

Xin-Yi Gao

List of Publications by Year in descending order

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35
papers

1,748
citations

331538

21
h-index

414303

32
g-index

36
all docs

36
docs citations

36
times ranked

337
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-wave symbolic computation for the Earth, Enceladus and Titan: The higher-order Boussinesq-Burgers system, auto- and non-auto-Bäcklund transformations. Applied Mathematics Letters, 2020, 104, 106170.	1.5	172
2	Bäcklund transformation and shock-wave-type solutions for a generalized (3+1)-dimensional variable-coefficient B-type Kadomtsev-Petviashvili equation in fluid mechanics. Ocean Engineering, 2015, 96, 245-247.	1.9	168
3	Looking at a nonlinear inhomogeneous optical fiber through the generalized higher-order variable-coefficient Hirota equation. Applied Mathematics Letters, 2017, 73, 143-149.	1.5	157
4	Mathematical view with observational/experimental consideration on certain (2+1)-dimensional waves in the cosmic/laboratory dusty plasmas. Applied Mathematics Letters, 2019, 91, 165-172.	1.5	138
5	Optical waves/modes in a multicomponent inhomogeneous optical fiber via a three-coupled variable-coefficient nonlinear Schrödinger system. Applied Mathematics Letters, 2021, 120, 107161.	1.5	135
6	Shallow water in an open sea or a wide channel: Auto- and non-auto-Bäcklund transformations with solitons for a generalized (2+1)-dimensional dispersive long-wave system. Chaos, Solitons and Fractals, 2020, 138, 109950.	2.5	110
7	Bilinear forms through the binary Bell polynomials, N solitons and Bäcklund transformations of the Boussinesq-Burgers system for the shallow water waves in a lake or near an ocean beach. Communications in Theoretical Physics, 2020, 72, 095002.	1.1	74
8	Hetero-Bäcklund transformation and similarity reduction of an extended (2+1)-dimensional coupled Burgers system in fluid mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126788.	0.9	70
9	Looking at an open sea via a generalized (2+1)-dimensional dispersive long-wave system for the shallow water: scaling transformations, hetero-Bäcklund transformations, bilinear forms and N solitons. European Physical Journal Plus, 2021, 136, 1.	1.2	55
10	Magneto-optical/ferromagnetic-material computation: Bäcklund transformations, bilinear forms and N solitons for a generalized (3+1)-dimensional variable-coefficient modified Kadomtsev-Petviashvili system. Applied Mathematics Letters, 2021, 111, 106627.	1.5	54
11	Reflecting upon some electromagnetic waves in a ferromagnetic film via a variable-coefficient modified Kadomtsev-Petviashvili system. Applied Mathematics Letters, 2022, 132, 108189.	1.5	52
12	Cosmic dusty plasmas via a (3+1)-dimensional generalized variable-coefficient Kadomtsev-Petviashvili-Burgers-type equation: auto-Bäcklund transformations, solitons and similarity reductions plus observational/experimental supports. Waves in Random and Complex Media, 0, , 1-21.	1.6	50
13	Symbolic computation on a generalized variable-coefficient Boiti-Leon-Pempinelli system for the water waves. Chaos, Solitons and Fractals, 2021, 150, 111066.	2.5	49
14	Beholding the shallow water waves near an ocean beach or in a lake via a Boussinesq-Burgers system. Chaos, Solitons and Fractals, 2021, 147, 110875.	2.5	38
15	Taking into consideration an extended coupled (2+1)-dimensional Burgers system in oceanography, acoustics and hydrodynamics. Chaos, Solitons and Fractals, 2022, 161, 112293.	2.5	35
16	Variety of the cosmic plasmas: General variable-coefficient Korteweg-de Vries-Burgers equation with experimental/observational support. Europhysics Letters, 2015, 110, 15002.	0.7	34
17	Certain electromagnetic waves in a ferromagnetic film. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106066.	1.7	33
18	Similarity reductions for a generalized (3+1)-dimensional variable-coefficient B-type Kadomtsev-Petviashvili equation in fluid dynamics. Chinese Journal of Physics, 2022, 77, 2707-2712.	2.0	31

