# Jaume Gine

List of Publications by Year
in descending order

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| 219 | 2,689 | 236833 | 330025 |
|---|---|---|---|
| papers | citations | 25 h-index | 37 g-index |

| 222 | 222 | 222 | 379 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Linearizability of planar polynomial Hamiltonian systems. Nonlinear Analysis: Real World Applications, 2022, 63, 103422. | 0.9 | 1 |
| 2 | Center problem for generic degenerate vector fields. Nonlinear Analysis: Theory, Methods & Applications, 2022, 214, 112597. | 0.6 | 1 |
| 3 | ANALYTIC INTEGRABILITY AROUND THE ORIGIN OF CERTAIN DIFFERENTIAL SYSTEM. Journal of Applied Analysis and Computation, 2022, 12, 1-16. | 0.2 | 1 |
| 4 | Invariant Algebraic Curves of Generalized LiÃ©nard Polynomial Differential Systems. Mathematics, 2022, 10, 209. | 1.1 | 2 |
| 5 | Center problem with characteristic directions and inverse integrating factors. Communications in Nonlinear Science and Numerical Simulation, 2022, 108, 106276. | 1.7 | 7 |
| 6 | Is it possible to implement a holographic equivalence principle?. Europhysics Letters, 2022, 137, 19002. | 0.7 | 0 |
| 7 | On the Dynamics of Higginsâ€“Selkov, Selkov and Brusellator Oscillators. Symmetry, 2022, 14, 438. | 1.1 | 1 |
| 8 | Puiseux Integrability of Differential Equations. Qualitative Theory of Dynamical Systems, 2022, 21, 1. | 0.8 | 7 |
| 9 | Gravitational effects on the Heisenberg Uncertainty Principle: A geometric approach. Results in Physics, 2022, 38, 105594. | 2.0 | 4 |
| 10 | Simultaneity of centres in double-reversible planar differential systems. Dynamical Systems, 2021, 36, 167-180. | 0.2 | 1 |
| 11 | Lower bounds for the local cyclicity for families of centers. Journal of Differential Equations, 2021, 275, 309-331. | 1.1 | 16 |
| 12 | Quantum Fluctuations and the N-Slit Interference. International Journal of Theoretical Physics, 2021, 60, 1-9. | 0.5 | 2 |
| 13 | Vanishing set of inverse Jacobi multipliers and attractor/repeller sets. Chaos, 2021, 31, 013113. | 1.0 | 2 |
| 14 | A new sufficient condition in order that the real Jacobian conjecture in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math> holds. Journal of Differential Equations, 2021, 281, 333-340. | 1.1 | 3 |
| 15 | Dirac equation from the extended uncertainty principle. Physica Scripta, 2021, 96, 065311. | 1.2 | 2 |
| 16 | Analytic integrability of certain resonant saddle. Chaos, Solitons and Fractals, 2021, 146, 110821. | 2.5 | 3 |
| 17 | Formal Weierstrass integrability for a LiÃ©nard differential system. Journal of Mathematical Analysis and Applications, 2021, 499, 125016. | 0.5 | 6 |
| 18 | Generalized Dirac Equation for a particle in a gravitational field. General Relativity and Gravitation, 2021, 53, 1. | 0.7 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A New Normal Form for Monodromic Nilpotent Singularities of Planar Vector Fields. Mediterranean Journal of Mathematics, 2021, 18, 1. | 0.4 | 1 |
| 20 | Modeling inertia through the interaction with quantum fluctuations. Results in Physics, 2021, 28, 104543. | 2.0 | 4 |
| 21 | The EPR paradox and the uncertainty principle. Modern Physics Letters B, 2021, 35, 2150072. | 1.0 | 1 |
| 22 | Orbital Reversibility of Planar Vector Fields. Mathematics, 2021, 9, 14. | 1.1 | 6 |
| 23 | Modified Hawking effect from generalized uncertainty principle. Communications in Theoretical Physics, 2021, 73, 015201. | 1.1 | 4 |
| 24 | Nonlinear oscillations in the modified Leslieâ€“Gower model. Nonlinear Analysis: Real World Applications, 2020, 51, 103010. | 0.9 | 8 |
| 25 | Center conditions of a particular polynomial differential system with a nilpotent singularity. Journal of Mathematical Analysis and Applications, 2020, 483, 123639. | 0.5 | 3 |
