

Xianguo Geng

List of Publications by Year in Descending Order

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

131
papers

2,688
citations

29
h-index

48
g-index

139
ext. papers

3,205
ext. citations

1.9
avg, IF

6.01
L-index

#	Paper	IF	Citations
131	A vector Geng model: New nonlinear phenomena and breathers on periodic background waves. <i>Physica D: Nonlinear Phenomena</i> , 2022 , 434, 133270	3.3	0
130	Long-time asymptotics for the modified complex short pulse equation. <i>Discrete and Continuous Dynamical Systems</i> , 2022 ,	2	0
129	Riemann-Hilbert approach and long-time asymptotics for the three-component derivative nonlinear Schrödinger equation. <i>Analysis and Mathematical Physics</i> , 2022 , 12, 1	1.3	
128	A vector super Newell long-wave-short-wave equation and infinite conservation laws. <i>Partial Differential Equations in Applied Mathematics</i> , 2021 , 5, 100206	0.8	
127	Darboux transformation and exact solutions for a four-component Fokas-Lenells equation. <i>Results in Physics</i> , 2021 , 31, 105027	3.7	1
126	Riemann-Hilbert approach and N-soliton solutions for a negative matrix AKNS system with a Hermitian symmetric space. <i>Wave Motion</i> , 2021 , 108, 102838	1.8	
125	Explicit Solutions of the Coupled Bogoyavlensky Lattice 1(2) Hierarchy. <i>Results in Mathematics</i> , 2021 , 76, 1	0.9	
124	Quasi-periodic solutions of the Heisenberg hierarchy. <i>Analysis and Mathematical Physics</i> , 2021 , 11, 1	1.3	
123	Darboux transformation of a two-component generalized Sasa-Batsuma equation and explicit solutions. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 12727	2.3	1
122	Coupled discrete Sawada-Kotera equations and their explicit quasi-periodic solutions. <i>Analysis and Mathematical Physics</i> , 2021 , 11, 1	1.3	1
121	An integrable generalized Korteweg-de Vries equation with pseudo-peaks. <i>Applied Mathematics Letters</i> , 2021 , 115, 106942	3.5	1
120	Long-Time Asymptotics for the Spin-1 Gross-Pitaevskii Equation. <i>Communications in Mathematical Physics</i> , 2021 , 382, 585-611	2	22
119	A second-order three-wave interaction system and its rogue wave solutions. <i>Nonlinear Dynamics</i> , 2021 , 105, 2575-2593	5	2
118	Spectral analysis and soliton structures for the Hermitian symmetric space Fokas-Lenells equation. <i>Nonlinear Dynamics</i> , 2021 , 106, 907-918	5	0
117	Spectral analysis and long-time asymptotics for the potential Wadati-Konno-Ichikawa equation. <i>Journal of Mathematical Analysis and Applications</i> , 2021 , 501, 125170	1.1	2
116	A Degasperis-Procesi equation II with multi-peakon solutions. <i>Applied Mathematics Letters</i> , 2021 , 121, 107463	3.5	
115	Coupled derivative nonlinear Schrödinger III equation: Darboux transformation and higher-order rogue waves in a two-mode nonlinear fiber. <i>Applied Mathematics and Computation</i> , 2021 , 411, 126551	2.7	0

