

MarÃ-a Santos BruzÃ³n Gallego

List of Publications by Year in descending order

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all docs

103
docs citations

103
times ranked

294
citing authors

#	ARTICLE	IF	CITATIONS
1	The Calogero-Bogoyavlenskii-Schiff Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1367-1377.	0.9	66
2	Self-adjoint sub-classes of generalized thin film equations. Journal of Mathematical Analysis and Applications, 2009, 357, 307-313.	1.0	54
3	Nonlinear self-adjointness, conservation laws, exact solutions of a system of dispersive evolution equations. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3036-3043.	3.3	33
4	Traveling wave solutions of the $K(m, n)$ equation with generalized evolution. Mathematical Methods in the Applied Sciences, 2018, 41, 5851-5857.	2.3	28
5	Equivalence transformations and conservation laws for a generalized variable-coefficient Gardner equation. Communications in Nonlinear Science and Numerical Simulation, 2016, 40, 71-79.	3.3	27
6	Conservation laws, classical symmetries and exact solutions of the generalized KdV-Burgers-Kuramoto equation. Open Physics, 2017, 15, 433-439.	1.7	19
7	Exact solutions of a generalized Boussinesq equation. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	18
8	Classical and nonclassical symmetries for a Kuramoto-Sivashinsky equation with dispersive effects. Mathematical Methods in the Applied Sciences, 2007, 30, 2091-2100.	2.3	17
9	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1378-1389.	0.9	15
10	Solutions through nonclassical potential symmetries for a generalized inhomogeneous nonlinear diffusion equation. Mathematical Methods in the Applied Sciences, 2008, 31, 753-767.	2.3	15
11	On the nonlinear self-adjointness of a class of fourth-order evolution equations. Applied Mathematics and Computation, 2016, 275, 299-304.	2.2	15
12	Lie symmetries and equivalence transformations for the Barenblatt-Gilman model. Journal of Computational and Applied Mathematics, 2017, 318, 253-258.	2.0	15
13	Symmetry analysis and exact solutions for a generalized Fisher equation in cylindrical coordinates. Communications in Nonlinear Science and Numerical Simulation, 2015, 25, 74-83.	3.3	13
14	Lie Point Symmetries and Travelling Wave Solutions for the Generalized Drinfeld-Sokolov System. Journal of Computational and Theoretical Transport, 2016, 45, 290-298.	0.8	12
15	Symmetries for a family of Boussinesq equations with nonlinear dispersion. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3250-3257.	3.3	11
16	Some traveling wave solutions for the dissipative Zabolotskaya-Khokhlov equation. Journal of Mathematical Physics, 2009, 50, 103504.	1.1	11
17	Classical and nonclassical symmetries for the Krichever-Novikov equation. Theoretical and Mathematical Physics(Russian Federation), 2011, 168, 875-885.	0.9	11
18	Symmetry analysis and exact solutions of some Ostrovsky equations. Theoretical and Mathematical Physics(Russian Federation), 2011, 168, 898-911.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Nonlocal symmetries of Riccati and Abel chains and their similarity reductions. Journal of Mathematical Physics, 2012, 53, 023512.	1.1	11
20	Symmetries and Conservation Laws for Some Compacton Equation. Mathematical Problems in Engineering, 2015, 2015, 1-6.	1.1	11
21	A conservation law for a generalized chemical Fisher equation. Journal of Mathematical Chemistry, 2015, 53, 941-948.	1.5	11
22	On symmetries and conservation laws of a Gardner equation involving arbitrary functions. Applied Mathematics and Computation, 2016, 290, 125-134.	2.2	11
23	Classical symmetries, travelling wave solutions and conservation laws of a generalized Fornbergâ€“Whitham equation. Journal of Computational and Applied Mathematics, 2017, 318, 149-155.	2.0	11
24	Symmetries and conservation laws of a fifth-order KdV equation with time-dependent coefficients and linear damping. Nonlinear Dynamics, 2016, 84, 135-141.	5.2	10
25	Local conservation laws, symmetries, and exact solutions for a Kudryashovâ€“Sinelshchikov equation. Mathematical Methods in the Applied Sciences, 2018, 41, 1631-1641.	2.3	10
26	Similarity Reductions of a Generalized Double Dispersion Equation. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10587-10588.	0.2	9
27	Reductions for Some Ordinary Differential Equations Through Nonlocal Symmetries. Journal of Nonlinear Mathematical Physics, 2011, 18, 123.	1.3	9
28	Conservation laws, symmetries, and exact solutions of the classical Burgersâ€“Fisher equation in two dimensions. Journal of Computational and Applied Mathematics, 2019, 354, 545-550.	2.0	8
29	On the similarity solutions and conservation laws of the Cooperâ€“Shepardâ€“Sodano equation. Mathematical Methods in the Applied Sciences, 2018, 41, 7325-7332.	2.3	7
30	The symmetry reductions of a turbulence model. Journal of Physics A, 2001, 34, 3751-3760.	1.6	6
31	A study for the microwave heating of some chemical reactions through Lie symmetries and conservation laws. Journal of Mathematical Chemistry, 2015, 53, 949-957.	1.5	6
32	Symmetries and special solutions of a parabolic chemotaxis system. Mathematical Methods in the Applied Sciences, 2021, 44, 2050-2058.	2.3	6
33	Lie Point Symmetries, Traveling Wave Solutions and Conservation Laws of a Non-linear Viscoelastic Wave Equation. Mathematics, 2021, 9, 2131.	2.2	6
34	Classical Symmetry Reductions of the Schwarzâ€“Kortewegâ€“de Vries Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 134, 62-71.	0.9	5
35	Exact Travelling Wave Solutions of a Beam Equation. Journal of Nonlinear Mathematical Physics, 2011, 18, 33.	1.3	5
36	Group classification and conservation laws of anisotropic wave equations with a source. Journal of Mathematical Physics, 2016, 57, .	1.1	5

