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	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
2	Global existence and well-posedness for the Doi-Edwards polymer model. Journal of Differential Equations, 2022, 309, 142-175.	1.1	0
3	Global Large Solutions to the Compressible Navierâ€“Stokes Equations in Critical Besov Space $$dot{B}^{-1}_{infty ,infty }$$. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	0.4	1
4	Global solutions to 3D incompressible Navierâ€“Stokes equations with some large initial data. Applied Mathematics Letters, 2022, 129, 107954.	1.5	0
5	Global Existence and Blow-Up Phenomena for the Hunter-Saxton Equation on the Line. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	0.4	0
6	The Existence and Uniqueness of Global Admissible Conservative Weak Solution for the Periodic Single-Cycle Pulse Equation. Journal of Mathematical Fluid Mechanics, 2022, 24, 1.	0.4	0
7	Ill-posedness for the Cauchy problem of the Camassa-Holm equation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mo>â^ž</mml:mo><mml:mo stretchy="false">(</mml:mo><mml:mi mathvariant="double-struck">R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.1	0
8	The Cauchy problem of the rotation Camassaâ€“Holm equation in equatorial water waves. Applicable Analysis, 2021, 100, 2547-2563.	0.6	2
9	Global conservative solution for the periodic dispersive Hunterâ€“Saxton equation. Nonlinear Analysis: Real World Applications, 2021, 59, 103248.	0.9	1
10	Globally conservative solutions for the modified Camassaâ€“Holm (MOCH) equation. Journal of Mathematical Physics, 2021, 62, .	0.5	2
11	Vanishing viscosity limit to the FENE dumbbell model of polymeric flows. Journal of Differential Equations, 2021, 304, 467-490.	1.1	0
12	On the Cauchy problem for a generalized Degasperis-Procesi equation. Applicable Analysis, 2020, 99, 1300-1315.	0.6	1
13	On some large global solutions to the incompressible inhomogeneous nematic liquid crystal flows. Applicable Analysis, 2020, 99, 959-975.	0.6	3
14	Global existence for the periodic dispersive Hunterâ€“Saxton equation. Monatshefte Fur Mathematik, 2020, 191, 267-278.	0.5	1
15	The inviscid limit and well-posedness for the Eulerâ€“Nernstâ€“Planckâ€“Poisson system. Applicable Analysis, 2020, 99, 181-213.	0.6	2
16	Blow-up phenomena, ill-posedness and peakon solutions for the periodic Euler-PoincarÃ© equations. Journal of Differential Equations, 2020, 268, 1307-1325.	1.1	4
17	Wave breaking and solitary wave solutions for a generalized Novikov equation. Applied Mathematics Letters, 2020, 100, 106014.	1.5	3
18	Global existence and blow-up phenomena for a periodic modified Camassaâ€“Holm equation (MOCH). Applicable Analysis, 2020, , 1-13.	0.6	0

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19	The existence of global weak solutions for a generalized Camassaâ€“Holm equation. Applicable Analysis, 2020, , 1-14.	0.6	0
20	On the Cauchy problem for a modified Camassaâ€“Holm equation. Monatshefte Fur Mathematik, 2020, 193, 857-877.	0.5	4
21	Blow-up phenomena and local well-posedness for a generalized Camassaâ€“Holm equation in the critical Besov space. Monatshefte Fur Mathematik, 2020, 191, 801-829.	0.5	2
22	The global Gevrey regularity of the rotation two-component Camassa-Holm system. Journal of Mathematical Analysis and Applications, 2020, 486, 123933.	0.5	0
23	Local well-posedness of the incompressible Euler equations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mo>âˆž</mml:mo><mml:mo>, and the inviscid limit of the Navierâ€“Stokes equations. Journal of Functional Analysis, 2019, 276, 2021-2030.	0.7	14
24	Ill-posedness of the Camassaâ€“Holm and related equations in the critical space. Journal of Differential Equations, 2019, 266, 1698-1707.	1.1	64
25	Global solutions and blow-up phenomena for a generalized Degasperisâ€“Procesi equation. Journal of Mathematical Analysis and Applications, 2019, 478, 604-624.	0.5	2
