

Zhaoyang Yin

List of Publications by Year in descending order

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137
papers

3,543
citations

172207

29
h-index

149479

56
g-index

139
all docs

139
docs citations

139
times ranked

401
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Existence and Blow-Up Phenomena for the Degasperis-Procesi Equation. <i>Communications in Mathematical Physics</i> , 2006, 267, 801-820.	1.0	248
2	Well-posedness and blow-up phenomena for the 2-component Camassa-Holm equation. <i>Discrete and Continuous Dynamical Systems</i> , 2007, 19, 493-513.	0.5	240
3	Global weak solutions and blow-up structure for the Degasperis-Procesi equation. <i>Journal of Functional Analysis</i> , 2006, 241, 457-485.	0.7	219
4	On the Cauchy problem for an integrable equation with peakon solutions. <i>Illinois Journal of Mathematics</i> , 2003, 47, .	0.1	193
5	Global existence and blow-up phenomena for an integrable two-component Camassa-Holm shallow water system. <i>Journal of Differential Equations</i> , 2010, 248, 2003-2014.	1.1	163
6	Shock waves and blow-up phenomena for the periodic Degasperis-Procesi equation. <i>Indiana University Mathematics Journal</i> , 2007, 56, 87-118.	0.4	162
7	Global weak solutions for a new periodic integrable equation with peakon solutions. <i>Journal of Functional Analysis</i> , 2004, 212, 182-194.	0.7	150
8	Global existence for a new periodic integrable equation. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 283, 129-139.	0.5	122
9	Global solutions to a new integrable equation with peakons. <i>Indiana University Mathematics Journal</i> , 2004, 53, 1189-1210.	0.4	104
10	Global weak solutions for a two-component Camassa-Holm shallow water system. <i>Journal of Functional Analysis</i> , 2011, 260, 1132-1154.	0.7	96
11	On the Structure of Solutions to the Periodic Hunter-Saxton Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2004, 36, 272-283.	0.9	88
12	Well-posedness, blow-up phenomena, and global solutions for the b-equation. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2008, 2008, 51-80.	0.4	86
13	Global weak solutions for the Novikov equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 055202.	0.7	80
14	Global existence and blow-up phenomena for the weakly dissipative Camassa-Holm equation. <i>Journal of Differential Equations</i> , 2009, 246, 4309-4321.	1.1	73
15	Well-posedness, blowup, and global existence for an integrable shallow water equation. <i>Discrete and Continuous Dynamical Systems</i> , 2004, 11, 393-411.	0.5	72
16	Initial boundary value problems for nonlinear dispersive wave equations. <i>Journal of Functional Analysis</i> , 2009, 256, 479-508.	0.7	69
17	Ill-posedness of the Camassa-Holm and related equations in the critical space. <i>Journal of Differential Equations</i> , 2019, 266, 1698-1707.	1.1	64
18	Remarks on the well-posedness of Camassa-Holm type equations in Besov spaces. <i>Journal of Differential Equations</i> , 2016, 261, 6125-6143.	1.1	60

