Chi-Wang Shu

List of Publications by Year
in descending order

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461 papers	52,419 citations	3325 91 h-index	1456 220 g-index
477 all docs	477 docs citations	477 times ranked	9533 citing authors

#	Article	IF	Citations
1	A Fixed-Point Fast Sweeping WENO Method with Inverse Lax-Wendroff Boundary Treatment for Steady State of Hyperbolic Conservation Laws. Communications on Applied Mathematics and Computation, 2023, 5, 403-427.	0.7	1
2	Preface to the Focused Issue on WENO Schemes. Communications on Applied Mathematics and Computation, 2023, 5, 1-2.	0.7	0
3	Stability analysis of inverse Laxâ€“Wendroff boundary treatment of high order compact difference schemes for parabolic equations. Journal of Computational and Applied Mathematics, 2022, 400, 113711.	1.1	9
4	High-Resolution Viscous Terms Discretization and ILW Solid Wall Boundary Treatment for the Navierâ€“Stokes Equations. Archives of Computational Methods in Engineering, 2022, 29, 2383-2395.	6.0	2
5	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
6	An Essentially Oscillation-Free Discontinuous Galerkin Method for Hyperbolic Systems. SIAM Journal of Scientific Computing, 2022, 44, A230-A259.	1.3	9
7	High order entropy stable and positivity-preserving discontinuous Galerkin method for the nonlocal electron heat transport model. Journal of Computational Physics, 2022, 454, 110945.	1.9	2
8	Local discontinuous Galerkin methods for the carpet cloak model. Annals of Mathematical Sciences and Applications, 2022, 7, 97-137.	0.2	0
9	Development and analysis of two new finite element schemes for a time-domain carpet cloak model. Advances in Computational Mathematics, 2022, 48, .	0.8	1
10	A high order positivity-preserving conservative WENO remapping method on 3D tetrahedral meshes. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 115037.	3.4	3
11	Multi-symplectic discontinuous Galerkin methods for the stochastic Maxwell equations with additive noise. Journal of Computational Physics, 2022, 461, 111199.	1.9	7
12	High-resolution ILW outflow boundary treatment for the Navierâ€“Stokes equations. Computers and Fluids, 2022, 242, 105506.	1.3	2
13	Stability of high order finite difference and local discontinuous Galerkin schemes with explicit-implicit-null time-marching for high order dissipative and dispersive equations. Journal of Computational Physics, 2022, 464, 111314.	1.9	3
14	Entropy Stable Galerkin Methods with Suitable Quadrature Rules for Hyperbolic Systems with Random Inputs. Journal of Scientific Computing, 2022, 92, .	1.1	0
15	L^2 Error Estimate to Smooth Solutions of High Order Runge--Kutta Discontinuous Galerkin Method for Scalar Nonlinear Conservation Laws with and without Sonic Points. SIAM Journal on Numerical Analysis, 2022, 60, 1741-1773.	1.1	2
16	High order conservative positivity-preserving discontinuous Galerkin method for stationary hyperbolic equations. Journal of Computational Physics, 2022, 466, 111410.	1.9	1
17	An improved simple WENO limiter for discontinuous Galerkin methods solving hyperbolic systems on unstructured meshes. Journal of Computational Physics, 2022, 467, 111424.	1.9	5
18	Weighted ghost fluid discontinuous Galerkin method for two-medium problems. Journal of Computational Physics, 2021, 426, 109956.	1.9	12

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19	A Sequel of Inverse Laxâ€“Wendroff High Order Wall Boundary Treatment for Conservation Laws. Archives of Computational Methods in Engineering, 2021, 28, 2315-2329.	6.0	3
20	A discontinuous Galerkin method and its error estimate for nonlinear fourth-order wave equations. Journal of Computational and Applied Mathematics, 2021, 386, 113230.	1.1	7
21	An inverse Lax-Wendroff procedure for hyperbolic conservation laws with changing wind direction on the boundary. Journal of Computational Physics, 2021, 426, 109940.	1.9	13
22	A high order positivity-preserving conservative WENO remapping method on 2D quadrilateral meshes. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113497.	3.4	12
