

# Jianxian Qiu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4061308/publications.pdf>

Version: 2024-02-01

97  
papers

4,175  
citations

147726

31  
h-index

114418

63  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Runge-Kutta discontinuous Galerkin method using WENO limiters II: Unstructured meshes. <i>Journal of Computational Physics</i> , 2008, 227, 4330-4353.	1.9	426
2	Hermite WENO Schemes and Their Application as Limiters for Runge-Kutta Discontinuous Galerkin Method, III: Unstructured Meshes. <i>Journal of Scientific Computing</i> , 2009, 39, 293-321.	1.1	342
3	Runge-Kutta Discontinuous Galerkin Method Using WENO Limiters. <i>SIAM Journal of Scientific Computing</i> , 2005, 26, 907-929.	1.3	326
4	Hermite WENO schemes and their application as limiters for Runge-Kutta discontinuous Galerkin method: one-dimensional case. <i>Journal of Computational Physics</i> , 2004, 193, 115-135.	1.9	317
5	On the Construction, Comparison, and Local Characteristic Decomposition for High-Order Central WENO Schemes. <i>Journal of Computational Physics</i> , 2002, 183, 187-209.	1.9	217
6	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.	1.3	216
7	A new fifth order finite difference WENO scheme for solving hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2016, 318, 110-121.	1.9	167
8	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.	1.3	153
9	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.	1.9	139
10	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.	1.9	98
11	The discontinuous Galerkin method with Lax-Wendroff type time discretizations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4528-4543.	3.4	92
12	Finite Difference WENO Schemes with Lax-Wendroff-Type Time Discretizations. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 2185-2198.	1.3	90
13	A New Type of Finite Volume WENO Schemes for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2017, 73, 1338-1359.	1.1	71
14	Hermite WENO schemes for Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , 2005, 204, 82-99.	1.9	64
15	Positivity-preserving DG and central DG methods for ideal MHD equations. <i>Journal of Computational Physics</i> , 2013, 238, 255-280.	1.9	59
16	Hybrid weighted essentially non-oscillatory schemes with different indicators. <i>Journal of Computational Physics</i> , 2010, 229, 8105-8129.	1.9	58
17	Simulations of detonation wave propagation in rectangular ducts using a three-dimensional WENO scheme. <i>Combustion and Flame</i> , 2008, 154, 644-659.	2.8	52
18	Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter. <i>Communications in Computational Physics</i> , 2016, 19, 944-969.	0.7	50

