

Chi-Wang Shu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

448
papers

40,392
citations

83
h-index

195
g-index

477
ext. papers

46,093
ext. citations

2.9
avg, IF

7.94
L-index

#	Paper	IF	Citations
448	An Essentially Oscillation-Free Discontinuous Galerkin Method for Hyperbolic Systems. <i>SIAM Journal of Scientific Computing</i> , 2022 , 44, A230-A259	2.6	0
447	High order entropy stable and positivity-preserving discontinuous Galerkin method for the nonlocal electron heat transport model. <i>Journal of Computational Physics</i> , 2022 , 454, 110945	4.1	1
446	Stability analysis of inverse Lax-Wendroff boundary treatment of high order compact difference schemes for parabolic equations. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 400, 113711	2.4	2
445	Local discontinuous Galerkin methods for the carpet cloak model. <i>Annals of Mathematical Sciences and Applications</i> , 2022 , 7, 97-137	1.3	
444	A high order positivity-preserving conservative WENO remapping method on 3D tetrahedral meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 395, 115037	5.7	0
443	Multi-symplectic discontinuous Galerkin methods for the stochastic Maxwell equations with additive noise. <i>Journal of Computational Physics</i> , 2022 , 461, 111199	4.1	1
442	High-resolution ILW outflow boundary treatment for the Navier-Stokes equations. <i>Computers and Fluids</i> , 2022 , 105506	2.8	
441	Stability of high order finite difference and local discontinuous Galerkin schemes with explicit-implicit-null time-marching for high order dissipative and dispersive equations. <i>Journal of Computational Physics</i> , 2022 , 464, 111314	4.1	
440	Provably physical-constraint-preserving discontinuous Galerkin methods for multidimensional relativistic MHD equations. <i>Numerische Mathematik</i> , 2021 , 148, 699-741	2.2	5
439	Weighted ghost fluid discontinuous Galerkin method for two-medium problems. <i>Journal of Computational Physics</i> , 2021 , 426, 109956	4.1	4
438	A Sequel of Inverse Lax-Wendroff High Order Wall Boundary Treatment for Conservation Laws. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 2315-2329	7.8	2
437	A discontinuous Galerkin method and its error estimate for nonlinear fourth-order wave equations. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 386, 113230	2.4	1
436	An inverse Lax-Wendroff procedure for hyperbolic conservation laws with changing wind direction on the boundary. <i>Journal of Computational Physics</i> , 2021 , 426, 109940	4.1	4
435	A high order positivity-preserving conservative WENO remapping method on 2D quadrilateral meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113497	5.7	4
434	Central discontinuous Galerkin methods on overlapping meshes for wave equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, 329-356	1.8	
433	An Oscillation-free Discontinuous Galerkin Method for Scalar Hyperbolic Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 2021 , 59, 1299-1324	2.4	2
432	A local discontinuous Galerkin method for nonlinear parabolic SPDEs. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, S187-S223	1.8	4

