

# Rong-Pei Zhang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8034499/rong-pei-zhang-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	The Local Discontinuous Galerkin Method with Generalized Alternating Flux Applied to the Second-Order Wave Equations. <i>Complexity</i> , <b>2020</b> , 2020, 1-9	1.6	
23	A conservative numerical method for the fractional nonlinear Schrödinger equation in two dimensions. <i>Science China Mathematics</i> , <b>2019</b> , 62, 1997-2014	0.8	6
22	The numerical study for the ground and excited states of fractional Bose-Einstein condensates. <i>Computers and Mathematics With Applications</i> , <b>2019</b> , 78, 1548-1561	2.7	2
21	A semi-implicit integration factor discontinuous Galerkin method for the non-linear heat equation. <i>Thermal Science</i> , <b>2019</b> , 23, 1623-1628	1.2	
20	A compact finite difference method for reaction-diffusion problems using compact integration factor methods in high spatial dimensions. <i>Advances in Difference Equations</i> , <b>2018</b> , 2018,	3.6	2
19	A conservative spectral collocation method for the nonlinear Schrödinger equation in two dimensions. <i>Applied Mathematics and Computation</i> , <b>2017</b> , 310, 194-203	2.7	7
18	A conservative local discontinuous Galerkin method for the solution of nonlinear Schrödinger equation in two dimensions. <i>Science China Mathematics</i> , <b>2017</b> , 60, 2515-2530	0.8	11
17	Operator splitting combined with positivity-preserving discontinuous Galerkin method for the chemotaxis model. <i>Journal of Computational and Applied Mathematics</i> , <b>2016</b> , 302, 312-326	2.4	8
16	A Krylov semi-implicit discontinuous Galerkin method for the computation of ground and excited states in Bose-Einstein condensates. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 5096-5110	4.5	3
15	A new nonlinear Galerkin finite element method for the computation of reaction diffusion equations. <i>Journal of Mathematical Analysis and Applications</i> , <b>2016</b> , 434, 136-148	1.1	5
14	Direct discontinuous Galerkin method for nonlinear reaction-diffusion systems in pattern formation. <i>Applied Mathematical Modelling</i> , <b>2014</b> , 38, 1612-1621	4.5	24
13	A combined discontinuous Galerkin method for the dipolar Bose-Einstein condensation. <i>Journal of Computational Physics</i> , <b>2014</b> , 275, 363-376	4.1	14
12	Modified Burgers' equation by the local discontinuous Galerkin method. <i>Chinese Physics B</i> , <b>2013</b> , 22, 030202	2.10	6
11	An RKDG finite element method for the one-dimensional inviscid compressible gas dynamics equations in a Lagrangian coordinate. <i>Chinese Physics B</i> , <b>2013</b> , 22, 020202	1.2	2
10	A New Discontinuous Galerkin Method for Parabolic Equations with Discontinuous Coefficient. <i>Numerical Mathematics</i> , <b>2013</b> , 6, 325-342	1.5	2
9	Weighted Interior Penalty Method with Semi-Implicit Integration Factor Method for Non-Equilibrium Radiation Diffusion Equation. <i>Communications in Computational Physics</i> , <b>2013</b> , 14, 1287-1303	2.4	3
8	Solving coupled nonlinear Schrödinger equations via a direct discontinuous Galerkin method. <i>Chinese Physics B</i> , <b>2012</b> , 21, 030202	1.2	18

7	Direct discontinuous Galerkin method for the generalized Burgers-Fisher equation. <i>Chinese Physics B</i> , <b>2012</b> , 21, 090206	1.2	10
6	Local discontinuous Galerkin method for solving an N-carrier system. <i>Numerical Methods for Partial Differential Equations</i> , <b>2012</b> , 28, 2010-2020	2.5	
5	The local discontinuous Galerkin method for Burgers-Huxley and Burgers-Fisher equations. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 8773-8778	2.7	21
4	Solution of Multimaterial Equilibrium Radiation Diffusion Problems by using the Discontinuous Galerkin Method. <i>Chinese Physics Letters</i> , <b>2012</b> , 29, 110201	1.8	2
3	Compact implicit integration factor methods for some complex-valued nonlinear equations. <i>Chinese Physics B</i> , <b>2012</b> , 21, 040205	1.2	2
2	Local discontinuous Galerkin method for solving Burgers and coupled Burgers equations. <i>Chinese Physics B</i> , <b>2011</b> , 20, 110205	1.2	9
1	A new finite difference scheme for a dissipative cubic nonlinear Schrödinger equation. <i>Chinese Physics B</i> , <b>2011</b> , 20, 030204	1.2	1