

Yulong Xing

List of Publications by Year in descending order

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42
papers

1,840
citations

430874

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276875

41
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42
all docs

42
docs citations

42
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Discontinuous Galerkin Methods for the abcd Nonlinear Boussinesq System. Communications on Applied Mathematics and Computation, 2022, 4, 381-416.	1.7	5
2	Finite Element Approximations of a Class of Nonlinear Stochastic Wave Equations with Multiplicative Noise. Journal of Scientific Computing, 2022, 91, 1.	2.3	3
3	Multi-symplectic discontinuous Galerkin methods for the stochastic Maxwell equations with additive noise. Journal of Computational Physics, 2022, 461, 111199.	3.8	7
4	Energy conserving discontinuous Galerkin method with scalar auxiliary variable technique for the nonlinear Dirac equation. Journal of Computational Physics, 2022, 463, 111278.	3.8	2
5	High order well-balanced asymptotic preserving finite difference WENO schemes for the shallow water equations in all Froude numbers. Journal of Computational Physics, 2022, 463, 111255.	3.8	11
6	Optimal Energy Conserving Local Discontinuous Galerkin Methods for Elastodynamics: Semi and Fully Discrete Error Analysis. Journal of Scientific Computing, 2021, 87, 1.	2.3	3
7	Optimal error estimates of discontinuous Galerkin methods with generalized fluxes for wave equations on unstructured meshes. Mathematics of Computation, 2021, 90, 1741-1772.	2.1	7
8	High order sign-preserving and well-balanced exponential Runge-Kutta discontinuous Galerkin methods for the shallow water equations with friction. Journal of Computational Physics, 2021, 444, 110543.	3.8	6
9	Uniformly High-Order Structure-Preserving Discontinuous Galerkin Methods for Euler Equations with Gravitation: Positivity and Well-Balancedness. SIAM Journal of Scientific Computing, 2021, 43, A472-A510.	2.8	14
10	Energy conserving local discontinuous Galerkin methods for the improved Boussinesq equation. Journal of Computational Physics, 2020, 401, 109002.	3.8	10
11	A discontinuous Galerkin method for the Aw-Rascle traffic flow model on networks. Journal of Computational Physics, 2020, 406, 109183.	3.8	8
12	On structure-preserving discontinuous Galerkin methods for Hamiltonian partial differential equations: Energy conservation and multi-symplecticity. Journal of Computational Physics, 2020, 419, 109662.	3.8	8
13	Entropy Stable and Well-Balanced Discontinuous Galerkin Methods for the Nonlinear Shallow Water Equations. Journal of Scientific Computing, 2020, 83, 1.	2.3	12
14	High Order Still-Water and Moving-Water Equilibria Preserving Discontinuous Galerkin Methods for the Ripa Model. Journal of Scientific Computing, 2020, 82, 1.	2.3	6
15	Optimal Energy Conserving and Energy Dissipative Local Discontinuous Galerkin Methods for the Benjamin-Bona-Mahony Equation. Journal of Scientific Computing, 2020, 83, 1.	2.3	10
16	Well-balanced discontinuous Galerkin methods for the one-dimensional blood flow through arteries model with man-at-eternal-rest and living-man equilibria. Computers and Fluids, 2020, 203, 104493.	2.5	15
17	Well-balanced finite difference weighted essentially non-oscillatory schemes for the Euler equations with static gravitational fields. Computers and Mathematics With Applications, 2018, 75, 2071-2085.	2.7	18
18	Local Discontinuous Galerkin Methods for the Boussinesq Coupled BBM System. Journal of Scientific Computing, 2018, 75, 536-559.	2.3	8

