Xianguo Geng

List of Publications by Citations

Source: https://exaly.com/author-pdf/8608138/xianguo-geng-publications-by-citations.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.

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	Relation between the Kadometsev-Petviashvili equation and the confocal involutive system. *Journal of Mathematical Physics*, **1999**, 40, 3948-3970	1.2	226
130	Darboux Transformation and Soliton Solutions for Generalized Nonlinear Schrödinger Equations. *Journal of the Physical Society of Japan*, **1999**, 68, 1508-1512	1.5	106
129	Decomposition of the (2 + 1)- dimensional Gardner equation and its quasi-periodic solutions. *Nonlinearity*, **2001**, 14, 1433-1452	1.7	105
128	Riemann-Hilbert approach and . *Wave Motion*, **2016**, 60, 62-72	1.8	97
127	Algebraic-geometrical solutions of some multidimensional nonlinear evolution equations. *Journal of Physics A*, **2003**, 36, 2289-2303		97
126	Classical Integrable Systems Generated Through Nonlinearization of Eigenvalue Problems. *Research Reports in Physics*, **1990**, 68-78		95
125	Darboux transformation for an integrable generalization of the nonlinear Schrödinger equation. *Nonlinear Dynamics*, **2012**, 69, 1621-1630	5	93
124	An extension of integrable peakon equations with cubic nonlinearity. *Nonlinearity*, **2009**, 22, 1847-1856	1.7	89
123	Decomposition of the Discrete Ablowitz-Ladik Hierarchy. *Studies in Applied Mathematics*, **2007**, 118, 281-312	2.2	82
122	Quasi-periodic solutions of the modified Kadomtsev-Petviashvili equation. *Journal of Physics A*, **1999**, 32, 3733-3742		82
121	A new hierarchy of integrable differential-difference equations and Darboux transformation. *Journal of Physics A*, **1998**, 31, L677-L684		81
120	Algebro-geometric solution of the 2+1 dimensional Burgers equation with a discrete variable. *Journal of Mathematical Physics*, **2002**, 43, 621-643	1.2	76
119	A new integrable symplectic map associated with lattice soliton equations. *Journal of Mathematical Physics*, **1996**, 37, 2338-2345	1.2	71
118	Algebro-geometric solutions of the coupled modified Korteweg-de Vries hierarchy. *Advances in Mathematics*, **2014**, 263, 123-153	1.3	69
117	The Nonlinear Steepest Descent Method to Long-Time Asymptotics of the Coupled Nonlinear Schrödinger Equation. *Journal of Nonlinear Science*, **2018**, 28, 739-763	2.8	63
116	A nonconfocal generator of involutive systems and three associated soliton hierarchies. *Journal of Mathematical Physics*, **1991**, 32, 2323-2328	1.2	57
115	A three-component generalization of Camassa-Holm equation with N-peakon solutions. *Advances in Mathematics*, **2011**, 226, 827-839	1.3	47

114	Algebro-geometric constructions of the modified Boussinesq flows and quasi-periodic solutions. *Physica D: Nonlinear Phenomena*, **2011**, 240, 1262-1288	3.3	47
113	Periodic and rational solutions of the reduced Maxwell–Bloch equations. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 59, 1-14	3.7	46
112	Finite-band solutions of the classical Boussinesq–Burgers equations. *Journal of Mathematical Physics*, **1999**, 40, 2971-2982	1.2	45
111	DARBOUX TRANSFORMATION OF THE DISCRETE ABLOWITZ–LADIK EIGENVALUE PROBLEM. *Acta Mathematica Scientia*, **1989**, 9, 21-26	0.7	45
110	Initial-Boundary Value Problems for the Coupled Nonlinear Schrödinger Equation on the Half-Line. *Studies in Applied Mathematics*, **2015**, 135, 310-346	2.1	44
109	Rogue periodic waves of the sine-Gordon equation. *Applied Mathematics Letters*, **2020**, 102, 106147	3.5	44
108	Algebro-geometric constructions of the discrete Ablowitz–Ladik flows and applications. *Journal of Mathematical Physics*, **2003**, 44, 4573	1.2	40
107	Inverse scattering transform and soliton classification of the coupled modified Korteweg-de Vries equation. *Communications in Nonlinear Science and Numerical Simulation*, **2017**, 53, 83-93	3.7	38
106	On a vector long wave-short wave-type model. *Studies in Applied Mathematics*, **2020**, 144, 164-184	2.1	38
105	A Vector General Nonlinear Schrödinger Equation with ((m+n)) Components. *Journal of Nonlinear Science*, **2020**, 30, 991-1013	2.8	37
104	The Riemann theta function solutions for the hierarchy of Bogoyavlensky lattices. *Transactions of the American Mathematical Society*, **2018**, 371, 1483-1507	1	35
103	Quasi-periodic Solutions of the Kaup–Kupershmidt Hierarchy. *Journal of Nonlinear Science*, **2013**, 23, 527-555	2.8	34
102	Rational solutions for a (3+1)-dimensional nonlinear evolution equation. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 83, 105116	3.7	27
101	A finite-dimensional integrable system associated with the three-wave interaction equations. *Journal of Mathematical Physics*, **1999**, 40, 3409-3430	1.2	22
100	Long-Time Asymptotics for the Spin-1 Gross–Pitaevskii Equation. *Communications in Mathematical Physics*, **2021**, 382, 585-611	2	22
99	The Deift–Zhou steepest descent method to long-time asymptotics for the Sasa–Satsuma equation. *Journal of Differential Equations*, **2018**, 265, 5984-6008	2.1	21
98	A new super-extension of the KdV hierarchy. *Applied Mathematics Letters*, **2010**, 23, 716-721	3.5	21
97	On the decomposition of the modified Kadomtsev–Petviashvili equation and explicit solutions. *Journal of Mathematical Physics*, **2000**, 41, 7501-7509	1.2	21