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37	Lie symmetry analysis of (2+1)-dimensional KdV equations with variable coefficients. International Journal of Computer Mathematics, 2020, 97, 330-340.	1.8	5
38	Applying a new algorithm to derive nonclassical symmetries. , 2006, , .		5
39	Symmetry reductions and traveling wave solutions for the Kricheverâ€Novikov equation. Mathematical Methods in the Applied Sciences, 2012, 35, 869-876.	2.3	4
40	Conservation laws of one-dimensional strain-limiting viscoelasticity model. AIP Conference Proceedings, 2017, , .	0.4	4
41	Hamiltonian Structure, Symmetries and Conservation Laws for a Generalized (2 1)-Dimensional Double Dispersion Equation+. Symmetry, 2019, 11, 1031.	2.2	4
42	Conservation laws and Lie symmetries a (2+1)-dimensional thin film equation. Journal of Mathematical Chemistry, 2019, 57, 1243-1251.	1.5	4
43	Symmetries, solutions and conservation laws for the $$(2+1)$ (2 + 1)$ filtration-absorption model. Journal of Mathematical Chemistry, 2019, 57, 1301-1313.	1.5	4
44	A new symmetry-based method for constructing nonlocally related PDE systems from admitted multi-parameter groups. Journal of Mathematical Physics, 2020, 61, 061503.	1.1	4
45	Lie symmetries and conservation laws for a generalized (2+1)-dimensional nonlinear evolution equation. Journal of Mathematical Chemistry, 2020, 58, 775-798.	1.5	4
46	An approach to the $b \hat{\epsilon}$ epsilon model for turbulence through symmetry reductions. Europhysics Letters, 1998, 44, 679-685.	2.0	3
47	1 + 1 spectral problems arising from the Manakovâ€Santini system. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 495204.	2.1	3
48	Classical and nonclassical symmetries of a generalized Benneyâ€Luke equation. International Journal of Modern Physics B, 2016, 30, 1640006.	2.0	3
49	Symmetry Group Analysis of a Fifth-Order KdV Equation with Variable Coefficients. Journal of Computational and Theoretical Transport, 2016, 45, 275-289.	0.8	3
50	Traveling wave solutions for a generalized Ostrovsky equation. Mathematical Methods in the Applied Sciences, 2018, 41, 5840-5850.	2.3	3
51	Symmetry reductions of a generalized Kuramotoâ€Sivashinsky equation via equivalence transformations. Communications in Nonlinear Science and Numerical Simulation, 2018, 63, 12-20.	3.3	3
52	Generalized Camassaâ€Holm Equations: Symmetry, Conservation Laws and Regular Pulse and Front Solutions. Mathematics, 2021, 9, 1009.	2.2	3
53	Conservation Laws of a Family of Reaction-Diffusion-Convection Equations. Advances in Dynamics, Patterns, Cognition, 2014, , 403-417.	0.3	3
54	Symmetries and conservation laws of a KdV6 equation. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 631-641.	1.1	3

