

# Chi-wang Shu

## List of Publications by Year in descending order

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450  
papers

53,856  
citations

3650

91  
h-index

1342

223  
g-index

484  
all docs

484  
docs citations

484  
times ranked

10832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Implementation of Weighted ENO Schemes. <i>Journal of Computational Physics</i> , 1996, 126, 202-228.	3.9	5,370
2	Efficient implementation of essentially non-oscillatory shock-capturing schemes. <i>Journal of Computational Physics</i> , 1988, 77, 439-471.	3.9	4,012
3	Efficient implementation of essentially non-oscillatory shock-capturing schemes, II. <i>Journal of Computational Physics</i> , 1989, 83, 32-78.	3.9	2,729
4	The Local Discontinuous Galerkin Method for Time-Dependent Convection-Diffusion Systems. <i>SIAM Journal on Numerical Analysis</i> , 1998, 35, 2440-2463.	2.3	1,896
5	Strong Stability-Preserving High-Order Time Discretization Methods. <i>SIAM Review</i> , 2001, 43, 89-112.	11.5	1,886
6	The Runge-Kutta Discontinuous Galerkin Method for Conservation Laws V. <i>Journal of Computational Physics</i> , 1998, 141, 199-224.	3.9	1,834
7	Runge-Kutta Discontinuous Galerkin Methods for Convection-Dominated Problems. <i>Journal of Scientific Computing</i> , 2001, 16, 173-261.	2.4	1,429
8	TVB Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws II: General Framework. <i>Mathematics of Computation</i> , 1989, 52, 411.	1.0	1,376
9	Monotonicity Preserving Weighted Essentially Non-oscillatory Schemes with Increasingly High Order of Accuracy. <i>Journal of Computational Physics</i> , 2000, 160, 405-452.	3.9	1,347
10	TVB Runge-Kutta local projection discontinuous Galerkin finite element method for conservation laws III: One-dimensional systems. <i>Journal of Computational Physics</i> , 1989, 84, 90-113.	3.9	1,177
11	The Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws. IV: The Multidimensional Case. <i>Mathematics of Computation</i> , 1990, 54, 545.	1.0	926
12	Total-Variation-Diminishing Time Discretizations. <i>SIAM Journal on Scientific and Statistical Computing</i> , 1988, 9, 1073-1084.	1.5	852
13	Essentially non-oscillatory and weighted essentially non-oscillatory schemes for hyperbolic conservation laws. <i>Lecture Notes in Mathematics</i> , 1998, , 325-432.	0.0	844
14	High Order Weighted Essentially Nonoscillatory Schemes for Convection Dominated Problems. <i>SIAM Review</i> , 2009, 51, 82-126.	11.5	716
15	Weighted Essentially Non-oscillatory Schemes on Triangular Meshes. <i>Journal of Computational Physics</i> , 1999, 150, 97-127.	3.9	664
16	High-Order Essentially Nonoscillatory Schemes for Hamilton-Jacobi Equations. <i>SIAM Journal on Numerical Analysis</i> , 1991, 28, 907-922.	2.3	624
17	On the Gibbs Phenomenon and Its Resolution. <i>SIAM Review</i> , 1997, 39, 644-668.	11.5	620
18	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.	3.9	485

