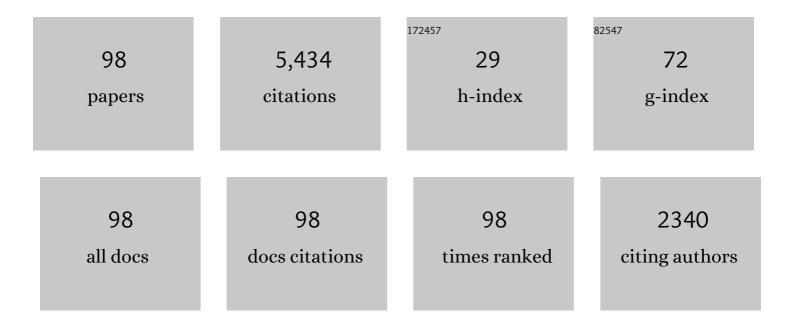
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fifth-Order A-WENO Schemes Based on the Adaptive Diffusion Central-Upwind Rankine-Hugoniot Fluxes. Communications on Applied Mathematics and Computation, 2023, 5, 295-314.	1.7	3
2	Well-Balancing via Flux Globalization: Applications to Shallow Water Equations with Wet/Dry Fronts. Journal of Scientific Computing, 2022, 90, 1.	2.3	9
3	Well-balanced positivity preserving adaptive moving mesh central-upwind schemes for the Saint-Venant system. ESAIM: Mathematical Modelling and Numerical Analysis, 2022, 56, 1327-1360.	1.9	3
4	A Well-Balanced Asymptotic Preserving Scheme for the Two-Dimensional Rotating Shallow Water Equations with Nonflat Bottom Topography. SIAM Journal of Scientific Computing, 2022, 44, A1655-A1680.	2.8	3
5	Flux Globalization Based Well-Balanced Path-Conservative Central-Upwind Schemes for Shallow Water Models. Journal of Scientific Computing, 2022, 92, .	2.3	5
6	Thermal versus isothermal rotating shallow water equations: comparison of dynamical processes by simulations with a novel well-balanced central-upwind scheme. Geophysical and Astrophysical Fluid Dynamics, 2021, 115, 125-154.	1.2	11
7	Adaptive Moving Mesh Central-Upwind Schemes for Hyperbolic System of PDEs: Applications to Compressible Euler Equations and Granular Hydrodynamics. Communications on Applied Mathematics and Computation, 2021, 3, 445-479.	1.7	7
8	Semi-discrete central-upwind Rankine-Hugoniot schemes for hyperbolic systems of conservation laws. Journal of Computational Physics, 2021, 428, 110078.	3.8	4
9	Numerical dissipation switch for two-dimensional central-upwind schemes. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 713-734.	1.9	7
10	Interaction of tropical cyclone-like vortices with sea-surface temperature anomalies and topography in a simple shallow-water atmospheric model. Physics of Fluids, 2021, 33, .	4.0	4
11	Hybrid Multifluid Algorithms Based on the Path-Conservative Central-Upwind Scheme. Journal of Scientific Computing, 2021, 89, 1.	2.3	1
12	Monotonization of a Family of Implicit Schemes for the Burgers Equation. , 2021, , 247-256.		0
13	Moving-Water Equilibria Preserving Partial Relaxation Scheme for the Saint-Venant System. SIAM Journal of Scientific Computing, 2020, 42, A2206-A2229.	2.8	6
14	An adaptive well-balanced positivity preserving central-upwind scheme on quadtree grids for shallow water equations. Computers and Fluids, 2020, 208, 104633.	2.5	7
15	Moist-convective thermal rotating shallow water model. Physics of Fluids, 2020, 32, 066601.	4.0	16
16	A well-balanced central-upwind scheme for the thermal rotating shallow water equations. Journal of Computational Physics, 2020, 411, 109414.	3.8	18
17	Fifth-Order A-WENO Finite-Difference Schemes Based on a New Adaptive Diffusion Central Numerical Flux. SIAM Journal of Scientific Computing, 2020, 42, A3932-A3956.	2.8	13
18	One-Dimensional/Two-Dimensional Coupling Approach with Quadrilateral Confluence Region for Modeling River Systems. Journal of Scientific Computing, 2019, 81, 1297-1328.	2.3	4

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19	Path-conservative central-upwind schemes for nonconservative hyperbolic systems. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 959-985.	1.9	29
20	An asymptotic preserving scheme for the two-dimensional shallow water equations with Coriolis forces. Journal of Computational Physics, 2019, 391, 259-279.	3.8	15
21	Adaptive moving mesh upwind scheme for the two-species chemotaxis model. Computers and Mathematics With Applications, 2019, 77, 3172-3185.	2.7	6
22	A New Approach for Designing Moving-Water Equilibria Preserving Schemes for the Shallow Water Equations. Journal of Scientific Computing, 2019, 80, 538-554.	2.3	35