96	A New Integrable Symplectic Map of Neumann Type. *Journal of the Physical Society of Japan*, **1999**, 68, 784-790	1.5	21
95	Quasi-periodic solutions of mixed AKNS equations. *Nonlinear Analysis: Theory, Methods & Applications*, **2010**, 73, 3662-3674	1.3	20
94	Algebro-geometric Quasi-periodic Solutions to the Three-Wave Resonant Interaction Hierarchy. *SIAM Journal on Mathematical Analysis*, **2014**, 46, 1348-1384	1.7	19
93	The AB Equations and the (bar partial)-dressing Method in Semi-Characteristic Coordinates. *Mathematical Physics Analysis and Geometry*, **2014**, 17, 49-65	0.8	17
92	A Super CamassaHolm Equation with N-Peakon Solutions. *Studies in Applied Mathematics*, **2013**, 130, 1-16	2.1	17
91	New Finite-Dimensional Completely Integrable Systems Associated with the Sine-Gordon Equation. *Journal of the Physical Society of Japan*, **1999**, 68, 2878-2881	1.5	17
90	Riemann theta function solutions of the CaudreyDoddGibbonSawadaKotera hierarchy. *Journal of Geometry and Physics*, **2019**, 140, 85-103	1.2	16
89	A new nonlinear wave equation: Darboux transformation and soliton solutions. *Wave Motion*, **2018**, 79, 44-56	1.8	16
88	Darboux and Bklund transformations of the bidirectional SawadaKotera equation. *Applied Mathematics and Computation*, **2012**, 218, 6963-6965	2.7	16
87	Darboux transformation for a generalized Hirota-Satsuma coupled Korteweg-de Vries equation. *Physical Review E*, **2009**, 79, 056602	2.4	15
86	Explicit quasi-periodic solutions of the KaupNewell hierarchy. *Journal of Mathematical Analysis and Applications*, **2015**, 425, 1097-1112	1.1	14
85	Darboux transformation of the DrinfeldSokolovSatsumaHirota system and exact solutions. *Annals of Physics*, **2015**, 361, 215-225	2.5	13
84	Trace formula and new form of N-soliton to the GerdjikovIvanov equation. *Analysis and Mathematical Physics*, **2018**, 8, 415-426	1.3	13
83	Darboux transformation and explicit solutions for the SatsumaHirota coupled equation. *Applied Mathematics and Computation*, **2010**, 216, 2628-2634	2.7	13
82	Quasiperiodic solutions of the discrete Chen-Lee-Liu hierarchy. *Theoretical and Mathematical Physics(Russian Federation)*, **2014**, 179, 649-678	0.7	11
81	Coupled CamassaHolm equations,N-peakons and infinitely many conservation laws. *Journal of Mathematical Analysis and Applications*, **2013**, 403, 262-271	1.1	11
80	Straightening out of the flows for the Hu hierarchy and its algebro-geometric solutions. *Journal of Mathematical Analysis and Applications*, **2013**, 397, 561-576	1.1	11
79	Algebro-Geometric Solution to the Modified KadomtsevPetviashvili Equation. *Journal of the Physical Society of Japan*, **2005**, 74, 2217-2222	1.5	11