23	Central discontinuous Galerkin methods on overlapping meshes for wave equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 329-356.	0.8	1
24	An Oscillation-free Discontinuous Galerkin Method for Scalar Hyperbolic Conservation Laws. SIAM Journal on Numerical Analysis, 2021, 59, 1299-1324.	1.1	13
25	A local discontinuous Galerkin method for nonlinear parabolic SPDEs. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S187-S223.	0.8	7
26	On a class of splines free of Gibbs phenomenon. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S29-S64.	0.8	8
27	Provably physical-constraint-preserving discontinuous Galerkin methods for multidimensional relativistic MHD equations. Numerische Mathematik, 2021, 148, 699-741.	0.9	17
28	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
29	Cell-average WENO with progressive order of accuracy close to discontinuities with applications to signal processing. Applied Mathematics and Computation, 2021, 403, 126131.	1.4	1
30	Preface to Focused Section on Efficient High-Order Time Discretization Methods for Partial Differential Equations. Communications on Applied Mathematics and Computation, 2021, 3, 605-605.	0.7	0
31	A high order conservative finite difference scheme for compressible two-medium flows. Journal of Computational Physics, 2021, 445, 110597.	1.9	4
32	Multi-resolution HWENO schemes for hyperbolic conservation laws. Journal of Computational Physics, 2021, 446, 110653.	1.9	10
33	Local discontinuous Galerkin methods with explicit-implicit-null time discretizations for solving nonlinear diffusion problems. Science China Mathematics, 2020, 63, 183-204.	0.8	25
34	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
35	Completed repeated Richardson extrapolation for compressible fluid flows. Applied Mathematical Modelling, 2020, 77, 724-737.	2.2	1
36	High-order Runge-Kutta discontinuous Galerkin methods with a new type of multi-resolution WENO limiters. Journal of Computational Physics, 2020, 404, 109105.	1.9	21

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37	A Discontinuous Galerkin Method for Stochastic Conservation Laws. SIAM Journal of Scientific Computing, 2020, 42, A54-A86.	1.3	10
38	A new type of third-order finite volume multi-resolution WENO schemes on tetrahedral meshes. Journal of Computational Physics, 2020, 406, 109212.	1.9	27
39	Analysis of optimal superconvergence of an ultraweak-local discontinuous Galerkin method for a time dependent fourth-order equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 1797-1820.	0.8	8
40	Superconvergence Analysis of the Rungeâ€“Kutta Discontinuous Galerkin Methods for a Linear Hyperbolic Equation. Journal of Scientific Computing, 2020, 84, 1.	1.1	11
41	Entropy Symmetrization and High-Order Accurate Entropy Stable Numerical Schemes for Relativistic MHD Equations. SIAM Journal of Scientific Computing, 2020, 42, A2230-A2261.	1.3	18
42	High order conservative Lagrangian schemes for one-dimensional radiation hydrodynamics equations in the equilibrium-diffusion limit. Journal of Computational Physics, 2020, 421, 109724.	1.9	6
43	Error Estimate of the Fourth-Order Runge--Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2020, 58, 2885-2914.	1.1	11
44	Existence and Computation of Solutions of a Model of Traffic Involving Hysteresis. SIAM Journal on Applied Mathematics, 2020, 80, 2319-2337.	0.8	4
45	On moving mesh WENO schemes with characteristic boundary conditions for Hamilton-Jacobi equations. Computers and Fluids, 2020, 205, 104582.	1.3	3
46	On the conservation of finite difference WENO schemes in non-rectangular domains using the inverse Lax-Wendroff boundary treatments. Journal of Computational Physics, 2020, 415, 109516.	1.9	7
47	Preface to the Focused Issue in Honor of Professor Philip Roe on the Occasion of His 80th Birthday. Communications on Applied Mathematics and Computation, 2020, 2, 319-320.	0.7	0
