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	New methods of reduction for ordinary differential equations. IMA Journal of Applied Mathematics, 2001, 66, 111-125.	1.6	155
2	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
3	The Calogero–Bogoyavlenskii–Schiff Equation in 2+1 Dimensions. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1367-1377.	0.9	66
4	Variational <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	47
5	C∞-symmetries and non-solvable symmetry algebras. IMA Journal of Applied Mathematics, 2001, 66, 477-498.	1.6	40
6	Integrating Factors and λ–Symmetries. Journal of Nonlinear Mathematical Physics, 2008, 15, 300.	1.3	34
7	Nonlocal transformations and linearization of second-order ordinary differential equations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 434025.	2.1	34
8	Second-Order Ordinary Differential Equations and First Integrals of The Form A(t,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	1.3	29
9	Prolongations of Vector Fields and the Invariants-by-Derivation Property. Theoretical and Mathematical Physics(Russian Federation), 2002, 133, 1565-1575.	0.9	21
10	λ -Symmetries and integrability by quadratures. IMA Journal of Applied Mathematics, 2017, 82, 1061-1087.	1.6	19
11	?∂ž-symmetries and nonlocal symmetries of exponential type. IMA Journal of Applied Mathematics, 2007, 72, 191-205.	1.6	18
12	Second-Order Ordinary Differential Equations with First Integrals of the Form C(t) + $1/(A$(t, x)$ẋ$ + B(t, x)). Journal of Nonlinear Mathematical Physics, 2011, 18, 237.	1.3	16
13	The -symmetry reduction method and Jacobi last multipliers. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 807-820.	3.3	16
14	Title is missing!. Theoretical and Mathematical Physics(Russian Federation), 2003, 137, 1378-1389.	0.9	15
15	The Schwarzian Korteweg–de Vries equation in (2 × 1) dimensions. Journal of Physics A, 2003, 36, 1467-1484.	1.6	15
16	New Symmetry Reductions for some Ordinary Differential Equations. Journal of Nonlinear Mathematical Physics, 2002, 9, 47.	1.3	13
17	On first integrals of second-order ordinary differential equations. Journal of Engineering Mathematics, 2013, 82, 17-30.	1.2	13
18	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

#	Article	IF	Citations
19	First integrals and parametric solutions of third-order ODEs admitting $ {mathfrak{sl}(2,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.1	10
20	-symmetries of some chains of ordinary differential equations. Nonlinear Analysis: Real World Applications, 2014, 16, 191-201.	1.7	8
21	Integrability of Equations Admitting the Nonsolvable Symmetry Algebraso(3,R). Studies in Applied Mathematics, 2002, 109, 337-352.	2.4	7
22	Generalized Solvable Structures and First Integrals for ODEs Admitting an ??(2, â„) Symmetry Algebra. Journal of Nonlinear Mathematical Physics, 2019, 26, 188.	1.3	7
23	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
24	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
25	Solvable Structures Associated to the Nonsolvable Symmetry Algebra sl(2,R). Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	6
26	λ–SYMMETRIES ON THE DERIVATION OF FIRST INTEGRALS OF ORDINARY DIFFERENTIAL EQUATIONS. , 2010, , .		5
27	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
28	New optical solitons of Kundu-Eckhaus equation via λ-symmetry. Chaos, Solitons and Fractals, 2020, 136, 109786.	5.1	5
29	New exact solutions for a generalised Burgers-Fisher equation. Chaos, Solitons and Fractals, 2021, 152, 111360.	5.1	5
30	Nonlocal Symmetries, Telescopic Vector Fields and λ-Symmetries of Ordinary Differential Equations. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2012, , .	0.5	5
31	Potential symmetries for some ordinary differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5167-5178.	1.1	4
32	Applications of $$mathcal{C}^{infty }$$ -Symmetries in the Construction of Solvable Structures. SEMA SIMAI Springer Series, 2016, , 387-403.	0.7	4
33	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
34	Reductions of PDEs to second order ODEs and symbolic computation. Applied Mathematics and Computation, 2016, 291, 122-136.	2.2	3
35	Authoring of educational mobile apps for the mathematics-learning analysis. , 2018, , .		3
36	Integration methods for equations without enough Lie point symmetries. AIP Conference Proceedings, 2019, , .	0.4	3

#	Article	IF	Citations
37	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
38	Exact solutions and Riccati-type first integrals. Journal of Nonlinear Mathematical Physics, 2017, 24, 75.	1.3	2
39	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
40	First Integrals of Differential Operators from SL(2,ℝ) Symmetries. Mathematics, 2020, 8, 2167.	2.2	2
41	On the integrability of GL(2,ℝ)â€invariant fourthâ€order ordinary differential equations. Mathematical Methods in the Applied Sciences, 0, , .	2.3	2
42	Variational λâ€symmetries and exact solutions to Eulerâ€Lagrange equations lacking standard symmetries. Mathematical Methods in the Applied Sciences, 2022, 45, 10946-10958.	2.3	2
43	Conserved Forms derived from Symmetries. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10747-10748.	0.2	1
44	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
45	NEW ORDER REDUCTIONS FOR EULER-LAGRANGE EQUATIONS. , 2005, , .		1
46	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
47	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/xml	2.2	0
48	Involutive pairs of λ-symmetries for nth-order ordinary differential equations. Journal of Computational and Applied Mathematics, 2019, 354, 562-568.	2.0	0
49	STUDY OF THE DYNAMIC BEHAVIOR OF THE SANCTI PETRI CHANNEL: AN ATYPICAL CASE OF TIDAL CHANNEL. , 2010, , .		0
50	Systems of Vector Fields for the Integration of Ordinary Differential Equations. SEMA SIMAI Springer Series, 2021, , 83-102.	0.7	0
51	Parametric Solutions to a Static Fourth-Order Eulerâ€"Bernoulli Beam Equation in Terms of Lamé Functions. RSME Springer Series, 2020, , 93-103.	0.1	0