78	Riemann–Hilbert approach and N-soliton solutions for a new two-component Sasa–Satsuma equation. *Nonlinear Dynamics*, **2020**, 101, 597-609	5	10
77	Dynamical behaviour of rogue wave solutions in a multi-component AB system. *Wave Motion*, **2019**, 89, 1-13	1.8	10
76	Algebro-geometric solutions to the Manakov hierarchy. *Applicable Analysis*, **2016**, 95, 769-800	0.8	9
75	Long-time asymptotics of the coupled modified Korteweg–de Vries equation. *Journal of Geometry and Physics*, **2019**, 142, 151-167	1.2	9
74	The full positive flows of Manakov hierarchy, Hamiltonian structures and conservation laws. *Applied Mathematics and Computation*, **2013**, 220, 20-37	2.7	9
73	A hierarchy of new nonlinear evolution equations and generalized bi-Hamiltonian structures. *Applied Mathematics and Computation*, **2015**, 268, 664-670	2.7	8
72	A matrix Yajima–Oikawa long-wave-short-wave resonance equation, Darboux transformations and rogue wave solutions. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 90, 105408	3.7	8
71	Breathers and breather-rogue waves on a periodic background for the derivative nonlinear Schrödinger equation. *Physica Scripta*, **2020**, 95, 055216	2.6	8
70	Algebro-Geometric Solutions of the TD Hierarchy. *Mathematical Physics Analysis and Geometry*, **2013**, 16, 229-251	0.8	8
69	Quasi-periodic solutions to the hierarchy of four-component Toda lattices. *Journal of Geometry and Physics*, **2016**, 106, 26-41	1.2	8
68	The Application of the Theory of Trigonal Curves to the Discrete Coupled Nonlinear Schrödinger Hierarchy. *Annales Henri Poincare*, **2019**, 20, 2585-2621	1.2	7
67	A new integrable equation with peakons and cuspons and its bi-Hamiltonian structure. *Applied Mathematics Letters*, **2015**, 46, 64-69	3.5	7
66	A generalized complex mKdV equation: Darboux transformations and explicit solutions. *Wave Motion*, **2020**, 98, 102639	1.8	7
65	The coupled Sasa–Satsuma hierarchy: Trigonal curve and finite genus solutions. *Analysis and Applications*, **2017**, 15, 667-697	2.5	6
64	A vector generalization of Volterra type differential–difference equations. *Applied Mathematics Letters*, **2016**, 55, 36-41	3.5	6
63	A Hierarchy of New Nonlinear Differential-Difference Equations. *Journal of the Physical Society of Japan*, **2006**, 75, 013002	1.5	6
62	Algebro-geometric constructions of the Wadati-Konno-Ichikawa flows and applications. *Mathematical Methods in the Applied Sciences*, **2016**, 39, 734-743	2.3	5
61	Algebro-geometric solutions of the discrete Ragnisco-Tu hierarchy. *Reports on Mathematical Physics* , **2014**, 73, 17-48	0.8	5