#	ARTICLE	IF	CITATIONS
19	The Runge-Kutta local projection $P^1$ -discontinuous-Galerkin finite element method for scalar conservation laws. ESAIM: Mathematical Modelling and Numerical Analysis, 1991, 25, 337-361.	1.9	448
20	On maximum-principle-satisfying high order schemes for scalar conservation laws. Journal of Computational Physics, 2010, 229, 3091-3120.	3.9	438
21	Runge-Kutta discontinuous Galerkin method using WENO limiters II: Unstructured meshes. Journal of Computational Physics, 2008, 227, 4330-4353.	3.9	432
22	The Development of Discontinuous Galerkin Methods. Lecture Notes in Computational Science and Engineering, 2000, , 3-50.	0.0	389
23	Runge-Kutta Discontinuous Galerkin Method Using WENO Limiters. SIAM Journal of Scientific Computing, 2005, 26, 907-929.	2.8	338
24	High-order Finite Difference and Finite Volume WENO Schemes and Discontinuous Galerkin Methods for CFD. International Journal of Computational Fluid Dynamics, 2003, 17, 107-118.	1.3	336
25	A Technique of Treating Negative Weights in WENO Schemes. Journal of Computational Physics, 2002, 175, 108-127.	3.9	333
26	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.	3.9	329
27	Hierarchical reconstruction for discontinuous Galerkin methods on unstructured grids with a WENO-type linear reconstruction and partial neighboring cells. Journal of Computational Physics, 2009, 228, 2194-2212.	3.9	322
28	High order finite difference WENO schemes with the exact conservation property for the shallow water equations. Journal of Computational Physics, 2005, 208, 206-227.	3.9	291
29	Hierarchical reconstruction for spectral volume method on unstructured grids. Journal of Computational Physics, 2009, 228, 5787-5802.	3.9	279
30	A Local Discontinuous Galerkin Method for KdV Type Equations. SIAM Journal on Numerical Analysis, 2002, 40, 769-791.	2.3	278
31	High Order Strong Stability Preserving Time Discretizations. Journal of Scientific Computing, 2009, 38, 251-289.	2.4	277
32	Quadrature-Free Implementation of Discontinuous Galerkin Method for Hyperbolic Equations. AIAA Journal, 1998, 36, 775-782.	2.6	261
33	Positivity-preserving high order well-balanced discontinuous Galerkin methods for the shallow water equations. Advances in Water Resources, 2010, 33, 1476-1493.	3.8	259
34	Resolution of high order WENO schemes for complicated flow structures. Journal of Computational Physics, 2003, 186, 690-696.	3.9	251
35	Revisiting Hughes's dynamic continuum model for pedestrian flow and the development of an efficient solution algorithm. Transportation Research Part B: Methodological, 2009, 43, 127-141.	5.9	248
36	Locally divergence-free discontinuous Galerkin methods for the Maxwell equations. Journal of Computational Physics, 2004, 194, 588-610.	3.9	232

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37	On the Construction, Comparison, and Local Characteristic Decomposition for High-Order Central WENO Schemes. <i>Journal of Computational Physics</i> , 2002, 183, 187-209.	3.9	223
38	Hermite WENO schemes and their application as limiters for Runge–Kutta discontinuous Galerkin method II: Two dimensional case. <i>Computers and Fluids</i> , 2005, 34, 642-663.	2.6	223
39	High order well-balanced finite volume WENO schemes and discontinuous Galerkin methods for a class of hyperbolic systems with source terms. <i>Journal of Computational Physics</i> , 2006, 214, 567-598.	3.9	217
40	High-order well-balanced finite volume WENO schemes for shallow water equation with moving water. <i>Journal of Computational Physics</i> , 2007, 226, 29-58.	3.9	211
41	Maximum-principle-satisfying and positivity-preserving high-order schemes for conservation laws: survey and new developments. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 2752-2776.	2.1	208
42	Local discontinuous Galerkin methods for nonlinear Schrödinger equations. <i>Journal of Computational Physics</i> , 2005, 205, 72-97.	3.9	204
43	An efficient class of WENO schemes with adaptive order. <i>Journal of Computational Physics</i> , 2016, 326, 780-804.	3.9	199
44	On the Gibbs phenomenon I: recovering exponential accuracy from the Fourier partial sum of a nonperiodic analytic function. <i>Journal of Computational and Applied Mathematics</i> , 1992, 43, 81-98.	2.0	191
45	On positivity preserving finite volume schemes for Euler equations. <i>Numerische Mathematik</i> , 1996, 73, 119-130.	1.8	188
46	Positivity-preserving high order finite difference WENO schemes for compressible Euler equations. <i>Journal of Computational Physics</i> , 2012, 231, 2245-2258.	3.9	179
47	Maximum-Principle-Satisfying and Positivity-Preserving High Order Discontinuous Galerkin Schemes for Conservation Laws on Triangular Meshes. <i>Journal of Scientific Computing</i> , 2012, 50, 29-62.	2.4	178
48	Positivity-preserving method for high-order conservative schemes solving compressible Euler equations. <i>Journal of Computational Physics</i> , 2013, 242, 169-180.	3.9	169
49	A simple weighted essentially nonoscillatory limiter for Runge–Kutta discontinuous Galerkin methods. <i>Journal of Computational Physics</i> , 2013, 232, 397-415.	3.9	167
50	Error Estimates to Smooth Solutions of Runge–Kutta Discontinuous Galerkin Methods for Scalar Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 2004, 42, 641-666.	2.3	166
51	Positivity-preserving high order discontinuous Galerkin schemes for compressible Euler equations with source terms. <i>Journal of Computational Physics</i> , 2011, 230, 1238-1248.	3.9	163
52	A Comparison of Troubled-Cell Indicators for Runge–Kutta Discontinuous Galerkin Methods Using Weighted Essentially Nonoscillatory Limiters. <i>SIAM Journal of Scientific Computing</i> , 2005, 27, 995-1013.	2.8	161
53	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.	3.9	161
54	A Discontinuous Galerkin Finite Element Method for Hamilton–Jacobi Equations. <i>SIAM Journal of Scientific Computing</i> , 1999, 21, 666-690.	2.8	158