| 26 | Highest weak focus order for trigonometric LiÃ©nard equations. Annali Di Matematica Pura Ed Applicata, 2020, 199, 1673-1684. | 0.5 | 3 |
| 27 | Integrability Conditions of a Weak Saddle in a Complex Polynomial Differential System. Journal of Dynamical and Control Systems, 2020, , 1. | 0.4 | 0 |
| 28 | Modified inertia from extended uncertainty principle(s) and its relation to MoND. European Physical Journal C, 2020, 80, 1. | 1.4 | 17 |
| 29 | Corpuscular interaction gravity from uncertainty principle. Europhysics Letters, 2020, 130, 60002. | 0.7 | 6 |
| 30 | Integrability conditions of a weak saddle in generalized LiÃ©nard-like complex polynomial differential systems. Journal of Nonlinear Mathematical Physics, 2020, 27, 664-678. | 0.8 | 2 |
| 31 | Quantum fluctuations and the Casimir effect. International Journal of Modern Physics D, 2020, 29, 2050059. | 0.9 | 5 |
| 32 | Small-Amplitude Limit Cycles of Certain Planar Differential Systems. Qualitative Theory of Dynamical Systems, 2020, 19, 1. | 0.8 | 2 |
| 33 | Present value of the Universe's acceleration. Europhysics Letters, 2020, 129, 19001. | 0.7 | 3 |
| 34 | Orbitally universal centers. Nonlinear Analysis: Theory, Methods & Applications, 2020, 195, 111746. | 0.6 | 1 |
| 35 | What justifies the existence of a cosmological horizon?. Astrophysics and Space Science, 2020, 365, 1. | 0.5 | 0 |
| 36 | Formal Weierstrass Nonintegrability Criterion for Some Classes of Polynomial Differential Systems in â„2. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050064. | 0.7 | 7 |

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| 37 | A note on: â€œThe generalized LiÃ©nard polynomial differential systems xâ€²â€¯=â€¯y, yâ€²â€¯=â€¯â^'g(x)â^'f(x)y, with degâ€¯gâ€¯=â€¯degâ€¯fâ€¯+â€¯1, are not Liouvillian integrableâ€•[Bull. Sci. math. 139 (2015) 214â€“227]. Bulletin des Sciences Mathematiques, 2020, 161, 102857. | 0.8 | 3 |
| 38 | Deriving quantised inertia using horizon-widths in the uncertainty principle. Advanced Studies in Theoretical Physics, 2020, 14, 1-8. | 0.1 | 2 |
| 39 | Strongly formal Weierstrass non-integrability for polynomial differential systems in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msup> <mml:mrow class="MJX-TeXAtom-ORD"> <mml:mi mathvariant="double-struck">C</mml:mi> </mml:mrow> <mml:mn>2</mml:mn> </mml:msup> </mml:math>. Electronic Journal of Qualitative Theory of Differential Equations, 2020, , 1-16. | 0.2 | 9 |
| 40 | Analytic integrability around a nilpotent singularity: The non-generic case. Communications on Pure and Applied Analysis, 2020, 19, 407-423. | 0.4 | 5 |
| 41 | On the dynamics of the Rayleighâ€“Duffing oscillator. Nonlinear Analysis: Real World Applications, 2019, 45, 309-319. | 0.9 | 24 |
| 42 | Global Câˆž integrability of quarticâ€“linear polynomial differential systems. Dynamical Systems, 2019, 34, 1-13. | 0.2 | 0 |
| 43 | The Liouvillian Integrability of Several Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950069. | 0.7 | 5 |
| 44 | Analytic integrability around a nilpotent singularity. Journal of Differential Equations, 2019, 267, 443-467. | 1.1 | 13 |
| 45 | Quantum fluctuations and the double-slit experiment. Modern Physics Letters A, 2019, 34, 1950139. | 0.5 | 5 |
| 46 | Blow-up method to compute necessary conditions of integrability for planar differential systems. Applied Mathematics and Computation, 2019, 358, 16-24. | 1.4 | 9 |
| 47 | A counterexample to the composition condition conjecture for polynomial Abel differential equations. Ergodic Theory and Dynamical Systems, 2019, 39, 3347-3352. | 0.4 | 6 |