23	An asymptotic preserving scheme for kinetic chemotaxis models in two space dimensions. Kinetic and Related Models, 2019, 12, 195-216.	0.9	6
24	High-Resolution Positivity and Asymptotic Preserving Numerical Methods for Chemotaxis and Related Models. Modeling and Simulation in Science, Engineering and Technology, 2019, , 109-148.	0.6	1
25	Well-balanced schemes for the Euler equations with gravitation: Conservative formulation using global fluxes. Journal of Computational Physics, 2018, 358, 36-52.	3.8	57
26	High-order positivity-preserving hybrid finite-volume-finite-difference methods for chemotaxis systems. Advances in Computational Mathematics, 2018, 44, 327-350.	1.6	27
27	Well-balanced schemes for the shallow water equations with Coriolis forces. Numerische Mathematik, 2018, 138, 939-973.	1.9	28
28	Finite-volume schemes for shallow-water equations. Acta Numerica, 2018, 27, 289-351.	10.7	61
29	Well-balanced positivity preserving central-upwind scheme with a novel wet/dry reconstruction on triangular grids for the Saint-Venant system. Journal of Computational Physics, 2018, 374, 213-236.	3.8	23
30	On Convergence of Numerical Methods for Optimization Problems Governed by Scalar Hyperbolic Conservation Laws. Springer Proceedings in Mathematics and Statistics, 2018, , 691-706.	0.2	1
31	Second-Order Fully Discrete Central-Upwind Scheme for Two-Dimensional Hyperbolic Systems of Conservation Laws. SIAM Journal of Scientific Computing, 2017, 39, A947-A965.	2.8	22
32	Three-dimensional shallow water system: A relaxation approach. Journal of Computational Physics, 2017, 333, 160-179.	3.8	5
33	A Simple Finite-Volume Method on a Cartesian Mesh for Pedestrian Flows with Obstacles. Springer Proceedings in Mathematics and Statistics, 2017, , 43-55.	0.2	0
34	Central-upwind scheme for shallow water equations with discontinuous bottom topography. Bulletin of the Brazilian Mathematical Society, 2016, 47, 91-103.	0.8	7
35	Well-balanced positivity preserving cell-vertex central-upwind scheme for shallow water flows. Computers and Fluids, 2016, 136, 193-206.	2.5	30
36	A well-balanced positivity-preserving central-upwind scheme for shallow water equations on unstructured quadrilateral grids. Computers and Fluids, 2016, 126, 25-40.	2.5	27

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37	Moving-water equilibria preserving central-upwind schemes for the shallow water equations. Communications in Mathematical Sciences, 2016, 14, 1643-1663.	1.0	21
38	Pressureâ€based adaption indicator for compressible euler equations. Numerical Methods for Partial Differential Equations, 2015, 31, 1844-1874.	3.6	7
39	Well-Balanced Central Schemes on Overlapping Cells with Constant Subtraction Techniques for the Saint-Venant Shallow Water System. Journal of Scientific Computing, 2015, 63, 678-698.	2.3	12
40	Well-balanced central-upwind scheme for a fully coupled shallow water system modeling flows over erodible bed. Journal of Computational Physics, 2015, 300, 202-218.	3.8	25
41	A Fast Explicit Operator Splitting Method for Modified Buckley–Leverett Equations. Journal of Scientific Computing, 2015, 64, 837-857.	2.3	7
42	Fast and stable explicit operator splitting methods for phase-field models. Journal of Computational Physics, 2015, 303, 45-65.	3.8	32
43	Steady State and Sign Preserving Semi-Implicit RungeKutta Methods for ODEs with Stiff Damping Term. SIAM Journal on Numerical Analysis, 2015, 53, 2008-2029.	2.3	33
44	Particle methods for PDEs arising in financial modeling. Applied Numerical Mathematics, 2015, 93, 123-139.	2.1	3
45	Numerical method for optimal control problems governed by nonlinear hyperbolic systems of PDEs. Communications in Mathematical Sciences, 2015, 13, 15-48.	1.0	21
46	Solving Two-Mode Shallow Water Equations Using Finite Volume Methods. Communications in Computational Physics, 2014, 16, 1323-1354.	1.7	5