#	ARTICLE	IF	CITATIONS
19	Monotone positive solutions of second-order nonlinear differential equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 54, 391-403.	0.6	57
20	Initial Boundary Value Problems of the Camassa-Holm Equation. <i>Communications in Partial Differential Equations</i> , 2008, 33, 377-395.	1.0	57
21	A note on the Cauchy problem of the Novikov equation. <i>Applicable Analysis</i> , 2013, 92, 1116-1137.	0.6	55
22	Blow-Up and Decay of the Solution of the Weakly Dissipative Degasperis-Procesi Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2008, 40, 475-490.	0.9	50
23	Local existence and uniqueness for the non-resistive MHD equations in homogeneous Besov spaces. <i>Advances in Mathematics</i> , 2017, 317, 786-798.	0.5	42
24	Global weak solutions for a modified two-component Camassa-Holm equation. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2011, 28, 623-641.	0.7	36
25	On the Blow-Up Scenario for the Generalized Camassa-Holm Equation. <i>Communications in Partial Differential Equations</i> , 2004, 29, 867-877.	1.0	34
26	Well-posedness, global solutions and blowup phenomena for a nonlinearly dispersive wave equation. <i>Journal of Evolution Equations</i> , 2004, 4, 391-419.	0.6	31
27	Analytic solutions of the Cauchy problem for two-component shallow water systems. <i>Mathematische Zeitschrift</i> , 2011, 269, 1113-1127.	0.4	31
28	Global periodic conservative solutions of a periodic modified two-component Camassa-Holm equation. <i>Journal of Functional Analysis</i> , 2011, 261, 1204-1226.	0.7	30
29	Qualitative Analysis for a New Integrable Two-Component Camassa-Holm System with Peakon and Weak Kink Solutions. <i>Communications in Mathematical Physics</i> , 2015, 336, 581-617.	1.0	29
30	Well-posedness and analytic solutions of the two-component Euler-Poincaré system. <i>Monatshefte Fur Mathematik</i> , 2017, 183, 509-537.	0.5	28
31	Global conservative solutions of a modified two-component Camassa-Holm shallow water system. <i>Journal of Differential Equations</i> , 2011, 251, 3558-3582.	1.1	27
32	Local well-posedness and stability of peakons for a generalized Dullin-Gottwald-Holm equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 2497-2507.	0.6	27
33	Local well-posedness and blow-up criteria for a two-component Novikov system in the critical Besov space. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 122, 1-22.	0.6	27
34	On the Cauchy problem for the generalized Camassa-Holm equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2007, 66, 460-471.	0.6	26
35	On the Cauchy problem for a two-component Degasperis-Procesi system. <i>Journal of Differential Equations</i> , 2012, 252, 2131-2159.	1.1	26
36	Well-posedness and blow-up phenomena for a periodic two-component Camassa-Holm equation. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2011, 141, 93-107.	0.8	23

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55	Bounded Positive Solutions of Schrödinger Equations in Two-Dimensional Exterior Domains. Monatshefte Fur Mathematik, 2004, 141, 337-344.	0.5	11
56	On the Cauchy problem of a two-component b-family system. Nonlinear Analysis: Real World Applications, 2011, 12, 3608-3620.	0.9	11
57	Global existence and local well-posedness of the 2D viscous shallow water system in Sobolev spaces. Applicable Analysis, 2016, 95, 78-96.	0.6	11
58	Well-posedness for a modified two-component Camassa-Holm system in critical spaces. Discrete and Continuous Dynamical Systems, 2013, 33, 1699-1712.	0.5	11
59	Global existence and well-posedness of the 2D viscous shallow water system in Sobolev spaces with low regularity. Journal of Mathematical Analysis and Applications, 2016, 438, 14-28.	0.5	10
60	On the global well-posedness of the tropical climate model. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201700306.	0.9	10
61	On the initial value problem for higher dimensional Camassa-Holm equations. Discrete and Continuous Dynamical Systems, 2015, 35, 1327-1358.	0.5	10
62	On the solutions of the Dullin-Gottwald-Holm equation in Besov spaces. Nonlinear Analysis: Real World Applications, 2012, 13, 2580-2592.	0.9	9
63	Initial boundary value problems for the two-component shallow water systems. Revista Matematica Iberoamericana, 2013, 29, 911-938.	0.4	9
64	Blow-up phenomena and travelling wave solutions to the periodic integrable dispersive Hunter-Saxton equation. Discrete and Continuous Dynamical Systems, 2017, 37, 6471-6485.	0.5	9
65	Well-posedness for the Cauchy problem of the Camassa-Holm equation in critical Besov spaces. Discrete and Continuous Dynamical Systems, 2017, 37, 6471-6485.	0.5	9
66	The Liouville Theorem and the L ² Decay for the FENE Dumbbell Model of Polymeric Flows. Archive for Rational Mechanics and Analysis, 2017, 224, 209-231.	1.1	8
67	Global existence and local well-posedness of the single-cycle pulse equation. Journal of Mathematical Physics, 2017, 58, 101515.	0.5	8
68	The Cauchy problem for a generalized Novikov equation. Discrete and Continuous Dynamical Systems, 2017, 37, 3503-3519.	0.5	8
69	On the dimension of the global attractor for a damped semilinear wave equation with critical exponent. Journal of Mathematical Physics, 2000, 41, 4957-4966.	0.5	7
70	Blow-up phenomena and local well-posedness for a generalized Camassa-Holm equation in the critical Besov space. Nonlinear Analysis: Theory, Methods & Applications, 2015, 128, 1-19.	0.6	7
71	On a generalized Camassa-Holm equation with the flow generated by velocity and its gradient. Applicable Analysis, 2017, 96, 679-701.	0.6	7
72	The global Gevrey regularity and analyticity of a two-component shallow water system with higher-order inertia operators. Journal of Differential Equations, 2019, 267, 2531-2559.	1.1	7