| 48 | Liouvillian integrability of a general Rayleigh-Duffing oscillator. Journal of Nonlinear Mathematical Physics, 2019, 26, 169. | 0.8 | 18 |
| 49 | Quantum fluctuations and the slow accelerating expansion of the Universe. Europhysics Letters, 2019, 125, 50002. | 0.7 | 11 |
| 50 | Nondegenerate and Nilpotent Centers for a Cubic System of Differential Equations. Qualitative Theory of Dynamical Systems, 2019, 18, 333-345. | 0.8 | 8 |
| 51 | On the critical points of the flight return time function of perturbed closed orbits. Journal of Differential Equations, 2019, 266, 8344-8369. | 1.1 | 1 |
| 52 | Integrability of planar nilpotent differential systems through the existence of an inverse integrating factor. Communications in Nonlinear Science and Numerical Simulation, 2019, 71, 130-140. | 1.7 | 5 |
| 53 | Hawking effect and Unruh effect from the uncertainty principle. Europhysics Letters, 2018, 121, 10001. | 0.7 | 23 |
| 54 | The Cubic Polynomial Differential Systems with two Circles as Algebraic Limit Cycles. Advanced Nonlinear Studies, 2018, 18, 183-193. | 0.7 | 2 |

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| 55 | The generalized polynomial Moonâ€“Rand system. Nonlinear Analysis: Real World Applications, 2018, 39, 411-417. | 0.9 | 4 |
| 56 | Nondegenerate centers and limit cycles of cubic Kolmogorov systems. Nonlinear Dynamics, 2018, 91, 487-496. | 2.7 | 6 |
| 57 | Casimir effect and the uncertainty principle. Modern Physics Letters A, 2018, 33, 1850140. | 0.5 | 14 |
| 58 | Simultaneity of centres in â„ q -equivariant systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170811. | 1.0 | 6 |
| 59 | Integrability Conditions for Complex Homogeneous Kukles Systems. Journal of Nonlinear Mathematical Physics, 2018, 25, 387. | 0.8 | 1 |
| 60 | The center problem for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-s nilpotent vector fields. Journal of Mathematical Analysis and Applications, 2018, 466, 183-198. | 0.5 | 15 |
| 61 | On the Mechanisms for Producing Linear Type Centers in Polynomial Differential Systems. Moscow Mathematical Journal, 2018, 18, 409-420. | 0.2 | 4 |
| 62 | Integrability conditions for complex kukles systems. Dynamical Systems, 2017, 32, 211-220. | 0.2 | 2 |
| 63 | Inertial mass of an elementary particle from the holographic scenario. International Journal of Modern Physics A, 2017, 32, 1750043. | 0.5 | 8 |
| 64 | Integrability conditions of a resonant saddle in generalized LiÃ©nard-like complex polynomial differential systems. Chaos, Solitons and Fractals, 2017, 96, 130-131. | 2.5 | 6 |
| 65 | Integrability of LiÃ©nard systems with a weak saddle. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, 1. | 0.7 | 9 |
| 66 | Center problem for trigonometric LiÃ©nard systems. Journal of Differential Equations, 2017, 263, 3928-3942. | 1.1 | 4 |
| 67 | On the integrability of LiÃ©nard systems with a strong saddle. Applied Mathematics Letters, 2017, 70, 39-45. | 1.5 | 7 |
| 68 | Modified inertial mass from information loss. Modern Physics Letters A, 2017, 32, 1750148. | 0.5 | 2 |
| 69 | Centers for generalized quintic polynomial differential systems. Rocky Mountain Journal of Mathematics, 2017, 47, . | 0.2 | 1 |
| 70 | Nondegenerate centers for Abel polynomial differential equations of second kind. Journal of Computational and Applied Mathematics, 2017, 321, 469-477. | 1.1 | 5 |
| 71 | LiÃ©nard Equation and Its Generalizations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750081. | 0.7 | 13 |
| 72 | Center Conditions for Polynomial LiÃ©nard Systems. Qualitative Theory of Dynamical Systems, 2017, 16, 119-126. | 0.8 | 20 |

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| 73 | Center conditions for generalized polynomial Kukles systems. Communications on Pure and Applied Analysis, 2017, 16, 417-425. | 0.4 | 8 |