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55	Numerical experiments on the accuracy of ENO and modified ENO schemes. <i>Journal of Scientific Computing</i> , 1990, 5, 127-149.	2.4	155
56	High-Order WENO Schemes for Hamilton–Jacobi Equations on Triangular Meshes. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1005-1030.	2.8	150
57	Runge–Kutta discontinuous Galerkin method using a new type of WENO limiters on unstructured meshes. <i>Journal of Computational Physics</i> , 2013, 248, 200-220.	3.9	145
58	Development of nonlinear weighted compact schemes with increasingly higher order accuracy. <i>Journal of Computational Physics</i> , 2008, 227, 7294-7321.	3.9	143
59	Title is missing!. <i>Journal of Scientific Computing</i> , 2002, 17, 27-47.	2.4	139
60	Robust high order discontinuous Galerkin schemes for two-dimensional gaseous detonations. <i>Journal of Computational Physics</i> , 2012, 231, 653-665.	3.9	137
61	High order WENO and DG methods for time-dependent convection-dominated PDEs: A brief survey of several recent developments. <i>Journal of Computational Physics</i> , 2016, 316, 598-613.	3.9	133
62	High Order ENO and WENO Schemes for Computational Fluid Dynamics. <i>Lecture Notes in Computational Science and Engineering</i> , 1999, , 439-582.	0.0	128
63	Anti-diffusive flux corrections for high order finite difference WENO schemes. <i>Journal of Computational Physics</i> , 2005, 205, 458-485.	3.9	125
64	A Local Discontinuous Galerkin Method for the Camassa–Holm Equation. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1998-2021.	2.3	124
65	A high order ENO conservative Lagrangian type scheme for the compressible Euler equations. <i>Journal of Computational Physics</i> , 2007, 227, 1567-1596.	3.9	122
66	A WENO-solver for the transients of Boltzmann–Poisson system for semiconductor devices: performance and comparisons with Monte Carlo methods. <i>Journal of Computational Physics</i> , 2003, 184, 498-525.	3.9	120
67	Locally Divergence-Free Discontinuous Galerkin Methods for MHD Equations. <i>Journal of Scientific Computing</i> , 2005, 22-23, 413-442.	2.4	119
68	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy. <i>Journal of Computational Physics</i> , 2018, 375, 659-683.	3.9	118
69	Positivity preserving semi-Lagrangian discontinuous Galerkin formulation: Theoretical analysis and application to the Vlasov–Poisson system. <i>Journal of Computational Physics</i> , 2011, 230, 8386-8409.	3.9	117
70	Local discontinuous Galerkin methods for the Cahn–Hilliard type equations. <i>Journal of Computational Physics</i> , 2007, 227, 472-491.	3.9	116
71	Stability Analysis and A Priori Error Estimates of the Third Order Explicit Runge–Kutta Discontinuous Galerkin Method for Scalar Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 1038-1063.	2.3	114
72	Inverse Lax-Wendroff procedure for numerical boundary conditions of conservation laws. <i>Journal of Computational Physics</i> , 2010, 229, 8144-8166.	3.9	113