48	Well-Balanced Finite-Volume Schemes for Hydrodynamic Equations with General Free Energy. Multiscale Modeling and Simulation, 2020, 18, 502-541.	0.6	10
49	On a new WENO algorithm of order <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2474" altimg="si2.svg"><mml:mrow><mml:mn>2</mml:mn><mml:mi>r</mml:mi></mml:mrow></mml:math> with improved accuracy close to discontinuities. Applied Mathematics Letters, 2020, 105, 106298.	1.5	5
50	An Ultra-Weak Discontinuous Galerkin Method with Implicitâ€“Explicit Time-Marching for Generalized Stochastic KdV Equations. Journal of Scientific Computing, 2020, 82, 1.	1.1	4
51	Optimal error estimates of the semidiscrete discontinuous Galerkin methods for two dimensional hyperbolic equations on Cartesian meshes using P^k elements. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 705-726.	0.8	6
52	High-order Runge-Kutta discontinuous Galerkin methods with a new type of multi-resolution WENO limiters on triangular meshes. Applied Numerical Mathematics, 2020, 153, 519-539.	1.2	15
53	Essentially non-oscillatory and weighted essentially non-oscillatory schemes. Acta Numerica, 2020, 29, 701-762.	6.3	72
54	An ultraweak-local discontinuous Galerkin method for PDEs with high order spatial derivatives. Mathematics of Computation, 2020, 89, 2753-2783.	1.1	13

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55	A New WENO-2r Algorithm with Progressive Order of Accuracy Close to Discontinuities. SIAM Journal on Numerical Analysis, 2020, 58, 3448-3474.	1.1	3
56	Numerical solutions of stochastic PDEs driven by arbitrary type of noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2019, 7, 1-39.	0.5	0
57	A brief review on the convergence to steady state solutions of Euler equations with high-order WENO schemes. Advances in Aerodynamics, 2019, 1, .	1.3	16
58	The L^2-norm Stability Analysis of Runge--Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2019, 57, 1574-1601.	1.1	16
59	Assessment of aeroacoustic resolution properties of DG schemes and comparison with DRP schemes. Journal of Computational Physics, 2019, 399, 108960.	1.9	4
60	Preface to the Focused Issue on Fractional Derivatives and General Nonlocal Models. Communications on Applied Mathematics and Computation, 2019, 1, 503-504.	0.7	2
61	On the time growth of the error of the DG method for advective problems. IMA Journal of Numerical Analysis, 2019, 39, 687-712.	1.5	3
62	Strong Stability of Explicit Runge–Kutta Time Discretizations. SIAM Journal on Numerical Analysis, 2019, 57, 1158-1182.	1.1	25
63	Bounded and compact weighted essentially nonoscillatory limiters for discontinuous Galerkin schemes: Triangular elements. Journal of Computational Physics, 2019, 395, 461-488.	1.9	11
64	Optimal energy-conserving discontinuous Galerkin methods for linear symmetric hyperbolic systems. Journal of Computational Physics, 2019, 394, 329-363.	1.9	12
65	On New Strategies to Control the Accuracy of WENO Algorithms Close to Discontinuities. SIAM Journal on Numerical Analysis, 2019, 57, 1205-1237.	1.1	5
66	Certified Offline-Free Reduced Basis (COFRB) Methods for Stochastic Differential Equations Driven by Arbitrary Types of Noise. Journal of Scientific Computing, 2019, 81, 1210-1239.	1.1	2
67	Provably positive high-order schemes for ideal magnetohydrodynamics: analysis on general meshes. Numerische Mathematik, 2019, 142, 995-1047.	0.9	40
68	Superconvergence of Energy-Conserving Discontinuous Galerkin Methods for Linear Hyperbolic Equations. Communications on Applied Mathematics and Computation, 2019, 1, 101-116.	0.7	6
69	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
70	Foreword by the Editor-in-Chief. Communications on Applied Mathematics and Computation, 2019, 1, 1-1.	0.7	1
71	Stability analysis and error estimates of arbitrary Lagrangianâ€“Eulerian discontinuous Galerkin method coupled with Rungeâ€“Kutta time-marching for linear conservation laws. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 105-144.	0.8	9