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73	On the existence of global weak solutions to an integrable two-component Camassa-Holm shallow-water system. Proceedings of the Edinburgh Mathematical Society, 2013, 56, 755-775.	0.2	6
74	Global existence and well-posedness of the 2D viscous shallow water system in Besov spaces. Nonlinear Analysis: Real World Applications, 2015, 24, 1-17.	0.9	6
75	On the Cauchy problem for a generalized Degasperis-Procesi equation. Journal of Mathematical Physics, 2010, 51, .	0.5	5
76	Global weak solutions and smooth solutions for a two-component Hunter-Saxton system. Journal of Mathematical Physics, 2011, 52, 103707.	0.5	5
77	Well-posedness, global existence and blow-up phenomena for an integrable multi-component Camassa-Holm system. Nonlinear Analysis: Theory, Methods & Applications, 2016, 142, 112-133.	0.6	5
78	Well-posedness and analytic solutions of a two-component water wave equation. Journal of Mathematical Analysis and Applications, 2016, 434, 353-375.	0.5	5
79	Global existence and well-posedness for the FENE dumbbell model of polymeric flows. Nonlinear Analysis: Real World Applications, 2017, 37, 457-488.	0.9	5
80	On weak solutions for a class of nonlinear parabolic equations related to image analysis. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 2506-2517.	0.6	4
81	Well-posedness and blow-up phenomena for the generalized Degasperis-Procesi equation. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 136-146.	0.6	4
82	Global existence and local well-posedness for a three-component Camassa-Holm system with N-peakon solutions. Journal of Differential Equations, 2015, 259, 201-234.	1.1	4
83	Global well-posedness of the three dimensional incompressible anisotropic Navier-Stokes system. Nonlinear Analysis: Real World Applications, 2016, 32, 52-73.	0.9	4
84	Well-posedness and persistence property for a four-component Novikov system with peakon solutions. Monatshefte Fur Mathematik, 2016, 180, 853-891.	0.5	4
85	Infinite propagation speed and asymptotic behavior for a two-component Degasperis-Procesi system. Monatshefte Fur Mathematik, 2016, 181, 217-234.	0.5	4
86	The L2 decay for the 2D co-rotation FENE dumbbell model of polymeric flows. Advances in Mathematics, 2019, 343, 522-537.	0.5	4
87	Blow-up phenomena, ill-posedness and peakon solutions for the periodic Euler-Poincaré equations. Journal of Differential Equations, 2020, 268, 1307-1325.	1.1	4
88	On the Cauchy problem for a modified Camassa-Holm equation. Monatshefte Fur Mathematik, 2020, 193, 857-877.	0.5	4
89	On the Cauchy problem for a four-component Camassa-Holm type system. Discrete and Continuous Dynamical Systems, 2015, 35, 5153-5169.	0.5	4
90	On the Cauchy problem for a generalized two-component shallow water wave system with fractional higher-order inertia operators. Discrete and Continuous Dynamical Systems, 2017, 37, 1509-1537.	0.5	4

