733	A meshless generalized finite difference method for solving shallow water equations with the flux limiter technique. <i>Engineering Analysis With Boundary Elements</i> , 2021, 131, 159-173.	2.0	24
2734	Large-eddy simulations of the flow over a semi-circular cylinder at $Re = 50000$. <i>Computers and Fluids</i> , 2021, 228, 105054.	1.3	8
2735	A one-dimensional model for deflagration to detonation transition on the tip of elongated flames in tubes.. <i>Combustion and Flame</i> , 2021, 232, 111522.	2.8	9

#	ARTICLE	IF	CITATIONS
2736	A suitability analysis of transient one-dimensional two-fluid numerical models for simulating two-phase gas-liquid flows based on benchmark problems. <i>Computers and Fluids</i> , 2021, 229, 105070.	1.3	2
2737	One-dimensional dynamics of gaseous detonations revisited. <i>Combustion and Flame</i> , 2021, 232, 111535.	2.8	3
2738	Radiatively driven, time dependent bipolar outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 85-99.	1.6	4
2739	Gas-liquid two-phase flows simulation based on weakly compressible scheme with interface-adapted AMR method. <i>Journal of Computational Physics</i> , 2021, 445, 110605.	1.9	8
2740	Numerical and dimensional analysis for the jet buckling of highly viscous fluid. <i>International Journal of Mechanical Sciences</i> , 2021, 210, 106742.	3.6	4
2741	Multi-resolution HWENO schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2021, 446, 110653.	1.9	10
2742	Improvement to the discretized initial condition of the generalized density evolution equation. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107999.	5.1	7
2743	High resolution central scheme using a new upwind slope limiter for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2021, 231, 105164.	1.3	0
2744	A Computational Analysis of the Hopmoc Method Applied to the 2-D Advection-Diffusion and Burgers Equations. <i>Lecture Notes in Computer Science</i> , 2021, , 111-120.	1.0	0
2745	Total Variation Diminishing Finite Volume Scheme for Multi Dimensional Multi Species Transport with First Order Reaction Network. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 481-498.	0.1	0
2746	Linear Instability Mechanisms of Supersonic Flow Past Blunt Bodies. , 2021, , .		0
2747	A Class of Lagrangian-Eulerian Shock-Capturing Schemes for First-Order Hyperbolic Problems with Forcing Terms. <i>Journal of Scientific Computing</i> , 2021, 86, 1.	1.1	9
2750	Examples of Contemporary CFD Simulations. , 2002, , 339-369.		1
2751	Optimal Space Launcher Design Using a Refined Response Surface Method. <i>Lecture Notes in Computer Science</i> , 2005, , 1081-1091.	1.0	2
2752	High-resolution Simulation of Detonations with Detailed Chemistry. , 2005, , 69-91.		26
2753	High Order Finite Volume Nonlinear Schemes for the Boltzmann Transport Equation. , 2006, , 401-422.		1
2754	Reactive gas adsorption. , 2006, , 149-190.		2
2755	Data-Flow Oriented Visual Programming Libraries for Scientific Computing. <i>Lecture Notes in Computer Science</i> , 2002, , 429-438.	1.0	1

#	ARTICLE	IF	CITATIONS
2756	Finite volume TVD Runge Kutta scheme for Navier Stokes computations. , 1989, , 131-136.		4
2757	Novel Simulation Approaches for Cyclic Steady-state Fixed-bed Processes Exhibiting Sharp Fronts and Shocks. , 2005, , 207-223.		6
2758	Multiphase Flows: Compressible Multi-Hydrodynamics. , 2010, , 1813-1912.		7
2759	LES of Transition to Turbulence in the Taylor Green Vortex. , 2006, , 159-166.		4
2760	Electrochemical Modelling and Software Genericity. , 1997, , 81-104.		6
2761	Fuel Injection and Flameholding in High Speed Combustion Systems. Icase/nasa Larc Series, 1992, , 237-252.	0.2	4
2762	On High-Order Accurate Interpolation for Non-Oscillatory Shock Capturing Schemes. The IMA Volumes in Mathematics and Its Applications, 1986, , 71-105.	0.5	10
2763	Very High Order Accurate TVD Schemes. The IMA Volumes in Mathematics and Its Applications, 1986, , 229-274.	0.5	58
2764	On the Nonlinearity of Modern Shock-Capturing Schemes. Mathematical Sciences Research Institute Publications, 1987, , 147-201.	0.3	5
2765	Robust Neural Networks Inspired by Strong Stability Preserving Runge-Kutta Methods. Lecture Notes in Computer Science, 2020, , 416-432.	1.0	3
2766	Numerical Solution of Hydrodynamic Free Boundary Problems. , 1990, , 241-266.		4
2767	Finite Volume Solution of 2D and 3D Euler and Navier-Stokes Equations. , 2001, , 173-193.		15
2768	ADER: Arbitrary-Order Non-Oscillatory Advection Schemes. , 2001, , 723-732.		6
2769	Computation of High-speed Flow Using Non-Oscillatory Scheme. , 1999, , 465-474.		1
2770	The Lattice-Boltzmann Method for Multiphase Fluid Flow Simulations and Euler-Lagrange Large-Eddy Simulations. , 2007, , 181-228.		4
2771	Application of Finite Difference TVD Methods in Hypersonic Aerodynamics. Lecture Notes in Computer Science, 2015, , 161-168.	1.0	9
2772	Impact Forces of a Supercritical Flow of a Shear Thinning Slurry Against an Obstacle. , 2017, , 391-398.		1
2773	TVD Schemes to Compute Compressible Viscous Flows on Unstructured Meshes. , 1989, , 510-520.		14

#	ARTICLE	IF	CITATIONS
2774	Uniformly Second Order Convergent Schemes for Hyperbolic Conservation Laws Including Leonard's Approach. , 1989, , 51-62.		2
2775	A Fully Implicit High-Resolution Scheme for Chemically Reacting Compressible Flows. , 1989, , 648-659.		3
2776	High Resolution Finite Volume Schemes and Computational Aerodynamics. , 1989, , 63-74.		17
2777	How to Solve Systems of Conservation Laws Numerically Using the Graphics Processor as a High-Performance Computational Engine. , 2007, , 211-264.		8
2778	Shock-Capturing Schemes in Computational MHD. Lecture Notes in Physics, 2008, , 71-101.	0.3	5
2779	The High Order WLSQR Scheme and its Applications in Turbomachinery. , 2009, , 155-160.		1
2780	Aerodynamic Analysis of Rotor Blades using Overset Grid with Parallel Computation. Lecture Notes in Computational Science and Engineering, 2010, , 101-110.	0.1	2
2781	Implicit Flux-Corrected Transport Algorithm for Finite Element Simulation of the Compressible Euler Equations. Scientific Computation, 2004, , 325-354.	0.2	2
2782	Forest Fire Spreading. , 2014, , 1-34.		2
2783	Forest Fire Spreading. , 2015, , 1349-1385.		7
2784	Uniformly High-Order Accurate Nonoscillatory Schemes. I. , 1997, , 187-217.		15
2785	High Resolution Finite Volume Methods on Arbitrary Grids via Wave Propagation. , 1988, , 491-518.		1
2786	2D Hypersonic Viscous Flow over Compression Ramps. , 1992, , 407-420.		1
2787	Computation of Viscous Shock/Shock Interactions with an Upwind LU Implicit Scheme. , 1995, , 383-388.		3
2788	A Numerical and Experimental Study of Sonic Booms Generated in High-Speed Train Tunnels. , 1995, , 353-358.		1
2789	Noise Induced by Weak Shock Waves in Automobile Exhaust Systems (Effects of Viscosity and Back) Tj ETQq1 1 0.784314 rgBT /Overlo		3
2790	Numerical Simulations of Blast Wave Propagation Induced by Eruptions of Volcanoes. , 1995, , 385-390.		5
2791	Underwater Shock Wave Propagation and Focusing in Inhomogeneous Media. , 1995, , 439-444.		8

#	ARTICLE	IF	CITATIONS
2793	A Comparative Study of TVB, TVD and ENO Schemes for the Euler Equations. Lecture Notes in Engineering, 1989, , 61-80.	0.1	1
2794	Comparing Different Numerical Treatments of Advection Terms for Wind-Induced Circulations in Lake Constance. , 2001, , 368-393.		4
2795	Implicit Time-Dependent Methods for Inviscid and Viscous Compressible Flows, With a Discussion of the Concept of Numerical Dissipation. , 1992, , 180-222.		2
2796	Numerical Simulation of Laminar Symmetric Corner Flows in the Hypersonic Regime. Notes on Numerical Fluid Mechanics, 1999, , 250-257.	0.1	2
2797	High Speed Flows Over Compression Ramps. , 1992, , 223-236.		3
2800	Algebraic Flux Correction I. Scientific Computation, 2012, , 145-192.	0.2	17
2801	Modern Numerical Methods Applicable to Stellar Pulsation. , 1990, , 183-213.		4
2802	Vlasov Simulations of Ion Acoustic Double Layers. , 1985, , 279-301.		5
2804	High Speed Laminar Flows Over Cavities. , 1991, , 331-345.		1
2805	Simulations of Shocks with Smoothed Particles Hydrodynamics Method. Astrophysics and Space Science Library, 1999, , 83-104.	1.0	3
2806	Numerical Solution of the Navier Stokes Equations for Unsteady Unstalled and Stalled Flow in Turbomachinery Cascades with Oscillating Blades. , 1998, , 477-491.		1
2808	Hydrodynamic Collimation of YSO Jets. , 1997, , 291-302.		4
2809	Enhancement of shock-capturing methods via machine learning. Theoretical and Computational Fluid Dynamics, 2020, 34, 483-496.	0.9	25
2810	LINEARIZED FORM OF IMPLICIT TVD SCHEMES FOR THE MULTIDIMENSIONAL EULER AND NAVIER-STOKES EQUATIONS. , 1986, , 413-432.		2
2811	A summary of numerical methods for time-dependent advection-dominated partial differential equations. , 2001, , 423-445.		3
2812	Dynamics controlled by magnetic fields: parallel astrophysical computations. , 2001, , 31-42.		3
2813	A concurrent Navier-Stokes solver for implicit multibody calculations. , 1995, , 295-305.		1
2814	Subcell flux limiting for high-order Bernstein finite element discretizations of scalar hyperbolic conservation laws. Journal of Computational Physics, 2020, 411, 109411.	1.9	13

