

# Chi-Wang Shu

## List of Publications by Citations

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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	Efficient Implementation of Weighted ENO Schemes. <i>Journal of Computational Physics</i> , <b>1996</b> , 126, 202-228	4.1	4049
447	Efficient implementation of essentially non-oscillatory shock-capturing schemes. <i>Journal of Computational Physics</i> , <b>1988</b> , 77, 439-471	4.1	3245
446	Efficient implementation of essentially non-oscillatory shock-capturing schemes, II. <i>Journal of Computational Physics</i> , <b>1989</b> , 83, 32-78	4.1	1947
445	The Local Discontinuous Galerkin Method for Time-Dependent Convection-Diffusion Systems. <i>SIAM Journal on Numerical Analysis</i> , <b>1998</b> , 35, 2440-2463	2.4	1506
444	The Runge-Kutta Discontinuous Galerkin Method for Conservation Laws V. <i>Journal of Computational Physics</i> , <b>1998</b> , 141, 199-224	4.1	1425
443	Strong Stability-Preserving High-Order Time Discretization Methods. <i>SIAM Review</i> , <b>2001</b> , 43, 89-112	7.4	1367
442	Total variation diminishing Runge-Kutta schemes. <i>Mathematics of Computation</i> , <b>1998</b> , 67, 73-85	1.6	1336
441	TVB Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws II: General Framework. <i>Mathematics of Computation</i> , <b>1989</b> , 52, 411	1.6	1188
440	Runge-Kutta Discontinuous Galerkin Methods for Convection-Dominated Problems. <i>Journal of Scientific Computing</i> , <b>2001</b> , 16, 173-261	2.3	1147
439	Monotonicity Preserving Weighted Essentially Non-oscillatory Schemes with Increasingly High Order of Accuracy. <i>Journal of Computational Physics</i> , <b>2000</b> , 160, 405-452	4.1	1047
438	TVB Runge-Kutta local projection discontinuous Galerkin finite element method for conservation laws III: One-dimensional systems. <i>Journal of Computational Physics</i> , <b>1989</b> , 84, 90-113	4.1	946
437	The Runge-Kutta Local Projection Discontinuous Galerkin Finite Element Method for Conservation Laws. IV: The Multidimensional Case. <i>Mathematics of Computation</i> , <b>1990</b> , 54, 545	1.6	778
436	Total-Variation-Diminishing Time Discretizations. <i>SIAM Journal on Scientific and Statistical Computing</i> , <b>1988</b> , 9, 1073-1084		653
435	Essentially non-oscillatory and weighted essentially non-oscillatory schemes for hyperbolic conservation laws. <i>Lecture Notes in Mathematics</i> , <b>1998</b> , 325-432	0.4	539
434	High Order Weighted Essentially Nonoscillatory Schemes for Convection Dominated Problems. <i>SIAM Review</i> , <b>2009</b> , 51, 82-126	7.4	520
433	Weighted Essentially Non-oscillatory Schemes on Triangular Meshes. <i>Journal of Computational Physics</i> , <b>1999</b> , 150, 97-127	4.1	513
432	High-Order Essentially Nonoscillatory Schemes for Hamilton-Jacobi Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>1991</b> , 28, 907-922	2.4	513