#	ARTICLE	IF	CITATIONS
19	Local Discontinuous Galerkin Finite Element Method and Error Estimates for One Class of Sobolev Equation. <i>Journal of Scientific Computing</i> , 2009, 41, 436-460.	1.1	41
20	New Finite Volume Weighted Essentially Nonoscillatory Schemes on Triangular Meshes. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A903-A928.	1.3	41
21	Finite Difference Hermite WENO Schemes for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2015, 63, 548-572.	1.1	40
22	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.	0.7	35
23	Dispersion and Dissipation Errors of Two Fully Discrete Discontinuous Galerkin Methods. <i>Journal of Scientific Computing</i> , 2013, 55, 552-574.	1.1	34
24	A new third order finite volume weighted essentially non-oscillatory scheme on tetrahedral meshes. <i>Journal of Computational Physics</i> , 2017, 349, 220-232.	1.9	34
25	A new hybrid WENO scheme for hyperbolic conservation laws. <i>Computers and Fluids</i> , 2019, 179, 422-436.	1.3	34
26	An Eulerian-Lagrangian WENO finite volume scheme for advection problems. <i>Journal of Computational Physics</i> , 2012, 231, 4028-4052.	1.9	33
27	Maximum principle in linear finite element approximations of anisotropic diffusion-convection-reaction problems. <i>Numerische Mathematik</i> , 2014, 127, 515-537.	0.9	33
28	A class of the fourth order finite volume Hermite weighted essentially non-oscillatory schemes. <i>Science in China Series A: Mathematics</i> , 2008, 51, 1549-1560.	0.5	32
29	Hybrid Well-balanced WENO Schemes with Different Indicators for Shallow Water Equations. <i>Journal of Scientific Computing</i> , 2012, 51, 527-559.	1.1	32
30	Finite Difference Hermite WENO Schemes for Conservation Laws, II: An Alternative Approach. <i>Journal of Scientific Computing</i> , 2016, 66, 598-624.	1.1	32
31	Runge-Kutta discontinuous Galerkin methods for compressible two-medium flow simulations: One-dimensional case. <i>Journal of Computational Physics</i> , 2007, 222, 353-373.	1.9	31
32	Adaptive Runge-Kutta discontinuous Galerkin methods using different indicators: One-dimensional case. <i>Journal of Computational Physics</i> , 2009, 228, 6957-6976.	1.9	30
33	A hybrid Hermite WENO scheme for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2020, 405, 109175.	1.9	28
34	WENO schemes with Lax-Wendroff type time discretizations for Hamilton-Jacobi equations. <i>Journal of Computational and Applied Mathematics</i> , 2007, 200, 591-605.	1.1	26
35	Directly solving the Hamilton-Jacobi equations by Hermite WENO Schemes. <i>Journal of Computational Physics</i> , 2016, 307, 423-445.	1.9	26
36	RKDG methods with WENO type limiters and conservative interfacial procedure for one-dimensional compressible multi-medium flow simulations. <i>Applied Numerical Mathematics</i> , 2011, 61, 554-580.	1.2	25

#	ARTICLE	IF	CITATIONS
37	Positivity-Preserving High Order Finite Volume HWENO Schemes for Compressible Euler Equations. <i>Journal of Scientific Computing</i> , 2016, 68, 464-483.	1.1	24
38	High-order central Hermite WENO schemes on staggered meshes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2015, 281, 148-176.	1.9	23
39	High-order central Hermite WENO schemes: Dimension-by-dimension moment-based reconstructions. <i>Journal of Computational Physics</i> , 2016, 318, 222-251.	1.9	23
40	Runge-Kutta Discontinuous Galerkin Method Using Weno-Type Limiters: Three-Dimensional Unstructured Meshes. <i>Communications in Computational Physics</i> , 2012, 11, 985-1005.	0.7	22
41	A Moving Mesh WENO Method for One-Dimensional Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A2317-A2343.	1.3	22
42	An h-adaptive RKDG method with troubled-cell indicator for two-dimensional hyperbolic conservation laws. <i>Advances in Computational Mathematics</i> , 2013, 39, 445-463.	0.8	21
43	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.	1.9	21
44	WENO Schemes and Their Application as Limiters for RKDG Methods Based on Trigonometric Approximation Spaces. <i>Journal of Scientific Computing</i> , 2013, 55, 606-644.	1.1	20
45	Hermite WENO schemes for Hamilton-Jacobi equations on unstructured meshes. <i>Journal of Computational Physics</i> , 2013, 254, 76-92.	1.9	19
46	Finite difference Hermite WENO schemes for the Hamilton-Jacobi equations. <i>Journal of Computational Physics</i> , 2017, 337, 27-41.	1.9	19
47	A new fifth order finite difference WENO scheme for Hamilton-Jacobi equations. <i>Numerical Methods for Partial Differential Equations</i> , 2017, 33, 1095-1113.	2.0	18
48	A Hermite WENO scheme with artificial linear weights for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2020, 417, 109583.	1.9	18
49	Simulations of Shallow Water Equations with Finite Difference Lax-Wendroff Weighted Essentially Non-oscillatory Schemes. <i>Journal of Scientific Computing</i> , 2011, 47, 281-302.	1.1	15
50	A New Type of Modified WENO Schemes for Solving Hyperbolic Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A1089-A1113.	1.3	15
51	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.	1.2	15
52	A Numerical Comparison of the Lax-Wendroff Discontinuous Galerkin Method Based on Different Numerical Fluxes. <i>Journal of Scientific Computing</i> , 2007, 30, 345-367.	1.1	14
53	RKDG methods with WENO limiters for unsteady cavitating flow. <i>Computers and Fluids</i> , 2012, 57, 52-65.	1.3	14
54	A conservative semi-Lagrangian HWENO method for the Vlasov equation. <i>Journal of Computational Physics</i> , 2016, 323, 95-114.	1.9	14