#	ARTICLE	IF	CITATIONS
2815	Low shear diffusion central schemes for particle methods. <i>Journal of Computational Physics</i> , 2020, 414, 109454.	1.9	10
2817	Essentially non-oscillatory and weighted essentially non-oscillatory schemes. <i>Acta Numerica</i> , 2020, 29, 701-762.	6.3	72
2818	Semi-global simulations of the magneto-rotational instability in core collapse supernovae. <i>Astronomy and Astrophysics</i> , 2009, 498, 241-271.	2.1	132
2819	Large jets from small-scale magnetic fields. <i>Astronomy and Astrophysics</i> , 2010, 512, A5.	2.1	3
2820	L2-stability of the upwind first order finite volume scheme for the Maxwell equations in two and three dimensions on arbitrary unstructured meshes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2000, 34, 139-158.	0.8	10
2821	Wavelet regularization of a Fourier-Galerkin method for solving the 2D incompressible Euler equations. <i>ESAIM: Proceedings and Surveys</i> , 2009, 29, 89-107.	0.4	9
2822	Hydrodynamical Models of Outflow Collimation in Young Stellar Objects. <i>Astrophysical Journal</i> , 1996, 472, 684-702.	1.6	44
2823	On the Role of Shock Waves in Galaxy Cluster Evolution. <i>Astrophysical Journal</i> , 1998, 502, 518-530.	1.6	46
2824	Simulating Electron Transport and Synchrotron Emission in Radio Galaxies: Shock Acceleration and Synchrotron Aging in Axisymmetric Flows. <i>Astrophysical Journal</i> , 1999, 512, 105-124.	1.6	81
2825	The Stream-Stream Collision after the Tidal Disruption of a Star around a Massive Black Hole. <i>Astrophysical Journal</i> , 1999, 519, 647-657.	1.6	37
2826	Interaction of Infall and Winds in Young Stellar Objects. <i>Astrophysical Journal</i> , 2000, 530, 923-938.	1.6	44
2827	The Propagation of Magnetocentrifugally Launched Jets. I. <i>Astrophysical Journal</i> , 2000, 540, 342-361.	1.6	29
2828	Precessing Jets and Point-Symmetric Nebulae. <i>Astrophysical Journal</i> , 1995, 447, .	1.6	57
2829	Simulating Electron Transport and Synchrotron Emission in Radio Galaxies: Shock Acceleration and Synchrotron Aging in Three-Dimensional Flows. <i>Astrophysical Journal</i> , 2001, 557, 475-491.	1.6	64
2830	The Statistical Discrepancy between the Intergalactic Medium and Dark Matter Fields: One-Point Statistics. <i>Astrophysical Journal, Supplement Series</i> , 2004, 154, 475-491.	3.0	10
2831	Compactness framework and convergence of Lax-Friedrichs and Godunov schemes for a 2×2 nonstrictly hyperbolic system of conservation laws. <i>Quarterly of Applied Mathematics</i> , 1995, 53, 401-421.	0.5	3
2832	On some numerical schemes for transonic flow problems. <i>Mathematics of Computation</i> , 1989, 52, 587-613.	1.1	1
2834	HIGHER ORDER NUMERICAL METHODS EVALUATION FOR THE COMPUTATION OF ONE DIMENSIONAL FREE SURFACE SHALLOW WATER FLOWS. <i>International Journal of Computational Engineering Science</i> , 2002, 03, 13-55.	0.1	3

#	ARTICLE	IF	CITATIONS
2835	Construction of monotonic schemes by the differential approximation method. , 0, .		1
2836	Method of Lines within the Simulation Environment Diva for Chemical Processes. , 2001, , .		7
2837	The significance of spatial reconstruction in finite volume methods for the shallow water equations. Applied Mathematical Sciences, 0, 8, 1411-1420.	0.0	2
2838	Computational Elements for High-fidelity Aerodynamic Analysis and Design Optimisation. Defence Science Journal, 2010, 60, 628-638.	0.5	2
2839	Robust Schemes Based on the Method of Lines for Shock Capturing. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 47-58.	0.7	6
2840	Solution of aerospace problems using structured and unstructured strategies. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2001, 23, 155-178.	0.1	1
2841	To Study Large Time Step High Resolution Low Dissipative Schemes for Hyperbolic Conservation Laws. Journal of Applied Fluid Mechanics, 2016, 9, 2073-2081.	0.4	2
2842	Numerical Modeling of 2-D and 3-D Flows using Artificial Compressibility Method and Collocated Mesh. Journal of Applied Fluid Mechanics, 2016, 9, 2333-2345.	0.4	7
2843	Application of averaging to smooth the solution in DG method. Keldysh Institute Preprints, 2017, , 1-32.	0.1	11
2844	Research on the accuracy of the discontinuous Galerkin method in the calculation of solutions with shock waves. Keldysh Institute Preprints, 2018, , 1-20.	0.1	1
2845	Verification of an entropic regularization method for discontinuous Galerkin schemes applied to hyperbolic equations. Keldysh Institute Preprints, 2019, , 1-25.	0.1	7
2851	REALIZATION OF THE TVD-SCHEME FOR A NUMERICAL SOLUTION OF THE FILTRATION PROBLEM. International Journal for Computational Civil and Structural Engineering, 2017, 13, 93-102.	0.2	5
2862	Numerical Analyses Concerning the Spatial Dynamics of an Initially Plane Gaseous ZDN Detonation.. , 1988, , 3-31.		2
2863	High resolution computation of 2-D/3-D unsteady flow field in pulsed lasers. , 1990, , .		1
2864	Numerical analysis of a nuclear fuel element for nuclear thermal propulsion. , 1991, , .		2
2865	Characteristics of the Shuttle Orbiter leeside flow during a reentry condition. , 1992, , .		2
2866	A study of pressure-based methodology for resonant flows in non-linear combustion instabilities. , 1992, , .		3
2867	Analytic corrections to CFD heating predictions accounting for changes in surface catalysis. II. , 1996, , .		5

#	ARTICLE	IF	CITATIONS
2868	Semi-implicit Runge-Kutta schemes for stiff multi-dimensional reacting flows. , 1997, , .		5
2869	High-order mixed weighted compact and non-compact scheme for shock and small length scale interaction. , 2012, , .		1
2870	Modified Weighted Compact Scheme for Shock Capturing. , 2013, , .		1
2871	Design Guidelines to Balance the Flow Distribution in Complex Profile Extrusion Dies. International Polymer Processing, 2017, 32, 58-71.	0.3	11
2872	Comparison of numerical schemes for the solution of the advective age equation in ice sheets. Annals of Glaciology, 2002, 35, 487-494.	2.8	11
2873	Admissibility of difference approximations for scalar conservation laws. Hiroshima Mathematical Journal, 1993, 23, .	0.1	8
2874	High-Speed Compressible Flow and Gas Dynamics. , 2012, , .		3
2875	Third order TVD scheme for hyperbolic conservation laws. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2007, 14, .	0.1	3
2876	Application of TVD-McCormack Scheme to Analysis of Dam-Break Problems. Journal of Korea Water Resources Association, 2003, 36, 365-374.	0.3	1
2877	CABARET FINITEâ€”DIFFERENCE SCHEMES FOR THE ONEâ€”DIMENSIONAL EULER EQUATIONS. Mathematical Modelling and Analysis, 2001, 6, 210-220.	0.7	6
2878	The Triple-layered Leading Edge of Solar Coronal Mass Ejections. Astrophysical Journal Letters, 2020, 898, L21.	3.0	5
2879	The convergence of the GRP scheme. Discrete and Continuous Dynamical Systems, 2008, 23, 1-27.	0.5	1
2880	Positivity property of second-order flux-splitting schemes for the compressible Euler equations. Discrete and Continuous Dynamical Systems - Series B, 2003, 3, 201-228.	0.5	21
2881	A structured model for the spread of Mycobacterium marinum; Foundations for a numerical approximation scheme. Mathematical Biosciences and Engineering, 2014, 11, 679-721.	1.0	4
2882	Difference schemes, entropy solutions, and speedup impulse for an inhomogeneous kinematic traffic flow model. Networks and Heterogeneous Media, 2008, 3, 1-41.	0.5	26
2883	A Parameter-Free Generalized Moment Limiter for High-Order Methods on Unstructured Grids. Advances in Applied Mathematics and Mechanics, 2009, 1, 451-480.	0.7	46
2884	A Numerical Study of Two-Fluid Models with Pressure and Velocity Relaxation. Advances in Applied Mathematics and Mechanics, 2010, 2, 131-159.	0.7	15
2885	Assessing the Performance of a Three Dimensional Hybrid Central-WENO Finite Difference scheme with Computation of a Sonic Injector in Supersonic Cross Flow. Advances in Applied Mathematics and Mechanics, 2012, 4, 719-736.	0.7	2