431	On the Gibbs Phenomenon and Its Resolution. <i>SIAM Review</i> , <b>1997</b> , 39, 644-668	7.4	481
430	Runge-Kutta discontinuous Galerkin method using WENO limiters II: Unstructured meshes. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 4330-4353	4.1	349
429	The Runge-Kutta local projection $\mathcal{P}^1$ -discontinuous-Galerkin finite element method for scalar conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>1991</b> , 25, 337-361	1.8	346
428	On positivity-preserving high order discontinuous Galerkin schemes for compressible Euler equations on rectangular meshes. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 8918-8934	4.1	309
427	On maximum-principle-satisfying high order schemes for scalar conservation laws. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 3091-3120	4.1	306
426	Hierarchical reconstruction for discontinuous Galerkin methods on unstructured grids with a WENO-type linear reconstruction and partial neighboring cells. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 2194-2212	4.1	259
425	A Technique of Treating Negative Weights in WENO Schemes. <i>Journal of Computational Physics</i> , <b>2002</b> , 175, 108-127	4.1	253
424	Runge-Kutta Discontinuous Galerkin Method Using WENO Limiters. <i>SIAM Journal of Scientific Computing</i> , <b>2005</b> , 26, 907-929	2.6	244
423	The Development of Discontinuous Galerkin Methods. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2000</b> , 3-50	0.3	238
422	Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method: one-dimensional case. <i>Journal of Computational Physics</i> , <b>2004</b> , 193, 115-135	4.1	237
421	TVB uniformly high-order schemes for conservation laws. <i>Mathematics of Computation</i> , <b>1987</b> , 49, 105-105.6	5.6	233
420	High-order Finite Difference and Finite Volume WENO Schemes and Discontinuous Galerkin Methods for CFD. <i>International Journal of Computational Fluid Dynamics</i> , <b>2003</b> , 17, 107-118	1.2	232
419	High order finite difference WENO schemes with the exact conservation property for the shallow water equations. <i>Journal of Computational Physics</i> , <b>2005</b> , 208, 206-227	4.1	229
418	Hierarchical reconstruction for spectral volume method on unstructured grids. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 5787-5802	4.1	223
417	A Local Discontinuous Galerkin Method for KdV Type Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 40, 769-791	2.4	214
416	High Order Strong Stability Preserving Time Discretizations. <i>Journal of Scientific Computing</i> , <b>2009</b> , 38, 251-289	2.3	210
415	Quadrature-Free Implementation of Discontinuous Galerkin Method for Hyperbolic Equations. <i>AIAA Journal</i> , <b>1998</b> , 36, 775-782	2.1	204
414	Locally divergence-free discontinuous Galerkin methods for the Maxwell equations. <i>Journal of Computational Physics</i> , <b>2004</b> , 194, 588-610	4.1	201

413	Positivity-preserving high order well-balanced discontinuous Galerkin methods for the shallow water equations. <i>Advances in Water Resources</i> , <b>2010</b> , 33, 1476-1493	4.7	190
412	Resolution of high order WENO schemes for complicated flow structures. <i>Journal of Computational Physics</i> , <b>2003</b> , 186, 690-696	4.1	188
411	Revisiting Hughes' dynamic continuum model for pedestrian flow and the development of an efficient solution algorithm. <i>Transportation Research Part B: Methodological</i> , <b>2009</b> , 43, 127-141	7.2	184
410	On the Construction, Comparison, and Local Characteristic Decomposition for High-Order Central WENO Schemes. <i>Journal of Computational Physics</i> , <b>2002</b> , 183, 187-209	4.1	173
409	Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method II: Two dimensional case. <i>Computers and Fluids</i> , <b>2005</b> , 34, 642-663	2.8	170
408	Local discontinuous Galerkin methods for nonlinear Schrödinger equations. <i>Journal of Computational Physics</i> , <b>2005</b> , 205, 72-97	4.1	167
407	High-order well-balanced finite volume WENO schemes for shallow water equation with moving water. <i>Journal of Computational Physics</i> , <b>2007</b> , 226, 29-58	4.1	158
406	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> , <b>2011</b> , 467, 2752-2776	2.4	156
405	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> , <b>2006</b> , 214, 567-598	4.1	155
404	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> , <b>1992</b> , 43, 81-98	2.4	155
403	Error Estimates to Smooth Solutions of Runge--Kutta Discontinuous Galerkin Methods for Scalar Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , <b>2004</b> , 42, 641-666	2.4	132
402	. <i>IEEE Electron Device Letters</i> , <b>1992</b> , 13, 26-28	4.4	132
401	A Discontinuous Galerkin Finite Element Method for Hamilton--Jacobi Equations. <i>SIAM Journal of Scientific Computing</i> , <b>1999</b> , 21, 666-690	2.6	129
400	On a cell entropy inequality for discontinuous Galerkin methods. <i>Mathematics of Computation</i> , <b>1994</b> , 62, 531-531	1.6	129
399	Numerical experiments on the accuracy of ENO and modified ENO schemes. <i>Journal of Scientific Computing</i> , <b>1990</b> , 5, 127-149	2.3	129
398	High-Order WENO Schemes for Hamilton--Jacobi Equations on Triangular Meshes. <i>SIAM Journal of Scientific Computing</i> , <b>2003</b> , 24, 1005-1030	2.6	122
397	Maximum-Principle-Satisfying and Positivity-Preserving High Order Discontinuous Galerkin Schemes for Conservation Laws on Triangular Meshes. <i>Journal of Scientific Computing</i> , <b>2012</b> , 50, 29-62	2.3	121
396	On positivity preserving finite volume schemes for Euler equations. <i>Numerische Mathematik</i> , <b>1996</b> , 73, 119-130	2.2	119