60	Quasi-Periodic Solutions of Coupled KDV Type Equations. *Journal of Nonlinear Mathematical Physics* , **2013**, 20, 61	0.9	5
59	Quasi-periodic solutions of the Belov□haltikian lattice hierarchy. *Reviews in Mathematical Physics*, **2017**, 29, 1750025	1.2	5
58	Algebro-geometric constructions of quasi-periodic flows of the Newell hierarchy and applications. *IMA Journal of Applied Mathematics*, **2017**, 82, 97-130	1	5
57	Quasi-periodic solutions to the two-component nonlinear Klein□ordon equation. *Journal of Geometry and Physics*, **2013**, 66, 1-17	1.2	5
56	SOME NEW INTEGRABLE NONLINEAR EVOLUTION EQUATIONS AND THEIR INFINITELY MANY CONSERVATION LAWS. *Modern Physics Letters B*, **2010**, 24, 2077-2090	1.6	5
55	On the application of a generalized dressing method to the integration of variable-coefficient coupled Hirota equations. *Journal of Mathematical Physics*, **2009**, 50, 113507	1.2	5
54	DECOMPOSITION AND STRAIGHTENING OUT OF THE DISCRETE KAUP□NEWELL FLOWS. *International Journal of Modern Physics B*, **2011**, 25, 4513-4531	1.1	5
53	Finite Genus Solutions to the Coupled Burgers Hierarchy. *Results in Mathematics*, **2019**, 74, 1	0.9	5
52	Riemann-Hilbert approach to TD equation with nonzero boundary condition. *Frontiers of Mathematics in China*, **2018**, 13, 1245-1265	0.8	5
51	Application of the trigonal curve to the Blaszak□Marciniak lattice hierarchy. *Theoretical and Mathematical Physics(Russian Federation)*, **2017**, 190, 18-42	0.7	4
50	Algebro-Geometric Integration of the Modified Belov□haltikian Lattice Hierarchy. *Theoretical and Mathematical Physics(Russian Federation)*, **2019**, 199, 675-694	0.7	4
49	Riemann□ilbert Method for the Three-Component Sasa□atsuma Equation and Its N-Soliton Solutions. *Reports on Mathematical Physics*, **2020**, 85, 77-103	0.8	4
48	The vector derivative nonlinear Schr□inger equation on the half-line. *IMA Journal of Applied Mathematics*, **2018**, 83, 148-173	1	4
47	N solutions for a derivative nonlinear Schr□inger-type equation via Riemann-Hilbert approach. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 1653-1660	2.3	4
46	A super hierarchy of the vector nonlinear Schr□inger equations and Hamiltonian structures, conservation laws. *Journal of Mathematical Physics*, **2013**, 54, 083509	1.2	4
45	A GENERALIZATION OF TODA LATTICES AND THEIR BI-HAMILTONIAN STRUCTURES. *Modern Physics Letters B*, **2012**, 26, 1250078	1.6	4
44	Darboux transformations for a matrix long-wave□hort-wave equation and higher-order rational rogue-wave solutions. *Mathematical Methods in the Applied Sciences*, **2020**, 43, 948-967	2.3	4
43	A generalization of the Landau-Lifschitz equation: breathers and rogue waves. *Journal of Nonlinear Mathematical Physics*, **2020**, 27, 279	0.9	3

42	Riemann–Hilbert approach for the combined nonlinear Schrödinger and Gerdjikov–Ivanov equation and its N-soliton solutions. *Modern Physics Letters B*, **2018**, 32, 1850088	1.6	3
41	Generalized Bilinear Differential Operators Application in a (3+1)-Dimensional Generalized Shallow Water Equation. *Advances in Mathematical Physics*, **2015**, 2015, 1-9	1.1	3
40	Algebro-geometric solutions to the modified Sawada-Kotera hierarchy. *Journal of Mathematical Physics*, **2012**, 53, 123513	1.2	3
39	Higher-order solutions of a matrix AKNS system associated with a Hermitian symmetric space. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 3047-3055	2.3	2
38	A super hierarchy of coupled derivative nonlinear Schrödinger equations and conservation laws. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 2228-2233	3.7	2
37	Some generalized coupled nonlinear Schrödinger equations and conservation laws. *Modern Physics Letters B*, **2017**, 31, 1750299	1.6	2
36	??Boussinesq ????????. *Scientia Sinica Mathematica*, **2012**, 42, 711-734	2.5	2
35	Long-time asymptotics for the generalized Sasa-Satsuma equation. *AIMS Mathematics*, **2020**, 5, 7413-7437	2.2	2
34	On a Vector Modified Yajima–Oikawa Long-Wave–Short-Wave Equation. *Mathematics*, **2019**, 7, 958	2.3	2
33	A second-order three-wave interaction system and its rogue wave solutions. *Nonlinear Dynamics*, **2021**, 105, 2575-2593	5	2
32	Spectral analysis and long-time asymptotics for the potential Wadati-Konno-Ichikawa equation. *Journal of Mathematical Analysis and Applications*, **2021**, 501, 125170	1.1	2
31	A note on the quasi-periodic solutions of the modified Boussinesq hierarchy. *Journal of Geometry and Physics*, **2015**, 96, 133-145	1.2	1
30	Riemann theta function solutions to the coupled long wave–short wave resonance equations. *Analysis and Mathematical Physics*, **2020**, 10, 1	1.3	1
29	Exact quasi-periodic solutions of the Konno–Ono equations. *Physica Scripta*, **2014**, 89, 075210	2.6	1
28	Explicit quasi-periodic solutions of the Vakhnenko equation. *Journal of Mathematical Physics*, **2014**, 55, 053512	1.2	1
27	Quasiperiodic solutions of Jaulent-Miodek equations with a negative flow. *Journal of Mathematical Physics*, **2012**, 53, 063710	1.2	1
26	Darboux transformation and exact solutions for a four-component Fokas–Lenells equation. *Results in Physics*, **2021**, 31, 105027	3.7	1
25	Darboux transformation of a two-component generalized Sasa–Satsuma equation and explicit solutions. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 12727	2.3	1