#	ARTICLE	IF	CITATIONS
2886	Fundamentals of Lax-Wendroff Type Approach to Hyperbolic Problems with Discontinuities. <i>Advances in Applied Mathematics and Mechanics</i> , 2019, 11, 571-582.	0.7	2
2887	Towards an Accurate and Robust Roe-Type Scheme for All Mach Number Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2019, 11, 132-167.	0.7	10
2888	Finite Volume Methods for Wave Propagation in Stratified Magneto-atmospheres. <i>Communications in Computational Physics</i> , 2010, 7, 473-509.	0.7	10
2889	A TVD Uncertainty Quantification Method with Bounded Error Applied to Transonic Airfoil Flutter. <i>Communications in Computational Physics</i> , 2009, , 406-432.	0.7	20
2890	Trigonometric WENO Schemes for Hyperbolic Conservation Laws and Highly Oscillatory Problems. <i>Communications in Computational Physics</i> , 2010, 8, 1242-1263.	0.7	20
2891	A Hybrid Numerical Simulation of Supersonic Isotropic Turbulence. <i>Communications in Computational Physics</i> , 2019, 25, .	0.7	6
2892	Predicting of the Fibrous Filters Efficiency for the Removal Particles from Gas Stream by Artificial Neural Network. <i>Advances in Chemical Engineering and Science</i> , 2015, 05, 317-327.	0.2	4
2893	A Gas Dynamics Method Based on the Spectral Deferred Corrections (SDC) Time Integration Technique and the Piecewise Parabolic Method (PPM). <i>American Journal of Computational Mathematics</i> , 2011, 01, 303-317.	0.2	3
2894	A Discrete Analogue of Energy Integral for a Difference Scheme for Quasilinear Hyperbolic Systems. <i>Applied Mathematics</i> , 2018, 09, 789-805.	0.1	11
2895	The Exchange Processes in the Patos Lagoon Estuarine Channel, Brazil. <i>International Journal of Geosciences</i> , 2011, 02, 248-258.	0.2	32
2896	A Numerical Study of Unsteady, Thermal, Glass Fiber Drawing Processes. <i>Communications in Mathematical Sciences</i> , 2005, 3, 27-45.	0.5	2
2897	Non-Oscillatory Central Schemes for the Incompressible 2-D Euler Equations. <i>Mathematical Research Letters</i> , 1997, 4, 321-340.	0.2	44
2898	Integer Ambiguity Search Technique Using Separated Gaussian Variables. <i>International Journal of Aeronautical and Space Sciences</i> , 2004, 5, 1-8.	1.0	2
2899	3D SIMULATIONS OF RADIO GALAXY EVOLUTION IN CLUSTER MEDIA. <i>Journal of the Korean Astronomical Society</i> , 2004, 37, 605-609.	1.5	1
2900	A New High Resolution TVD Scheme for Unsteady Flows with Shock Waves. <i>TeMa</i> , 2008, 9, .	0.1	2
2901	Fifty Years of Aerodynamics: Successes, Challenges, and Opportunities. <i>Canadian Aeronautics and Space Journal</i> , 2004, 50, 61-84.	0.1	5
2903	A LARGE TIME STEP ROE SCHEME APPLIED TO TWO-PHASE FLOW. , 2016, , .		1
2904	On the Accuracy of a MUSCL-Type Scheme when Calculating Discontinuous Solutions. <i>Mathematical Models and Computer Simulations</i> , 2021, 13, 810-819.	0.1	1

#	ARTICLE	IF	CITATIONS
2905	Effect of small heat release and viscosity on thermal-diffusive instability. Scientific Reports, 2021, 11, 20225.	1.6	0
2906	Low-Boom Demonstrator Near-Field Summary for the Third AIAA Sonic Boom Prediction Workshop. Journal of Aircraft, 2022, 59, 563-577.	1.7	13
2907	Mixed Mesh Finite Volume Method for 1D Hyperbolic Systems with Application to Plug-Flow Heat Exchangers. Mathematics, 2021, 9, 2609.	1.1	2
2908	The time-dependent Rayleigh-Taylor instability in interstellar shells and supershells, including the ROSITA bubbles. Monthly Notices of the Royal Astronomical Society, 2021, 509, 716-737.	1.6	4
2910	Enhanced fifth order WENO shock-capturing schemes with deep learning. Results in Applied Mathematics, 2021, 12, 100201.	0.5	8
2911	Maximum principle and positivity-preserving high order spectral volume schemes with parametrized flux limiters for solving hyperbolic conservation laws. Journal of Computational and Applied Mathematics, 2022, 404, 113893.	1.1	0
2912	Impacts of Desalinated and Recycled Water in the Abu Dhabi Surficial Aquifer. Water (Switzerland), 2021, 13, 2853.	1.2	0
2913	Numerical simulation of cavitating flow in maritime high-pressure direct fuel injection nozzles and assessment of cavitation-erosion damage. International Journal of Engine Research, 0, , 146808742110521.	1.4	0
2914	Very-high-order TENO schemes with adaptive accuracy order and adaptive dissipation control. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114193.	3.4	13
2915	Turbulent Compressible Flow Computations. , 2000, , 279-315.		0
2916	Behaviour of Infiltration Plume in Porous Media. Theory and Applications of Transport in Porous Media, 2000, , 273-285.	0.4	0
2917	Nonequilibrium Effects on Shock Wave/Boundary Layer Interaction in High Enthalpy Flow. , 2001, , 183-188.		0
2918	Multidimensional Artificial Dissipation for the Numerical Approximation of Conservation Laws. , 2001, , 463-472.		0
2919	Principles of Solution of the Governing Equations. , 2001, , 29-74.		0
2920	Spatial Discretisation. , 2001, , 75-127.		0
2922	In-situ subspace evaluation in reduced order modelling. , 2001, , .		1
2923	Shocks in a 2-phase interstellar medium: 2d modelling. Astronomical and Astrophysical Transactions, 2002, 21, 193-196.	0.2	0
2924	High Resolution Nonoscillatory Central Difference Schemes for the 2D Euler Equations via Artificial Compression. Mathematics in Industry, 2002, , 318-324.	0.1	2

#	ARTICLE	IF	CITATIONS
2925	A SECOND ORDER UPWIND METHOD FOR LINEAR HYPERBOLIC SYSTEMS. Communications of the Korean Mathematical Society, 2002, 17, 103-120.	0.2	0
2929	Numerical Analysis of Chromatography Problems. , 2003, , 266-333.		0
2931	Convergence of Approximate Solutions of Conservation Laws. , 2003, , 417-430.		2
2932	A Numerical Analysis of a Discontinuous Flow with TVD Scheme. Journal of Korea Water Resources Association, 2003, 36, 597-608.	0.3	0
2933	Finite Element Discretization and Iterative Solution Techniques for Multiphase Flows in Gas-Liquid Reactors. Scientific Computation, 2004, , 297-324.	0.2	0
2936	Finite difference TVD scheme for modeling two-dimensional advection-dispersion. , 2004, , 503-509.		0
2937	Computation of Sound Radiation in an AxisymmetricSupersonic Jet. International Journal of Aeronautical and Space Sciences, 2004, 5, 18-27.	1.0	0
2938	The numerical decision of the connected problem of dynamics and aerodynamics of wind turbine rotor. KosmÁ-Ána Nauka Á TehnologÁ-Áç, 2005, 11, 27-35.	0.1	0
2939	ModÁ-lisation du comportement hydraulique des dÁ-versoirs dÁ™orage latÁ-raux en rÁ-gime transcritique. Revue Des Sciences De L'Eau, 0, 18, 25-46.	0.2	0
2940	Comparison between a centered and a flux difference split schemes using unstructured strategy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2005, 27, 223-235.	0.8	0
2941	Computation of One-Dimensional Dam-Break Flow Using ENO Scheme. , 2006, , 175-175.		1
2942	Numerical Simulation of 2D Flood Waves Using TVD Scheme. , 2006, , 176-176.		0
2943	Development of Multi-dimensional Limiting Process for Multi-dimensional Compressible Flow. Journal of the Korean Society for Aeronautical & Space Sciences, 2006, 34, 1-11.	0.0	1
2945	Resolving Chemically Reacting Flow Using Moving Mesh Method. , 2007, , 538-541.		0
2946	Simulation of dam-break fluvial processes. , 2007, , 361-388.		0
2947	NUMERICAL SIMULATION OF FLOWS WITH SHOCKS. Computational Continuum Mechanics, 2008, 1, 48-56.	0.1	1
2951	One-dimensional Hydraulic Modeling of Open Channel Flow Using the Riemann Approximate Solver I : Model Development. Journal of Korea Water Resources Association, 2008, 41, 761-772.	0.3	1
2952	Building Better (Weighted) ENO Methods. , 2009, , 161-166.		0