395	Positivity-preserving high order finite difference WENO schemes for compressible Euler equations. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 2245-2258	4.1	118
394	An efficient class of WENO schemes with adaptive order. <i>Journal of Computational Physics</i> , <b>2016</b> , 326, 780-804	4.1	118
393	Local Discontinuous Galerkin Methods for Partial Differential Equations with Higher Order Derivatives. <i>Journal of Scientific Computing</i> , <b>2002</b> , 17, 27-47	2.3	117
392	A Comparison of Troubled-Cell Indicators for Runge--Kutta Discontinuous Galerkin Methods Using Weighted Essentially Nonoscillatory Limiters. <i>SIAM Journal of Scientific Computing</i> , <b>2005</b> , 27, 995-1013	2.6	116
391	Positivity-preserving high order discontinuous Galerkin schemes for compressible Euler equations with source terms. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 1238-1248	4.1	114
390	Positivity-preserving method for high-order conservative schemes solving compressible Euler equations. <i>Journal of Computational Physics</i> , <b>2013</b> , 242, 169-180	4.1	112
389	A simple weighted essentially nonoscillatory limiter for RungeKutta discontinuous Galerkin methods. <i>Journal of Computational Physics</i> , <b>2013</b> , 232, 397-415	4.1	112
388	Strong Stability Preserving Runge-Kutta and Multistep Time Discretizations <b>2011</b> ,		108
387	RungeKutta discontinuous Galerkin method using a new type of WENO limiters on unstructured meshes. <i>Journal of Computational Physics</i> , <b>2013</b> , 248, 200-220	4.1	104
386	A high order ENO conservative Lagrangian type scheme for the compressible Euler equations. <i>Journal of Computational Physics</i> , <b>2007</b> , 227, 1567-1596	4.1	103
385	A WENO-solver for the transients of BoltzmannPoisson system for semiconductor devices: performance and comparisons with Monte Carlo methods. <i>Journal of Computational Physics</i> , <b>2003</b> , 184, 498-525	4.1	101
384	Enhanced accuracy by post-processing for finite element methods for hyperbolic equations. <i>Mathematics of Computation</i> , <b>2002</b> , 72, 577-607	1.6	101
383	Development of nonlinear weighted compact schemes with increasingly higher order accuracy. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 7294-7321	4.1	100
382	A Local Discontinuous Galerkin Method for the CamassaHolm Equation. <i>SIAM Journal on Numerical Analysis</i> , <b>2008</b> , 46, 1998-2021	2.4	99
381	Local discontinuous Galerkin methods for the CahnHilliard type equations. <i>Journal of Computational Physics</i> , <b>2007</b> , 227, 472-491	4.1	99
380	Entropy stable high order discontinuous Galerkin methods with suitable quadrature rules for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , <b>2017</b> , 345, 427-461	4.1	98
379	Local discontinuous Galerkin methods for nonlinear dispersive equations. <i>Journal of Computational Physics</i> , <b>2004</b> , 196, 751-772	4.1	97
378	Anti-diffusive flux corrections for high order finite difference WENO schemes. <i>Journal of Computational Physics</i> , <b>2005</b> , 205, 458-485	4.1	96

