MarÃa ConcepciÃ³n Muriel Patino

List of Publications by Year
in descending order

51 papers	755 citations	623734 14 h-index	552781 26 g-index
53 all docs	53 docs citations	53 times ranked	183 citing authors

#	Article	IF	Citations
1	Variational λ-symmetries and exact solutions to Euler–Lagrange equations lacking standard symmetries. Mathematical Methods in the Applied Sciences, 2022, 45, 10946-10958.	2.3	2
2	New exact solutions for a generalised Burgers-Fisher equation. Chaos, Solitons and Fractals, 2021, 152, 111360.	5.1	5
3	Systems of Vector Fields for the Integration of Ordinary Differential Equations. SEMA SIMAI Springer Series, 2021, , 83-102.	0.7	0
4	First Integrals of Differential Operators from SL(2,ℝ) Symmetries. Mathematics, 2020, 8, 2167.	2.2	2
5	New optical solitons of Kundu-Eckhaus equation via λ-symmetry. Chaos, Solitons and Fractals, 2020, 136, 109786.	5.1	5
6	Parametric Solutions to a Static Fourth-Order Euler–Bernoulli Beam Equation in Terms of Lamé Functions. RSME Springer Series, 2020, , 93-103.	0.1	0
7	Integration methods for equations without enough Lie point symmetries. AIP Conference Proceedings, 2019, , .	0.4	3
8	A new method to obtain either first- or second-order reductions for parametric polynomial ODEs. Journal of Computational and Applied Mathematics, 2019, 358, 146-162.	2.0	3
9	Generalized Solvable Structures and First Integrals for ODEs Admitting an $\mathfrak{sl}(2, \mathbb{R})$ Symmetry Algebra. Journal of Nonlinear Mathematical Physics, 2019, 26, 188.	1.3	7
10	Involutive pairs of λ-symmetries for nth-order ordinary differential equations. Journal of Computational and Applied Mathematics, 2019, 354, 562-568.	2.0	0
11	Exact general solution and first integrals of a remarkable static Euler-Bernoulli beam equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 261-269.	3.3	7
12	On the commutator of ${\mathcal{C}^{\infty}}$ -symmetries and the reduction of Euler–Lagrange equations. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 145202.	2.1	6
13	Two new reductions methods for polynomial differential equations and applications to nonlinear PDEs. Journal of Computational and Applied Mathematics, 2018, 333, 36-50.	2.0	2
14	Authoring of educational mobile apps for the mathematics-learning analysis. , 2018, , .		3
15	The Calculation and Use of Generalized Symmetries for Second-Order Ordinary Differential Equations. Springer Proceedings in Mathematics and Statistics, 2018, , 137-158.	0.2	1
16	On the integrability of Liénard I-type equations via λ-symmetries and solvable structures. Applied Mathematics and Computation, 2018, 339, 888-898.	2.2	13
17	Construction of Solvable Structures from $$\mathfrak {so}(3,\mathbb {C})$$so(3,C). Springer Proceedings in Mathematics and Statistics, 2018, , 53-65.	0.2	1
18	First integrals and parametric solutions of third-order ODEs admitting $ {\mathfrak{sl}(2,)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (m	2.1	10

#	Article	IF	Citations
19	λ -Symmetries and integrability by quadratures. IMA Journal of Applied Mathematics, 2017, 82, 1061-1087.	1.6	19
20	Exact solutions and Riccati-type first integrals. Journal of Nonlinear Mathematical Physics, 2017, 24, 75.	1.3	2
21	Reductions of PDEs to second order ODEs and symbolic computation. Applied Mathematics and Computation, 2016, 291, 122-136.	2.2	3
22	Applications of $\mathcal{C}^{\infty}$ -Symmetries in the Construction of Solvable Structures. SEMA SIMAI Springer Series, 2016, , 387-403.	0.7	4
23	Reductions of PDEs to first order ODEs, symmetries and symbolic computation. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 37-49.	3.3	3
24	The -symmetry reduction method and Jacobi last multipliers. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 807-820.	3.3	16
25	-symmetries of some chains of ordinary differential equations. Nonlinear Analysis: Real World Applications, 2014, 16, 191-201.	1.7	8
26	A Maple procedure based on <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	2.2	0
27	On first integrals of second-order ordinary differential equations. Journal of Engineering Mathematics, 2013, 82, 17-30.	1.2	13
28	Nonlocal Symmetries, Telescopic Vector Fields and λ-Symmetries of Ordinary Differential Equations. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2012, , .	0.5	5
29	A λ-symmetry-based method for the linearization and determination of first integrals of a family of second-order ordinary differential equations. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 245201.	2.1	5
30	Second-Order Ordinary Differential Equations with First Integrals of the Form <i>C</i>(<i>t</i>) + 1/(<i>A</i>(<i>t</i>, <i>x</i>)<i>á°<</i> + <i>B</i>(<i>t</i>, <i>x</i>)). Journal of Nonlinear Mathematical Physics, 2011, 18, 237.	1.3	16
31	Nonlocal transformations and linearization of second-order ordinary differential equations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 434025.	2.1	34
32	λ—SYMMETRIES ON THE DERIVATION OF FIRST INTEGRALS OF ORDINARY DIFFERENTIAL EQUATIONS. , 2010, , .		5
33	STUDY OF THE DYNAMIC BEHAVIOR OF THE SANCTI PETRI CHANNEL: AN ATYPICAL CASE OF TIDAL CHANNEL. , 2010, , .		0
34	First integrals, integrating factors and λ-symmetries of second-order differential equations. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 365207.	2.1	78
35	Second-Order Ordinary Differential Equations and First Integrals of The Form <i>A</i>(<i>t</i>,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	29
36	Conserved Forms derived from Symmetries. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10747-10748.	0.2	1

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37	Integrating Factors and λ–Symmetries. Journal of Nonlinear Mathematical Physics, 2008, 15, 300.	1.3	34
38	?–symmetries and nonlocal symmetries of exponential type. IMA Journal of Applied Mathematics, 2007, 72, 191-205.	1.6	18
39	Variational <mml:math altimg="sl1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.2	47
40	NEW ORDER REDUCTIONS FOR EULER-LAGRANGE EQUATIONS. , 2005, , .		1
41	The Calogero–Bogoyavlenskii–Schiff Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1367-1377.	0.9	66
42	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1378-1389.	0.9	15
43	The Schwarzian Korteweg–de Vries equation in (2 × 1) dimensions. Journal of Physics A, 2003, 36, 1467-1484.	1.6	15
44	New Symmetry Reductions for some Ordinary Differential Equations. Journal of Nonlinear Mathematical Physics, 2002, 9, 47.	1.3	13
45	Integrability of Equations Admitting the Nonsolvable Symmetry Algebra so(3,R). Studies in Applied Mathematics, 2002, 109, 337-352.	2.4	7
46	Prolongations of Vector Fields and the Invariants-by-Derivation Property. Theoretical and Mathematical Physics(Russian Federation), 2002, 133, 1565-1575.	0.9	21
47	Potential symmetries for some ordinary differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5167-5178.	1.1	4
48	New methods of reduction for ordinary differential equations. IMA Journal of Applied Mathematics, 2001, 66, 111-125.	1.6	155
49	C∞-symmetries and non-solvable symmetry algebras. IMA Journal of Applied Mathematics, 2001, 66, 477-498.	1.6	40
50	On the integrability of GL(2,ℝ)–invariant fourth–order ordinary differential equations. Mathematical Methods in the Applied Sciences, 0, , .	2.3	2
51	Solvable Structures Associated to the Nonsolvable Symmetry Algebra sl(2,R). Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	6