#	ARTICLE	IF	CITATIONS
2954	Development of a Numerical Method for Analyzing Fire Plume Equations Using an Improved Version of a Quasi-Third-Order Accurate CIP Method That Eliminates Numerical Oscillation. Fire Science and Technology, 2009, 28, 69-87.	0.2	0
2955	High Resolution Quantum Kinetic Beam Schemes and Its Applications to Ideal Quantum Gas Dynamical Flows. , 2009, , 197-202.		0
2956	Solar System Plasmadynamics and Space Weather. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 399-408.	0.2	0
2957	Unsteady Aerodynamic Analysis for Helicopter Rotor in Hovering and Forward Flight Using Overlapped Grid. Journal of the Korean Society for Aeronautical & Space Sciences, 2009, 37, 215-223.	0.0	2
2958	One-dimensional Hydraulic Modeling of Open Channel Flow Using the Riemann Approximate Solver - Application for Natural River. Journal of Korea Water Resources Association, 2009, 42, 271-279.	0.3	1
2959	Numerical simulations of explosive volcanic eruption: Blast waves and pyroclastic flows. International Journal of Aerospace Innovations, 2009, 1, 81-88.	0.2	0
2960	Handling Method for Flux and Source Terms using Unsplit Scheme. Journal of Korea Water Resources Association, 2009, 42, 1079-1089.	0.3	2
2961	New Shock Detector for Shock-Boundary Layer Interaction. Lecture Notes in Computer Science, 2010, , 78-87.	1.0	0
2963	Mechanical and fluid-dynamic behaviour of debris and hyper-concentrated flows: overview and challenges. , 2010, , .		1
2964	NUMERICAL SOLUTIONS OF COASTAL MORPHODYNAMIC EVOLUTION FOR COMPLEX TOPOGRAPHY. Journal of Marine Science and Technology, 2020, 18, .	0.1	2
2965	Simulating vortex dynamics and transition in high-Reynolds number flows. Physica Scripta, 2010, T142, 014013.	1.2	0
2966	Strong-Stability-Preserving, K-Step, 5- to 10-Stage, Hermite-Birkhoff Time-Discretizations of Order 12. American Journal of Computational Mathematics, 2011, 01, 72-82.	0.2	1
2967	Stable Simulation of Shallow-Water Waves by Block Advection. , 2011, , 279-285.		0
2968	Selected Topics in Approximate Solutions of Nonlinear Conservation Laws. High-Resolution Central Schemes. The IMA Volumes in Mathematics and Its Applications, 2011, , 101-122.	0.5	1
2969	Numerical Modelling of Interaction Between Snow Avalanche and Protective Structures. Springer Series in Geomechanics and Geoengineering, 2011, , 153-158.	0.0	0
2970	A Third-Order Scheme for Numerical Fluxes to Guarantee Non-Negative Coefficients for Advection-Diffusion Equations. American Journal of Computational Mathematics, 2011, 01, 26-38.	0.2	0
2972	Numerical algorithms for unstructured meshes. , 2011, , 163-236.		0
2973	IMPROVED TECHNIQUE FOR CONTROLLING OSCILLATION OF COASTAL MORPHOLOGICAL MODELING SYSTEM. Journal of Marine Science and Technology, 2011, 19, .	0.1	4

#	ARTICLE	IF	CITATIONS
2974	Weighted Essentially No-Oscillatory Scheme Simulation of Discontinuous Flow. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 181-186.	0.2	0
2976	The Difference Method of 2-Dimensional Euler Equations With Flux Vector Splitting. <i>Lecture Notes in Electrical Engineering</i> , 2012, , 485-491.	0.3	3
2977	Simulation of residual stress in viscoelastic mold filling process. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2012, 61, 234602.	0.2	4
2978	The Repeated Replacement Method: A Pure Lagrangian Meshfree Method for Computational Fluid Dynamics. <i>PLoS ONE</i> , 2012, 7, e39999.	1.1	1
2979	Influencing the aerodynamics of the ACFA2020 aircraft with flap and trailing edge device oscillations. , 2013, , .		0
2981	The alternating evolution methods for first order nonlinear partial differential equations. <i>Communications in Information and Systems</i> , 2013, 13, 291-325.	0.3	0
2983	Delayed Detached Eddy Simulation of a Rotationally Symmetric Supersonic Jet. , 2013, , 233-244.		0
2984	A Kinetic-Theory Description of Fluids. , 2013, , 68-132.		0
2985	Numerical Relativistic Hydrodynamics: High-Order Methods. , 2013, , 459-490.		0
2986	Numerical Relativistic Hydrodynamics: Finite-Difference Methods. , 2013, , 386-413.		0
2987	Relativistic Perfect Fluids. , 2013, , 133-189.		0
2988	Numerical Relativistic Hydrodynamics: HRSC Methods. , 2013, , 414-458.		0
2989	Relativistic Hydrodynamics of Selfgravitating Fluids. , 2013, , 593-658.		0
2990	Linear and Nonlinear Hydrodynamic Waves. , 2013, , 190-257.		0
2991	A Brief Review of General Relativity. , 2013, , 2-67.		1
2992	Formulations of the Einsteinâ€Euler Equations. , 2013, , 318-385.		0
2993	Reaction Fronts: Detonations and Deflagrations. , 2013, , 258-284.		0
2994	Relativistic Non-Perfect Fluids. , 2013, , 285-316.		0

#	ARTICLE	IF	CITATIONS
2995	Relativistic Hydrodynamics of Non-Selfgravitating Fluids. , 2013, , 492-592.		0
2996	ADAPTIVE GRID SIMULATION OF HYPERBOLIC EQUATIONS. Journal of the Korean Society for Industrial and Applied Mathematics, 2013, 17, 279-294.	0.0	3
2997	Computational Methods for Unsteady Flows. Fluid Mechanics and Its Applications, 2014, , 33-92.	0.1	0
2998	Introduction to High-Resolution Upwind Schemes. Scientific Computation, 2014, , 181-207.	0.2	2
3000	Laminar and Turbulent Simulations of Several TVD Schemes in Two-Dimensionsâ€”Part Iâ€”Results. Lecture Notes in Electrical Engineering, 2014, , 203-229.	0.3	1
3001	CAS Application to the Construction of High-Order Difference Schemes for Solving Poisson Equation. Lecture Notes in Computer Science, 2014, , 99-110.	1.0	1
3002	Comparing Different Numerical Treatments of Advection Terms for Wind-Induced Circulations in Lakes. Advances in Geophysical and Environmental Mechanics and Mathematics, 2014, , 129-172.	0.1	0
3003	A High Resolution NV/TVD Finite Volume Scheme for the Regularized Long Wave Equation. International Journal of Fluid Dynamics, 2014, 02, 1-11.	0.0	0
3004	How to Handle Steep Moving Fronts?. , 2014, , 285-337.		0
3006	Construction of a Class of Symmetric TVD Schemes. The IMA Volumes in Mathematics and Its Applications, 1986, , 381-395.	0.5	4
3007	Finite Element Analysis in Computational Fluid Mechanics. , 1987, , 73-105.		1
3008	A High Order Essentially Non-Oscillatory Shock Capturing Method. , 1987, , 197-208.		0
3009	Inviscid Flow. , 1988, , 124-199.		0
3010	NEW DIRECTIONS IN COMPUTING REACTING FLOWS. , 1988, , 69-77.		0
3011	A Computer Study on Mach Reflection around a Concave Surface. Lecture Notes in Engineering, 1988, , 1-19.	0.1	0
3012	IMPLICIT TVD FINITE VOLUME METHODS FOR 2D INVISCID TRANSONIC FLOW CALCULATIONS. , 1988, , 290-295.		0
3013	Probleme de Riemann en hydrodynamique et applications. Lecture Notes in Mathematics, 1989, , 37-55.	0.1	0
3014	ENO Schemes with Subcell Resolution*. , 1989, , 291-327.		1

#	ARTICLE	IF	CITATIONS
3015	Nonlinear Resonance Phenomena for the Euler " Equations Coupled with Chemical Reaction " Kinetics. , 1989, , 530-543.		0
3016	An Improved Upwind Scheme for the Euler Equations. Lecture Notes in Engineering, 1989, , 81-98.	0.1	0
3017	Essentially non-oscillatory schemes for the Euler equations and its application to complex aerodynamic flows. , 1989, , .		0
3018	MmB " A New Class of Accurate High Resolution Schemes for Conservation Laws in Two Dimensions. , 1990, , 582-591.		0
3019	From Artificial Viscosity to ENO Schemes. , 1990, , 239-262.		0
3020	A Convenient Entropy Satisfying T.V.D. Scheme for Computational Aerodynamics. , 1990, , 61-68.		1
3021	Non Equilibrium Flow in an Arc-Jet. , 1991, , 1102-1115.		0
3022	Implicit Upwind Finite-Difference Simulation of Laminar Hypersonic Flow Over a 2D Ramp. , 1991, , 285-300.		2
3023	Navier-Stokes Calculations over a double ellipse and a double ellipsoid by an Implicit Non-Centered Method. , 1991, , 414-426.		0
3024	Computer Simulation - Trends in Highly Nonlinear Physics 6. 4. Nonlinear Phenomena in Inertial Confinement Fusion Plasma. 4-2 Nonlinear Evolution of the Rayleigh-Taylor Instability.. KakuyÅ«gÅ•KenkyÅ«, 1991, 66, 405-412.	0.1	1
3025	A High-Resolution, Adaptive-Grid Finite Difference Algorithm for Simulating Supersonic Jet/External Flow Interactions. , 1991, , 887-890.		0
3026	2D Hypersonic Viscous Flow Past a Double Ellipse Geometry. , 1991, , 553-565.		0
3027	A method to reduce the pressure wave intensity caused by a shock wave radiated from a duct. , 1992, , 305-312.		1
3028	Principles of Upwinding. Notes on Numerical Fluid Mechanics, 1992, , 145-254.	0.1	0
3029	Conical detonation waves - A comparison of theoretical and numerical results. , 1992, , .		0
3030	Equilibrium Reactive Flow past the Double-Ellipsoid at $M^{\infty} = 25$. , 1992, , 576-589.		0
3031	Fundamentals of Discrete Solution Methods. Notes on Numerical Fluid Mechanics, 1992, , 47-87.	0.1	0
3032	Hypersonic Flow over a Delta Wing at High Angle of Attack. , 1992, , 865-880.		0