114	Riemann theta function solutions to the coupled long wave-short wave resonance equations. <i>Analysis and Mathematical Physics</i> , 2020 , 10, 1	1.3	1
113	A matrix Yajima-Oikawa long-wave-short-wave resonance equation, Darboux transformations and rogue wave solutions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 90, 105408	3.7	8
112	Riemann-Hilbert approach and N-soliton solutions for a new two-component Sasa-Satsuma equation. <i>Nonlinear Dynamics</i> , 2020 , 101, 597-609	5	10
111	Breathers and breather-rogue waves on a periodic background for the derivative nonlinear Schrödinger equation. <i>Physica Scripta</i> , 2020 , 95, 055216	2.6	8
110	A generalization of the Landau-Lifschitz equation: breathers and rogue waves. <i>Journal of Nonlinear Mathematical Physics</i> , 2020 , 27, 279	0.9	3
109	Riemann-Hilbert Method for the Three-Component Sasa-Satsuma Equation and Its N-Soliton Solutions. <i>Reports on Mathematical Physics</i> , 2020 , 85, 77-103	0.8	4
108	Long-time asymptotics for the generalized Sasa-Satsuma equation. <i>AIMS Mathematics</i> , 2020 , 5, 7413-7437	3.2	2
107	Darboux transformations for a matrix long-wave-short-wave equation and higher-order rational rogue-wave solutions. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 948-967	2.3	4
106	Rogue periodic waves of the sine-Gordon equation. <i>Applied Mathematics Letters</i> , 2020 , 102, 106147	3.5	44
105	On a vector long wave-short wave-type model. <i>Studies in Applied Mathematics</i> , 2020 , 144, 164-184	2.1	38
104	A Vector General Nonlinear Schrödinger Equation with $((m+n))$ Components. <i>Journal of Nonlinear Science</i> , 2020 , 30, 991-1013	2.8	37
103	Rational solutions for a (3+1)-dimensional nonlinear evolution equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 83, 105116	3.7	27
102	A generalized complex mKdV equation: Darboux transformations and explicit solutions. <i>Wave Motion</i> , 2020 , 98, 102639	1.8	7
101	Algebro-Geometric Integration of the Modified Belov-Chaltikian Lattice Hierarchy. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 2019 , 199, 675-694	0.7	4
100	The Application of the Theory of Trigonal Curves to the Discrete Coupled Nonlinear Schrödinger Hierarchy. <i>Annales Henri Poincare</i> , 2019 , 20, 2585-2621	1.2	7
99	Long-time asymptotics of the coupled modified Korteweg-de Vries equation. <i>Journal of Geometry and Physics</i> , 2019 , 142, 151-167	1.2	9
98	Riemann theta function solutions of the Caudrey-Dodd-Gibson-Sawada-Kotera hierarchy. <i>Journal of Geometry and Physics</i> , 2019 , 140, 85-103	1.2	16
97	Higher-order solutions of a matrix AKNS system associated with a Hermitian symmetric space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 3047-3055	2.3	2

96	 <i>Theoretical and Mathematical Physics</i> , 2019 , 199, 235-256	0.2	0
95	Dynamical behaviour of rogue wave solutions in a multi-component AB system. <i>Wave Motion</i> , 2019 , 89, 1-13	1.8	10
94	On a Vector Modified Yajima-Dikawa Long-Wave-Short-Wave Equation. <i>Mathematics</i> , 2019 , 7, 958	2.3	2
93	Finite Genus Solutions to the Coupled Burgers Hierarchy. <i>Results in Mathematics</i> , 2019 , 74, 1	0.9	5
92	Finite-Band Solutions for the Hierarchy of Coupled Toda Lattices. <i>Acta Applicandae Mathematicae</i> , 2018 , 154, 59-81	1.1	0
91	A new nonlinear wave equation: Darboux transformation and soliton solutions. <i>Wave Motion</i> , 2018 , 79, 44-56	1.8	16
90	The vector derivative nonlinear Schrödinger equation on the half-line. <i>IMA Journal of Applied Mathematics</i> , 2018 , 83, 148-173	1	4
89	Riemann-Hilbert approach for the combined nonlinear Schrödinger and Gerdjikov-Ivanov equation and its N-soliton solutions. <i>Modern Physics Letters B</i> , 2018 , 32, 1850088	1.6	3
88	N solutions for a derivative nonlinear Schrödinger-type equation via Riemann-Hilbert approach. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 1653-1660	2.3	4
87	An extension of the coupled derivative nonlinear Schrödinger hierarchy. <i>Modern Physics Letters B</i> , 2018 , 32, 1850016	1.6	
86	A super Sasa-Batsuma hierarchy and bi-Hamiltonian structures. <i>Applied Mathematics Letters</i> , 2018 , 83, 46-52	3.5	
85	Trace formula and new form of N-soliton to the Gerdjikov-Ivanov equation. <i>Analysis and Mathematical Physics</i> , 2018 , 8, 415-426	1.3	13
84	A hierarchy of generalized Jaulent-Miodek equations and their explicit solutions. <i>International Journal of Geometric Methods in Modern Physics</i> , 2018 , 15, 1850002	1.5	0
83	The Deift-Zhou steepest descent method to long-time asymptotics for the Sasa-Batsuma equation. <i>Journal of Differential Equations</i> , 2018 , 265, 5984-6008	2.1	21
82	The Nonlinear Steepest Descent Method to Long-Time Asymptotics of the Coupled Nonlinear Schrödinger Equation. <i>Journal of Nonlinear Science</i> , 2018 , 28, 739-763	2.8	63
81	Periodic and rational solutions of the reduced Maxwell-Bloch equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 59, 1-14	3.7	46
80	The Riemann theta function solutions for the hierarchy of Bogoyavlensky lattices. <i>Transactions of the American Mathematical Society</i> , 2018 , 371, 1483-1507	1	35
79	A hierarchy of long wave-short wave type equations: quasi-periodic behavior of solutions and their representation. <i>Journal of Nonlinear Mathematical Physics</i> , 2018 , 26, 1	0.9	1