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73	Superconvergence of Discontinuous Galerkin and Local Discontinuous Galerkin Schemes for Linear Hyperbolic and Convection-Diffusion Equations in One Space Dimension. <i>SIAM Journal on Numerical Analysis</i> , 2010, 47, 4044-4072.	2.3	113
74	A High-Order Discontinuous Galerkin Method for 2D Incompressible Flows. <i>Journal of Computational Physics</i> , 2000, 160, 577-596.	3.9	111
75	Local discontinuous Galerkin methods for the Kuramoto-Sivashinsky equations and the Ito-type coupled KdV equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 3430-3447.	6.7	110
76	Local discontinuous Galerkin methods for nonlinear dispersive equations. <i>Journal of Computational Physics</i> , 2004, 196, 751-772.	3.9	107
77	Numerical Convergence Study of Nearly Incompressible, Inviscid Taylor-Green Vortex Flow. <i>Journal of Scientific Computing</i> , 2005, 24, 1-27.	2.4	106
78	Nonlinearly Stable Compact Schemes for Shock Calculations. <i>SIAM Journal on Numerical Analysis</i> , 1994, 31, 607-627.	2.3	105
79	Stability and Error Estimates of Local Discontinuous Galerkin Methods with Implicit-Explicit Time-Marching for Advection-Diffusion Problems. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 206-227.	2.3	104
80	A numerical study for the performance of the Runge-Kutta discontinuous Galerkin method based on different numerical fluxes. <i>Journal of Computational Physics</i> , 2006, 212, 540-565.	3.9	101
81	Central Discontinuous Galerkin Methods on Overlapping Cells with a Nonoscillatory Hierarchical Reconstruction. <i>SIAM Journal on Numerical Analysis</i> , 2007, 45, 2442-2467.	2.3	99
82	AN ANALYSIS OF THREE DIFFERENT FORMULATIONS OF THE DISCONTINUOUS GALERKIN METHOD FOR DIFFUSION EQUATIONS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2003, 13, 395-413.	3.3	96
83	Error estimates of the semi-discrete local discontinuous Galerkin method for nonlinear convection-diffusion and KdV equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 3805-3822.	6.7	96
84	Essentially non-oscillatory and weighted essentially non-oscillatory schemes. <i>Acta Numerica</i> , 2020, 29, 701-762.	10.8	96
85	Finite Difference WENO Schemes with Lax-Wendroff-Type Time Discretizations. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 2185-2198.	2.8	94
86	On the Order of Accuracy and Numerical Performance of Two Classes of Finite Volume WENO Schemes. <i>Communications in Computational Physics</i> , 2011, 9, 807-827.	1.7	94
87	An Alternative Formulation of Finite Difference Weighted ENO Schemes with Lax-Wendroff Time Discretization for Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A1137-A1160.	2.8	94
88	The discontinuous Galerkin method with Lax-Wendroff type time discretizations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4528-4543.	6.7	93
89	Conservative high order semi-Lagrangian finite difference WENO methods for advection in incompressible flow. <i>Journal of Computational Physics</i> , 2011, 230, 863-889.	3.9	92
90	Efficient implementation of high order inverse Lax-Wendroff boundary treatment for conservation laws. <i>Journal of Computational Physics</i> , 2012, 231, 2510-2527.	3.9	91

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91	Maximum-principle-satisfying second order discontinuous Galerkin schemes for convection-diffusion equations on triangular meshes. <i>Journal of Computational Physics</i> , 2013, 234, 295-316.	3.9	91
92	Computational Study of Shock Mitigation and Drag Reduction by Pulsed Energy Lines. <i>AIAA Journal</i> , 2006, 44, 1720-1731.	2.6	90
93	Analysis of a Local Discontinuous Galerkin Method for Linear Time-Dependent Fourth-Order Problems. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 3240-3268.	2.3	89
94	A discontinuous Galerkin finite element method for directly solving the Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , 2007, 223, 398-415.	3.9	87
95	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.	2.4	85
96	Analysis of Optimal Superconvergence of Discontinuous Galerkin Method for Linear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 3110-3133.	2.3	84
97	A weighted essentially non-oscillatory numerical scheme for a multi-class Lighthill-Whitham-Richards traffic flow model. <i>Journal of Computational Physics</i> , 2003, 191, 639-659.	3.9	83
98	Optimal Error Estimates of the Semidiscrete Local Discontinuous Galerkin Methods for High Order Wave Equations. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 79-104.	2.3	82
99	High Order Well-Balanced WENO Scheme for the Gas Dynamics Equations Under Gravitational Fields. <i>Journal of Scientific Computing</i> , 2013, 54, 645-662.	2.4	82
100	An analysis of and a comparison between the discontinuous Galerkin and the spectral finite volume methods. <i>Computers and Fluids</i> , 2005, 34, 581-592.	2.6	80
101	High Order Finite Difference WENO Schemes for Nonlinear Degenerate Parabolic Equations. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 939-965.	2.8	79
102	Local discontinuous Galerkin methods for two classes of two-dimensional nonlinear wave equations. <i>Physica D: Nonlinear Phenomena</i> , 2005, 208, 21-58.	2.9	78
103	Positivity-preserving Lagrangian scheme for multi-material compressible flow. <i>Journal of Computational Physics</i> , 2014, 257, 143-168.	3.9	78
104	A weighted essentially non-oscillatory numerical scheme for a multi-class traffic flow model on an inhomogeneous highway. <i>Journal of Computational Physics</i> , 2006, 212, 739-756.	3.9	76
105	Dynamic continuum pedestrian flow model with memory effect. <i>Physical Review E</i> , 2009, 79, 066113.	2.1	76
106	High-order ENO schemes applied to two- and three-dimensional compressible flow. <i>Applied Numerical Mathematics</i> , 1992, 9, 45-71.	2.2	72
107	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.	3.9	71
108	On the Advantage of Well-Balanced Schemes for Moving-Water Equilibria of the Shallow Water Equations. <i>Journal of Scientific Computing</i> , 2011, 48, 339-349.	2.4	71