431	On a class of splines free of Gibbs phenomenon. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, S29-S64	1.8	4
430	High-order Runge-Kutta discontinuous Galerkin methods with multi-resolution WENO limiters for solving steady-state problems. <i>Applied Numerical Mathematics</i> , 2021 , 165, 482-499	2.5	2
429	Cell-average WENO with progressive order of accuracy close to discontinuities with applications to signal processing. <i>Applied Mathematics and Computation</i> , 2021 , 403, 126131	2.7	0
428	A high order conservative finite difference scheme for compressible two-medium flows. <i>Journal of Computational Physics</i> , 2021 , 445, 110597	4.1	2
427	Multi-resolution HWENO schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2021 , 446, 110653	4.1	0
426	Existence and Computation of Solutions of a Model of Traffic Involving Hysteresis. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 2319-2337	1.8	0
425	On moving mesh WENO schemes with characteristic boundary conditions for Hamilton-Jacobi equations. <i>Computers and Fluids</i> , 2020 , 205, 104582	2.8	1
424	On the conservation of finite difference WENO schemes in non-rectangular domains using the inverse Lax-Wendroff boundary treatments. <i>Journal of Computational Physics</i> , 2020 , 415, 109516	4.1	3
423	Preface to the Focused Issue in Honor of Professor Philip Roe on the Occasion of His 80th Birthday. <i>Communications on Applied Mathematics and Computation</i> , 2020 , 2, 319-320	0.9	
422	Well-Balanced Finite-Volume Schemes for Hydrodynamic Equations with General Free Energy. <i>Multiscale Modeling and Simulation</i> , 2020 , 18, 502-541	1.8	7
421	On a new WENO algorithm of order $2r$ with improved accuracy close to discontinuities. <i>Applied Mathematics Letters</i> , 2020 , 105, 106298	3.5	5
420	An Ultra-Weak Discontinuous Galerkin Method with ImplicitExplicit Time-Marching for Generalized Stochastic KdV Equations. <i>Journal of Scientific Computing</i> , 2020 , 82, 1	2.3	2
419	Optimal error estimates of the semidiscrete discontinuous Galerkin methods for two dimensional hyperbolic equations on Cartesian meshes using Pk elements. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020 , 54, 705-726	1.8	2
418	A New WENO- $2\leq r \leq 5$ Algorithm with Progressive Order of Accuracy Close to Discontinuities. <i>SIAM Journal on Numerical Analysis</i> , 2020 , 58, 3448-3474	2.4	2
417	Essentially non-oscillatory and weighted essentially non-oscillatory schemes. <i>Acta Numerica</i> , 2020 , 29, 701-762	15.1	12
416	An ultraweak-local discontinuous Galerkin method for PDEs with high order spatial derivatives. <i>Mathematics of Computation</i> , 2020 , 89, 2753-2783	1.6	4
415	High-order Runge-Kutta discontinuous Galerkin methods with a new type of multi-resolution WENO limiters. <i>Journal of Computational Physics</i> , 2020 , 404, 109105	4.1	14
414	A Discontinuous Galerkin Method for Stochastic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A54-A86	2.6	7

413	A new type of third-order finite volume multi-resolution WENO schemes on tetrahedral meshes. <i>Journal of Computational Physics</i> , 2020 , 406, 109212	4.1	13
412	Analysis of optimal superconvergence of an ultraweak-local discontinuous Galerkin method for a time dependent fourth-order equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020 , 54, 1797-1820	1.8	2
411	Superconvergence Analysis of the Runge-Kutta Discontinuous Galerkin Methods for a Linear Hyperbolic Equation. <i>Journal of Scientific Computing</i> , 2020 , 84, 1	2.3	4
410	Entropy Symmetrization and High-Order Accurate Entropy Stable Numerical Schemes for Relativistic MHD Equations. <i>SIAM Journal of Scientific Computing</i> , 2020 , 42, A2230-A2261	2.6	10
409	High order conservative Lagrangian schemes for one-dimensional radiation hydrodynamics equations in the equilibrium-diffusion limit. <i>Journal of Computational Physics</i> , 2020 , 421, 109724	4.1	2
408	Error Estimate of the Fourth-Order Runge-Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2020 , 58, 2885-2914	2.4	4
407	Local discontinuous Galerkin methods with explicit-implicit-null time discretizations for solving nonlinear diffusion problems. <i>Science China Mathematics</i> , 2020 , 63, 183-204	0.8	11
406	Convergence to Steady-State Solutions of the New Type of High-Order Multi-resolution WENO Schemes: a Numerical Study. <i>Communications on Applied Mathematics and Computation</i> , 2020 , 2, 429-460	0.9	6
405	Completed repeated Richardson extrapolation for compressible fluid flows. <i>Applied Mathematical Modelling</i> , 2020 , 77, 724-737	4.5	
404	High-order Runge-Kutta discontinuous Galerkin methods with a new type of multi-resolution WENO limiters on triangular meshes. <i>Applied Numerical Mathematics</i> , 2020 , 153, 519-539	2.5	8
403	Preface to the Focused Issue on Fractional Derivatives and General Nonlocal Models. <i>Communications on Applied Mathematics and Computation</i> , 2019 , 1, 503-504	0.9	2
402	On the time growth of the error of the DG method for advective problems. <i>IMA Journal of Numerical Analysis</i> , 2019 , 39, 687-712	1.8	1
401	Strong Stability of Explicit Runge-Kutta Time Discretizations. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 1158-1182	2.4	13
400	Bounded and compact weighted essentially nonoscillatory limiters for discontinuous Galerkin schemes: Triangular elements. <i>Journal of Computational Physics</i> , 2019 , 395, 461-488	4.1	5
399	Optimal energy-conserving discontinuous Galerkin methods for linear symmetric hyperbolic systems. <i>Journal of Computational Physics</i> , 2019 , 394, 329-363	4.1	5
398	On New Strategies to Control the Accuracy of WENO Algorithms Close to Discontinuities. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 1205-1237	2.4	5
397	Certified Offline-Free Reduced Basis (COFRB) Methods for Stochastic Differential Equations Driven by Arbitrary Types of Noise. <i>Journal of Scientific Computing</i> , 2019 , 81, 1210-1239	2.3	2
396	Provably positive high-order schemes for ideal magnetohydrodynamics: analysis on general meshes. <i>Numerische Mathematik</i> , 2019 , 142, 995-1047	2.2	17