| 74 | Centers of weight-homogeneous polynomial vector fields on the plane. Proceedings of the American Mathematical Society, 2016, 145, 2539-2555. | 0.4 | 2 |
| 75 | Center problem in the center manifold for quadratic differential systems in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup></mml:math>. Journal of Symbolic Computation, 2016, 73, 250-267. | 0.5 | 8 |
| 76 | Analytic nilpotent centers as limits of nondegenerate centers revisited. Journal of Mathematical Analysis and Applications, 2016, 441, 893-899. | 0.5 | 21 |
| 77 | The center problem and composition condition for Abel differential equations. , 2016, 34, 210-222. | | 8 |
| 78 | Center conditions for nilpotent cubic systems using the Cherkas method. Mathematics and Computers in Simulation, 2016, 129, 1-9. | 2.4 | 3 |
| 79 | Geometric Criterium in the Center Problem. Mediterranean Journal of Mathematics, 2016, 13, 2593-2611. | 0.4 | 9 |
| 80 | Inertial mass from Unruh temperatures. Modern Physics Letters A, 2016, 31, 1650107. | 0.5 | 13 |
| 81 | Preface: To the Memory of Javier Chavarriga. Qualitative Theory of Dynamical Systems, 2016, 15, 1-2. | 0.8 | 1 |
| 82 | Analytic integrability inside a family of degenerate centers. Nonlinear Analysis: Real World Applications, 2016, 31, 288-307. | 0.9 | 7 |
| 83 | Nilpotent centres via inverse integrating factors. European Journal of Applied Mathematics, 2016, 27, 781-795. | 1.4 | 12 |
| 84 | Analytic Integrability of Some Examples of Degenerate Planar Vector Fields. Acta Applicandae Mathematicae, 2016, 141, 1-15. | 0.5 | 2 |
| 85 | Averaging methods of arbitrary order, periodic solutions and integrability. Journal of Differential Equations, 2016, 260, 4130-4156. | 1.1 | 25 |
| 86 | Integrability conditions of a resonant saddle in LiÃ©nard-like complex systems. Chaos, Solitons and Fractals, 2016, 82, 139-141. | 2.5 | 9 |
| 87 | Integrability of Lotkaâ€“Volterra Planar Complex Cubic Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650002. | 0.7 | 7 |
| 88 | A sufficient condition in order that the real Jacobian conjecture in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math> holds. Journal of Differential Equations, 2016, 260, 5250-5258. | 1.1 | 9 |
| 89 | Integrability of complex planar systems with homogeneous nonlinearities. Journal of Mathematical Analysis and Applications, 2016, 434, 894-914. | 0.5 | 13 |
| 90 | Analytic integrability of cubicâ€“linear planar polynomial differential systems. Journal of Differential Equations, 2016, 260, 1690-1716. | 1.1 | 2 |

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| 91 | Reversible nilpotent centers with cubic homogeneous nonlinearities. Journal of Mathematical Analysis and Applications, 2016, 433, 305-319. | 0.5 | 3 |
| 92 | Analytic reducibility of nondegenerate centers: Cherkas systems. Electronic Journal of Qualitative Theory of Differential Equations, 2016, , 1-10. | 0.2 | 4 |
| 93 | Center problem for systems with two monomial nonlinearities. Communications on Pure and Applied Analysis, 2016, 15, 577-598. | 0.4 | 5 |
| 94 | Integrability conditions of a resonant saddle perturbed with homogeneous quintic nonlinearities. Nonlinear Dynamics, 2015, 81, 2021-2030. | 2.7 | 7 |
| 95 | Centers for the Kukles homogeneous systems with odd degree. Bulletin of the London Mathematical Society, 2015, 47, 315-324. | 0.4 | 17 |
| 96 | Limit cycles bifurcating from planar polynomial quasi-homogeneous centers. Journal of Differential Equations, 2015, 259, 7135-7160. | 1.1 | 6 |
| 97 | Centers and isochronous centers for generalized quintic systems. Journal of Computational and Applied Mathematics, 2015, 279, 173-186. | 1.1 | 4 |