#	ARTICLE	IF	CITATIONS
19	Positivity-preserving well-balanced discontinuous Galerkin methods for the shallow water flows in open channels. <i>Advances in Water Resources</i> , 2018, 115, 172-184.	3.8	12
20	Well-balanced discontinuous Galerkin methods with hydrostatic reconstruction for the Euler equations with gravitation. <i>Journal of Computational Physics</i> , 2018, 352, 445-462.	3.8	36
21	Local Discontinuous Galerkin Methods for the Khokhlovâ€™Zabolotskayaâ€™Kuznetsov Equation. <i>Journal of Scientific Computing</i> , 2017, 73, 593-616.	2.3	5
22	An Invariant Preserving Discontinuous Galerkin Method for the Camassa–Holm Equation. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A1919-A1934.	2.8	22
23	A Posteriori Error Estimates for Conservative Local Discontinuous Galerkin Methods for the Generalized Korteweg-de Vries Equation. <i>Communications in Computational Physics</i> , 2016, 20, 250-278.	1.7	18
24	High order finite volume WENO schemes for the shallow water flows through channels with irregular geometry. <i>Journal of Computational and Applied Mathematics</i> , 2016, 299, 229-244.	2.0	24
25	Application of positivity-preserving well-balanced discontinuous Galerkin method in computational hydrology. <i>Computers and Fluids</i> , 2016, 139, 112-119.	2.5	6
26	High order finite volume WENO schemes for the Euler equations under gravitational fields. <i>Journal of Computational Physics</i> , 2016, 316, 145-163.	3.8	38
27	L^2 stable discontinuous Galerkin methods for one-dimensional two-way wave equations. <i>Mathematics of Computation</i> , 2016, 86, 121-155.	2.1	22
28	Well-Balanced Discontinuous Galerkin Methods for the Euler Equations Under Gravitational Fields. <i>Journal of Scientific Computing</i> , 2016, 67, 493-513.	2.3	28
29	Optimal energy conserving local discontinuous Galerkin methods for second-order wave equation in heterogeneous media. <i>Journal of Computational Physics</i> , 2014, 272, 88-107.	3.8	59
30	Exactly well-balanced discontinuous Galerkin methods for the shallow water equations with moving water equilibrium. <i>Journal of Computational Physics</i> , 2014, 257, 536-553.	3.8	86
31	Superconvergence of the local discontinuous Galerkin method for the linearized Kortewegâ€™de Vries equation. <i>Journal of Computational and Applied Mathematics</i> , 2014, 255, 441-455.	2.0	28
32	Positivity-Preserving Well-Balanced Discontinuous Galerkin Methods for the Shallow Water Equations on Unstructured Triangular Meshes. <i>Journal of Scientific Computing</i> , 2013, 57, 19-41.	2.3	82
33	High Order Well-Balanced WENO Scheme for the Gas Dynamics Equations Under Gravitational Fields. <i>Journal of Scientific Computing</i> , 2013, 54, 645-662.	2.3	81
34	Energy conserving local discontinuous Galerkin methods for wave propagation problems. <i>Inverse Problems and Imaging</i> , 2013, 7, 967-986.	1.1	43
35	On the Advantage of Well-Balanced Schemes for Moving-Water Equilibria of the Shallow Water Equations. <i>Journal of Scientific Computing</i> , 2011, 48, 339-349.	2.3	70
36	High-order finite volume WENO schemes for the shallow water equations with dry states. <i>Advances in Water Resources</i> , 2011, 34, 1026-1038.	3.8	64

#	ARTICLE	IF	CITATIONS
37	Moist multi-scale models for the hurricane embryo. <i>Journal of Fluid Mechanics</i> , 2010, 657, 478-501.	3.4	18
38	Positivity-preserving high order well-balanced discontinuous Galerkin methods for the shallow water equations. <i>Advances in Water Resources</i> , 2010, 33, 1476-1493.	3.8	252
39	High-order well-balanced finite volume WENO schemes for shallow water equation with moving water. <i>Journal of Computational Physics</i> , 2007, 226, 29-58.	3.8	202
40	High order well-balanced finite volume WENO schemes and discontinuous Galerkin methods for a class of hyperbolic systems with source terms. <i>Journal of Computational Physics</i> , 2006, 214, 567-598.	3.8	210
41	High order finite difference WENO schemes with the exact conservation property for the shallow water equations. <i>Journal of Computational Physics</i> , 2005, 208, 206-227.	3.8	281
42	Energy conserving and well-balanced discontinuous Galerkin methods for the Euler-Poisson equations in spherical symmetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	0