395	Superconvergence of Energy-Conserving Discontinuous Galerkin Methods for Linear Hyperbolic Equations. <i>Communications on Applied Mathematics and Computation</i> , 2019 , 1, 101-116	0.9	4
394	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	4.1	24
393	Foreword by the Editor-in-Chief. <i>Communications on Applied Mathematics and Computation</i> , 2019 , 1, 1-1	0.9	1
392	Stability analysis and error estimates of arbitrary Lagrangian-Eulerian discontinuous Galerkin method coupled with Runge-Kutta time-marching for linear conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2019 , 53, 105-144	1.8	6
391	Numerical solutions of stochastic PDEs driven by arbitrary type of noise. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2019 , 7, 1-39	0.9	
390	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,	2.2	9
389	The L^2 -norm Stability Analysis of Runge-Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2019 , 57, 1574-1601	2.4	8
388	Assessment of aeroacoustic resolution properties of DG schemes and comparison with DRP schemes. <i>Journal of Computational Physics</i> , 2019 , 399, 108960	4.1	2
387	An entropy stable high-order discontinuous Galerkin method for cross-diffusion gradient flow systems. <i>Kinetic and Related Models</i> , 2019 , 12, 885-908	2.4	6
386	High order finite difference hermite WENO schemes for the Hamilton-Jacobi equations on unstructured meshes. <i>Computers and Fluids</i> , 2019 , 183, 53-65	2.8	4
385	Implicit-Explicit Local Discontinuous Galerkin Methods with Generalized Alternating Numerical Fluxes for Convection-Diffusion Problems. <i>Journal of Scientific Computing</i> , 2019 , 81, 2080-2114	2.3	10
384	A Third-Order Unconditionally Positivity-Preserving Scheme for Production-Destruction Equations with Applications to Non-equilibrium Flows. <i>Journal of Scientific Computing</i> , 2019 , 79, 1015-1056	2.3	8
383	Exponential Scaling and the Time Growth of the Error of DG for Advection-Reaction Problems. <i>Lecture Notes in Computational Science and Engineering</i> , 2019 , 963-971	0.3	
382	Positivity-Preserving Time Discretizations for Production-Destruction Equations with Applications to Non-equilibrium Flows. <i>Journal of Scientific Computing</i> , 2019 , 78, 1811-1839	2.3	13
381	An energy-conserving ultra-weak discontinuous Galerkin method for the generalized Korteweg-de Vries equation. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 349, 41-51	2.4	4
380	Modeling and simulation of urban air pollution from the dispersion of vehicle exhaust: A continuum modeling approach. <i>International Journal of Sustainable Transportation</i> , 2019 , 13, 722-740	3.6	6
379	Bound-preserving modified exponential Runge-Kutta discontinuous Galerkin methods for scalar hyperbolic equations with stiff source terms. <i>Journal of Computational Physics</i> , 2018 , 361, 111-135	4.1	15
378	Optimal Error Estimates of the Semidiscrete Central Discontinuous Galerkin Methods for Linear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2018 , 56, 520-541	2.4	5