24	Coupled discrete Sawada–Kotera equations and their explicit quasi-periodic solutions. *Analysis and Mathematical Physics*, **2021**, 11, 1	1.3	1
23	An integrable generalized Korteweg–de Vries equation with pseudo-peakons. *Applied Mathematics Letters*, **2021**, 115, 106942	3.5	1
22	A hierarchy of long wave-short wave type equations: quasi-periodic behavior of solutions and their representation. *Journal of Nonlinear Mathematical Physics*, **2018**, 26, 1	0.9	1
21	Riemann surface and Riemann theta function solutions of the discrete integrable hierarchy. *Chaos, Solitons and Fractals*, **2018**, 116, 365-375	9.3	1
20	Finite-Band Solutions for the Hierarchy of Coupled Toda Lattices. *Acta Applicandae Mathematicae*, **2018**, 154, 59-81	1.1	0
19	A hierarchy of generalized Jaulent–Miodek equations and their explicit solutions. *International Journal of Geometric Methods in Modern Physics*, **2018**, 15, 1850002	1.5	0
18	[illegible] *Theoretical and Mathematical Physics*, **2019**, 199, 235-256	0.2	0
17	Spectral analysis and soliton structures for the Hermitian symmetric space Fokas–Lenells equation. *Nonlinear Dynamics*, **2021**, 106, 907-918	5	0
16	Coupled derivative nonlinear Schrödinger III equation: Darboux transformation and higher-order rogue waves in a two-mode nonlinear fiber. *Applied Mathematics and Computation*, **2021**, 411, 126551	2.7	0
15	A vector Geng–Li model: New nonlinear phenomena and breathers on periodic background waves. *Physica D: Nonlinear Phenomena*, **2022**, 434, 133270	3.3	0
14	Long-time asymptotics for the modified complex short pulse equation. *Discrete and Continuous Dynamical Systems*, **2022**,	2	0
13	Three-Component Generalisation of Burgers Equation and Its Bi-Hamiltonian Structures. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2017**, 72, 469-475	1.4	
12	An extension of the coupled derivative nonlinear Schrödinger hierarchy. *Modern Physics Letters B*, **2018**, 32, 1850016	1.6	
11	A super Sasa–Satsuma hierarchy and bi-Hamiltonian structures. *Applied Mathematics Letters*, **2018**, 83, 46-52	3.5	
10	Quasi-periodic Solutions to the K(2, 2) Hierarchy. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2016**, 71, 639-645	1.4	
9	Nonlinear Super Integrable Couplings of Super Classical-Boussinesq Hierarchy. *Journal of Applied Mathematics*, **2014**, 2014, 1-7	1.1	
8	A vector super Newell long-wave-short-wave equation and infinite conservation laws. *Partial Differential Equations in Applied Mathematics*, **2021**, 5, 100206	0.8	
7	Riemann–Hilbert approach and N-soliton solutions for a negative matrix AKNS system with a Hermitian symmetric space. *Wave Motion*, **2021**, 108, 102838	1.8	

6	Explicit Solutions of the Coupled Bogoyavlensky Lattice 1(2) Hierarchy. *Results in Mathematics*, **2021**, 76, 1	0.9
5	Quasi-periodic solutions of the Heisenberg hierarchy. *Analysis and Mathematical Physics*, **2021**, 11, 1	1.3
4	Integrable couplings of fractional L-hierarchy and its Hamiltonian structures. *Mathematical Methods in the Applied Sciences*, **2016**, 39, 3925-3931	2.3
3	The application of trigonal curve to the Mikhailov–Shabat–Sokolov flows. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2016**, 67, 1	1.6
2	A Degasperis–Procesi equation II with multi-peakon solutions. *Applied Mathematics Letters*, **2021**, 121, 107463	3.5
1	Riemann–Hilbert approach and long-time asymptotics for the three-component derivative nonlinear Schrödinger equation. *Analysis and Mathematical Physics*, **2022**, 12, 1	1.3