#	ARTICLE	IF	CITATIONS
55	A quasi-Lagrangian moving mesh discontinuous Galerkin method for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2019, 396, 544-578.	1.9	14
56	Local DG method using WENO type limiters for convection-diffusion problems. <i>Journal of Computational Physics</i> , 2011, 230, 4353-4375.	1.9	13
57	A New Lax-Wendroff Discontinuous Galerkin Method with Superconvergence. <i>Journal of Scientific Computing</i> , 2015, 65, 299-326.	1.1	13
58	Positivity-Preserving Runge-Kutta Discontinuous Galerkin Method on Adaptive Cartesian Grid for Strong Moving Shock. <i>Numerical Mathematics</i> , 2016, 9, 87-110.	0.6	13
59	A Modified Fifth Order Finite Difference Hermite WENO Scheme for Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2020, 85, 1.	1.1	13
60	Hybrid WENO schemes with different indicators on curvilinear grids. <i>Advances in Computational Mathematics</i> , 2014, 40, 747-772.	0.8	12
61	A hybrid LDG-HWENO scheme for KdV-type equations. <i>Journal of Computational Physics</i> , 2016, 313, 754-774.	1.9	12
62	An Adaptive Moving Mesh Finite Element Solution of the Regularized Long Wave Equation. <i>Journal of Scientific Computing</i> , 2018, 74, 122-144.	1.1	12
63	High order positivity-preserving discontinuous Galerkin schemes for radiative transfer equations on triangular meshes. <i>Journal of Computational Physics</i> , 2019, 397, 108811.	1.9	12
64	Local-Structure-Preserving Discontinuous Galerkin Methods with Lax-Wendroff Type Time Discretizations for Hamilton-Jacobi Equations. <i>Journal of Scientific Computing</i> , 2011, 47, 239-257.	1.1	11
65	A moving mesh finite difference method for equilibrium radiation diffusion equations. <i>Journal of Computational Physics</i> , 2015, 298, 661-677.	1.9	11
66	A high-order Runge-Kutta discontinuous Galerkin method with a subcell limiter on adaptive unstructured grids for two-dimensional compressible inviscid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 91, 367-394.	0.9	11
67	A Quasi-Conservative Discontinuous Galerkin Method for Multi-component Flows Using the Non-oscillatory Kinetic Flux. <i>Journal of Scientific Computing</i> , 2021, 87, 1.	1.1	10
68	Positivity-preserving high order finite volume hybrid Hermite WENO schemes for compressible Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2021, 445, 110596.	1.9	10
69	Multi-resolution HWENO schemes for hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2021, 446, 110653.	1.9	10
70	A simple, high-order and compact WENO limiter for RKDG method. <i>Computers and Mathematics With Applications</i> , 2020, 79, 317-336.	1.4	9
71	High-Order Conservative Positivity-Preserving DG-Interpolation for Deforming Meshes and Application to Moving Mesh DG Simulation of Radiative Transfer. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A3109-A3135.	1.3	9
72	A Hybrid Finite Difference WENO-ZQ Fast Sweeping Method for Static Hamilton-Jacobi Equations. <i>Journal of Scientific Computing</i> , 2020, 83, 1.	1.1	9