377	Implicit Positivity-Preserving High-Order Discontinuous Galerkin Methods for Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A81-A107	2.6	13
376	Conservative High Order Positivity-Preserving Discontinuous Galerkin Methods for Linear Hyperbolic and Radiative Transfer Equations. <i>Journal of Scientific Computing</i> , 2018 , 77, 1801-1831	2.3	2
375	Superconvergence of Discontinuous Galerkin Method for Scalar Nonlinear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2018 , 56, 732-765	2.4	20
374	Reprint of: Positivity-preserving and symmetry-preserving Lagrangian schemes for compressible Euler equations in cylindrical coordinates. <i>Computers and Fluids</i> , 2018 , 169, 230-248	2.8	
373	On local conservation of numerical methods for conservation laws. <i>Computers and Fluids</i> , 2018 , 169, 3-9	2.8	8
372	A discontinuous Galerkin method for nonlinear parabolic equations and gradient flow problems with interaction potentials. <i>Journal of Computational Physics</i> , 2018 , 352, 76-104	4.1	25
371	Discontinuous Galerkin methods for Maxwell's equations in Drude metamaterials on unstructured meshes. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 342, 147-163	2.4	9
370	Entropy stable high order discontinuous Galerkin methods for ideal compressible MHD on structured meshes. <i>Journal of Computational Physics</i> , 2018 , 354, 163-178	4.1	24
369	Local discontinuous Galerkin methods with implicit-explicit time-marching for time-dependent incompressible fluid flow. <i>Mathematics of Computation</i> , 2018 , 88, 91-121	1.6	8
368	A Foreword to the Special Issue in Honor of Professor Bernardo Cockburn on His 60th Birthday: A Life Time of Discontinuous Schemings. <i>Journal of Scientific Computing</i> , 2018 , 77, 1303-1309	2.3	
367	A Provably Positive Discontinuous Galerkin Method for Multidimensional Ideal Magnetohydrodynamics. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, B1302-B1329	2.6	14
366	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy. <i>Journal of Computational Physics</i> , 2018 , 375, 659-683	4.1	43
365	Third order implicit-explicit Runge-Kutta local discontinuous Galerkin methods with suitable boundary treatment for convection-diffusion problems with Dirichlet boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 342, 164-179	2.4	17
364	Discontinuous Galerkin methods for a kinetic model of self-organized dynamics. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018 , 28, 1171-1197	3.5	0
363	Bound-Preserving High-Order Schemes for Hyperbolic Equations: Survey and Recent Developments. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 591-603	0.2	3
362	A phase-based interior penalty discontinuous Galerkin method for the Helmholtz equation with spatially varying wavenumber. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 318, 456-473	5.7	7
361	Finite difference Hermite WENO schemes for the Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , 2017 , 337, 27-41	4.1	16
360	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter on Unstructured Meshes. <i>Communications in Computational Physics</i> , 2017 , 21, 623-649	2.4	23

359	A second-order asymptotic-preserving and positivity-preserving discontinuous Galerkin scheme for the Kerr-Debye model. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017 , 27, 549-579	3.5	14
358	Discontinuous Galerkin deterministic solvers for a Boltzmann-Poisson model of hot electron transport by averaged empirical pseudopotential band structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 321, 209-234	5.7	1
357	A Simple Bound-Preserving Sweeping Technique for Conservative Numerical Approximations. <i>Journal of Scientific Computing</i> , 2017 , 73, 1028-1071	2.3	2
356	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	4.1	98
355	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	0.2	2
354	Optimal non-dissipative discontinuous Galerkin methods for Maxwell's equations in Drude metamaterials. <i>Computers and Mathematics With Applications</i> , 2017 , 73, 1760-1780	2.7	28
353	Local Discontinuous Galerkin Method for the Keller-Segel Chemotaxis Model. <i>Journal of Scientific Computing</i> , 2017 , 73, 943-967	2.3	30
352	Discontinuous Galerkin Methods for Weakly Coupled Hyperbolic MultiDomain Problems. <i>SIAM Journal of Scientific Computing</i> , 2017 , 39, A2201-A2230	2.6	
351	Runge-Kutta and Lax-Wendroff discontinuous Galerkin methods for linear conservation laws 2017 ,		1
350	Positivity-preserving and symmetry-preserving Lagrangian schemes for compressible Euler equations in cylindrical coordinates. <i>Computers and Fluids</i> , 2017 , 157, 112-130	2.8	5
349	Unconditional Energy Stability Analysis of a Second Order Implicit-Explicit Local Discontinuous Galerkin Method for the Cahn-Hilliard Equation. <i>Journal of Scientific Computing</i> , 2017 , 73, 1178-1203	2.3	16
348	Numerical study on the convergence to steady state solutions of a new class of high order WENO schemes. <i>Journal of Computational Physics</i> , 2017 , 349, 80-96	4.1	15
347	A new troubled-cell indicator for discontinuous Galerkin methods for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2017 , 347, 305-327	4.1	25
346	Maximum-principle-satisfying space-time conservation element and solution element scheme applied to compressible mult fluids. <i>Journal of Computational Physics</i> , 2017 , 330, 668-692	4.1	28
345	Stability Analysis of the Inverse Lax-Wendroff Boundary Treatment for High Order Central Difference Schemes for Diffusion Equations. <i>Journal of Scientific Computing</i> , 2017 , 70, 576-607	2.3	9
344	Error estimates to smooth solutions of semi-discrete discontinuous Galerkin methods with quadrature rules for scalar conservation laws. <i>Numerical Methods for Partial Differential Equations</i> , 2017 , 33, 467-488	2.5	8
343	Stability analysis and error estimates of Lax-Wendroff discontinuous Galerkin methods for linear conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 1063-1087	1.8	3
342	Superconvergence of discontinuous Galerkin methods for 1-D linear hyperbolic equations with degenerate variable coefficients. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 2213-2235	1.8	12