#	ARTICLE	IF	CITATIONS
3033	Simulating Compressible Flow on a Distributed Memory Machine. , 1992, , 115-131.		0
3034	On a Class of Large Time-Step Schemes for Conservation Laws. , 1993, , 159-170.		1
3035	Analysis of Combustion Processes in a Mobile Granular Propellant Bed. , 1993, , 477-490.		0
3036	Application of high-order accurate essentially nonoscillatory schemes to two-dimensional compressible viscous flows. , 1993, , .		0
3037	Characteristic Galerkin Methods for Hyperbolic Problems. , 1993, , 430-439.		0
3038	Fundamental Investigation on Post-Shock Thermodynamic Nonequilibrium Effects of Air Including Ionization. , 1993, , 245-255.		3
3039	Some implementational issues of convection schemes for finite volume formulations. , 1993, , .		0
3041	Entropy conditions and their numerical analogues for conservation laws. Banach Center Publications, 1994, 29, 51-63.	0.1	0
3043	Shock Propagation over Fast/Slow and Slow/Fast Interfaces. , 1995, , 293-298.		0
3045	Shock Focusing and Jet Collimation In Young Stars. , 1995, , 145-153.		0
3046	A fast solver for gas flow networks. Notes on Numerical Fluid Mechanics, 1995, , 74-85.	0.1	3
3047	An Experimental and Numerical Study of the von Neumann Mach Reflection. , 1995, , 191-196.		0
3048	The Tailored Nozzle: A Method for Reducing the Convective Heat Transfer to Nozzle Throats by Gasdynamic Shielding. , 1995, , 239-246.		0
3050	A Rotationally Biased Upwind Difference Scheme for the Euler Equations. , 1997, , 423-450.		0
3051	ICASE and the History of High-Resolution Schemes. , 1997, , 1-7.		0
3052	A Simplified TVD Finite Difference Scheme via Artificial Viscosity. , 1997, , 149-166.		0
3053	Convergence of Generalized Muscl Schemes. , 1997, , 134-148.		32
3054	Theoretical Study and Experimental Validation of Transport Coefficients for Hydrocarbon Pollutants in Aquifers. Theory and Applications of Transport in Porous Media, 1998, , 143-152.	0.4	0

#	ARTICLE	IF	CITATIONS
3055	Adaptive Mesh for Two-Phase Flow in Porous Media. Theory and Applications of Transport in Porous Media, 1998, , 179-193.	0.4	0
3056	Contributions to Theoretical/Experimental Developments in Shock Waves Propagation in Porous Media. , 1999, , 63-100.		2
3057	Tidal Disruption of a Star by a Massive Black Hole. Astrophysics and Space Science Library, 1999, , 187-201.	1.0	0
3058	Computational Fluid Dynamics. , 2014, , 1-24.		0
3059	Investigations of a Self Sustained Vortex Flow System Inside a Confined Machinery Duct. , 2014, , .		0
3062	Barodiffusive Extension of Three-phase Flow Model for NegSat Method and Regularization of Three-phase Instability. , 2014, , .		0
3063	A High-Resolution Finite Volume Scheme Based on Newtonian Interpolation. Advances in Applied Mathematics, 2015, 04, 150-161.	0.0	0
3065	The research on the hydraulic numerical simulation of flux limiter function. , 0, , .		0
3066	USING SOME FLUX LIMITERS METHODS TO SOLVE THREE TEST PROBLEMS. Far East Journal of Applied Mathematics, 2015, 93, 83-108.	0.1	0
3067	Entropy-Monotone Scheme for Nonlinear Scalar Conservation Laws. , 2016, , .		0
3068	LEVEL SET METHOD FOR SIMULATING THE INTERFACE KINEMATICS: APPLICATION OF A DISCONTINUOUS GALERKIN METHOD. , 2016, , .		1
3069	A Modified CUI Scheme for Convection-Dominated Equations. Advances in Applied Mathematics, 2016, 05, 716-727.	0.0	0
3071	Development of Numerical Solver for the Simulation on Multiphase Flow in a Pipeline of Mud Handling System. Journal of Advanced Engineering and Technology, 2016, 9, 163-170.	0.1	0
3073	Note on a Classical Conservative Method for Scalar Hyperbolic Equations. Kyungpook Mathematical Journal, 2016, 56, 1179-1189.	0.3	0
3074	A High Resolution Finite Volume Scheme for One Dimensional Euler Equations. International Journal of Fluid Dynamics, 2017, 05, 56-68.	0.0	0
3076	On Construction of Combined Shock-Capturing Finite-Difference Schemes of High Accuracy. Lecture Notes in Computer Science, 2017, , 525-532.	1.0	0
3077	Computational Modeling of Turbulent Structuring of Molecular Clouds Based on High Resolution Calculating Schemes. Communications in Computer and Information Science, 2017, , 194-206.	0.4	0
3078	Numerical Simulation of Reactive Gas Mixes Flows in the Detonation Engines. , 2017, , 415-418.		0

#	ARTICLE	IF	CITATIONS
3079	Pulse Gas Injection in Separation Zone of Hypersonic MHD Flow Over Rotation Body. , 2017, , 795-800.		0
3080	A Nonlinear QUICK Scheme for Convection-Dominated Equations. Advances in Applied Mathematics, 2018, 07, 1650-1657.	0.0	0
3081	Modeling the sandpit dynamics in river flows. Hydrodynamics and Acoustics, 2018, 1, 132-159.	0.2	0
3082	ErgÄnzung zu Multiskalenverfahren und reale Ingenieursanwendungen. , 2018, , 193-239.		0
3083	Numerical Approaches for Kinetic and Hyperbolic Models. Lecture Notes in Mathematics, 2018, , 195-226.	0.1	0
3084	Formation of Two Component Flows by Numerical Simulations Around Black Holes. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 131-143.	0.3	0
3085	Outbursts in Stellar Black Hole Candidates: A Time-Dependent Study of Viscous Accretion Flow. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 145-155.	0.3	0
3086	Dynamics of Magnetic Flux Tubes in an Advective Flow Around Black Hole. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 183-194.	0.3	0
3087	A Class of High Resolution Difference Schemes Based on Non-Uniformly Cell Averaged-Solution Reconstruction. , 2018, , .		0
3088	Investigation of Higher-Harmonic Wave Forces and Ringing Using CFD Simulations. , 2018, , .		0
3089	Aerodynamic response of micro rotary wings in wind perturbation. Journal of Vibroengineering, 2018, 20, 2175-2187.	0.5	0
3090	Application of Turbulence Problem Solver (TPS) software complex for numerical modeling of the interaction between laser radiation and metals. Computer Research and Modeling, 2018, 10, 619-630.	0.2	0
3091	Numerical Study of High Resolution Schemes for GH2/GO2 Rocket Combustor using Single Shear Coaxial Injector. Journal of the Korean Society of Propulsion Engineers, 2018, 22, 72-83.	0.1	2
3092	A High Resolution Upwind Scheme for Traffic Flow on Networks. Advances in Applied Mathematics, 2019, 08, 2072-2083.	0.0	0
3093	Numerical implementation of an invariant scheme for one-dimensional shallow water equations in Lagrangian coordinates. Keldysh Institute Preprints, 2019, , 1-28.	0.1	1
3095	Finite Volume Methods. , 2019, , 347-415.		0
3096	Hybrid Compact-WENO Finite Difference Schemes for Hyperbolic Conservation Laws. , 2019, , 491-496.		0
3098	Comparison of the WENO and CABARET schemes at calculation of the scalar conservation law with a nonconvex flux. AIP Conference Proceedings, 2020, , .	0.3	3

#	ARTICLE	IF	CITATIONS
3099	Determination of Location of the Concentration Initial Field of a Possible Contamination Source in the Black Sea Water Area near the Gerakleisky Peninsula Based on the Adjoint Equations Method. <i>Morskoy Gidrofizicheskiy Zhurnal</i> , 2020, 36, .	0.1	0
3100	Accuracy of MUSCL-Type Schemes in Shock Wave Calculations. <i>Doklady Mathematics</i> , 2020, 101, 209-213.	0.1	5
3101	An Essential Seventh-Order Weighted Compact Adaptive Scheme for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	1.1	0
3102	A novel high-order scheme for numerical simulation of wake flow over helicopter rotors in hover. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 260-274.	2.8	7
3103	Examples of Decompositions for Time and Space Domains and Discretization of Equations for General Purpose Computational Fluid Dynamics Programs and Historical Perspective of Some Key Developments. , 2020, , 119-154.		0
3104	Numerical Simulation of Long Waves in Shallow Water. <i>Springer Tracts in Civil Engineering</i> , 2020, , 83-130.	0.3	0
3105	Mathematical Models of Plasma Acceleration and Compression in Coaxial Channels. , 2020, , 53-59.		0
3106	Structural Properties of the Stability of Jamitons. <i>SEMA SIMAI Springer Series</i> , 2021, , 35-62.	0.4	2
3107	MHD simulation of sawtooth events in meridional plane driven by various solar wind velocities. <i>Journal of Physics: Conference Series</i> , 2020, 1698, 012030.	0.3	0
3109	Simulations of radiation-driven winds from Keplerian discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4850-4860.	1.6	5
3110	Finite Volume Schemes for One-Dimensional Systems. <i>Applied Mathematical Sciences (Switzerland)</i> , 2021, , 215-423.	0.4	0
3111	On the boundedness stepsizes-coefficients of A-BDF methods. <i>AIMS Mathematics</i> , 2022, 7, 1562-1579.	0.7	1
3112	A high-order weighted compact nonlinear scheme for compressible flows. <i>Computers and Fluids</i> , 2022, 232, 105199.	1.3	8
3113	A new general method to compute dispersion errors on Cartesian stretched meshes for both linear and non-linear operators. <i>Computer Physics Communications</i> , 2022, 271, 108192.	3.0	4
3114	Multi-GPU implementation of a time-explicit finite volume solver using CUDA and a CUDA-Aware version of OpenMPI with application to shallow water flows. <i>Computer Physics Communications</i> , 2022, 271, 108190.	3.0	7
3115	On the accuracy of WENO schemes in the calculation of shock waves. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
3116	Combined scheme based on Rusanov scheme and discontinuous Galerkin method. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
3117	On the accuracy of finite-difference schemes in smooth parts of calculated weak solutions. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0