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109	On the Gibbs Phenomenon IV: Recovering Exponential Accuracy in a Subinterval from a Gegenbauer Partial Sum of a Piecewise Analytic Function. <i>Mathematics of Computation</i> , 1995, 64, 1081.	1.0	69
110	High order conservative Lagrangian schemes with Lax-Wendroff type time discretization for the compressible Euler equations. <i>Journal of Computational Physics</i> , 2009, 228, 8872-8891.	3.9	68
111	$L^2$ stability analysis of the central discontinuous Galerkin method and a comparison between the central and regular discontinuous Galerkin methods. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2008, 42, 593-607.	1.9	66
112	Geometric Shock-Capturing ENO Schemes for Subpixel Interpolation, Computation and Curve Evolution. <i>Graphical Models</i> , 1997, 59, 278-301.	1.4	65
113	High-order finite volume WENO schemes for the shallow water equations with dry states. <i>Advances in Water Resources</i> , 2011, 34, 1026-1038.	3.8	65
114	Hermite WENO schemes for Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , 2005, 204, 82-99.	3.9	64
115	Multistage interaction of a shock wave and a strong vortex. <i>Physics of Fluids</i> , 2005, 17, 116101.	3.9	64
116	A discontinuous Galerkin solver for Boltzmann-Poisson systems in nano devices. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 3130-3150.	6.7	63
117	Numerical viscosity and resolution of high-order weighted essentially nonoscillatory schemes for compressible flows with high Reynolds numbers. <i>Physical Review E</i> , 2003, 68, 046709.	2.1	62
118	Multidomain WENO Finite Difference Method with Interpolation at Subdomain Interfaces. <i>Journal of Scientific Computing</i> , 2003, 19, 405-438.	2.4	61
119	Extension of a Post Processing Technique for the Discontinuous Galerkin Method for Hyperbolic Equations with Application to an Aeroacoustic Problem. <i>SIAM Journal of Scientific Computing</i> , 2005, 26, 821-843.	2.8	61
120	Discontinuous Galerkin method based on non-polynomial approximation spaces. <i>Journal of Computational Physics</i> , 2006, 218, 295-323.	3.9	60
121	High resolution WENO simulation of 3D detonation waves. <i>Combustion and Flame</i> , 2013, 160, 447-462.	5.3	60
122	Optimal energy conserving local discontinuous Galerkin methods for second-order wave equation in heterogeneous media. <i>Journal of Computational Physics</i> , 2014, 272, 88-107.	3.9	60
123	On the Gibbs phenomenon V: recovering exponential accuracy from collocation point values of a piecewise analytic function. <i>Numerische Mathematik</i> , 1995, 71, 511-526.	1.8	58
124	High-Order Well-Balanced Finite Difference WENO Schemes for a Class of Hyperbolic Systems with Source Terms. <i>Journal of Scientific Computing</i> , 2006, 27, 477-494.	2.4	57
125	Superconvergence and time evolution of discontinuous Galerkin finite element solutions. <i>Journal of Computational Physics</i> , 2008, 227, 9612-9627.	3.9	57
126	A new class of central compact schemes with spectral-like resolution I: Linear schemes. <i>Journal of Computational Physics</i> , 2013, 248, 235-256.	3.9	57