#	ARTICLE	IF	CITATIONS
73	A High-Order Well-Balanced Positivity-Preserving Moving Mesh DG Method for the Shallow Water Equations With Non-Flat Bottom Topography. <i>Journal of Scientific Computing</i> , 2021, 87, 1.	1.1	9
74	Dimension-by-dimension moment-based central Hermite WENO schemes for directly solving Hamilton-Jacobi equations. <i>Advances in Computational Mathematics</i> , 2017, 43, 1023-1058.	0.8	8
75	Adaptive Runge-Kutta discontinuous Galerkin method for complex geometry problems on Cartesian grid. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 73, 847-868.	0.9	7
76	Finite Volume Hermite WENO Schemes for Solving the Hamilton-Jacobi Equation. <i>Communications in Computational Physics</i> , 2014, 15, 959-980.	0.7	7
77	An h-Adaptive RKDG Method for the Vlasov-Poisson System. <i>Journal of Scientific Computing</i> , 2016, 69, 1346-1365.	1.1	7
78	An h-Adaptive RKDG Method for the Two-Dimensional Incompressible Euler Equations and the Guiding Center Vlasov Model. <i>Journal of Scientific Computing</i> , 2017, 73, 1316-1337.	1.1	7
79	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.	1.2	7
80	A Conservative Semi-Lagrangian Hybrid Hermite WENO Scheme for Linear Transport Equations and the Nonlinear Vlasov-Poisson System. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, A3580-A3606.	1.3	7
81	Finite volume Hermite WENO schemes for solving the Hamilton-Jacobi equations II: Unstructured meshes. <i>Computers and Mathematics With Applications</i> , 2014, 68, 1137-1150.	1.4	6
82	High order finite difference hermite WENO schemes for the Hamilton-Jacobi equations on unstructured meshes. <i>Computers and Fluids</i> , 2019, 183, 53-65.	1.3	5
83	A Comparison of the Performance of Limiters for Runge-Kutta Discontinuous Galerkin Methods. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 365-390.	0.7	5
84	Weighted essential non-oscillatory schemes for tidal bore on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 59, 611-630.	0.9	4
85	Finite Volume HWENO Schemes for Nonconvex Conservation Laws. <i>Journal of Scientific Computing</i> , 2018, 75, 65-82.	1.1	4
86	A high order conservative finite difference scheme for compressible two-medium flows. <i>Journal of Computational Physics</i> , 2021, 445, 110597.	1.9	4
87	A compact and efficient high-order gas-kinetic scheme. <i>Journal of Computational Physics</i> , 2021, 447, 110661.	1.9	4
88	A Quasi-Conservative Discontinuous Galerkin Method for Multi-component Flows Using the Non-oscillatory Kinetic Flux II: ALE Framework. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	1.1	4
89	New Finite Difference Hermite WENO Schemes for Hamilton-Jacobi Equations. <i>Journal of Scientific Computing</i> , 2020, 83, 1.	1.1	3
90	New Finite Difference Mapped WENO Schemes with Increasingly High Order of Accuracy. <i>Communications on Applied Mathematics and Computation</i> , 2023, 5, 64-96.	0.7	3

#	ARTICLE	IF	CITATIONS
91	High Order Residual Distribution for Steady State Problems for Hyperbolic Conservation Laws. Journal of Scientific Computing, 2019, 79, 891-913.	1.1	2
92	Compact ETD RK scheme for nonlinear dispersive wave equations. Computational and Applied Mathematics, 2021, 40, 1.	1.0	2
93	High order residual distribution conservative finite difference HWENO scheme for steady state problems. Journal of Computational Physics, 2022, 457, 111045.	1.9	2
94	A fourth-order conservative semi-Lagrangian finite volume WENO scheme without operator splitting for kinetic and fluid simulations. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 114973.	3.4	2
95	Moving mesh finite difference solution of non-equilibrium radiation diffusion equations. Numerical Algorithms, 2019, 82, 1409-1440.	1.1	1
96	WEIGHTED NON-OSCILLATORY LIMITERS FOR RUNGE-KUTTA DISCONTINUOUS GALERKIN METHODS. Advances in Computational Fluid Dynamics, 2011, , 153-184.	0.1	0
97	Preface to the Focused Issue on WENO Schemes. Communications on Applied Mathematics and Computation, 2023, 5, 1-2.	0.7	0