

# MarÃ-a Santos BruzÃ³n Gallego

## List of Publications by Year in descending order

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102  
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103  
all docs

103  
docs citations

103  
times ranked

294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of Solvable Lie Algebras to a Class of Third Order Equations. Mathematics, 2022, 10, 254.	2.2	1
2	(2+1) Kadomtsev - Petviashvili - Boussinesq equation: Lie symmetries and solutions. AIP Conference Proceedings, 2022, , .	0.4	0
3	Reductions and Conservation Laws of a Generalized Third-Order PDE via Multi-Reduction Method. Mathematics, 2022, 10, 954.	2.2	1
4	Symmetries and special solutions of a parabolic chemotaxis system. Mathematical Methods in the Applied Sciences, 2021, 44, 2050-2058.	2.3	6
5	Generalized Camassa-Holm Equations: Symmetry, Conservation Laws and Regular Pulse and Front Solutions. Mathematics, 2021, 9, 1009.	2.2	3
6	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
7	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
8	Lie Point Symmetries, Traveling Wave Solutions and Conservation Laws of a Non-linear Viscoelastic Wave Equation. Mathematics, 2021, 9, 2131.	2.2	6
9	Symmetry Analysis, Exact Solutions and Conservation Laws of a Benjamin-Bona-Mahony-Burgers Equation in 2+1-Dimensions. Symmetry, 2021, 13, 2083.	2.2	3
10	Travelling wave solutions of a one-dimensional viscoelasticity model. International Journal of Computer Mathematics, 2020, 97, 30-39.	1.8	1
11	Lie symmetry analysis of (2+1)-dimensional KdV equations with variable coefficients. International Journal of Computer Mathematics, 2020, 97, 330-340.	1.8	5
12	Lie symmetries and travelling wave solutions of the nonlinear waves in the inhomogeneous Fisher-Kolmogorov equation. Mathematical Methods in the Applied Sciences, 2020, 43, 7623-7631.	2.3	2
13	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
14	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
15	Potential systems of a Buckley-Leverett equation: Lie point symmetries and conservation laws. Journal of Mathematical Chemistry, 2020, 58, 831-840.	1.5	0
16	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
17	Generalized Drinfeld-Sokolov system: Conservation laws and solutions. AIP Conference Proceedings, 2020, , .	0.4	0
18	On a family of (2+1)-dimensional Zakharov-Kuznetsov modified equal width equations. AIP Conference Proceedings, 2020, , .	0.4	1

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19	VI Mini Symposium on Symmetry Methods and Their Applications to Differential Equations. AIP Conference Proceedings, 2020, , .	0.4	0
20	V Mini Symposium on Symmetry Methods and their Applications to Differential Equations. AIP Conference Proceedings, 2019, , .	0.4	0
21	Symmetry Analysis and Conservation Laws of a Generalization of the Kelvin-Voigt Viscoelasticity Equation. Symmetry, 2019, 11, 840.	2.2	1
22	Lie symmetries of the nonlinear waves in the inhomogeneous Fisher-Kolmogorov equation. AIP Conference Proceedings, 2019, , .	0.4	0
23	Hamiltonian Structure, Symmetries and Conservation Laws for a Generalized (2 1)-Dimensional Double Dispersion Equation+. Symmetry, 2019, 11, 1031.	2.2	4
24	Conservation laws and Lie symmetries a (2+1)-dimensional thin film equation. Journal of Mathematical Chemistry, 2019, 57, 1243-1251.	1.5	4
25	Conservation Laws and Potential Symmetries for a Generalized Gardner Equation. SEMA SIMAI Springer Series, 2019, , 107-119.	0.7	1
26	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
27	Symmetries, solutions and conservation laws for the $(2+1)$ filtration-absorption model. Journal of Mathematical Chemistry, 2019, 57, 1301-1313.	1.5	4
28	Classical Symmetries for Two Special Cases of Unsteady Flow in Nanoporous Rock. SEMA SIMAI Springer Series, 2019, , 77-86.	0.7	1
29	Analysis of Generalized BBM Equations: Symmetry Groups and Conservation Laws. , 2019, , 197-228.		0
30	Traveling wave solutions for a generalized Ostrovsky equation. Mathematical Methods in the Applied Sciences, 2018, 41, 5840-5850.	2.3	3
31	Traveling wave solutions of the $(2+1)$ equation with generalized evolution. Mathematical Methods in the Applied Sciences, 2018, 41, 5851-5857.	2.3	28
32	Classical symmetries and conservation laws for the dissipative Dullinâ€Gottwaldâ€Holm equation with arbitrary coefficients. Mathematical Methods in the Applied Sciences, 2018, 41, 7304-7312.	2.3	0
33	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
34	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
35	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
36	Local conservation laws, symmetries, and exact solutions for a Kudryashovâ€Sinelnshchikov equation. Mathematical Methods in the Applied Sciences, 2018, 41, 1631-1641.	2.3	10