26	Local well-posedness and blow-up phenomena of the generalized short pulse equation. Journal of Mathematical Physics, 2019, 60, 041505.	0.5	1
27	On the global wellâ€posedness of the tropical climate model. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201700306.	0.9	10
28	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
29	The L2 decay for the 2D co-rotation FENE dumbbell model of polymeric flows. Advances in Mathematics, 2019, 343, 522-537.	0.5	4
30	The rotational speed limit and the blow-up phenomena of the rotation 2-component Camassaâ€“Holm system. Monatshefte Fur Mathematik, 2019, 190, 301-332.	0.5	3
31	Global weak solutions for a generalized Novikov equation. Monatshefte Fur Mathematik, 2019, 188, 387-400.	0.5	2
32	The Cauchy problem for a generalized Camassaâ€“Holm equation with the velocity potential. Applicable Analysis, 2018, 97, 354-367.	0.6	0
33	Global weak solutions for a two-component Camassaâ€“Holm system with an arbitrary smooth function. Applicable Analysis, 2018, 97, 2085-2096.	0.6	0
34	On the well-posedness of 3-D inhomogeneous incompressible Navierâ€“Stokes equations with variable viscosity. Journal of Differential Equations, 2018, 264, 2407-2447.	1.1	3
35	Global well-posedness for the viscous shallow water system with Korteweg type. Applicable Analysis, 2018, 97, 2865-2879.	0.6	0
36	Global weak solutions for a generalized Camassaâ€“Holm equation. Mathematische Nachrichten, 2018, 291, 2457-2475.	0.4	1

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37	Well-posedness and analytic solutions of the two-component Eulerâ€“PoincarÃ© system. Monatshefte Fur Mathematik, 2017, 183, 509-537.	0.5	28
38	On a generalized Camassaâ€“Holm equation with the flow generated by velocity and its gradient. Applicable Analysis, 2017, 96, 679-701.	0.6	7
39	Global well-posedness for the 3D incompressible inhomogeneous Navierâ€“Stokes equations and MHD equations. Journal of Differential Equations, 2017, 262, 1359-1412.	1.1	18
40	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
41	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
42	Blow-up phenomena and global existence for a two-component Camassaâ€“Holm system with an arbitrary smooth function. Nonlinear Analysis: Theory, Methods & Applications, 2017, 155, 176-185.	0.6	1
43	Blow-up phenomena and local well-posedness for a generalized Camassaâ€“Holm equation with cubic nonlinearity. Nonlinear Analysis: Theory, Methods & Applications, 2017, 151, 208-226.	0.6	14
44	Local existence and uniqueness for the non-resistive MHD equations in homogeneous Besov spaces. Advances in Mathematics, 2017, 317, 786-798.	0.5	42
45	Global existence and local well-posedness of the single-cycle pulse equation. Journal of Mathematical Physics, 2017, 58, 101515.	0.5	8
46	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
47	The Cauchy problem for a generalized Novikov equation. Discrete and Continuous Dynamical Systems, 2017, 37, 3503-3519.	0.5	8
48	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
49	Global well-posedness of the three dimensional incompressible anisotropic Navierâ€“Stokes system. Nonlinear Analysis: Real World Applications, 2016, 32, 52-73.	0.9	4
50	Global existence of weak solutions for a three-component Camassaâ€“Holm system with N-peakon solutions. IMA Journal of Applied Mathematics, 2016, 81, 1096-1111.	0.8	1
51	Remarks on the well-posedness of Camassaâ€“Holm type equations in Besov spaces. Journal of Differential Equations, 2016, 261, 6125-6143.	1.1	60
52	Well-posedness and persistence property for a four-component Novikov system with peakon solutions. Monatshefte Fur Mathematik, 2016, 180, 853-891.	0.5	4
53	Infinite propagation speed and asymptotic behavior for a two-component Degasperisâ€“Procesi system. Monatshefte Fur Mathematik, 2016, 181, 217-234.	0.5	4
54	Well-posedness, global existence and blow-up phenomena for an integrable multi-component Camassaâ€“Holm system. Nonlinear Analysis: Theory, Methods & Applications, 2016, 142, 112-133.	0.6	5