#	ARTICLE	IF	CITATIONS
3118	Combined DG scheme conserving increased accuracy in shock influence regions. AIP Conference Proceedings, 2020, , .	0.3	0
3119	A Convergence Analysis of a Multistep Method Applied to an Advection-Diffusion Equation in 1-D. Lecture Notes in Computer Science, 2020, , 3-18.	1.0	0
3121	Numerical Flux Functions for Ideal Gases. , 2020, , 21-67.		0
3122	A compact high-order gas-kinetic scheme on unstructured mesh for acoustic and shock wave computations. Journal of Computational Physics, 2022, 449, 110812.	1.9	13
3123	Multi-layer Perceptron Estimator for the Total Variation Bounded Constant in Limiters for Discontinuous Galerkin Methods. La Matematica, 2022, 1, 53-84.	0.3	3
3124	A comparison of finite difference and characteristic Galerkin methods for shock modelling. , 1985, , 412-416.		1
3125	Construction of monotonic schemes on the basis of method of differential approximation. , 2006, , 13-20.		1
3126	A high resolution finite volume scheme for steady external transonic flow. , 1989, , 182-186.		0
3127	Shock propagation over a circular cylinder. , 1989, , 558-562.		0
3128	Convenient entropy-satisfying T.V.D. schemes with applications. , 1990, , 329-332.		0
3129	Projection shock capturing algorithms. , 1990, , 335-336.		0
3132	Simulation Techniques for Cosmological Simulations. , 2008, , 229-268.		0
3133	Approximation of 2D and 3D Models of Chemotactic Cell Movement in Vasculogenesis. , 2007, , 179-191.		1
3134	Photo-Realistic Visualization for the Blast Wave of TNT Explosion by Grid-Based Rendering. , 2005, , 271-278.		0
3135	Multidimensional Aerothermodynamic Analysis For Planetary Probes using OLAP Cubes. , 2006, , .		0
3138	The Method of Discrete Ordinates (SN-Approximation). , 2022, , 563-616.		0
3139	Multi-stencils fast marching method for factored eikonal equations with quadratic anisotropy. Applied Mathematics and Computation, 2022, 417, 126776.	1.4	2
3140	A Fifth Order Alternative Mapped WENO Scheme for Nonlinear Hyperbolic Conservation Laws. Advances in Applied Mathematics and Mechanics, 2022, 14, 275-298.	0.7	3

#	ARTICLE	IF	CITATIONS
3141	Periodic adjoints and anisotropic mesh adaptation in rotating frame for high-fidelity RANS turbomachinery applications. <i>Journal of Computational Physics</i> , 2022, 450, 110814.	1.9	10
3142	Three-level order-adaptive weighted essentially non-oscillatory schemes. <i>Results in Applied Mathematics</i> , 2021, 12, 100217.	0.5	3
3143	On the implementation of flux limiters in algebraic frameworks. <i>Computer Physics Communications</i> , 2022, 271, 108230.	3.0	2
3144	ALPACA - a level-set based sharp-interface multiresolution solver for conservation laws. <i>Computer Physics Communications</i> , 2022, 272, 108246.	3.0	15
3145	A new accelerating technique for low speed flow: pseudo high speed method. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 45-64.	2.8	1
3146	On invariant finite-difference schemes for equations of one-dimensional flows of a polytropic gas for problems with spatial symmetries. <i>Keldysh Institute Preprints</i> , 2021, , 1-34.	0.1	0
3147	A new fifth order finite difference WENO scheme to improve convergence rate at critical points. <i>Wave Motion</i> , 2022, 109, 102859.	1.0	3
3148	A novel high-order low-dissipation TENO-THINC scheme for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2022, 452, 110899.	1.9	19
3149	A semi-discrete Lagrangian-Eulerian scheme for hyperbolic-transport models. <i>Journal of Computational and Applied Mathematics</i> , 2022, 406, 114011.	1.1	6
3150	Application of Spectral Method for Vibration-Induced High-Cycle Fatigue Evaluation of an HP Turbine Blade. , 2020, , .		2
3151	Large Time Step TVD High Order Scheme for Shallow Water Equations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3152	Seasonal Variability of the Dynamics and Energy Transport in the Black Sea by Simulation Data. <i>Water (Switzerland)</i> , 2022, 14, 338.	1.2	3
3153	A finite difference Hermite RBF-WENO scheme for hyperbolic conservation laws. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 583-607.	0.9	3
3154	An Algebraic Volume of Fluid Method Based on NVD and TVD Schemes Coupled to an All-Speed CFD Solver. , 2022, , .		0
3156	A Second-Order Maximum-Entropy-Inspired Interpolative Moment Closure Technique for the Prediction of Radiative Heat Transfer in Non-Gray Participating Media. , 2022, , .		0
3157	Modeling and Numerical Simulation of the Thermal Interaction between Vegetation Cover and Soil. <i>Mathematics</i> , 2022, 10, 338.	1.1	2
3158	Supersonic Laminar Flow Past a Blunt Fin: Duality of the Numerical Solution. <i>Technical Physics</i> , 2021, 66, 741.	0.2	1
3159	Numerical investigation of an internal solitary wave interaction with tandem horizontal cylinders. <i>Ocean Engineering</i> , 2022, 246, 110658.	1.9	2

#	ARTICLE	IF	CITATIONS
3160	Downdrift Port Siltation Adjacent to a River Mouth: Mechanisms and Effects of Littoral Sediment Transport to the Navigation Channel. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2022, 148, .	0.5	1
3161	Influence of high temperature non-equilibrium effects on Mach 12 scramjet inlet. <i>Acta Astronautica</i> , 2022, 193, 237-254.	1.7	8
3162	Quinpi: Integrating Conservation Laws with CWENO Implicit Methods. <i>Communications on Applied Mathematics and Computation</i> , 2023, 5, 343-369.	0.7	6
3163	A Class of Positive Semi-discrete Lagrangian Eulerian Schemes for Multidimensional Systems of Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	1.1	7
3167	Application of Quasi-monotonic Schemes in Seismic Arctic Problems. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 289-307.	0.5	4
3168	Anti-diffusive alternate directions schemes for the transport of step functions. <i>International Journal for Numerical Methods in Fluids</i> , 0, , .	0.9	0
3169	Bound-preserving Flux Limiting for High-Order Explicit Runge-Kutta Time Discretizations of Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	1.1	9
3170	Analysis of the annual mean energy cycle of the Black Sea circulation for the climatic, basin-scale and eddy regimes. <i>Ocean Dynamics</i> , 2022, 72, 259-278.	0.9	3
3171	GPU implementation of Explicit and Implicit Eulerian methods with TVD schemes for solving 2D solute transport in heterogeneous flows. <i>Computational Geosciences</i> , 2022, 26, 517-543.	1.2	1
3172	A Modified TENO Scheme with Improved Efficiency. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	1.1	1
3173	An alternative formulation of targeted ENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2022, 238, 105368.	1.3	8
3174	Entropy stable discontinuous Galerkin schemes for the special relativistic hydrodynamics equations. <i>Computers and Mathematics With Applications</i> , 2022, 112, 55-75.	1.4	3
3175	Comparison of Hybrid DDAD/St and DDAD-TVDR-Schemes for Solving the 2D Radiative Heat Transfer Equation. <i>Mathematical Models and Computer Simulations</i> , 2022, 14, 261-269.	0.1	0
3176	Improved high-order high-resolution energy stable weighted essentially non-oscillatory plus scheme for shock/vortex problems. <i>AIP Advances</i> , 2022, 12, 045106.	0.6	1
3177	Data-driven modeling of solar coronal magnetic field evolution and eruptions. <i>Innovation(China)</i> , 2022, 3, 100236.	5.2	23
3178	An efficient smoothness indicator mapped WENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2022, 240, 105421.	1.3	5
3179	Numerical study of high temperature non-equilibrium effects of double-wedge in hypervelocity flow. <i>Aerospace Science and Technology</i> , 2022, 124, 107526.	2.5	8
3180	An implicit large eddy simulation method based on all-speed schemes. <i>Computers and Mathematics With Applications</i> , 2022, 114, 1-20.	1.4	0

#	ARTICLE	IF	CITATIONS
3181	High order residual distribution conservative finite difference HWENO scheme for steady state problems. <i>Journal of Computational Physics</i> , 2022, 457, 111045.	1.9	2
3182	On Increasing the Stability of the Combined Scheme of the Discontinuous Galerkin Method. <i>Mathematical Models and Computer Simulations</i> , 2021, 13, 979-985.	0.1	0
3183	Hybrid Grid-Characteristic Schemes for Arctic Seismic Problems. <i>Doklady Mathematics</i> , 2021, 104, 374-379.	0.1	1
3184	Justification of the Method Of Integral Convergence for Studying the Accuracy of Difference Schemes. <i>Mathematical Models and Computer Simulations</i> , 2021, 13, 1028-1037.	0.1	1
3185	Modified equation based mesh adaptation algorithm for evolutionary scalar partial differential equations. <i>Numerical Methods for Partial Differential Equations</i> , 0, , .	2.0	0
3186	An Efficient Low-Dissipation High-Order TENO Scheme for MHD Flows. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	1.1	8
3187	Velocity Distribution Associated With EUV Disturbances Caused by Eruptive MFR. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	1
3188	A Semi-Lagrangian Godunov-Type Method without Numerical Viscosity for Shocks. <i>Fluids</i> , 2022, 7, 16.	0.8	1
3189	Monotone Schemes of Conditional Approximation and Arbitrary Order of Accuracy for the Transport Equation. <i>Computational Mathematics and Mathematical Physics</i> , 2022, 62, 359-371.	0.2	0
3191	Nonlinear characteristics and corrections of near-field underwater explosion shock waves. <i>Physics of Fluids</i> , 2022, 34, .	1.6	6
3192	A comparative study of high-resolution methods for nonlinear hyperbolic problems. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 0, , .	0.9	4
3193	Utility computable modeling of a Boltzmann model equation for bimolecular chemical reactions and numerical application. <i>Physics of Fluids</i> , 2022, 34, 046111.	1.6	1
3194	Computational Fluid Dynamics modelling of hydrodynamic characteristics of oscillatory flow past a square cylinder using the level set method. <i>Ocean Engineering</i> , 2022, 253, 111211.	1.9	13
3201	Numerical Simulation of Cavitation Phenomena in Accelerated Liquids. , 0, , 351-369.		0
3203	Impacts of Heterogeneity on Aquifer Storage and Recovery in Saline Aquifers. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
3204	Mitigation of post-shock oscillations induced by artificial viscosity in discontinuous finite element methods. <i>Computers and Fluids</i> , 2022, 241, 105491.	1.3	0
3205	Adaptive total variation stable local timestepping for conservation laws. <i>Journal of Computational Physics</i> , 2022, 463, 111176.	1.9	1
3206	Self-adjusting steepness-based schemes that preserve discontinuous structures in compressible flows. <i>Journal of Computational Physics</i> , 2022, 463, 111268.	1.9	8