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37	IV Mini Symposium on Symmetry Methods and Applications for Differential Equations. AIP Conference Proceedings, 2018, , .	0.4	0
38	Symmetries and conservation laws of a KdV6 equation. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 631-641.	1.1	3
39	Differential invariants of a generalized variable-coefficient Gardner equation. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 747-757.	1.1	3
40	Conservation laws and potential systems for a generalized thin film equation. AIP Conference Proceedings, 2017, , .	0.4	1
41	Preface of the "III Minisymposium on Symmetry Methods and Applications for Differential Equations" AIP Conference Proceedings, 2017, , .	0.4	0
42	Conservation laws, classical symmetries and exact solutions of the generalized KdV-Burgers-Kuramoto equation. Open Physics, 2017, 15, 433-439.	1.7	19
43	Lie symmetries and equivalence transformations for the Barenblatt-Gilman model. Journal of Computational and Applied Mathematics, 2017, 318, 253-258.	2.0	15
44	Classical symmetries, travelling wave solutions and conservation laws of a generalized Fornberg-Whitham equation. Journal of Computational and Applied Mathematics, 2017, 318, 149-155.	2.0	11
45	Conservation laws of one-dimensional strain-limiting viscoelasticity model. AIP Conference Proceedings, 2017, , .	0.4	4
46	Recent Advances in Symmetry Analysis and Exact Solutions in Nonlinear Mathematical Physics. Advances in Mathematical Physics, 2017, 2017, 1-2.	0.8	0
47	Group classification and conservation laws of anisotropic wave equations with a source. Journal of Mathematical Physics, 2016, 57, .	1.1	5
48	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
49	Classical and nonclassical symmetries of a generalized Benney-Luke equation. International Journal of Modern Physics B, 2016, 30, 1640006.	2.0	3
50	On symmetries and conservation laws of a Gardner equation involving arbitrary functions. Applied Mathematics and Computation, 2016, 290, 125-134.	2.2	11
51	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
52	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
53	Travelling Wave Solutions of a Generalized Variable-Coefficient Gardner Equation. SEMA SIMAI Springer Series, 2016, , 405-417.	0.7	2
54	On the nonlinear self-adjointness of a class of fourth-order evolution equations. Applied Mathematics and Computation, 2016, 275, 299-304.	2.2	15

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55	Symmetries and conservation laws of a fifth-order KdV equation with time-dependent coefficients and linear damping. <i>Nonlinear Dynamics</i> , 2016, 84, 135-141.	5.2	10
56	Symmetries and Conservation Laws for Some Compacton Equation. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-6.	1.1	11
57	Symmetry analysis and exact solutions for a generalized Fisher equation in cylindrical coordinates. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 25, 74-83.	3.3	13
58	A conservation law for a generalized chemical Fisher equation. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 941-948.	1.5	11
59	A study for the microwave heating of some chemical reactions through Lie symmetries and conservation laws. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 949-957.	1.5	6
60	Analysis of the symmetries and conservation laws of a Gardner equation. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
61	Preface of the "œll mini symposium on symmetry methods and applications for differential equations"œ. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
62	Symmetry Reductions and Exact Solutions of a Generalized Fisher Equation. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 219-225.	0.2	0
63	A nonlinear generalization of the Camassa-Holm equation with peakon solutions. , 2015, , .		1
64	Nonlinear self-adjointness, conservation laws, exact solutions of a system of dispersive evolution equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3036-3043.	3.3	33
65	Weak Self-Adjointness and Conservation Laws for a Family of Benjamin-Bona-Mahony-Burgers Equations. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014, , 23-34.	0.3	2
66	Conservation Laws of a Family of Reaction-Diffusion-Convection Equations. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014, , 403-417.	0.3	3
67	Self-Adjointness and Conservation Laws for a Generalized Dullin-Gottwald-Holm Equation. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014, , 577-586.	0.2	0
68	Nonlinear self-adjointness and conservation laws for a porous medium equation with absorption. , 2013, , .		0
69	Conservation laws for a Kuramoto-Sivashinsky equation with dispersive effects. , 2013, , .		0
70	Nonlocal symmetries of Riccati and Abel chains and their similarity reductions. <i>Journal of Mathematical Physics</i> , 2012, 53, 023512.	1.1	11
71	Symmetries and nonlinear self-adjointness for a generalized fisher equation. , 2012, , .		0
72	Preface of the "œMini symposium on symmetry methods and applications for differential equations"œ. , 2012, , .		0