341	Stability analysis and error estimates of local discontinuous Galerkin methods with implicit-explicit time-marching for the time-dependent fourth order PDEs. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 1931-1955	1.8	6
340	Stability of the fourth order Runge-Kutta method for time-dependent partial differential equations. <i>Annals of Mathematical Sciences and Applications</i> , 2017 , 2, 255-284	1.3	14
339	A New Multiscale Discontinuous Galerkin Method for the One-Dimensional Stationary Schrödinger Equation. <i>Journal of Scientific Computing</i> , 2016 , 66, 321-345	2.3	6
338	Stability analysis and error estimates of local discontinuous Galerkin methods with implicit-explicit time-marching for nonlinear convection-diffusion problems. <i>Applied Mathematics and Computation</i> , 2016 , 272, 237-258	2.7	33
337	High Order Fixed-Point Sweeping WENO Methods for Steady State of Hyperbolic Conservation Laws and Its Convergence Study. <i>Communications in Computational Physics</i> , 2016 , 20, 835-869	2.4	14
336	Stability analysis of the inverse Lax-Wendroff boundary treatment for high order upwind-biased finite difference schemes. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 299, 140-158	2.4	15
335	Analysis of the local discontinuous Galerkin method for the drift-diffusion model of semiconductor devices. <i>Science China Mathematics</i> , 2016 , 59, 115-140	0.8	19
334	Positivity-preserving cell-centered Lagrangian schemes for multi-material compressible flows: From first-order to high-orders. Part II: The two-dimensional case. <i>Journal of Computational Physics</i> , 2016 , 312, 416-442	4.1	23
333	Positivity-preserving cell-centered Lagrangian schemes for multi-material compressible flows: From first-order to high-orders. Part I: The one-dimensional case. <i>Journal of Computational Physics</i> , 2016 , 312, 385-415	4.1	21
332	High Order and High Resolution Numerical Schemes for Computational Aeroacoustics and Their Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2016 , 27-32	0.4	1
331	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter. <i>Communications in Computational Physics</i> , 2016 , 19, 944-969	2.4	39
330	A High Order Stable Conservative Method for Solving Hyperbolic Conservation Laws on Arbitrarily Distributed Point Clouds. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A3094-A3128	2.6	0
329	H(div) conforming and DG methods for incompressible Euler equations. <i>IMA Journal of Numerical Analysis</i> , 2016 , drw054	1.8	5
328	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	1.8	33
327	Bound-preserving discontinuous Galerkin methods for relativistic hydrodynamics. <i>Journal of Computational Physics</i> , 2016 , 315, 323-347	4.1	37
326	Inverse Lax-Wendroff procedure for numerical boundary conditions of convection-diffusion equations. <i>Journal of Computational Physics</i> , 2016 , 317, 276-300	4.1	23
325	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	4.1	89
324	High Order Positivity-Preserving Discontinuous Galerkin Methods for Radiative Transfer Equations. <i>SIAM Journal of Scientific Computing</i> , 2016 , 38, A2987-A3019	2.6	11