#	ARTICLE	IF	CITATIONS
3209	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
3210	Two-Phase Flow, Heat and Mass Transfer and Tracer Transport to the Atmosphere from Underground Nuclear Cavities Through Fractured Porous Media. <i>Pure and Applied Geophysics</i> , 2023, 180, 1407-1437.	0.8	4
3211	A sixth order entropy condition scheme for compressible flow. <i>Computers and Fluids</i> , 2022, , 105514.	1.3	1
3212	Boltzmann-Poisson-like approach to simulating the galactic halo response to satellite accretion. Dependence on the halo density profile. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	1
3213	Conservative compressible one-dimensional turbulence formulation and application to high-Reynolds-number compressible turbulent channel flows. <i>Physics of Fluids</i> , 2022, 34, .	1.6	3
3217	Large-Eddy Simulation on Gas Mixing Induced by the High-Buoyancy Flow in the Cigma Facility. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3218	On the Solution Accuracy Downstream of Shocks When Using Shock-Capturing Methods. I. Sources of Errors in One-Dimensional Problems. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3219	Gp-Mood: A Positive-Preserving High-Order Finite Volume Method for Hyperbolic Conservation Laws. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3220	Continuum Modeling of Cell Sorting within a Plane Layer with Account for the Possible Separation of the Boundaries of the Regions Occupied by Cells of Two Different Types. <i>Fluid Dynamics</i> , 2022, 57, 221-233.	0.2	2
3221	A hybrid alternative mapped WENO scheme for compressible turbulence. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	0.8	0
3222	A fifth-order low-dissipation discontinuity-resolving TENO scheme for compressible flow simulation. <i>Journal of Computational Physics</i> , 2022, 467, 111465.	1.9	18
3223	Shocks in Radiatively Driven Time-dependent, Relativistic Jets around Black Holes. <i>Astrophysical Journal</i> , 2022, 933, 75.	1.6	2
3224	On the supremum of the steepness parameter in self-adjusting discontinuity-preserving schemes. <i>Computers and Fluids</i> , 2022, 245, 105588.	1.3	1
3225	New mapped unequal-sized trigonometric WENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2022, 245, 105585.	1.3	0
3226	Numerical Simulation of Acoustic Resonance in a Duct Containing a Flat Plate. <i>Fluids</i> , 2022, 7, 253.	0.8	0
3227	Parallel Accelerated Fifth-Order WENO Scheme-Based Pipeline Transient Flow Solution Model. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7350.	1.3	1
3228	Lagrangian-Eulerian Approach for Nonlocal Conservation Laws. <i>Journal of Dynamics and Differential Equations</i> , 0, , .	1.0	7
3230	A New Sixth-Order Finite Difference Compact Reconstruction Unequal-Sized WENO Scheme for Nonlinear Degenerate Parabolic Equations. <i>Journal of Mathematics</i> , 2022, 2022, 1-17.	0.5	0

#	ARTICLE	IF	CITATIONS
3231	A new well-balanced spectral volume method for solving shallow water equations over variable bed topography with wetting and drying. <i>Engineering With Computers</i> , 0, , .	3.5	0
3233	Large-eddy simulations with ClimateMachine v0.2.0: a new open-source code for atmospheric simulations on GPUs and CPUs. <i>Geoscientific Model Development</i> , 2022, 15, 6259-6284.	1.3	6
3236	Numerical Simulation of the Flow in Two-Phase Supersonic Underexpanded Gasâ€“Particle Jets Exhausting into a Slotted Submerged Space. <i>Aerospace</i> , 2022, 9, 432.	1.1	1
3237	Parallel high-order resolution of the Shallow-water equations on real large-scale meshes with complex bathymetries. <i>Journal of Computational Physics</i> , 2022, 471, 111629.	1.9	0
3238	Order Enhanced Finite Volume Methods Through Non-Polynomial Approximation1. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3239	Using a Combination of Godunov and Rusanov Solvers Based on the Piecewise Parabolic Reconstruction of Primitive Variables for Numerical Simulation of Supernovae Ia Type Explosion. <i>Lobachevskii Journal of Mathematics</i> , 2022, 43, 1545-1559.	0.1	1
3240	Performance Analysis of Speculative Parallel Adaptive Local Timestepping for Conservation Laws. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2022, 32, 1-30.	0.6	0
3241	Numerical fluid dynamics for FRG flow equations: Zero-dimensional QFTs as numerical test cases. II. Entropy production and irreversibility of RG flows. <i>Physical Review D</i> , 2022, 106, .	1.6	11
3242	Numerical fluid dynamics for FRG flow equations: Zero-dimensional QFTs as numerical test cases. III. Shock and rarefaction waves in RG flows reveal limitations of the $\hat{\alpha}^*$ limit in $O(N)$ model. <i>Physical Review D</i> , 2022, 106, .	1.6	8
3243	Adaptive Solution of Initial Value Problems by a Dynamical Galerkin Scheme. <i>Multiscale Modeling and Simulation</i> , 2022, 20, 1147-1166.	0.6	5
3244	Numerical fluid dynamics for FRG flow equations: Zero-dimensional QFTs as numerical test cases. I. The $O(N)$ model. <i>Physical Review D</i> , 2022, 106, .	1.6	11
3245	Investigation of dust lifting by a moving shock wave based on compressible multiphase particle-in-cell method. <i>Physics of Fluids</i> , 0, , .	1.6	4
3246	A Lagrangian particle model on GPU for contaminant transport in groundwater. <i>Computational Particle Mechanics</i> , 2023, 10, 587-601.	1.5	5
3247	To be structured, or unstructured, fifty years of slings and arrows. <i>Comptes Rendus - Mecanique</i> , 2022, 350, 1-6.	0.3	1
3249	A comparison of TVD limiter functions for a convectionâ€“diffusionâ€“reaction equation and Euler equations on triangular grids. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, .	0.8	0
3250	A finite volume scheme for unsteady linear and nonlinear convection-diffusion-reaction problems. <i>International Communications in Heat and Mass Transfer</i> , 2022, 139, 106417.	2.9	3
3251	High-order variable index weighted essentially non-oscillatory scheme for hyperbolic conservation law. <i>Computational and Applied Mathematics</i> , 2022, 41, .	1.0	0
3252	Invariant-Domain-Preserving High-Order Time Stepping: I. Explicit Rungeâ€“Kutta Schemes. <i>SIAM Journal of Scientific Computing</i> , 2022, 44, A3366-A3392.	1.3	3

#	ARTICLE	IF	CITATIONS
3253	Using debris disk observations to infer substellar companions orbiting within or outside a parent planetesimal belt. <i>Astronomy and Astrophysics</i> , 2023, 669, A3.	2.1	2
3254	A Finite Difference Mapped WENO Scheme with Unequal-Size Stencils for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2022, 93, .	1.1	0
3255	Efficient Implementation of the Hybrid Large Particle Method. <i>Mathematical Models and Computer Simulations</i> , 2022, 14, 946-954.	0.1	3
3256	Improvements of the fifth-order WENO-JS-type scheme with normalized smoothing factor for gas dynamic Euler equations. <i>Applied Numerical Mathematics</i> , 2023, 184, 301-324.	1.2	4
3257	Application of Large Time Step TVD High Order Scheme to Shallow Water Equations. <i>Atmosphere</i> , 2022, 13, 1856.	1.0	2
3258	Quadratic stability of flux limiters. , 0, , .		0
3259	On the Generation of an Intense Temperature Gradient Through a Modified Shock Tube Hydrodynamics for a Possible Continuous Sterilization Process. <i>Strojnický Casopis</i> , 2022, 72, 81-92.	0.3	0
3260	Higher Resolution in Space and Timeâ€”The TVD Method. , 2014, , 205-228.		0
3261	Mathematical Equations and Computational Methods. <i>Shock Wave and High Pressure Phenomena</i> , 2022, , 25-57.	0.1	0
3262	Assessment of suitability of Hartenâ€™s total variation diminishing scheme for hypersonic flow problems. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
3263	GPU-accelerated DNS of compressible turbulent flows. <i>Computers and Fluids</i> , 2023, 251, 105744.	1.3	1
3264	Modeling the reactive flow of semi-continuous mixtures by the adaptive characterization method. <i>Chemical Engineering Science</i> , 2023, 267, 118336.	1.9	1
3265	Artificial Stress Diffusion in Numerical Simulations of Viscoelastic Fluid Flows. <i>Advances in Mathematical Fluid Mechanics</i> , 2022, , 195-227.	0.1	0
3266	Simulation of the Sorting of Two Types of Cells in a Cell Spheroid with Account for the Movement of the Boundaries of Regions Occupied by Cells of Different Types. <i>Fluid Dynamics</i> , 2022, 57, 796-810.	0.2	1
3267	Combined Numerical Schemes. <i>Computational Mathematics and Mathematical Physics</i> , 2022, 62, 1743-1781.	0.2	2
3268	A 3D Fully Non-Hydrostatic Model for Free-Surface Flows with Complex Immersed Boundaries. <i>Water (Switzerland)</i> , 2022, 14, 3803.	1.2	0
3269	Numerical simulation of atmospheric-pressure surface dielectric barrier discharge on a curved dielectric with a curvilinear mesh. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 045202.	1.3	4
3270	Hydrodynamic turbulence in disks with embedded planets. <i>Astronomy and Astrophysics</i> , 2023, 670, A135.	2.1	3