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55	Differential invariants of a generalized variable-coefficient Gardner equation. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 747-757.	1.1	3
56	Symmetry Analysis, Exact Solutions and Conservation Laws of a Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers Equation in 2+1-Dimensions. Symmetry, 2021, 13, 2083.	2.2	3
57	New solutions of the Schwarzian Korteweg-de Vries equation in 2+1 dimensions based on weak symmetries. Theoretical and Mathematical Physics(Russian Federation), 2007, 151, 752-761.	0.9	2
58	Travelling Wave Solutions of the K(m, n) Equation with Generalized Evolution. , 2009, , .		2
59	Classical and Nonclassical Reductions for the Krichever-Novikov equation. , 2010, , .		2
60	Some Weak Self-adjoint Forced KdV Equations. , 2011, , .		2
61	Conservation laws for a family of Benjamin-Bona-Mahony-Burgers equations. , 2012, , .		2
62	Travelling Wave Solutions of a Generalized Variable-Coefficient Gardner Equation. SEMA SIMAI Springer Series, 2016, , 405-417.	0.7	2
63	Lie symmetries and travelling wave solutions of the nonlinear waves in the inhomogeneous Fisherâ€“Kolmogorov equation. Mathematical Methods in the Applied Sciences, 2020, 43, 7623-7631.	2.3	2
64	Lie Symmetries and Low-Order Conservation Laws of a Family of Zakharov-Kuznetsov Equations in 2 + 1 Dimensions. Symmetry, 2020, 12, 1277.	2.2	2
65	Weak Self-Adjointness and Conservation Laws for a Family of Benjamin-Bona-Mahony-Burgers Equations. Advances in Dynamics, Patterns, Cognition, 2014, , 23-34.	0.3	2
66	Similarity reductions of a nonlinear model for vibrations of beams. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2040063-2040064.	0.2	1
67	Symmetry reductions for a generalized Dullin-Gottwald-Holm equation. AIP Conference Proceedings, 2012, , .	0.4	1
68	Conservation laws and potential systems for a generalized thin film equation. AIP Conference Proceedings, 2017, , .	0.4	1
69	On a generalized variableâ€“coefficient Gardner equation with linear damping and dissipative terms. Mathematical Methods in the Applied Sciences, 2018, 41, 7158-7169.	2.3	1
70	Symmetry Analysis and Conservation Laws of a Generalization of the Kelvin-Voigt Viscoelasticity Equation. Symmetry, 2019, 11, 840.	2.2	1
71	Conservation Laws and Potential Symmetries for a Generalized Gardner Equation. SEMA SIMAI Springer Series, 2019, , 107-119.	0.7	1
72	Travelling wave solutions of a one-dimensional viscoelasticity model. International Journal of Computer Mathematics, 2020, 97, 30-39.	1.8	1

