Rong-Pei Zhang

List of Publications by Citations

24 papers	159 citations	8 h-index	11 g-index
26 ext. papers	189 ext. citations	2 avg, IF	2.85 L-index

#	Paper	IF	Citations
24	Direct discontinuous Galerkin method for nonlinear reaction–diffusion systems in pattern formation. *Applied Mathematical Modelling*, **2014**, 38, 1612-1621	4.5	24
23	The local discontinuous Galerkin method for Burgers–Huxley and Burgers–Fisher equations. *Applied Mathematics and Computation*, **2012**, 218, 8773-8778	2.7	21
22	Solving coupled nonlinear Schrödinger equations via a direct discontinuous Galerkin method. *Chinese Physics B*, **2012**, 21, 030202	1.2	18
21	A combined discontinuous Galerkin method for the dipolar Bose–Einstein condensation. *Journal of Computational Physics*, **2014**, 275, 363-376	4.1	14
20	A conservative local discontinuous Galerkin method for the solution of nonlinear Schrödinger equation in two dimensions. *Science China Mathematics*, **2017**, 60, 2515-2530	0.8	11
19	Direct discontinuous Galerkin method for the generalized Burgers–Fisher equation. *Chinese Physics B*, **2012**, 21, 090206	1.2	10
18	Local discontinuous Galerkin method for solving Burgers and coupled Burgers equations. *Chinese Physics B*, **2011**, 20, 110205	1.2	9
17	Operator splitting combined with positivity-preserving discontinuous Galerkin method for the chemotaxis model. *Journal of Computational and Applied Mathematics*, **2016**, 302, 312-326	2.4	8
16	A conservative spectral collocation method for the nonlinear Schrödinger equation in two dimensions. *Applied Mathematics and Computation*, **2017**, 310, 194-203	2.7	7
15	A conservative numerical method for the fractional nonlinear Schrödinger equation in two dimensions. *Science China Mathematics*, **2019**, 62, 1997-2014	0.8	6
14	Modified Burgers' equation by the local discontinuous Galerkin method. *Chinese Physics B*, **2013**, 22, 030210	1.2	6
13	A new nonlinear Galerkin finite element method for the computation of reaction diffusion equations. *Journal of Mathematical Analysis and Applications*, **2016**, 434, 136-148	1.1	5
12	A Krylov semi-implicit discontinuous Galerkin method for the computation of ground and excited states in Bose–Einstein condensates. *Applied Mathematical Modelling*, **2016**, 40, 5096-5110	4.5	3
11	Weighted Interior Penalty Method with Semi-Implicit Integration Factor Method for Non-Equilibrium Radiation Diffusion Equation. *Communications in Computational Physics*, **2013**, 14, 1287-1303	2.4	3
10	The numerical study for the ground and excited states of fractional Bose–Einstein condensates. *Computers and Mathematics With Applications*, **2019**, 78, 1548-1561	2.7	2
9	An RKDG finite element method for the one-dimensional inviscid compressible gas dynamics equations in a Lagrangian coordinate. *Chinese Physics B*, **2013**, 22, 020202	1.2	2
8	A New Discontinuous Galerkin Method for Parabolic Equations with Discontinuous Coefficient. *Numerical Mathematics*, **2013**, 6, 325-342	1.5	2

LIST OF PUBLICATIONS

7	Solution of Multimaterial Equilibrium Radiation Diffusion Problems by using the Discontinuous Galerkin Method. *Chinese Physics Letters*, **2012**, 29, 110201	1.8	2
6	Compact implicit integration factor methods for some complex-valued nonlinear equations. *Chinese Physics B*, **2012**, 21, 040205	1.2	2
5	A compact finite difference method for reaction-diffusion problems using compact integration factor methods in high spatial dimensions. *Advances in Difference Equations*, **2018**, 2018,	3.6	2
4	A new finite difference scheme for a dissipative cubic nonlinear Schrödinger equation. *Chinese Physics B*, **2011**, 20, 030204	1.2	1
3	Local discontinuous Galerkin method for solving an N-carrier system. *Numerical Methods for Partial Differential Equations*, **2012**, 28, 2010-2020	2.5	
2	A semi-implicit integration factor discontinuous Galerkin method for the non-linear heat equation. *Thermal Science*, **2019**, 23, 1623-1628	1.2	
1	The Local Discontinuous Galerkin Method with Generalized Alternating Flux Applied to the Second-Order Wave Equations. *Complexity*, **2020**, 2020, 1-9	1.6	