72	High order finite difference hermite WENO schemes for the Hamiltonâ€“Jacobi equations on unstructured meshes. Computers and Fluids, 2019, 183, 53-65.	1.3	5

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73	Implicitâ€“Explicit Local Discontinuous Galerkin Methods with Generalized Alternating Numerical Fluxes for Convectionâ€“Diffusion Problems. Journal of Scientific Computing, 2019, 81, 2080-2114.	1.1	17
74	A Third-Order Unconditionally Positivity-Preserving Scheme for Productionâ€“Destruction Equations with Applications to Non-equilibrium Flows. Journal of Scientific Computing, 2019, 79, 1015-1056.	1.1	25
75	Positivity-Preserving Time Discretizations for Productionâ€“Destruction Equations with Applications to Non-equilibrium Flows. Journal of Scientific Computing, 2019, 78, 1811-1839.	1.1	33
76	An energy-conserving ultra-weak discontinuous Galerkin method for the generalized Kortewegâ€“de Vries equation. Journal of Computational and Applied Mathematics, 2019, 349, 41-51.	1.1	6
77	Modeling and simulation of urban air pollution from the dispersion of vehicle exhaust: A continuum modeling approach. International Journal of Sustainable Transportation, 2019, 13, 722-740.	2.1	11
78	An entropy stable high-order discontinuous Galerkin method for cross-diffusion gradient flow systems. Kinetic and Related Models, 2019, 12, 885-908.	0.5	10
79	Bound-preserving modified exponential Rungeâ€“Kutta discontinuous Galerkin methods for scalar hyperbolic equations with stiff source terms. Journal of Computational Physics, 2018, 361, 111-135.	1.9	29
80	Optimal Error Estimates of the Semidiscrete Central Discontinuous Galerkin Methods for Linear Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2018, 56, 520-541.	1.1	8
81	Implicit Positivity-Preserving High-Order Discontinuous Galerkin Methods for Conservation Laws. SIAM Journal of Scientific Computing, 2018, 40, A81-A107.	1.3	20
82	Conservative High Order Positivity-Preserving Discontinuous Galerkin Methods for Linear Hyperbolic and Radiative Transfer Equations. Journal of Scientific Computing, 2018, 77, 1801-1831.	1.1	10
83	Superconvergence of Discontinuous Galerkin Method for Scalar Nonlinear Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2018, 56, 732-765.	1.1	27
84	Reprint of: Positivity-preserving and symmetry-preserving Lagrangian schemes for compressible Euler equations in cylindrical coordinates. Computers and Fluids, 2018, 169, 230-248.	1.3	0
85	On local conservation of numerical methods for conservation laws. Computers and Fluids, 2018, 169, 3-9.	1.3	13
86	A discontinuous Galerkin method for nonlinear parabolic equations and gradient flow problems with interaction potentials. Journal of Computational Physics, 2018, 352, 76-104.	1.9	39
87	Entropy stable high order discontinuous Galerkin methods for ideal compressible MHD on structured meshes. Journal of Computational Physics, 2018, 354, 163-178.	1.9	42
88	Local discontinuous Galerkin methods with implicit-explicit time-marching for time-dependent incompressible fluid flow. Mathematics of Computation, 2018, 88, 91-121.	1.1	12
89	A Foreword to the Special Issue in Honor of Professor Bernardo Cockburn on His 60th Birthday: A Life Time of Discontinuous Schemings. Journal of Scientific Computing, 2018, 77, 1303-1309.	1.1	0
90	A Provably Positive Discontinuous Galerkin Method for Multidimensional Ideal Magnetohydrodynamics. SIAM Journal of Scientific Computing, 2018, 40, B1302-B1329.	1.3	31

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91	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy. Journal of Computational Physics, 2018, 375, 659-683.	1.9	96
92	Third order implicitâ€“explicit Rungeâ€“Kutta local discontinuous Galerkin methods with suitable boundary treatment for convectionâ€“diffusion problems with Dirichlet boundary conditions. Journal of Computational and Applied Mathematics, 2018, 342, 164-179.	1.1	22
93	Discontinuous Galerkin methods for a kinetic model of self-organized dynamics. Mathematical Models and Methods in Applied Sciences, 2018, 28, 1171-1197.	1.7	2