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91	ON THE GLOBAL EXISTENCE OF SOLUTIONS TO QUASILINEAR PARABOLIC EQUATIONS WITH HOMOGENEOUS NEUMANN BOUNDARY CONDITIONS. <i>Glasgow Mathematical Journal</i> , 2005, 47, 237-248.	0.2	3
92	ON THE LOW REGULARITY SOLUTIONS FOR A MODIFIED TWO-COMPONENT CAMASSA-HOLM SHALLOW WATER SYSTEM. <i>Glasgow Mathematical Journal</i> , 2011, 53, 611-621.	0.2	3
93	On the well-posedness of 3-D inhomogeneous incompressible Navier-Stokes equations with variable viscosity. <i>Journal of Differential Equations</i> , 2018, 264, 2407-2447.	1.1	3
94	The rotational speed limit and the blow-up phenomena of the rotation 2-component Camassa-Holm system. <i>Monatshefte Fur Mathematik</i> , 2019, 190, 301-332.	0.5	3
95	On some large global solutions to the incompressible inhomogeneous nematic liquid crystal flows. <i>Applicable Analysis</i> , 2020, 99, 959-975.	0.6	3
96	Wave breaking and solitary wave solutions for a generalized Novikov equation. <i>Applied Mathematics Letters</i> , 2020, 100, 106014.	1.5	3
97	Bounded positive solutions of nonlinear second-order differential equations. <i>Differential Equations</i> , 2006, 42, 26-36.	0.1	2
98	Weak solutions for a class of generalized nonlinear parabolic equations related to image analysis. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 368, 235-246.	0.5	2
99	Existence and singularities of solutions to an integrable equation governing short-waves in a long-wave model. <i>Journal of Mathematical Physics</i> , 2010, 51, 093509.	0.5	2
100	On the blow-up phenomena for a modified periodic two-component Camassa-Holm equation. <i>IMA Journal of Applied Mathematics</i> , 2012, 77, 563-577.	0.8	2
101	On the number of singular points to the flow of nematic liquid crystals. <i>Journal of Evolution Equations</i> , 2016, 16, 233-240.	0.6	2
102	Global solutions and blow-up phenomena for a generalized Degasperis-Procesi equation. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 478, 604-624.	0.5	2
103	The Cauchy problem of the rotation Camassa-Holm equation in equatorial water waves. <i>Applicable Analysis</i> , 2021, 100, 2547-2563.	0.6	2
104	Global weak solutions for a generalized Novikov equation. <i>Monatshefte Fur Mathematik</i> , 2019, 188, 387-400.	0.5	2
105	The inviscid limit and well-posedness for the Euler-Nernst-Planck-Poisson system. <i>Applicable Analysis</i> , 2020, 99, 181-213.	0.6	2
106	Blow-up phenomena and local well-posedness for a generalized Camassa-Holm equation in the critical Besov space. <i>Monatshefte Fur Mathematik</i> , 2020, 191, 801-829.	0.5	2
107	Globally conservative solutions for the modified Camassa-Holm (MOCH) equation. <i>Journal of Mathematical Physics</i> , 2021, 62, .	0.5	2
108	Global existence for quasilinear parabolic systems with homogeneous Neumann boundary conditions. <i>Nonlinear Differential Equations and Applications</i> , 2006, 13, 235-248.	0.4	1