- 377 A High-Order Discontinuous Galerkin Method for 2D Incompressible Flows. *Journal of Computational Physics*, **2000**, 160, 577-596 4.1 95
- 376 Robust high order discontinuous Galerkin schemes for two-dimensional gaseous detonations. *Journal of Computational Physics*, **2012**, 231, 653-665 4.1 90
- 375 Superconvergence of Discontinuous Galerkin and Local Discontinuous Galerkin Schemes for Linear Hyperbolic and Convection-Diffusion Equations in One Space Dimension. *SIAM Journal on Numerical Analysis*, **2010**, 47, 4044-4072 2.4 89
- 374 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 4.1 89
- 373 Nonlinearly Stable Compact Schemes for Shock Calculations. *SIAM Journal on Numerical Analysis*, **1994**, 31, 607-627 2.4 88
- 372 High Order ENO and WENO Schemes for Computational Fluid Dynamics. *Lecture Notes in Computational Science and Engineering*, **1999**, 439-582 0.3 87
- 371 Stability Analysis and A Priori Error Estimates of the Third Order Explicit Runge-Kutta Discontinuous Galerkin Method for Scalar Conservation Laws. *SIAM Journal on Numerical Analysis*, **2010**, 48, 1038-1063 2.4 86
- 370 Positivity preserving semi-Lagrangian discontinuous Galerkin formulation: Theoretical analysis and application to the Vlasov-Boltzmann system. *Journal of Computational Physics*, **2011**, 230, 8386-8409 4.1 84
- 369 A discontinuous Galerkin finite element method for time dependent partial differential equations with higher order derivatives. *Mathematics of Computation*, **2007**, 77, 699-731 1.6 84
- 368 Central Discontinuous Galerkin Methods on Overlapping Cells with a Nonoscillatory Hierarchical Reconstruction. *SIAM Journal on Numerical Analysis*, **2007**, 45, 2442-2467 2.4 84
- 367 Locally Divergence-Free Discontinuous Galerkin Methods for MHD Equations. *Journal of Scientific Computing*, **2005**, 22-23, 413-442 2.3 84
- 366 Inverse Lax-Wendroff procedure for numerical boundary conditions of conservation laws. *Journal of Computational Physics*, **2010**, 229, 8144-8166 4.1 83
- 365 A numerical study for the performance of the Runge-Kutta discontinuous Galerkin method based on different numerical fluxes. *Journal of Computational Physics*, **2006**, 212, 540-565 4.1 81
- 364 Local discontinuous Galerkin methods for the Kuramoto-Sivashinsky equations and the Ito-type coupled KdV equations. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 3430-3447 5.7 80
- 363 AN ANALYSIS OF THREE DIFFERENT FORMULATIONS OF THE DISCONTINUOUS GALERKIN METHOD FOR DIFFUSION EQUATIONS. *Mathematical Models and Methods in Applied Sciences*, **2003**, 13, 395-413 3.5 77
- 362 Conservative high order semi-Lagrangian finite difference WENO methods for advection in incompressible flow. *Journal of Computational Physics*, **2011**, 230, 863-889 4.1 76
- 361 Numerical Convergence Study of Nearly Incompressible, Inviscid Taylor-Green Vortex Flow. *Journal of Scientific Computing*, **2005**, 24, 1-27 2.3 76
- 360 Interaction of a shock with a longitudinal vortex. *Journal of Fluid Mechanics*, **1997**, 337, 129-153 3.7 75