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55	On the number of singular points to the flow of nematic liquid crystals. Journal of Evolution Equations, 2016, 16, 233-240.	0.6	2
56	Well-posedness and global existence for a generalized Degasperisâ€“Procesi equation. Nonlinear Analysis: Real World Applications, 2016, 28, 72-90.	0.9	22
57	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
58	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
59	The Cauchy problem for a family of generalized Camassaâ€“Holm equations. Applicable Analysis, 2016, 95, 1184-1213.	0.6	1
60	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
61	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
62	Well-posedness and blow-up phenomena for a generalized Camassa-Holm equation. Discrete and Continuous Dynamical Systems, 2016, 36, 5493-5508.	0.5	0
63	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
64	Qualitative Analysis for a New Integrable Two-Component Camassaâ€“Holm System with Peakon and Weak Kink Solutions. Communications in Mathematical Physics, 2015, 336, 581-617.	1.0	29
65	Well-posedness, blow-up phenomena and persistence properties for a two-component water wave system. Nonlinear Analysis: Real World Applications, 2015, 25, 219-237.	0.9	15
66	Local well-posedness and blow-up criteria for a two-component Novikov system in the critical Besov space. Nonlinear Analysis: Theory, Methods & Applications, 2015, 122, 1-22.	0.6	27
67	Global existence and local well-posedness for a three-component Camassaâ€“Holm system with N-peakon solutions. Journal of Differential Equations, 2015, 259, 201-234.	1.1	4
68	Blow-up phenomena and local well-posedness for a generalized Camassaâ€“Holm equation in the critical Besov space. Nonlinear Analysis: Theory, Methods & Applications, 2015, 128, 1-19.	0.6	7
69	On the initial value problem for higher dimensional Camassa-Holm equations. Discrete and Continuous Dynamical Systems, 2015, 35, 1327-1358.	0.5	10
70	On the Cauchy problem for a four-component Camassa-Holm type system. Discrete and Continuous Dynamical Systems, 2015, 35, 5153-5169.	0.5	4
71	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
72	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

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73	On the global weak solutions for a modified twoâ€component Camassaâ€Holm equation. Mathematische Nachrichten, 2013, 286, 1287-1304.	0.4	14
74	A note on the Cauchy problem of the Novikov equation. Applicable Analysis, 2013, 92, 1116-1137.	0.6	55
75	On the existence of global weak solutions to an integrable two-component Camassaâ€“Holm shallow-water system. Proceedings of the Edinburgh Mathematical Society, 2013, 56, 755-775.	0.2	6
76	Initial boundary value problems for the two-component shallow water systems. Revista Matematica Iberoamericana, 2013, 29, 911-938.	0.4	9
77	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
78	On the blow-up phenomena for a modified periodic two-component Camassa-Holm equation. IMA Journal of Applied Mathematics, 2012, 77, 563-577.	0.8	2
79	Global weak solutions for a periodic two-componentÂĪ¼-Hunterâ€“Saxton system. Monatshefte Fur Mathematik, 2012, 168, 503-521.	0.5	12
80	On the solutions of the Dullinâ€“Gottwaldâ€“Holm equation in Besov spaces. Nonlinear Analysis: Real World Applications, 2012, 13, 2580-2592.	0.9	9
81	On the Cauchy problem of a periodic 2-component -Hunterâ€“Saxton system. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 131-142.	0.6	12
82	On the Cauchy problem for a two-component Degasperisâ€“Procesi system. Journal of Differential Equations, 2012, 252, 2131-2159.	1.1	26
83	Global existence and blow-up phenomena for a periodic 2-component Camassaâ€“Holm equation. Monatshefte Fur Mathematik, 2012, 165, 217-235.	0.5	14
84	Global weak solutions for the Novikov equation. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 055202.	0.7	80