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109	Global existence of weak solutions for a three-component Camassa-Holm system with N-peakon solutions. IMA Journal of Applied Mathematics, 2016, 81, 1096-1111.	0.8	1
110	The Cauchy problem for a family of generalized Camassa-Holm equations. Applicable Analysis, 2016, 95, 1184-1213.	0.6	1
111	Blow-up phenomena and global existence for a two-component Camassa-Holm system with an arbitrary smooth function. Nonlinear Analysis: Theory, Methods & Applications, 2017, 155, 176-185.	0.6	1
112	Global weak solutions for a generalized Camassa-Holm equation. Mathematische Nachrichten, 2018, 291, 2457-2475.	0.4	1
113	Local well-posedness and blow-up phenomena of the generalized short pulse equation. Journal of Mathematical Physics, 2019, 60, 041505.	0.5	1
114	On the Cauchy problem for a generalized Degasperis-Procesi equation. Applicable Analysis, 2020, 99, 1300-1315.	0.6	1
115	Global existence for the periodic dispersive Hunter-Saxton equation. Monatshefte Fur Mathematik, 2020, 191, 267-278.	0.5	1
116	Global conservative solution for the periodic dispersive Hunter-Saxton equation. Nonlinear Analysis: Real World Applications, 2021, 59, 103248.	0.9	1
117	On the Cauchy problem for a Camassa-Holm type equation with cubic and quartic nonlinearities. Monatshefte Fur Mathematik, 2022, 198, 289-310.	0.5	1
118	Local well-posedness in the critical Besov space and persistence properties for a three-component Camassa-Holm system with N-peakon solutions. Discrete and Continuous Dynamical Systems, 2016, 36, 5047-5066.	0.5	1
119	Local well-posedness and blow-up phenomena for a generalized Camassa-Holm equation with peakon solutions. Discrete and Continuous Dynamical Systems, 2015, 36, 2781-2801.	0.5	1
120	Global Large Solutions to the Compressible Navier-Stokes Equations in Critical Besov Space \dot{B}^{-1}_{∞} . Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	0.4	1
121	ON THE GLOBAL EXISTENCE OF SOLUTIONS TO QUASILINEAR PARABOLIC EQUATIONS This work was partially supported by the National Natural Science Foundation of China, the Natural Science Foundation of Guangdong Province, and the Foundation of Zhongshan University Advanced Research Center.. Glasgow Mathematical Journal, 2004, 46, 155-160.	0.2	0
122	A class of function spaces and its application in solving second-order nonlinear differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 2750-2757.	0.6	0
123	Low regularity solutions, blowup, and global existence for a generalization of Camassa-Holm-type equation. Mathematical Methods in the Applied Sciences, 2014, 37, 1853-1862.	1.2	0
124	The Cauchy problem for a generalized Camassa-Holm equation with the velocity potential. Applicable Analysis, 2018, 97, 354-367.	0.6	0
125	Global weak solutions for a two-component Camassa-Holm system with an arbitrary smooth function. Applicable Analysis, 2018, 97, 2085-2096.	0.6	0
126	Global well-posedness for the viscous shallow water system with Korteweg type. Applicable Analysis, 2018, 97, 2865-2879.	0.6	0

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127	Global existence and blow-up phenomena for a periodic modified Camassa-Holm equation (MOCH). <i>Applicable Analysis</i> , 2020, , 1-13.	0.6	0
128	The existence of global weak solutions for a generalized Camassa-Holm equation. <i>Applicable Analysis</i> , 2020, , 1-14.	0.6	0
129	The global Gevrey regularity of the rotation two-component Camassa-Holm system. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 486, 123933.	0.5	0
130	Vanishing viscosity limit to the FENE dumbbell model of polymeric flows. <i>Journal of Differential Equations</i> , 2021, 304, 467-490.	1.1	0
131	Well-posedness and blow-up phenomena for a generalized Camassa-Holm equation. <i>Discrete and Continuous Dynamical Systems</i> , 2016, 36, 5493-5508.	0.5	0
132	Global existence and well-posedness for the Doi-Edwards polymer model. <i>Journal of Differential Equations</i> , 2022, 309, 142-175.	1.1	0
133	Global conservative solution for a dissipative Camassa-Holm type equation with cubic and quartic nonlinearities. <i>Applicable Analysis</i> , 0, , 1-15.	0.6	0
134	Global solutions to 3D incompressible Navier-Stokes equations with some large initial data. <i>Applied Mathematics Letters</i> , 2022, 129, 107954.	1.5	0
135	Global Existence and Blow-Up Phenomena for the Hunter-Saxton Equation on the Line. <i>Journal of Mathematical Fluid Mechanics</i> , 2022, 24, 1.	0.4	0
136	The Existence and Uniqueness of Global Admissible Conservative Weak Solution for the Periodic Single-Cycle Pulse Equation. <i>Journal of Mathematical Fluid Mechanics</i> , 2022, 24, 1.	0.4	0
137	Blow-up phenomena and the local well-posedness and ill-posedness of the generalized Camassa-Holm equation in critical Besov spaces. <i>Monatshefte Fur Mathematik</i> , 0, , .	0.5	0