94	Bound-Preserving High-Order Schemes for Hyperbolic Equations: Survey and Recent Developments. Springer Proceedings in Mathematics and Statistics, 2018, , 591-603.	0.1	5
95	Discontinuous Galerkin methods for Maxwellâ€™s equations in Drude metamaterials on unstructured meshes. Journal of Computational and Applied Mathematics, 2018, 342, 147-163.	1.1	19
96	A phase-based interior penalty discontinuous Galerkin method for the Helmholtz equation with spatially varying wavenumber. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 456-473.	3.4	8
97	Finite difference Hermite WENO schemes for the Hamiltonâ€“Jacobi equations. Journal of Computational Physics, 2017, 337, 27-41.	1.9	19
98	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter on Unstructured Meshes. Communications in Computational Physics, 2017, 21, 623-649.	0.7	35
99	A second-order asymptotic-preserving and positivity-preserving discontinuous Galerkin scheme for the Kerrâ€“Debye model. Mathematical Models and Methods in Applied Sciences, 2017, 27, 549-579.	1.7	22
100	Discontinuous Galerkin deterministic solvers for a Boltzmannâ€“Poisson model of hot electron transport by averaged empirical pseudopotential band structures. Computer Methods in Applied Mechanics and Engineering, 2017, 321, 209-234.	3.4	2
101	A Simple Bound-Preserving Sweeping Technique for Conservative Numerical Approximations. Journal of Scientific Computing, 2017, 73, 1028-1071.	1.1	3
102	Entropy stable high order discontinuous Galerkin methods with suitable quadrature rules for hyperbolic conservation laws. Journal of Computational Physics, 2017, 345, 427-461.	1.9	153
103	Bound-Preserving High Order Finite Volume Schemes for Conservation Laws and Convection-Diffusion Equations. Springer Proceedings in Mathematics and Statistics, 2017, , 3-14.	0.1	3
104	Optimal non-dissipative discontinuous Galerkin methods for Maxwellâ€™s equations in Drude metamaterials. Computers and Mathematics With Applications, 2017, 73, 1760-1780.	1.4	40
105	Local Discontinuous Galerkin Method for the Keller-Segel Chemotaxis Model. Journal of Scientific Computing, 2017, 73, 943-967.	1.1	41
106	Discontinuous Galerkin Methods for Weakly Coupled Hyperbolic MultiDomain Problems. SIAM Journal of Scientific Computing, 2017, 39, A2201-A2230.	1.3	0
107	Runge-Kutta and Lax-Wendroff discontinuous Galerkin methods for linear conservation laws. AIP Conference Proceedings, 2017, , .	0.3	1
108	Positivity-preserving and symmetry-preserving Lagrangian schemes for compressible Euler equations in cylindrical coordinates. Computers and Fluids, 2017, 157, 112-130.	1.3	7

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109	Unconditional Energy Stability Analysis of a Second Order Implicitâ€“Explicit Local Discontinuous Galerkin Method for the Cahnâ€“Hilliard Equation. Journal of Scientific Computing, 2017, 73, 1178-1203.	1.1	26
110	IMEX time marching for discontinuous Galerkin methods. AIP Conference Proceedings, 2017, , .	0.3	1
111	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
112	A new troubled-cell indicator for discontinuous Galerkin methods for hyperbolic conservation laws. Journal of Computational Physics, 2017, 347, 305-327.	1.9	43
113	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
114	Stability Analysis of the Inverse Laxâ€“Wendroff Boundary Treatment for High Order Central Difference Schemes for Diffusion Equations. Journal of Scientific Computing, 2017, 70, 576-607.	1.1	18
115	Error estimates to smooth solutions of semiâ€discrete discontinuous Galerkin methods with quadrature rules for scalar conservation laws. Numerical Methods for Partial Differential Equations, 2017, 33, 467-488.	2.0	9
116	Stability analysis and error estimates of Laxâ€“Wendroff discontinuous Galerkin methods for linear conservation laws. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 1063-1087.	0.8	6
