

Xin-Yi Gao

List of Publications by Year in descending order

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36
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citing authors

#	ARTICLE	IF	CITATIONS
1	Certain electromagnetic waves in a ferromagnetic film. Communications in Nonlinear Science and Numerical Simulation, 2022, 105, 106066.	1.7	33
2	Auto-Bäcklund Transformation, Similarity Reductions and Solitons of an Extended $(2+1)$ -Dimensional Coupled Burgers System in Fluid Mechanics. Qualitative Theory of Dynamical Systems, 2022, 21, .	0.8	19
3	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
4	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
5	Bilinear Auto-Bäcklund Transformations and Similarity Reductions for a $(3+1)$ -dimensional Generalized Yu-Toda-Sasa-Fukuyama System in Fluid Mechanics and Lattice Dynamics. Qualitative Theory of Dynamical Systems, 2022, 21, .	0.8	15
6	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
7	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
8	In oceanography, acoustics and hydrodynamics: An extended coupled $(2+1)$ -dimensional Burgers system. Chinese Journal of Physics, 2021, 70, 264-270.	2.0	20
9	Oceanic studies via a variable-coefficient nonlinear dispersive-wave system in the Solar System. Chaos, Solitons and Fractals, 2021, 142, 110367.	2.5	22
10	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
11	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
12	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 0.7gBT /Overlock 10 T		
13	Symbolic computation on a (N -soliton) for a generalized variable-coefficient Boiti-Leon-Pempinelli system for the water waves. Chaos, Solitons and Fractals, 2021, 150, 111066.	2.5	49
14	Hetero-Bäcklund Transformation, Bilinear Forms and N Solitons for a Generalized Three-Coupled Korteweg-de Vries System. Qualitative Theory of Dynamical Systems, 2021, 20, 1.	0.8	22
15	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. China Ocean Engineering, 2021, 35, 518-530.	0.6	22
16	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
17	Symbolic computation on the long gravity water waves: scaling transformations, bilinear forms, N -soliton and auto-Bäcklund transformation for a variable-coefficient variant Boussinesq system. Chaos, Solitons and Fractals, 2021, 152, 111392.	2.5	8
18	Comment on "Study of lump solutions to an extended Calogero-Bogoyavlenskii-Schiff equation involving three fourth-order terms" (2020 Phys. Scr. 95 095207). Physica Scripta, 2021, 96, 127001.	1.2	0

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19	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
20	Viewing the Solar System via a variable-coefficient nonlinear dispersive-wave system. Acta Mechanica, 2020, 231, 4415-4420.	1.1	24
21	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]. European Physical Journal Plus, 2020, 135, 1.	1.2	8
22	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
23	Long waves in oceanic shallow water: Symbolic computation on the bilinear forms and Bäcklund transformations for the Whitham-Broer-Kaup system. European Physical Journal Plus, 2020, 135, 1.	1.2	20
24	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
25	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
26	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. Modern Physics Letters B, 2020, 34, 2050389.	1.0	7
27	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
28	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
29	Density-fluctuation symbolic computation on the $(3+1)$ -dimensional variable-coefficient Kudryashov-Sinelshchikov equation for a bubbly liquid with experimental support. Modern Physics Letters B, 2016, 30, 1650217.	1.0	27
30	Incompressible-Fluid Symbolic Computation and Bäcklund Transformation: $(3+1)$ -Dimensional Variable-Coefficient Boiti-Leon-Manna-Pempinelli Model. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 59-61.	0.7	26
31	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
32	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)]. Journal of Mathematical Physics, 2015, 56, 014101.	0.5	20
33	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
34	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
35	Oceanic long-gravity-water-wave investigations on a variable-coefficient nonlinear dispersive-wave system. Waves in Random and Complex Media, 0, , 1-17.	1.6	11