| 98 | Essential perturbations of polynomial vector fields with a period annulus. Communications on Pure and Applied Analysis, 2015, 14, 1073-1095. | 0.4 | 5 |
| 99 | Centers for a class of generalized quintic polynomial differential systems. Applied Mathematics and Computation, 2014, 242, 187-195. | 1.4 | 3 |
| 100 | Singularity analysis in planar vector fields. Journal of Mathematical Physics, 2014, 55, 112703. | 0.5 | 3 |
| 101 | Analytic integrability for some degenerate planar vector fields. Journal of Differential Equations, 2014, 257, 549-565. | 1.1 | 18 |
| 102 | The solution of the 1:â^'3 resonant center problem in the quadratic case. Applied Mathematics and Computation, 2014, 237, 501-511. | 1.4 | 6 |
| 103 | Dulac Functions of Planar Vector Fields. Qualitative Theory of Dynamical Systems, 2014, 13, 121-128. | 0.8 | 3 |
| 104 | The center problem for a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>1</mml:mn><mml:mo>:</mml:mo><mml:mo>â^'</mml:mo><mml:mn>4</mml:mn></mml:math>resonant quadratic system. Journal of Mathematical Analysis and Applications, 2014, 420, 1568-1591. | 0.5 | 9 |
| 105 | A method for characterizing nilpotent centers. Journal of Mathematical Analysis and Applications, 2014, 413, 537-545. | 0.5 | 17 |
| 106 | Periodic solutions for nonlinear differential systems: the second order bifurcation function. Topological Methods in Nonlinear Analysis, 2014, 43, 403. | 0.2 | 5 |
| 107 | Universal centers in the cubic trigonometric Abel equation. Electronic Journal of Qualitative Theory of Differential Equations, 2014, , 1-7. | 0.2 | 7 |
| 108 | The stable limit cycles: A synchronization phenomenon. Journal of the Franklin Institute, 2013, 350, 1649-1657. | 1.9 | 0 |

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| 109 | Universal centres and composition conditions. Proceedings of the London Mathematical Society, 2013, 106, 481-507. | 0.6 | 28 |
| 110 | Cosmological Consequences of the Holographic Scenario. International Journal of Theoretical Physics, 2013, 52, 53-61. | 0.5 | 1 |
| 111 | The center problem for a <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/ | 1.4 | 10 |
| 112 | Integrability Conditions for Lotka-Volterra Planar Complex Quartic Systems Having Homogeneous Nonlinearities. Acta Applicandae Mathematicae, 2013, 124, 107-122. | 0.5 | 21 |
| 113 | Averaging theory at any order for computing periodic orbits. Physica D: Nonlinear Phenomena, 2013, 250, 58-65. | 1.3 | 38 |
| 114 | On the first integrals in the center problem. Bulletin Des Sciences Mathematiques, 2013, 137, 457-465. | 0.5 | 6 |
| 115 | A note on Liouvillian first integrals and invariant algebraic curves. Applied Mathematics Letters, 2013, 26, 285-289. | 1.5 | 6 |
| 116 | Polynomial and rational first integrals for planar quasi–homogeneous polynomial differential systems. Discrete and Continuous Dynamical Systems, 2013, 33, 4531-4547. | 0.5 | 14 |
| 117 | On the Formal Integrability Problem for Planar Differential Systems. Abstract and Applied Analysis, 2013, 2013, 1-10. | 0.3 | 6 |
| 118 | On the extensions of the Darboux theory of integrability. Nonlinearity, 2013, 26, 2221-2229. | 0.6 | 12 |
| 119 | On the determination of the limit cycles using the harmonic balance method. Journal of Mathematical Physics, 2013, 54, 103510. | 0.5 | 2 |
| 120 | Analytic integrability for some degenerate planar systems. Communications on Pure and Applied Analysis, 2013, 12, 2797-2809. | 0.4 | 9 |
| 121 | A note on the Liouvillian integrability and the qualitative properties of the mass rate equation for black holes. Journal of Mathematical Physics, 2012, 53, . | 0.5 | 1 |