359	The discontinuous Galerkin method with Lax-Wendroff type time discretizations. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2005</b> , 194, 4528-4543	5.7	74
358	Computational Study of Shock Mitigation and Drag Reduction by Pulsed Energy Lines. <i>AIAA Journal</i> , <b>2006</b> , 44, 1720-1731	2.1	73
357	A discontinuous Galerkin finite element method for directly solving the Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , <b>2007</b> , 223, 398-415	4.1	72
356	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> , <b>2015</b> , 53, 206-227	2.4	71
355	On the Order of Accuracy and Numerical Performance of Two Classes of Finite Volume WENO Schemes. <i>Communications in Computational Physics</i> , <b>2011</b> , 9, 807-827	2.4	71
354	Finite Difference WENO Schemes with Lax-Wendroff-Type Time Discretizations. <i>SIAM Journal of Scientific Computing</i> , <b>2003</b> , 24, 2185-2198	2.6	71
353	An analysis of and a comparison between the discontinuous Galerkin and the spectral finite volume methods. <i>Computers and Fluids</i> , <b>2005</b> , 34, 581-592	2.8	71
352	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> , <b>2007</b> , 196, 3805-3822	5.7	70
351	A weighted essentially non-oscillatory numerical scheme for a multi-class traffic flow model on an inhomogeneous highway. <i>Journal of Computational Physics</i> , <b>2006</b> , 212, 739-756	4.1	68
350	Optimal Error Estimates of the Semidiscrete Local Discontinuous Galerkin Methods for High Order Wave Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>2012</b> , 50, 79-104	2.4	67
349	Maximum-principle-satisfying second order discontinuous Galerkin schemes for convection-diffusion equations on triangular meshes. <i>Journal of Computational Physics</i> , <b>2013</b> , 234, 295-316	4.1	67
348	A weighted essentially non-oscillatory numerical scheme for a multi-class Lighthill-Whitham-Richards traffic flow model. <i>Journal of Computational Physics</i> , <b>2003</b> , 191, 639-659	4.1	67
347	Analysis of Optimal Superconvergence of Discontinuous Galerkin Method for Linear Hyperbolic Equations. <i>SIAM Journal on Numerical Analysis</i> , <b>2012</b> , 50, 3110-3133	2.4	66
346	Efficient implementation of high order inverse Lax-Wendroff boundary treatment for conservation laws. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 2510-2527	4.1	65
345	Dynamic continuum pedestrian flow model with memory effect. <i>Physical Review E</i> , <b>2009</b> , 79, 066113	2.4	65
344	Analysis of a Local Discontinuous Galerkin Method for Linear Time-Dependent Fourth-Order Problems. <i>SIAM Journal on Numerical Analysis</i> , <b>2009</b> , 47, 3240-3268	2.4	63
343	High order conservative Lagrangian schemes with Lax-Wendroff type time discretization for the compressible Euler equations. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 8872-8891	4.1	61
342	A Numerical Resolution Study of High Order Essentially Non-oscillatory Schemes Applied to Incompressible Flow. <i>Journal of Computational Physics</i> , <b>1994</b> , 110, 39-46	4.1	61

341	Local discontinuous Galerkin methods for two classes of two-dimensional nonlinear wave equations. <i>Physica D: Nonlinear Phenomena</i> , <b>2005</b> , 208, 21-58	3.3	60
340	High Order Well-Balanced WENO Scheme for the Gas Dynamics Equations Under Gravitational Fields. <i>Journal of Scientific Computing</i> , <b>2013</b> , 54, 645-662	2.3	58
339	A New Smoothness Indicator for the WENO Schemes and Its Effect on the Convergence to Steady State Solutions. <i>Journal of Scientific Computing</i> , <b>2007</b> , 31, 273-305	2.3	58
338	High-order ENO schemes applied to two- and three-dimensional compressible flow. <i>Applied Numerical Mathematics</i> , <b>1992</b> , 9, 45-71	2.5	58
337	Geometric Shock-Capturing ENO Schemes for Subpixel Interpolation, Computation and Curve Evolution. <i>Graphical Models</i> , <b>1997</b> , 59, 278-301		56
336	L2stability 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> , <b>2008</b> , 42, 593-607	1.8	56
335	Essentially nonoscillatory spectral Fourier methods for shock wave calculations. <i>Mathematics of Computation</i> , <b>1989</b> , 52, 389-389	1.6	56
334	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> , <b>2005</b> , 26, 821-843	2.6	53
333	Optimal error estimates for discontinuous Galerkin methods based on upwind-biased fluxes for linear hyperbolic equations. <i>Mathematics of Computation</i> , <b>2015</b> , 85, 1225-1261	1.6	52
332	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> , <b>1995</b> , 64, 1081	1.6	52
331	An Alternative Formulation of Finite Difference Weighted ENO Schemes with Lax-Wendroff Time Discretization for Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , <b>2013</b> , 35, A1137-A1160	2.6	51
330	On the Advantage of Well-Balanced Schemes for Moving-Water Equilibria of the Shallow Water Equations. <i>Journal of Scientific Computing</i> , <b>2011</b> , 48, 339-349	2.3	51
329	A discontinuous Galerkin solver for Boltzmann-Poisson systems in nano devices. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2009</b> , 198, 3130-3150	5.7	51
328	Positivity-preserving Lagrangian scheme for multi-material compressible flow. <i>Journal of Computational Physics</i> , <b>2014</b> , 257, 143-168	4.1	50
327	Multidomain WENO Finite Difference Method with Interpolation at Subdomain Interfaces. <i>Journal of Scientific Computing</i> , <b>2003</b> , 19, 405-438	2.3	50
326	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> , <b>2003</b> , 185, 309-341	4.1	50
325	Optimal energy conserving local discontinuous Galerkin methods for second-order wave equation in heterogeneous media. <i>Journal of Computational Physics</i> , <b>2014</b> , 272, 88-107	4.1	48
324	Hermite WENO schemes for Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , <b>2005</b> , 204, 82-99	4.1	48