323	Discontinuous Galerkin Methods for Time-Dependent Convection Dominated Problems: Basics, Recent Developments and Comparison with Other Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2016 , 371-399	0.3	7
322	An efficient class of WENO schemes with adaptive order. <i>Journal of Computational Physics</i> , 2016 , 326, 780-804	4.1	118
321	Three-dimensional ghost-fluid large-scale numerical investigation on air explosion. <i>Computers and Fluids</i> , 2016 , 137, 70-79	2.8	11
320	Reformulating the HoogendoornBovy predictive dynamic user-optimal model in continuum space with anisotropic condition. <i>Transportation Research Part B: Methodological</i> , 2015 , 79, 189-217	7.2	7
319	Recovering Exponential Accuracy in Fourier Spectral Methods Involving Piecewise Smooth Functions with Unbounded Derivative Singularities. <i>Journal of Scientific Computing</i> , 2015 , 65, 1145-1165 ^{2,3}		2
318	High-order finite difference WENO schemes with positivity-preserving limiter for correlated random walk with density-dependent turning rates. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015 , 25, 1553-1588	3.5	5
317	High Order Finite Difference Methods with Subcell Resolution for Stiff Multispecies Discontinuity Capturing. <i>Communications in Computational Physics</i> , 2015 , 17, 317-336	2.4	13
316	Superconvergence of Discontinuous Galerkin Methods for Two-Dimensional Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , 2015 , 53, 1651-1671	2.4	39
315	Parallel adaptive mesh refinement method based on WENO finite difference scheme for the simulation of multi-dimensional detonation. <i>Journal of Computational Physics</i> , 2015 , 298, 161-175	4.1	25
314	A simple weighted essentially non-oscillatory limiter for the correction procedure via reconstruction (CPR) framework. <i>Applied Numerical Mathematics</i> , 2015 , 95, 173-198	2.5	16
313	Development and stability analysis of the inverse Lax-Wendroff boundary treatment for central compact schemes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015 , 49, 39-67	1.8	16
312	A priori error estimates to smooth solutions of the third order Runge-Kutta discontinuous Galerkin method for symmetrizable systems of conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015 , 49, 991-1018	1.8	12
311	Convergence of discontinuous Galerkin schemes for front propagation with obstacles. <i>Mathematics of Computation</i> , 2015 , 85, 2131-2159	1.6	2
310	Numerical Solution of the Viscous Surface Wave with Discontinuous Galerkin Method. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015 , 49, 1019-1046	1.8	1
309	Optimal error estimates for discontinuous Galerkin methods based on upwind-biased fluxes for linear hyperbolic equations. <i>Mathematics of Computation</i> , 2015 , 85, 1225-1261	1.6	52
308	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	4.1	38
307	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 ^{2,4}		71
306	A simple weighted essentially non-oscillatory limiter for the correction procedure via reconstruction (CPR) framework on unstructured meshes. <i>Applied Numerical Mathematics</i> , 2015 , 90, 146-157 ^{2,5}		14

305	Positivity-preserving Lagrangian scheme for multi-material compressible flow. <i>Journal of Computational Physics</i> , 2014 , 257, 143-168	4.1	50
304	Recovering exponential accuracy from collocation point values of smooth functions with end-point singularities. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 265, 83-95	2.4	3
303	Discontinuous Galerkin Method for Time-Dependent Problems: Survey and Recent Developments. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2014 , 25-62	0.5	17
302	Second order symmetry-preserving conservative Lagrangian scheme for compressible Euler equations in two-dimensional cylindrical coordinates. <i>Journal of Computational Physics</i> , 2014 , 272, 245-265	4.1	15
301	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	4.1	48
300	Error estimates for the third order explicit Runge-Kutta discontinuous Galerkin method for a linear hyperbolic equation in one-dimension with discontinuous initial data. <i>Numerische Mathematik</i> , 2014 , 126, 703-740	2.2	29
299	A discontinuous Galerkin scheme for front propagation with obstacles. <i>Numerische Mathematik</i> , 2014 , 126, 1-31	2.2	8
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