47	Central-Upwind Scheme for Savage–Hutter Type Model of Submarine Landslides and Generated Tsunami Waves. Computational Methods in Applied Mathematics, 2014, 14, 177-201.	0.8	19
48	Numerical study of two-species chemotaxis models. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 131-152.	0.9	14
49	Central-upwind schemes for the system of shallow water equations with horizontal temperature gradients. Numerische Mathematik, 2014, 127, 595-639.	1.9	46
50	An Eulerian–Lagrangian method for optimization problems governed by multidimensional nonlinear hyperbolic PDEs. Computational Optimization and Applications, 2014, 59, 689-724.	1.6	13
51	PEDESTRIAN FLOW MODELS WITH SLOWDOWN INTERACTIONS. Mathematical Models and Methods in Applied Sciences, 2014, 24, 249-275.	3.3	26
52	A Well-Balanced Reconstruction of Wet/Dry Fronts for the Shallow Water Equations. Journal of Scientific Computing, 2013, 56, 267-290.	2.3	93
53	THREE-LAYER APPROXIMATION OF TWO-LAYER SHALLOW WATER EQUATIONS. Mathematical Modelling and Analysis, 2013, 18, 675-693.	1.5	17
54	An Adaptive Artificial Viscosity Method for the Saint-Venant System. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 125-141.	0.3	3

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55	New adaptive artificial viscosity method for hyperbolic systems of conservation laws. Journal of Computational Physics, 2012, 231, 8114-8132.	3.8	49
56	On a chemotaxis model with saturated chemotactic flux. Kinetic and Related Models, 2012, 5, 51-95.	0.9	84
57	Well-balanced positivity preserving central-upwind scheme on triangular grids for the Saint-Venant system. ESAIM: Mathematical Modelling and Numerical Analysis, 2011, 45, 423-446.	1.9	80
58	Central-Upwind Scheme on Triangular Grids for the Saint-Venant System of Shallow Water Equations. AIP Conference Proceedings, 2011, , .	0.4	4
59	Central-Upwind Schemes for Boussinesq Paradigm Equations. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2011, , 267-281.	0.3	14
60	A Fast Explicit Operator Splitting Method for Passive Scalar Advection. Journal of Scientific Computing, 2010, 45, 200-214.	2.3	17
61	Fast explicit operator splitting method for convection-diffusion equations. International Journal for Numerical Methods in Fluids, 2009, 59, 309-332.	1.6	27
62	New Interior Penalty Discontinuous Galerkin Methods for the Keller–Segel Chemotaxis Model. SIAM Journal on Numerical Analysis, 2009, 47, 386-408.	2.3	60
63	Central-Upwind Schemes for Two-Layer Shallow Water Equations. SIAM Journal of Scientific Computing, 2009, 31, 1742-1773.	2.8	81
64	Non-oscillatory central schemes for traffic flow models with Arrhenius look-ahead dynamics. Networks and Heterogeneous Media, 2009, 4, 431-451.	1.1	27
65	Quasi-Lagrangian Acceleration of Eulerian Methods. Communications in Computational Physics, 2009, 6, 743-757.	1.7	1
66	A second-order positivity preserving central-upwind scheme for chemotaxis and haptotaxis models. Numerische Mathematik, 2008, 111, 169-205.	1.9	106
67	Interface tracking method for compressible multifluids. ESAIM: Mathematical Modelling and Numerical Analysis, 2008, 42, 991-1019.	1.9	23
68	A simple Eulerian finite-volume method for compressible fluids in domains with moving boundaries. Communications in Mathematical Sciences, 2008, 6, 531-556.	1.0	18
69	Adaptive Semidiscrete Central-Upwind Schemes for Nonconvex Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2007, 29, 2381-2401.	2.8	86
70	A New Sticky Particle Method for Pressureless Gas Dynamics. SIAM Journal on Numerical Analysis, 2007, 45, 2408-2441.	2.3	32
71	A Second-Order Well-Balanced Positivity Preserving Central-Upwind Scheme for the Saint-Venant System. Communications in Mathematical Sciences, 2007, 5, 133-160.	1.0	303
72	On a practical implementation of particle methods. Applied Numerical Mathematics, 2006, 56, 1418-1431.	2.1	14