85	On the Cauchy problem of a two-component b-family system. Nonlinear Analysis: Real World Applications, 2011, 12, 3608-3620.	0.9	11
86	Global conservative solutions of a modified two-component Camassaâ€“Holm shallow water system. Journal of Differential Equations, 2011, 251, 3558-3582.	1.1	27
87	Analytic solutions of the Cauchy problem for two-component shallow water systems. Mathematische Zeitschrift, 2011, 269, 1113-1127.	0.4	31
88	Local well-posedness and stability of peakons for a generalized Dullinâ€“Gottwaldâ€“Holm equation. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 2497-2507.	0.6	27
89	Global weak solutions for a modified two-component Camassaâ€“Holm equation. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 623-641.	0.7	36
90	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

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91	Global weak solutions for a two-component Camassaâ€“Holm shallow water system. Journal of Functional Analysis, 2011, 260, 1132-1154.	0.7	96
92	Global periodic conservative solutions of a periodic modified two-component Camassaâ€“Holm equation. Journal of Functional Analysis, 2011, 261, 1204-1226.	0.7	30
93	Global dissipative solutions of a modified two-component Camassaâ€“Holm shallow water system. Journal of Mathematical Physics, 2011, 52, .	0.5	17
94	Global weak solutions and smooth solutions for a two-component Hunter-Saxton system. Journal of Mathematical Physics, 2011, 52, 103707.	0.5	5
95	Well-posedness and blow-up phenomena for a periodic two-component Camassaâ€“Holm equation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2011, 141, 93-107.	0.8	23
96	ON THE LOW REGULARITY SOLUTIONS FOR A MODIFIED TWO-COMPONENT CAMASSAâ€“HOLM SHALLOW WATER SYSTEM. Glasgow Mathematical Journal, 2011, 53, 611-621.	0.2	3
97	Well-posedness and blow-up phenomena for the generalized Degasperisâ€“Procesi equation. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 136-146.	0.6	4
98	Blowup phenomena for a new periodic nonlinearly dispersive wave equation. Mathematische Nachrichten, 2010, 283, 1613-1628.	0.4	13
99	Global existence and blow-up phenomena for an integrable two-component Camassaâ€“Holm shallow water system. Journal of Differential Equations, 2010, 248, 2003-2014.	1.1	163
100	Weak solutions for a class of generalized nonlinear parabolic equations related to image analysis. Journal of Mathematical Analysis and Applications, 2010, 368, 235-246.	0.5	2
101	Global weak solutions for the Dullinâ€“Gottwaldâ€“Holm equation. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1690-1700.	0.6	18
102	On the Cauchy problem for a generalized Degasperisâ€“Procesi equation. Journal of Mathematical Physics, 2010, 51, .	0.5	5
103	Existence and singularities of solutions to an integrable equation governing short-waves in a long-wave model. Journal of Mathematical Physics, 2010, 51, 093509.	0.5	2
104	Blowup and blowup rate of solutions to a weakly dissipative periodic rod equation. Journal of Mathematical Physics, 2009, 50, 083503.	0.5	12
105	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
106	Global existence and blow-up phenomena for the weakly dissipative Camassaâ€“Holm equation. Journal of Differential Equations, 2009, 246, 4309-4321.	1.1	73
107	Initial boundary value problems for nonlinear dispersive wave equations. Journal of Functional Analysis, 2009, 256, 479-508.	0.7	69
108	Well-posedness, blow-up phenomena, and global solutions for the b-equation. Journal Fur Die Reine Und Angewandte Mathematik, 2008, 2008, 51-80.	0.4	86

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109	Blow-Up and Decay of the Solution of the Weakly Dissipative Degasperisâ€“Procesi Equation. SIAM Journal on Mathematical Analysis, 2008, 40, 475-490.	0.9	50
110	Blow-Up Phenomena and Decay for the Periodic Degasperis-Procesi Equation with Weak Dissipation. Journal of Nonlinear Mathematical Physics, 2008, 15, 28.	0.8	20