117	Superconvergence of discontinuous Galerkin methods for 1-D linear hyperbolic equations with degenerate variable coefficients. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 2213-2235.	0.8	16
118	Stability analysis and error estimates of local discontinuous Galerkin methods with implicit-explicit time-marching for the time-dependent fourth order PDEs. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 1931-1955.	0.8	7
119	Stability of the fourth order Rungeâ€“Kutta method for time-dependent partial differential equations. Annals of Mathematical Sciences and Applications, 2017, 2, 255-284.	0.2	22
120	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter. Communications in Computational Physics, 2016, 19, 944-969.	0.7	50
121	A High Order Stable Conservative Method for Solving Hyperbolic Conservation Laws on Arbitrarily Distributed Point Clouds. SIAM Journal of Scientific Computing, 2016, 38, A3094-A3128.	1.3	1
122	Local discontinuous Galerkin methods with implicit-explicit time-marching for multi-dimensional convection-diffusion problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 1083-1105.	0.8	46
123	Bound-preserving discontinuous Galerkin methods for relativistic hydrodynamics. Journal of Computational Physics, 2016, 315, 323-347.	1.9	47
124	Inverse Laxâ€“Wendroff procedure for numerical boundary conditions of convectionâ€“diffusion equations. Journal of Computational Physics, 2016, 317, 276-300.	1.9	33
125	High order WENO and DG methods for time-dependent convection-dominated PDEs: A brief survey of several recent developments. Journal of Computational Physics, 2016, 316, 598-613.	1.9	129
126	High Order Positivity-Preserving Discontinuous Galerkin Methods for Radiative Transfer Equations. SIAM Journal of Scientific Computing, 2016, 38, A2987-A3019.	1.3	21

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127	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
128	An efficient class of WENO schemes with adaptive order. Journal of Computational Physics, 2016, 326, 780-804.	1.9	180
129	Three-dimensional ghost-fluid large-scale numerical investigation on air explosion. Computers and Fluids, 2016, 137, 70-79.	1.3	12
130	High Order Fixed-Point Sweeping WENO Methods for Steady State of Hyperbolic Conservation Laws and Its Convergence Study. Communications in Computational Physics, 2016, 20, 835-869.	0.7	22
131	Spatial Evolution of Large Scale Structures in Supersonic Shear Layers. , 2016, , .		0
132	Supersonic Film Cooling Simulation with a DG Method. , 2016, , .		0
133	Stability analysis of the inverse Laxâ€“Wendroff boundary treatment for high order upwind-biased finite difference schemes. Journal of Computational and Applied Mathematics, 2016, 299, 140-158.	1.1	25
134	Analysis of the local discontinuous Galerkin method for the drift-diffusion model of semiconductor devices. Science China Mathematics, 2016, 59, 115-140.	0.8	23
135	Positivity-preserving cell-centered Lagrangian schemes for multi-material compressible flows: From first-order to high-orders. Part II: The two-dimensional case. Journal of Computational Physics, 2016, 312, 416-442.	1.9	29
136	Positivity-preserving cell-centered Lagrangian schemes for multi-material compressible flows: From first-order to high-orders. Part I: The one-dimensional case. Journal of Computational Physics, 2016, 312, 385-415.	1.9	30
137	High Order and High Resolution Numerical Schemes for Computational Aeroacoustics and Their Applications. Lecture Notes in Mechanical Engineering, 2016, , 27-32.	0.3	1
138	A New Multiscale Discontinuous Galerkin Method for the One-Dimensional Stationary SchrÃ¶dinger Equation. Journal of Scientific Computing, 2016, 66, 321-345.	1.1	9
139	Stability analysis and error estimates of local discontinuous Galerkin methods with implicitâ€“explicit time-marching for nonlinear convectionâ€“diffusion problems. Applied Mathematics and Computation, 2016, 272, 237-258.	1.4	44
140	Development and stability analysis of the inverse Laxâ^'Wendroff boundary treatment for central compact schemes. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 39-67.	0.8	23