78	Riemann surface and Riemann theta function solutions of the discrete integrable hierarchy. <i>Chaos, Solitons and Fractals</i> , 2018 , 116, 365-375	9.3	1
77	Riemann-Hilbert approach to TD equation with nonzero boundary condition. <i>Frontiers of Mathematics in China</i> , 2018 , 13, 1245-1265	0.8	5
76	Application of the trigonal curve to the Blaszak-Marciniak lattice hierarchy. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2017 , 190, 18-42	0.7	4
75	Inverse scattering transform and soliton classification of the coupled modified Korteweg-de Vries equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 53, 83-93	3.7	38
74	Three-Component Generalisation of Burgers Equation and Its Bi-Hamiltonian Structures. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017 , 72, 469-475	1.4	
73	The coupled Sasa-Batsuma hierarchy: Trigonol curve and finite genus solutions. <i>Analysis and Applications</i> , 2017 , 15, 667-697	2.5	6
72	Some generalized coupled nonlinear Schrödinger equations and conservation laws. <i>Modern Physics Letters B</i> , 2017 , 31, 1750299	1.6	2
71	Quasi-periodic solutions of the Belov-Chaltikian lattice hierarchy. <i>Reviews in Mathematical Physics</i> , 2017 , 29, 1750025	1.2	5
70	Algebro-geometric constructions of quasi-periodic flows of the Newell hierarchy and applications. <i>IMA Journal of Applied Mathematics</i> , 2017 , 82, 97-130	1	5
69	Algebro-geometric solutions to the Manakov hierarchy. <i>Applicable Analysis</i> , 2016 , 95, 769-800	0.8	9
68	Quasi-periodic Solutions to the $K(\mathbb{Q}, \mathbb{Q})$ Hierarchy. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016 , 71, 639-645	1.4	
67	Algebro-geometric constructions of the Wadati-Konno-Ichikawa flows and applications. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 734-743	2.3	5
66	A vector generalization of Volterra type differential-difference equations. <i>Applied Mathematics Letters</i> , 2016 , 55, 36-41	3.5	6
65	Riemann-Hilbert approach and . <i>Wave Motion</i> , 2016 , 60, 62-72	1.8	97
64	Integrable couplings of fractional L-hierarchy and its Hamiltonian structures. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 3925-3931	2.3	
63	Quasi-periodic solutions to the hierarchy of four-component Toda lattices. <i>Journal of Geometry and Physics</i> , 2016 , 106, 26-41	1.2	8
62	The application of trigonal curve to the Mikhailov-Shabat-Bokolov flows. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016 , 67, 1	1.6	
61	A new integrable equation with peakons and cuspons and its bi-Hamiltonian structure. <i>Applied Mathematics Letters</i> , 2015 , 46, 64-69	3.5	7