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73	A nonlinear generalization of the Camassa-Holm equation with peakon solutions. , 2015, , .		1
74	Classical Symmetries for Two Special Cases of Unsteady Flow in Nanoporous Rock. SEMA SIMAI Springer Series, 2019, , 77-86.	0.7	1
75	On a family of (2+1)-dimensional Zakharov-Kuznetsov modified equal width equations. AIP Conference Proceedings, 2020, , .	0.4	1
76	Applications of Solvable Lie Algebras to a Class of Third Order Equations. Mathematics, 2022, 10, 254.	2.2	1
77	Reductions and Conservation Laws of a Generalized Third-Order PDE via Multi-Reduction Method. Mathematics, 2022, 10, 954.	2.2	1
78	Exact Solutions and Conservation Laws for a New Integrable Equation. , 2010, , .		0
79	Conservation Laws of the Self-adjoint $K(m,n)$ Equation with Generalized Evolution Term. , 2011, , .		0
80	Nonclassical and Potential Symmetries for Boussinesq Equation with Nonlinear Dispersion. , 2011, , 67-72.		0
81	Symmetries and nonlinear self-adjointness for a generalized fisher equation. , 2012, , .		0
82	Preface of the "Mini symposium on symmetry methods and applications for differential equations", 2012, , .		0
83	Nonlinear self-adjointness and conservation laws for a porous medium equation with absorption. , 2013, , .		0
84	Conservation laws for a Kuramoto-Sivashinsky equation with dispersive effects. , 2013, , .		0
85	Analysis of the symmetries and conservation laws of a Gardner equation. AIP Conference Proceedings, 2015, , .	0.4	0
86	Preface of the "II mini symposium on symmetry methods and applications for differential equations", AIP Conference Proceedings, 2015, , .	0.4	0
87	Preface of the "III Minisymposium on Symmetry Methods and Applications for Differential Equations", AIP Conference Proceedings, 2017, , .	0.4	0
88	Recent Advances in Symmetry Analysis and Exact Solutions in Nonlinear Mathematical Physics. Advances in Mathematical Physics, 2017, 2017, 1-2.	0.8	0
89	Classical symmetries and conservation laws for the dissipative Dullin-Gottwald-Holm equation with arbitrary coefficients. Mathematical Methods in the Applied Sciences, 2018, 41, 7304-7312.	2.3	0
90	IV Mini Symposium on Symmetry Methods and Applications for Differential Equations. AIP Conference Proceedings, 2018, , .	0.4	0

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91	V Mini Symposium on Symmetry Methods and their Applications to Differential Equations. AIP Conference Proceedings, 2019, , .	0.4	0
92	Lie symmetries of the nonlinear waves in the inhomogeneous Fisher-Kolmogorov equation. AIP Conference Proceedings, 2019, , .	0.4	0
93	Potential systems of a Buckleyâ€“Leverett equation: Lie point symmetries and conservation laws. Journal of Mathematical Chemistry, 2020, 58, 831-840.	1.5	0
94	Symmetry reductions of a $(2n+1)$ -dimensional Kellerâ€“Segel model. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0
95	Differential invariant method for seeking nonlocally related systems and nonlocal symmetries. I: General theory and examples. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200908.	2.1	0
96	Differential invariant method for seeking nonlocally related systems and nonlocal symmetries. II: Connections with the conservation law method. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200909.	2.1	0
97	Self-Adjointness and Conservation Laws for a Generalized Dullin-Gottwald-Holm Equation. Springer Proceedings in Mathematics and Statistics, 2014, , 577-586.	0.2	0
98	Symmetry Reductions and Exact Solutions of a Generalized Fisher Equation. Springer Proceedings in Mathematics and Statistics, 2015, , 219-225.	0.2	0
99	Analysis of Generalized BBM Equations: Symmetry Groups and Conservation Laws. , 2019, , 197-228.		0
100	Generalized Drinfeld-Sokolov system: Conservation laws and solutions. AIP Conference Proceedings, 2020, , .	0.4	0
101	VI Mini Symposium on Symmetry Methods and Their Applications to Differential Equations. AIP Conference Proceedings, 2020, , .	0.4	0
102	$(2+1)$ Kadomtsev - Petviashvili - Boussinesq equation: Lie symmetries and solutions. AIP Conference Proceedings, 2022, , .	0.4	0