141	A priorierror estimates to smooth solutions of the third order Rungeâ€“Kutta discontinuous Galerkin method for symmetrizable systems of conservation laws. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 991-1018.	0.8	17
142	Convergence of discontinuous Galerkin schemes for front propagation with obstacles. Mathematics of Computation, 2015, 85, 2131-2159.	1.1	4
143	Numerical Solution of the Viscous Surface Wave with Discontinuous Galerkin Method. ESAIM: Mathematical Modelling and Numerical Analysis, 2015, 49, 1019-1046.	0.8	1
144	Optimal error estimates for discontinuous Galerkin methods based on upwind-biased fluxes for linear hyperbolic equations. Mathematics of Computation, 2015, 85, 1225-1261.	1.1	72

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145	A new class of central compact schemes with spectral-like resolution II: Hybrid weighted nonlinear schemes. Journal of Computational Physics, 2015, 284, 133-154.	1.9	54
146	Stability and Error Estimates of Local Discontinuous Galerkin Methods with Implicit-Explicit Time-Marching for Advection-Diffusion Problems. SIAM Journal on Numerical Analysis, 2015, 53, 206-227.	1.1	101
147	A simple weighted essentially non-oscillatory limiter for the correction procedure via reconstruction (CPR) framework on unstructured meshes. Applied Numerical Mathematics, 2015, 90, 146-167.	1.2	16
148	Reformulating the Hoogendoornâ€“Bovy predictive dynamic user-optimal model in continuum space with anisotropic condition. Transportation Research Part B: Methodological, 2015, 79, 189-217.	2.8	9
149	Recovering Exponential Accuracy in Fourier Spectral Methods Involving Piecewise Smooth Functions with Unbounded Derivative Singularities. Journal of Scientific Computing, 2015, 65, 1145-1165.	1.1	4
150	High-order finite difference WENO schemes with positivity-preserving limiter for correlated random walk with density-dependent turning rates. Mathematical Models and Methods in Applied Sciences, 2015, 25, 1553-1588.	1.7	5
151	High Order Finite Difference Methods with Subcell Resolution for Stiff Multispecies Discontinuity Capturing. Communications in Computational Physics, 2015, 17, 317-336.	0.7	14
152	Superconvergence of Discontinuous Galerkin Methods for Two-Dimensional Hyperbolic Equations. SIAM Journal on Numerical Analysis, 2015, 53, 1651-1671.	1.1	45
153	Parallel adaptive mesh refinement method based on WENO finite difference scheme for the simulation of multi-dimensional detonation. Journal of Computational Physics, 2015, 298, 161-175.	1.9	34
154	A simple weighted essentially non-oscillatory limiter for the correction procedure via reconstruction (CPR) framework. Applied Numerical Mathematics, 2015, 95, 173-198.	1.2	23
155	Discontinous Galerkin Methods: Time-dependent Problems. , 2015, , 365-367.		0
156	Error Estimates for Linear Hyperbolic Equations. , 2015, , 440-445.		0
157	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
158	Second order symmetry-preserving conservative Lagrangian scheme for compressible Euler equations in two-dimensional cylindrical coordinates. Journal of Computational Physics, 2014, 272, 245-265.	1.9	22
159	Optimal energy conserving local discontinuous Galerkin methods for second-order wave equation in heterogeneous media. Journal of Computational Physics, 2014, 272, 88-107.	1.9	59
160	Error estimates for the third order explicit Runge-Kutta discontinuous Galerkin method for a linear hyperbolic equation in one-dimension with discontinuous initial data. Numerische Mathematik, 2014, 126, 703-740.	0.9	33
161	A discontinuous Galerkin scheme for front propagation with obstacles. Numerische Mathematik, 2014, 126, 1-31.	0.9	13
162	Multi-scale Discontinuous Galerkin Method for Solving Elliptic Problems with Curvilinear Unidirectional Rough Coefficients. Journal of Scientific Computing, 2014, 61, 42-60.	1.1	10

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