60	A hierarchy of new nonlinear evolution equations and generalized bi-Hamiltonian structures. <i>Applied Mathematics and Computation</i> , 2015 , 268, 664-670	2.7	8
59	Darboux transformation of the Drinfeld-Sokolov-Satsuma-Hirota system and exact solutions. <i>Annals of Physics</i> , 2015 , 361, 215-225	2.5	13
58	A note on the quasi-periodic solutions of the modified Boussinesq hierarchy. <i>Journal of Geometry and Physics</i> , 2015 , 96, 133-145	1.2	1
57	Initial-Boundary Value Problems for the Coupled Nonlinear Schrödinger Equation on the Half-Line. <i>Studies in Applied Mathematics</i> , 2015 , 135, 310-346	2.1	44
56	Generalized Bilinear Differential Operators Application in a (3+1)-Dimensional Generalized Shallow Water Equation. <i>Advances in Mathematical Physics</i> , 2015 , 2015, 1-9	1.1	3
55	Explicit quasi-periodic solutions of the Kaup-Newell hierarchy. <i>Journal of Mathematical Analysis and Applications</i> , 2015 , 425, 1097-1112	1.1	14
54	The AB Equations and the (bar partial)-dressing Method in Semi-Characteristic Coordinates. <i>Mathematical Physics Analysis and Geometry</i> , 2014 , 17, 49-65	0.8	17
53	Quasiperiodic solutions of the discrete Chen-Lee-Liu hierarchy. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2014 , 179, 649-678	0.7	11
52	Algebro-geometric solutions of the coupled modified Korteweg-de Vries hierarchy. <i>Advances in Mathematics</i> , 2014 , 263, 123-153	1.3	69
51	Algebro-geometric solutions of the discrete Ragnisco-Tu hierarchy. <i>Reports on Mathematical Physics</i> , 2014 , 73, 17-48	0.8	5
50	A super hierarchy of coupled derivative nonlinear Schrödinger equations and conservation laws. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 2228-2233	3.7	2
49	Exact quasi-periodic solutions of the Konno-Ono equations. <i>Physica Scripta</i> , 2014 , 89, 075210	2.6	1
48	Algebro-geometric Quasi-periodic Solutions to the Three-Wave Resonant Interaction Hierarchy. <i>SIAM Journal on Mathematical Analysis</i> , 2014 , 46, 1348-1384	1.7	19
47	Explicit quasi-periodic solutions of the Vakhnenko equation. <i>Journal of Mathematical Physics</i> , 2014 , 55, 053512	1.2	1
46	Nonlinear Super Integrable Couplings of Super Classical-Boussinesq Hierarchy. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-7	1.1	
45	A Super Camassa-Holm Equation with N-Peakon Solutions. <i>Studies in Applied Mathematics</i> , 2013 , 130, 1-16	2.1	17
44	Coupled Camassa-Holm equations, N-peakons and infinitely many conservation laws. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 403, 262-271	1.1	11
43	Algebro-Geometric Solutions of the TD Hierarchy. <i>Mathematical Physics Analysis and Geometry</i> , 2013 , 16, 229-251	0.8	8

42	Quasi-periodic Solutions of the Kaup-Burgers hierarchy. <i>Journal of Nonlinear Science</i> , 2013 , 23, 527-555	2.8	34
41	A super hierarchy of the vector nonlinear Schrödinger equations and Hamiltonian structures, conservation laws. <i>Journal of Mathematical Physics</i> , 2013 , 54, 083509	1.2	4
40	The full positive flows of Manakov hierarchy, Hamiltonian structures and conservation laws. <i>Applied Mathematics and Computation</i> , 2013 , 220, 20-37	2.7	9
39	Quasi-Periodic Solutions of Coupled KDV Type Equations. <i>Journal of Nonlinear Mathematical Physics</i> , 2013 , 20, 61	0.9	5
38	Quasi-periodic solutions to the two-component nonlinear Klein-Gordon equation. <i>Journal of Geometry and Physics</i> , 2013 , 66, 1-17	1.2	5
37	Straightening out of the flows for the Hu hierarchy and its algebro-geometric solutions. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 397, 561-576	1.1	11
36	Darboux transformation for an integrable generalization of the nonlinear Schrödinger equation. <i>Nonlinear Dynamics</i> , 2012 , 69, 1621-1630	5	93
35	Darboux and Bäcklund transformations of the bidirectional Sawada-Kotera equation. <i>Applied Mathematics and Computation</i> , 2012 , 218, 6963-6965	2.7	16
34	Quasiperiodic solutions of Jaulent-Miodek equations with a negative flow. <i>Journal of Mathematical Physics</i> , 2012 , 53, 063710	1.2	1
33	Algebro-geometric solutions to the modified Sawada-Kotera hierarchy. <i>Journal of Mathematical Physics</i> , 2012 , 53, 123513	1.2	3
32	A GENERALIZATION OF TODA LATTICES AND THEIR BI-HAMILTONIAN STRUCTURES. <i>Modern Physics Letters B</i> , 2012 , 26, 1250078	1.6	4
31	??Boussinesq ????????. <i>Scientia Sinica Mathematica</i> , 2012 , 42, 711-734	2.5	2
30	A three-component generalization of Camassa-Holm equation with N-peakon solutions. <i>Advances in Mathematics</i> , 2011 , 226, 827-839	1.3	47
29	Algebro-geometric constructions of the modified Boussinesq flows and quasi-periodic solutions. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 1262-1288	3.3	47
28	DECOMPOSITION AND STRAIGHTENING OUT OF THE DISCRETE KAUP-BURGER FLOWS. <i>International Journal of Modern Physics B</i> , 2011 , 25, 4513-4531	1.1	5
27	SOME NEW INTEGRABLE NONLINEAR EVOLUTION EQUATIONS AND THEIR INFINITELY MANY CONSERVATION LAWS. <i>Modern Physics Letters B</i> , 2010 , 24, 2077-2090	1.6	5
26	Quasi-periodic solutions of mixed AKNS equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2010 , 73, 3662-3674	1.3	20
25	Darboux transformation and explicit solutions for the Satsuma-Hirota coupled equation. <i>Applied Mathematics and Computation</i> , 2010 , 216, 2628-2634	2.7	13