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73	Symmetry reductions for a generalized Dullin-Gottwald-Holm equation. AIP Conference Proceedings, 2012, , .	0.4	1
74	Conservation laws for a family of Benjamin-Bona-Mahony-Burgers equations. , 2012, , .		2
75	Symmetry reductions and traveling wave solutions for the Krichever-Novikov equation. Mathematical Methods in the Applied Sciences, 2012, 35, 869-876.	2.3	4
76	Exact Travelling Wave Solutions of a Beam Equation. Journal of Nonlinear Mathematical Physics, 2011, 18, 33.	1.3	5
77	Reductions for Some Ordinary Differential Equations Through Nonlocal Symmetries. Journal of Nonlinear Mathematical Physics, 2011, 18, 123.	1.3	9
78	Conservation Laws of the Self-adjoint $K(m,n)$ Equation with Generalized Evolution Term. , 2011, , .		0
79	Some Weak Self-adjoint Forced KdV Equations. , 2011, , .		2
80	Classical and nonclassical symmetries for the Krichever-Novikov equation. Theoretical and Mathematical Physics(Russian Federation), 2011, 168, 875-885.	0.9	11
81	Symmetry analysis and exact solutions of some Ostrovsky equations. Theoretical and Mathematical Physics(Russian Federation), 2011, 168, 898-911.	0.9	11
82	Nonclassical and Potential Symmetries for Boussinesq Equation with Nonlinear Dispersion. , 2011, , 67-72.		0
83	Classical and Nonclassical Reductions for the Krichever-Novikov equation. , 2010, , .		2
84	Exact Solutions and Conservation Laws for a New Integrable Equation. , 2010, , .		0
85	1 + 1 spectral problems arising from the Manakov-Santini system. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 495204.	2.1	3
86	Travelling Wave Solutions of the $K(m, n)$ Equation with Generalized Evolution. , 2009, , .		2
87	Self-adjoint sub-classes of generalized thin film equations. Journal of Mathematical Analysis and Applications, 2009, 357, 307-313.	1.0	54
88	Exact solutions of a generalized Boussinesq equation. Theoretical and Mathematical Physics(Russian Federation) 18(1) 10-18	0.9	18
89	Symmetries for a family of Boussinesq equations with nonlinear dispersion. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3250-3257.	3.3	11
90	Some traveling wave solutions for the dissipative Zabolotskaya-Khokhlov equation. Journal of Mathematical Physics, 2009, 50, 103504.	1.1	11

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91	Similarity Reductions of a Generalized Double Dispersion Equation. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10587-10588.	0.2	9
92	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
93	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
94	Similarity reductions of a nonlinear model for vibrations of beams. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2040063-2040064.	0.2	1
95	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
96	Applying a new algorithm to derive nonclassical symmetries. , 2006, , .		5
97	The Calogero-Bogoyavlenskii-Schiff Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1367-1377.	0.9	66
98	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1378-1389.	0.9	15
99	Classical Symmetry Reductions of the Schwarz-Korteweg-de Vries Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 134, 62-71.	0.9	5
100	The symmetry reductions of a turbulence model. Journal of Physics A, 2001, 34, 3751-3760.	1.6	6
101	An approach to the $b \hat{=} \epsilon$ model for turbulence through symmetry reductions. Europhysics Letters, 1998, 44, 679-685.	2.0	3
102	Symmetry reductions of a $(2n+1)$ -dimensional Keller-Segel model. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0