#	ARTICLE	IF	CITATIONS
3271	A unified numerical model for two-phase porous, mush and suspension flow dynamics in magmatic systems. <i>Geophysical Journal International</i> , 2023, 233, 769-795.	1.0	3
3272	Studying the Properties of Compressible Magnetohydrodynamic Turbulence Using Synchrotron Fluctuation Statistics. <i>Astrophysical Journal</i> , 2022, 940, 158.	1.6	1
3273	Central random choice methods for hyperbolic conservation laws. <i>Ricerche Di Matematica</i> , 0, , .	0.6	0
3274	A Family of Fast Multi-resolution ENO Schemes for Compressible Flows. <i>Journal of Scientific Computing</i> , 2023, 94, .	1.1	3
3275	Evaluation on the tracer simulation under different advection schemes in the ocean model. <i>Anthropocene Coasts</i> , 2023, 6, .	0.6	0
3276	Fully discrete WENO with double entropy condition for hyperbolic conservation laws. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2023, 17, .	1.5	1
3277	Review of the High-Order TENO Schemes for Compressible Gas Dynamics and Turbulence. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 2493-2526.	6.0	12
3278	On the approximation of dam-break problems using a fuzzified HR-TVD scheme. <i>MethodsX</i> , 2023, 10, 102003.	0.7	0
3279	Compact third-order accurate, positive preserving and divergence-free scheme. <i>Journal of Computational Physics</i> , 2023, 475, 111897.	1.9	0
3288	Initialization of the Cs137 Field Concentration in the Black Sea After the Chernobyl Accident Based on Solving of Adjoint Problems. <i>Springer Geology</i> , 2023, , 499-512.	0.2	1
3289	Recent BOLT Discrete-Roughness Trip Results from the 20-Inch Mach 6 Tunnel. , 2023, , .		0
3290	On High-Resolution Entropy-Consistent Flux with Slope Limiter for Hyperbolic Conservation Laws. <i>Communications on Applied Mathematics and Computation</i> , 0, , .	0.7	0
3291	Large-eddy simulation on gas mixing induced by the high-buoyancy flow in the CIGMA facility. <i>Nuclear Engineering and Technology</i> , 2023, , .	1.1	0
3292	Higher-order implicit shock-capturing scheme based on linearization of implicit fluxes for the Euler equations. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2023, ahead-of-print, .	1.6	0
3293	Spectral difference method with a posteriori limiting: application to the Euler equations in one and two space dimensions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 520, 3591-3608.	1.6	1
3294	Evaluation of polyhedral mesh performance for large-eddy simulations of flow around an isolated building within an unstable boundary layer. <i>Building and Environment</i> , 2023, 235, 110207.	3.0	1
3295	A unified framework for non-linear reconstruction schemes in a compact stencil. Part 1: Beyond second order. <i>Journal of Computational Physics</i> , 2023, 481, 112052.	1.9	8
3296	A stable free-surface boundary solution method for fully nonlinear potential flow models. <i>Applied Ocean Research</i> , 2023, 134, 103500.	1.8	0

#	ARTICLE	IF	CITATIONS
3297	Three-dimensional flow simulation and cavitation erosion modeling for the assessment of incubation time and erosion rate. <i>Wear</i> , 2023, 524-525, 204747.	1.5	1
3298	A novel computational model and OpenFOAM solver for simulating thermal energy storages based on granular phase change materials: Advantages and applicability. <i>Journal of Energy Storage</i> , 2023, 65, 107294.	3.9	5
3300	Numerical investigation of Mach number consistent Roe solvers for the Euler equations of gas dynamics. <i>Journal of Computational Physics</i> , 2023, 477, 111947.	1.9	2
3301	Numerical Analysis of Aerodynamic Thermal Properties of Hypersonic Blunt-Nosed Body with Angles of Fire. <i>Energies</i> , 2023, 16, 1740.	1.6	1
3302	A Novel Teno Scheme with Improved Order of Accuracy Based on Perturbed Polynomial Reconstruction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3303	Improvement and Application of Lax-Friderichs Scheme in MHD Numerical Simulation. <i>Kongjian Kexue Xuebao</i> , 2016, 36, 857.	0.2	1
3304	Numerical Simulation of Dipolarization Fronts in the Plasma Sheet of Magnetotail. <i>Kongjian Kexue Xuebao</i> , 2015, 35, 409.	0.2	0
3305	Adaptive Global Magnetohydrodynamic Simulations. , 2023, , 211-253.		0
3306	One-dimensional turbulence modeling of compressible flows: II. Full compressible modification and application to shock-turbulence interaction. <i>Physics of Fluids</i> , 2023, 35, .	1.6	2
3307	Grid-characteristic methods. 55 years of developing and solving complex dynamic problems. <i>Computational Mathematics and Information Technologies</i> , 2023, 6, 6-21.	0.3	2
3308	High Order Scheme for Numerical Simulation of an Oblique Shock Over a Ramp. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 839-848.	0.3	0
3309	Application of vanishing diffusion stabilization in Oldroyd-B fluid flow simulations. <i>SN Applied Sciences</i> , 2023, 5, .	1.5	0
3310	3D CFD Study of Scour in Combined Wave-Current Flows around Rectangular Piles with Varying Aspect Ratios. <i>Water (Switzerland)</i> , 2023, 15, 1541.	1.2	9
3311	Generic five-equation model for compressible multi-material flows and its corresponding high-fidelity numerical algorithms. <i>Journal of Computational Physics</i> , 2023, 487, 112154.	1.9	1
3312	High-Order Finite-Volume TENO Schemes with Dual ENO-Like Stencil Selection for Unstructured Meshes. <i>Journal of Scientific Computing</i> , 2023, 95, .	1.1	3
3326	Simulation and Prediction of Countercurrent Spontaneous Imbibition at Early and Late Times Using Physics-Informed Neural Networks. , 2023, , .		0
3328	Assessment of Interface Gradient Reconstruction Techniques for Finite Volume Methods in Aerospace Applications. , 2023, , .		0
3359	Chapter 11: Heat Transfer and Flow Structure near the Planetary Probe Surface. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
3360	Chapter 9: Verification of the Numerical Simulation Method. , 2016, , .		0
3361	Chapter 1: Mathematical Problem Statement and Numerical Analysis. , 2016, , .		0
3362	Chapter 12: Blunt Axisymmetric Bodies at an Angle of Attack in Supersonic and Hypersonic Flow. , 2016, , .		0
3363	Section 1. Numerical Simulation of Two-Dimensional Problems of External Aerodynamics. , 2016, , .		0
3364	Chapter 10: Sharp Circular Cone in Supersonic Perfect Gas Flow. , 2016, , .		0
3365	Chapter 2: Circular Cylinder in Transonic Viscous Perfect Gas Flow. , 2016, , .		0
3366	Chapter 5: Supersonic Viscous Gas Flow Over a Sphere. , 2016, , .		0
3368	Chapter 8: Mathematical Problem Statement and Numerical Analysis. , 2016, , .		0
3369	Chapter 3: Circular Cylinder in Supersonic Viscous Perfect Gas Flow. , 2016, , .		0
3370	Chapter 11: Thin, Sharp, Elliptic Cone in Supersonic Viscous Perfect Gas Flow. , 2016, , .		0
3372	Chapter 7: Blunt Axisymmetric Bodies in Supersonic and Hypersonic Flow at Zero Angle of Attack. , 2016, , .		0
3373	Chapter 6: Two-Dimensional Axisymmetric Bodies with a Narrow Groove on the Frontal Surface in Supersonic and Hypersonic Flow. , 2016, , .		0
3377	Section 2. Numerical Simulation of Two-Dimensional Problems of External Aerodynamics. , 2016, , .		0
3378	Chapter 4: Elliptic Cylinder in Supersonic Perfect Gas Flow. , 2016, , .		0
3386	Calculation of deflagration appearance in reactive gas mixes flows in two-dimensional regions. AIP Conference Proceedings, 2023, , .	0.3	0
3391	A Reinforcement Learning Based Slope Limiter for Two-Dimensional Finite Volume Schemes. Springer Proceedings in Mathematics and Statistics, 2023, , 209-217.	0.1	0
3392	Numerical modeling of heat transfer of an equilibrium dissociating gas in a swirling flow. , 2023, , .		0
3411	Prevention of Expansion Shock by the Control of Numerical Dissipation of Upwind Schemes. Lecture Notes in Mechanical Engineering, 2024, , 221-234.	0.3	0

#	ARTICLE	IF	CITATIONS
3416	An Analysis of Face Gradient Reconstruction Schemes for the Simulation of Aerospace Flows. , 2024, , .		0
3417	Development of a Parallel High-Order CFD Solver with the Chapel Programming Language. , 2024, , .		0