24	A new super-extension of the KdV hierarchy. <i>Applied Mathematics Letters</i> , 2010 , 23, 716-721	3.5	21
23	Darboux transformation for a generalized Hirota-Satsuma coupled Korteweg-de Vries equation. <i>Physical Review E</i> , 2009 , 79, 056602	2.4	15
22	On the application of a generalized dressing method to the integration of variable-coefficient coupled Hirota equations. <i>Journal of Mathematical Physics</i> , 2009 , 50, 113507	1.2	5
21	An extension of integrable peakon equations with cubic nonlinearity. <i>Nonlinearity</i> , 2009 , 22, 1847-1856	1.7	89
20	Decomposition of the Discrete Ablowitz-Adik Hierarchy. <i>Studies in Applied Mathematics</i> , 2007 , 118, 281-312	3.12	82
19	A Hierarchy of New Nonlinear Differential-Difference Equations. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 013002	1.5	6
18	Algebro-Geometric Solution to the Modified Kadomtsev-Petviashvili Equation. <i>Journal of the Physical Society of Japan</i> , 2005 , 74, 2217-2222	1.5	11
17	Algebro-geometric constructions of the discrete Ablowitz-Adik flows and applications. <i>Journal of Mathematical Physics</i> , 2003 , 44, 4573	1.2	40
16	Algebraic-geometrical solutions of some multidimensional nonlinear evolution equations. <i>Journal of Physics A</i> , 2003 , 36, 2289-2303		97
15	Algebro-geometric solution of the 2+1 dimensional Burgers equation with a discrete variable. <i>Journal of Mathematical Physics</i> , 2002 , 43, 621-643	1.2	76
14	Decomposition of the (2 + 1)- dimensional Gardner equation and its quasi-periodic solutions. <i>Nonlinearity</i> , 2001 , 14, 1433-1452	1.7	105
13	On the decomposition of the modified Kadomtsev-Petviashvili equation and explicit solutions. <i>Journal of Mathematical Physics</i> , 2000 , 41, 7501-7509	1.2	21
12	Finite-band solutions of the classical Boussinesq-Burgers equations. <i>Journal of Mathematical Physics</i> , 1999 , 40, 2971-2982	1.2	45
11	A finite-dimensional integrable system associated with the three-wave interaction equations. <i>Journal of Mathematical Physics</i> , 1999 , 40, 3409-3430	1.2	22
10	Relation between the Kadomtsev-Petviashvili equation and the confocal involutive system. <i>Journal of Mathematical Physics</i> , 1999 , 40, 3948-3970	1.2	226
9	Quasi-periodic solutions of the modified Kadomtsev-Petviashvili equation. <i>Journal of Physics A</i> , 1999 , 32, 3733-3742		82
8	Darboux Transformation and Soliton Solutions for Generalized Nonlinear Schrödinger Equations. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 1508-1512	1.5	106
7	A New Integrable Symplectic Map of Neumann Type. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 784-790	1.5	21

6	New Finite-Dimensional Completely Integrable Systems Associated with the Sine-Gordon Equation. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 2878-2881	1.5	17
5	A new hierarchy of integrable differential-difference equations and Darboux transformation. <i>Journal of Physics A</i> , 1998 , 31, L677-L684		81
4	A new integrable symplectic map associated with lattice soliton equations. <i>Journal of Mathematical Physics</i> , 1996 , 37, 2338-2345	1.2	71
3	A nonconfocal generator of involutive systems and three associated soliton hierarchies. <i>Journal of Mathematical Physics</i> , 1991 , 32, 2323-2328	1.2	57
2	Classical Integrable Systems Generated Through Nonlinearization of Eigenvalue Problems. <i>Research Reports in Physics</i> , 1990 , 68-78		95
1	DARBOUX TRANSFORMATION OF THE DISCRETE ABLOWITZ-ADIK EIGENVALUE PROBLEM. <i>Acta Mathematica Scientia</i> , 1989 , 9, 21-26	0.7	45