111	On the blow-up phenomena of the periodic Dullinâ€“Gottwaldâ€“Holm equation. Journal of Mathematical Physics, 2008, 49, 113504.	0.5	12
112	Initial Boundary Value Problems of the Camassaâ€“Holm Equation. Communications in Partial Differential Equations, 2008, 33, 377-395.	1.0	57
113	Well-posedness and blow-up phenomena for the 2-component Camassa-Holm equation. Discrete and Continuous Dynamical Systems, 2007, 19, 493-513.	0.5	240
114	On the Cauchy problem for the generalized Camassaâ€“Holm equation. Nonlinear Analysis: Theory, Methods & Applications, 2007, 66, 460-471.	0.6	26
115	On the initial boundary value problems for the Degasperisâ€“Procesi equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 69-76.	0.9	18
116	Shock waves and blow-up phenomena for the periodic Degasperis-Procesi equation. Indiana University Mathematics Journal, 2007, 56, 87-118.	0.4	162
117	Bounded positive solutions of nonlinear second-order differential equations. Differential Equations, 2006, 42, 26-36.	0.1	2
118	Global weak solutions and blow-up structure for the Degasperisâ€“Procesi equation. Journal of Functional Analysis, 2006, 241, 457-485.	0.7	219
119	Global existence for quasilinear parabolic systems with homogeneous Neumann boundary conditions. Nonlinear Differential Equations and Applications, 2006, 13, 235-248.	0.4	1
120	Global Existence and Blow-Up Phenomena for the Degasperis-Procesi Equation. Communications in Mathematical Physics, 2006, 267, 801-820.	1.0	248
121	ON THE GLOBAL EXISTENCE OF SOLUTIONS TO QUASILINEAR PARABOLIC EQUATIONS WITH HOMOGENEOUS NEUMANN BOUNDARY CONDITIONS. Glasgow Mathematical Journal, 2005, 47, 237-248.	0.2	3
122	Global solutions to a new integrable equation with peakons. Indiana University Mathematics Journal, 2004, 53, 1189-1210.	0.4	104
123	Bounded Positive Solutions of Schrï¿½dinger Equations in Two-Dimensional Exterior Domains. Monatshefte Fur Mathematik, 2004, 141, 337-344.	0.5	11
124	Well-posedness, global solutions and blowup phenomena for a nonlinearly dispersive wave equation. Journal of Evolution Equations, 2004, 4, 391-419.	0.6	31
125	Global weak solutions for a new periodic integrable equation with peakon solutions. Journal of Functional Analysis, 2004, 212, 182-194.	0.7	150
126	On the Blow-Up Scenario for the Generalized Camassaâ€“Holm Equation. Communications in Partial Differential Equations, 2004, 29, 867-877.	1.0	34

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127	Well-posedness, blowup, and global existence for an integrable shallow water equation. Discrete and Continuous Dynamical Systems, 2004, 11, 393-411.	0.5	72
128	On the Structure of Solutions to the Periodic Hunter--Saxton Equation. SIAM Journal on Mathematical Analysis, 2004, 36, 272-283.	0.9	88
129	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
130	Global existence for elliptic equations with dynamic boundary conditions. Archiv Der Mathematik, 2003, 81, 567-574.	0.3	14
131	On the blow-up of solutions of a periodic nonlinear dispersive wave equation in compressible elastic rods. Journal of Mathematical Analysis and Applications, 2003, 288, 232-245.	0.5	17
132	Global existence for a new periodic integrable equation. Journal of Mathematical Analysis and Applications, 2003, 283, 129-139.	0.5	122
133	Monotone positive solutions of second-order nonlinear differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2003, 54, 391-403.	0.6	57
134	On the Cauchy problem for an integrable equation with peakon solutions. Illinois Journal of Mathematics, 2003, 47, .	0.1	193
135	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
136	Global conservative solution for a dissipative Camassa-Holm type equation with cubic and quartic nonlinearities. Applicable Analysis, 0, , 1-15.	0.6	0
137	Blow-up phenomena and the local well-posedness and ill-posedness of the generalized Camassaâ€“Holm equation in critical Besov spaces. Monatshefte Fur Mathematik, 0, , .	0.5	0