#	ARTICLE	IF	CITATIONS
127	On the Gibbs Phenomenon III: Recovering Exponential Accuracy in a Sub-Interval From a Spectral Partial Sum of a Piecewise Analytic Function. <i>SIAM Journal on Numerical Analysis</i> , 1996, 33, 280-290.	2.3	56
128	Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher's contributions. <i>Journal of Computational Physics</i> , 2003, 185, 309-341.	3.9	56
129	Superconvergence of Discontinuous Galerkin Methods for Scalar Nonlinear Conservation Laws in One Space Dimension. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 2336-2356.	2.3	56
130	A high order moving boundary treatment for compressible inviscid flows. <i>Journal of Computational Physics</i> , 2011, 230, 6023-6036.	3.9	55
131	A new class of central compact schemes with spectral-like resolution II: Hybrid weighted nonlinear schemes. <i>Journal of Computational Physics</i> , 2015, 284, 133-154.	3.9	55
132	An efficient discontinuous Galerkin method on triangular meshes for a pedestrian flow model. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 337-350.	2.9	53
133	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter. <i>Communications in Computational Physics</i> , 2016, 19, 944-969.	1.7	53
134	Numerical Comparison of WENO Finite Volume and Runge-Kutta Discontinuous Galerkin Methods. <i>Journal of Scientific Computing</i> , 2001, 16, 145-171.	2.4	52
135	A second order discontinuous Galerkin fast sweeping method for Eikonal equations. <i>Journal of Computational Physics</i> , 2008, 227, 8191-8208.	3.9	51
136	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy on triangular meshes. <i>Journal of Computational Physics</i> , 2019, 392, 19-33.	3.9	51
137	Mixed-RKDG Finite Element Methods for the 2-D Hydrodynamic Model for Semiconductor Device Simulation. <i>VLSI Design</i> , 1995, 3, 145-158.	0.5	50
138	A reactive dynamic continuum user equilibrium model for bi-directional pedestrian flows. <i>Acta Mathematica Scientia</i> , 2009, 29, 1541-1555.	1.1	50
139	Conservative Semi-Lagrangian Finite Difference WENO Formulations with Applications to the Vlasov Equation. <i>Communications in Computational Physics</i> , 2011, 10, 979-1000.	1.7	50
140	High order finite difference methods with subcell resolution for advection equations with stiff source terms. <i>Journal of Computational Physics</i> , 2012, 231, 190-214.	3.9	50
141	Efficient time discretization for local discontinuous Galerkin methods. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2007, 8, 677-693.	0.9	50
142	Discontinuous Galerkin method for hyperbolic equations involving $\delta$ -singularities: negative-order norm error estimates and applications. <i>Numerische Mathematik</i> , 2013, 124, 753-781.	1.8	49
143	Bound-preserving discontinuous Galerkin methods for relativistic hydrodynamics. <i>Journal of Computational Physics</i> , 2016, 315, 323-347.	3.9	49
144	Numerical Simulation of High Mach Number Astrophysical Jets with Radiative Cooling. <i>Journal of Scientific Computing</i> , 2005, 24, 29-44.	2.4	48

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145	2D semiconductor device simulations by WENO-Boltzmann schemes: Efficiency, boundary conditions and comparison to Monte Carlo methods. <i>Journal of Computational Physics</i> , 2006, 214, 55-80.	3.9	48
146	Superconvergence of Discontinuous Galerkin Methods for Two-Dimensional Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 1651-1671.	2.3	47
147	Local discontinuous Galerkin methods with implicit-explicit time-marching for multi-dimensional convection-diffusion problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016, 50, 1083-1105.	1.9	47
148	A new troubled-cell indicator for discontinuous Galerkin methods for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2017, 347, 305-327.	3.9	47
149	Analysis of the discontinuous Galerkin method for Hamilton-Jacobi equations. <i>Applied Numerical Mathematics</i> , 2000, 33, 423-434.	2.2	46
150	A cell-centered Lagrangian scheme with the preservation of symmetry and conservation properties for compressible fluid flows in two-dimensional cylindrical geometry. <i>Journal of Computational Physics</i> , 2010, 229, 7191-7206.	3.9	46
151	Efficient Implementation of Essentially Non-oscillatory Shock-Capturing Schemes, II. , 1989, , 328-374.		46
152	On a One-Sided Post-Processing Technique for the Discontinuous Galerkin Methods. <i>Methods and Applications of Analysis</i> , 2003, 10, 295-308.	0.5	46
153	Comparison of two formulations for high-order accurate essentially nonoscillatory schemes. <i>AIAA Journal</i> , 1994, 32, 1970-1977.	2.6	45
154	Discontinuous Galerkin method for Krause's consensus models and pressureless Euler equations. <i>Journal of Computational Physics</i> , 2013, 252, 109-127.	3.9	45
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