323	Superconvergence of Discontinuous Galerkin Methods for Scalar Nonlinear Conservation Laws in One Space Dimension. <i>SIAM Journal on Numerical Analysis</i> , <b>2012</b> , 50, 2336-2356	2.4	47
322	High-order finite volume WENO schemes for the shallow water equations with dry states. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 1026-1038	4.7	47
321	Multistage interaction of a shock wave and a strong vortex. <i>Physics of Fluids</i> , <b>2005</b> , 17, 116101	4.4	47
320	Numerical viscosity and resolution of high-order weighted essentially nonoscillatory schemes for compressible flows with high Reynolds numbers. <i>Physical Review E</i> , <b>2003</b> , 68, 046709	2.4	47
319	On the Gibbs phenomenon V: recovering exponential accuracy from collocation point values of a piecewise analytic function. <i>Numerische Mathematik</i> , <b>1995</b> , 71, 511-526	2.2	47
318	High resolution WENO simulation of 3D detonation waves. <i>Combustion and Flame</i> , <b>2013</b> , 160, 447-462	5.3	46
317	Superconvergence and time evolution of discontinuous Galerkin finite element solutions. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 9612-9627	4.1	46
316	An efficient discontinuous Galerkin method on triangular meshes for a pedestrian flow model. <i>International Journal for Numerical Methods in Engineering</i> , <b>2008</b> , 76, 337-350	2.4	45
315	Advanced Numerical Approximation of Nonlinear Hyperbolic Equations. <i>Lecture Notes in Mathematics</i> , <b>1998</b> ,	0.4	45
314	A reactive dynamic continuum user equilibrium model for bi-directional pedestrian flows. <i>Acta Mathematica Scientia</i> , <b>2009</b> , 29, 1541-1555	0.7	44
313	High-Order Well-Balanced Finite Difference WENO Schemes for a Class of Hyperbolic Systems with Source Terms. <i>Journal of Scientific Computing</i> , <b>2006</b> , 27, 477-494	2.3	44
312	Numerical Comparison of WENO Finite Volume and Runge-Kutta Discontinuous Galerkin Methods. <i>Journal of Scientific Computing</i> , <b>2001</b> , 16, 145-171	2.3	44
311	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> , <b>1996</b> , 33, 280-290	2.4	44
310	High Order Finite Difference WENO Schemes for Nonlinear Degenerate Parabolic Equations. <i>SIAM Journal of Scientific Computing</i> , <b>2011</b> , 33, 939-965	2.6	43
309	2D semiconductor device simulations by WENO-Boltzmann schemes: Efficiency, boundary conditions and comparison to Monte Carlo methods. <i>Journal of Computational Physics</i> , <b>2006</b> , 214, 55-80	4.1	43
308	Efficient time discretization for local discontinuous Galerkin methods. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2007</b> , 8, 677-693	1.3	43
307	A new type of multi-resolution WENO schemes with increasingly higher order of accuracy. <i>Journal of Computational Physics</i> , <b>2018</b> , 375, 659-683	4.1	43
306	A new class of central compact schemes with spectral-like resolution I: Linear schemes. <i>Journal of Computational Physics</i> , <b>2013</b> , 248, 235-256	4.1	42

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