Maite Grau

List of Publications by Year
in descending order

42 papers	515 citations	623734 14 h-index	713466 21 g-index
42 all docs	42 docs citations	42 times ranked	159 citing authors

#	ARTICLE	IF	CITATIONS
1	A counterexample to the composition condition conjecture for polynomial Abel differential equations. Ergodic Theory and Dynamical Systems, 2019, 39, 3347-3352.	0.6	6
2	On the critical points of the flight return time function of perturbed closed orbits. Journal of Differential Equations, 2019, 266, 8344-8369.	2.2	1
3	EFFECTIVE CONSTRUCTION OF POINCAR&#201;-BENDIXSON REGIONS. Journal of Applied Analysis and Computation, 2017, 7, 1549-1569.	0.5	1
4	The center problem and composition condition for Abel differential equations. , 2016, 34, 210-222.		8
5	Divergence and PoincarÃ©â€"Liapunov constants for analytic differential systems. Journal of Differential Equations, 2015, 258, 4348-4367.	2.2	3
6	Transversal conics and the existence of limit cycles. Journal of Mathematical Analysis and Applications, 2015, 428, 563-586.	1.0	7
7	Limit cycles bifurcating from planar polynomial quasi-homogeneous centers. Journal of Differential Equations, 2015, 259, 7135-7160.	2.2	6
8	Essential perturbations of polynomial vector fields with a period annulus. Communications on Pure and Applied Analysis, 2015, 14, 1073-1095.	0.8	5
9	Universal centers in the cubic trigonometric Abel equation. Electronic Journal of Qualitative Theory of Differential Equations, 2014, , 1-7.	0.5	7
10	Universal centres and composition conditions. Proceedings of the London Mathematical Society, 2013, 106, 481-507.	1.3	28
11	Averaging theory at any order for computing periodic orbits. Physica D: Nonlinear Phenomena, 2013, 250, 58-65.	2.8	38
12	A note on Liouvillian first integrals and invariant algebraic curves. Applied Mathematics Letters, 2013, 26, 285-289.	2.7	6
13	Polynomial and rational first integrals for planar quasi--homogeneous polynomial differential systems. Discrete and Continuous Dynamical Systems, 2013, 33, 4531-4547.	0.9	14
14	On the extensions of the Darboux theory of integrability. Nonlinearity, 2013, 26, 2221-2229.	1.4	12
15	COMPOSITION CONDITIONS IN THE TRIGONOMETRIC ABEL EQUATION. Journal of Applied Analysis and Computation, 2013, 3, 133-144.	0.5	1
16	On the Multiplicity of Algebraic Limit Cycles. Journal of Dynamics and Differential Equations, 2012, 24, 539-560.	1.9	1
17	Generalized Hopf Bifurcation for Planar Vector Fields via the Inverse Integrating Factor. Journal of Dynamics and Differential Equations, 2011, 23, 251-281.	1.9	17
18	On the polynomial limit cycles of polynomial differential equations. Israel Journal of Mathematics, 2011, 181, 461-475.	0.8	16

#	ARTICLE	IF	CITATIONS
19	First integrals and Darboux polynomials of natural polynomial Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4746-4748.	2.1	7
20	A Survey on the Inverse Integrating Factor. Qualitative Theory of Dynamical Systems, 2010, 9, 115-166.	1.7	40
21	Weierstrass integrability of differential equations. Applied Mathematics Letters, 2010, 23, 523-526.	2.7	28
22	Bifurcation of critical periods from Pleshkan's isochrones. Journal of the London Mathematical Society, 2010, 81, 142-160.	1.0	30
23	The inverse integrating factor and the Poincaré map. Transactions of the American Mathematical Society, 2010, 362, 3591-3612.	0.9	27
24	A note on linear differential equations with periodic coefficients. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 3197-3202.	1.1	5
25	On the cyclicity of weight-homogeneous centers. Journal of Differential Equations, 2009, 246, 3126-3135.	2.2	15
26	Linearizable planar differential systems via the inverse integrating factor. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 135205.	2.1	4
27	On the stability of periodic orbits for differential systems in $\mathbb{R}^n$. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 495-509.	0.9	3
28	The role of algebraic solutions in planar polynomial differential systems. Mathematical Proceedings of the Cambridge Philosophical Society, 2007, 143, 487-508.	0.4	8
29	Multiplicity of limit cycles and analytic m-solutions for planar differential systems. Journal of Differential Equations, 2007, 240, 375-398.	2.2	4
30	Integrability of Planar Polynomial Differential Systems through Linear Differential Equations. Rocky Mountain Journal of Mathematics, 2006, 36, 457.	0.4	16
31	A necessary condition in the monodromy problem for analytic differential equations on the plane. Journal of Symbolic Computation, 2006, 41, 943-958.	0.8	23
32	Linearizability and integrability of vector fields via commutation. Journal of Mathematical Analysis and Applications, 2006, 319, 326-332.	1.0	17
33	A note on: "Relaxation oscillators with exact limit cycles" Journal of Mathematical Analysis and Applications, 2006, 324, 739-745.	1.0	6
34	Coexistence of algebraic and non-algebraic limit cycles, explicitly given, using Riccati equations. Nonlinearity, 2006, 19, 1939-1950.	1.4	16
35	Necessary conditions for the existence of invariant algebraic curves for planar polynomial systems. Bulletin Des Sciences Mathematiques, 2005, 129, 99-126.	1.0	29
36	QUADRATIC SYSTEMS WITH AN ALGEBRAIC LIMIT CYCLE OF DEGREE 2 OR 4 DO NOT HAVE A LIOUVILLIAN FIRST INTEGRAL. , 2005, , .		2

#	Article	IF	Citations
37	Characterization of isochronous foci for planar analytic differential systems. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2005, 135, 985-998.	1.2	21
38	Coexistence of limit cycles and invariant algebraic curves for a Kukles system. Nonlinear Analysis: Theory, Methods & Applications, 2004, 59, 673-693.	1.1	11
39	Invariant algebraic curves linear in one variable for planar real quadratic systems. Applied Mathematics and Computation, 2003, 138, 291-308.	2.2	5
40	A family of non-darboux-integrable quadratic polynomial differential systems with algebraic solutions of arbitrarily high degree. Applied Mathematics Letters, 2003, 16, 833-837.	2.7	14
41	Integrable systems via polynomial inverse integrating factors. Bulletin Des Sciences Mathematiques, 2002, 126, 315-331.	1.0	5
42	Exact Solutions for the Fluctuations in a Flat FRW Universe Coupled to a Scalar Field. International Journal of Theoretical Physics, 2002, 41, 2027-2035.	1.2	2