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73	Adaptive Central-Upwind Schemes for Hamilton–Jacobi Equations with Nonconvex Hamiltonians. Journal of Scientific Computing, 2006, 27, 323-333.	2.3	7
74	Finite-Volume-Particle Methods for Models of Transport of Pollutant in Shallow Water. Journal of Scientific Computing, 2006, 27, 189-199.	2.3	21
75	On reaction processes with saturating diffusion. Nonlinearity, 2006, 19, 171-193.	1.4	42
76	Central-upwind schemes on triangular grids for hyperbolic systems of conservation laws. Numerical Methods for Partial Differential Equations, 2005, 21, 536-552.	3.6	79
77	Local error analysis for approximate solutions of hyperbolic conservation laws. Advances in Computational Mathematics, 2005, 22, 79-99.	1.6	24
78	Semi-discrete central-upwind schemes with reduced dissipation for Hamilton-Jacobi equations. IMA Journal of Numerical Analysis, 2005, 25, 113-138.	2.9	17
79	On degenerate saturated-diffusion equations with convection. Nonlinearity, 2005, 18, 609-630.	1.4	15
80	High-Rayleigh-number convection in a fluid-saturated porous layer. Journal of Fluid Mechanics, 2004, 500, 263-281.	3.4	95
81	Compressible two-phase flows by central and upwind schemes. ESAIM: Mathematical Modelling and Numerical Analysis, 2004, 38, 477-493.	1.9	24
82	On a hybrid finite-volume-particle method. ESAIM: Mathematical Modelling and Numerical Analysis, 2004, 38, 1071-1091.	1.9	18
83	Formation of discontinuities in flux-saturated degenerate parabolic equations. Nonlinearity, 2003, 16, 1875-1898.	1.4	35
84	An Accurate Deterministic Projection Method for Hyperboles Systems with Stiff Source Term. , 2003, , 665-674.		1
85	Central-Upwind Schemes for the Saint-Venant System. ESAIM: Mathematical Modelling and Numerical Analysis, 2002, 36, 397-425.	1.9	229
86	A Smoothness Indicator for Adaptive Algorithms for Hyperbolic Systems. Journal of Computational Physics, 2002, 178, 323-341.	3.8	42
87	Solution of two-dimensional Riemann problems for gas dynamics without Riemann problem solvers. Numerical Methods for Partial Differential Equations, 2002, 18, 584-608.	3.6	260
88	Semidiscrete Central-Upwind Schemes for Hyperbolic Conservation Laws and Hamilton-Jacobi Equations. SIAM Journal of Scientific Computing, 2001, 23, 707-740.	2.8	691
89	A third-order semi-discrete genuinely multidimensional central scheme for hyperbolic conservation laws and related problems. Numerische Mathematik, 2001, 88, 683-729.	1.9	87
90	Central schemes and contact discontinuities. ESAIM: Mathematical Modelling and Numerical Analysis, 2000, 34, 1259-1275.	1.9	33

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91	New High-Resolution Central Schemes for Nonlinear Conservation Laws and Convection–Diffusion Equations. Journal of Computational Physics, 2000, 160, 241-282.	3.8	1,403
92	New High-Resolution Semi-discrete Central Schemes for Hamilton–Jacobi Equations. Journal of Computational Physics, 2000, 160, 720-742.	3.8	103
93	A Third-Order Semidiscrete Central Scheme for Conservation Laws and Convection-Diffusion Equations. SIAM Journal of Scientific Computing, 2000, 22, 1461-1488.	2.8	189
94	Breakdown in Burgers-type equations with saturating dissipation fluxes. Nonlinearity, 1999, 12, 247-268.	1.4	26
95	On Burgers-type equations with nonmonotonic dissipative fluxes. Communications on Pure and Applied Mathematics, 1998, 51, 443-473.	3.1	15
96	On Burgersâ€ŧype equations with nonmonotonic dissipative fluxes. Communications on Pure and Applied Mathematics, 1998, 51, 443-473.	3.1	2
97	Stiff Systems of Hyperbolic Conservation Laws: Convergence and Error Estimates. SIAM Journal on Mathematical Analysis, 1997, 28, 1446-1456.	1.9	20
98	Effects of a saturating dissipation in Burgers-type equations. Communications on Pure and Applied Mathematics, 1997, 50, 753-771.	3.1	32