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19	Density-fluctuation symbolic computation on the (3+1)-dimensional variable-coefficient Kudryashov-Sinelshchikov equation for a bubbly liquid with experimental support. <i>Modern Physics Letters B</i> , 2016, 30, 1650217.	1.0	27
20	Incompressible-Fluid Symbolic Computation and Bäcklund Transformation: (3+1)-Dimensional Variable-Coefficient Boiti-Leon-Manna-Pempinelli Model. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015, 70, 59-61.	0.7	26
21	Viewing the Solar System via a variable-coefficient nonlinear dispersive-wave system. <i>Acta Mechanica</i> , 2020, 231, 4415-4420.	1.1	24
22	Oceanic studies via a variable-coefficient nonlinear dispersive-wave system in the Solar System. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110367.	2.5	22
23	Hetero-Bäcklund Transformation, Bilinear Forms and N Solitons for a Generalized Three-Coupled Korteweg-de Vries System. <i>Qualitative Theory of Dynamical Systems</i> , 2021, 20, 1.	0.8	22
24	In the Atmosphere and Oceanic Fluids: Scaling Transformations, Bilinear Forms, Bäcklund Transformations and Solitons for A Generalized Variable-Coefficient Korteweg-de Vries-Modified Korteweg-de Vries Equation. <i>China Ocean Engineering</i> , 2021, 35, 518-530.	0.6	22
25	Comment on "Solitons, Bäcklund transformation, and Lax pair for the (2 + 1)-dimensional Boiti-Leon-Pempinelli equation for the water waves" [J. Math. Phys. 51, 093519 (2010)]. <i>Journal of Mathematical Physics</i> , 2015, 56, 014101.	0.5	20
26	Long waves in oceanic shallow water: Symbolic computation on the bilinear forms and Bäcklund transformations for the Whitham-Broer-Kaup system. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	20
27	In oceanography, acoustics and hydrodynamics: An extended coupled (2+1)-dimensional Burgers system. <i>Chinese Journal of Physics</i> , 2021, 70, 264-270.	2.0	20
28	Auto-Bäcklund Transformation, Similarity Reductions and Solitons of an Extended ((2+1)-Dimensional Coupled Burgers System in Fluid Mechanics. <i>Qualitative Theory of Dynamical Systems</i> , 2022, 21, .	0.8	19
29	Bilinear Auto-Bäcklund Transformations and Similarity Reductions for a (3+1)-dimensional Generalized Yu-Toda-Sasa-Fukuyama System in Fluid Mechanics and Lattice Dynamics. <i>Qualitative Theory of Dynamical Systems</i> , 2022, 21, .	0.8	15
30	Oceanic long-gravity-water-wave investigations on a variable-coefficient nonlinear dispersive-wave system. <i>Waves in Random and Complex Media</i> , 0, , 1-17.	1.6	11
31	Comment on "Bilinear form, solitons, breathers and lumps of a (3+1)-dimensional generalized Konopelchenko-Dubrovsky-Kaup-Kupershmidt equation in ocean dynamics, fluid mechanics and plasma physics" [Eur. Phys. J. Plus (2020) 135:272]. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	8
32	Symbolic computation on the long gravity water waves: scaling transformations, bilinear forms, N-soliton solutions and auto-Bäcklund transformation for a variable-coefficient variant Boussinesq system. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111392.	2.5	8
33	Scaling and hetero-/auto-Bäcklund transformations with solitons of an extended coupled (2+1)-dimensional Burgers system for the wave processes in hydrodynamics and acoustics. <i>Modern Physics Letters B</i> , 2020, 34, 2050389.	1.0	7
34	Comment on "Bilinear Bäcklund transformation, soliton and periodic wave solutions for a (3+1)-dimensional variable-coefficient generalized shallow water wave equation" (Nonlinear Dyn. 87,) Tj ETQq0 0 0rgBT /Overlock 10		
35	Comment on "Study of lump solutions to an extended Calogero-Bogoyavlenskii-Schiff equation involving three fourth-order terms" (2020 Phys. Scr. 95 095207). <i>Physica Scripta</i> , 2021, 96, 127001.	1.2	0