| 122 | ON THE CENTER CONDITIONS FOR ANALYTIC MONODROMIC DEGENERATE SINGULARITIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250303. | 0.7 | 9 |
| 123 | THE HOLOGRAPHIC SCENARIO, THE MODIFIED INERTIA AND THE DYNAMICS OF THE UNIVERSE. Modern Physics Letters A, 2012, 27, 1250208. | 0.5 | 10 |
| 124 | On the Multiplicity of Algebraic Limit Cycles. Journal of Dynamics and Differential Equations, 2012, 24, 539-560. | 1.0 | 1 |
| 125 | The phenomenological version of modified Newtonian dynamics from the relativity principle of motion. Physica Scripta, 2012, 85, 025011. | 1.2 | 3 |
| 126 | The 1: â”q resonant center problem for certain cubic Lotkaâ€“Volterra systems. Applied Mathematics and Computation, 2012, 218, 11620-11633. | 1.4 | 22 |

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| 127 | Reduction of integrable planar polynomial differential systems. Applied Mathematics Letters, 2012, 25, 1862-1865. | 1.5 | 12 |
| 128 | On Liouvillian integrability of the firstâ€“order polynomial ordinary differential equations. Journal of Mathematical Analysis and Applications, 2012, 395, 802-805. | 0.5 | 2 |
| 129 | Towards a quantum universe. Astrophysics and Space Science, 2012, 339, 25-30. | 0.5 | 6 |
| 130 | Limit cycle bifurcations from a non-degenerate center. Applied Mathematics and Computation, 2012, 218, 4703-4709. | 1.4 | 10 |
| 131 | Higher order limit cycle bifurcations from non-degenerate centers. Applied Mathematics and Computation, 2012, 218, 8853-8860. | 1.4 | 17 |
| 132 | A second order analysis of the periodic solutions for nonlinear periodic differential systems with a small parameter. Physica D: Nonlinear Phenomena, 2012, 241, 528-533. | 1.3 | 22 |
| 133 | Existence of inverse integrating factors and Lie symmetries for degenerate planar centers. Journal of Differential Equations, 2012, 252, 344-357. | 1.1 | 18 |
| 134 | A note on Liouvillian integrability. Journal of Mathematical Analysis and Applications, 2012, 387, 1044-1049. | 0.5 | 8 |
| 135 | The Pioneer anomaly and the holographic scenario. Astrophysics and Space Science, 2012, 337, 483-486. | 0.5 | 5 |
| 136 | The Resonant Center Problem for a 2:-3 Resonant Cubic Lotkaâ€“Volterra System. Lecture Notes in Computer Science, 2012, , 129-142. | 1.0 | 3 |
| 137 | Essential variables in the integrability problem of planar vector fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 291-297. | 0.9 | 15 |
| 138 | On the Origin of the Inertial Force and Gravitation. International Journal of Theoretical Physics, 2011, 50, 607-617. | 0.5 | 10 |
| 139 | On the planar integrable differential systems. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 567-574. | 0.7 | 12 |
| 140 | The reversibility and the center problem. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 695-704. | 0.6 | 29 |
| 141 | Linearizability conditions for Lotkaâ€“Volterra planar complex quartic systems having homogeneous nonlinearities. Computers and Mathematics With Applications, 2011, 61, 1190-1201. | 1.4 | 19 |
| 142 | On the polynomial limit cycles of polynomial differential equations. Israel Journal of Mathematics, 2011, 181, 461-475. | 0.4 | 16 |
| 143 | Weierstrass integrability in LiÃ©nard differential systems. Journal of Mathematical Analysis and Applications, 2011, 377, 362-369. | 0.5 | 23 |
| 144 | ON THE DEGENERATE CENTER PROBLEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 1383-1392. | 0.7 | 22 |

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| 145 | Bifurcation of Limit Cycles from a Polynomial Degenerate Center. Advanced Nonlinear Studies, 2010, 10, 597-609. | 0.7 | 12 |
| 146 | On the integrable rational Abel differential equations. Zeitschrift Fur Angewandte Mathematik Und Physik, 2010, 61, 33-39. | 0.7 | 16 |
| 147 | Cyclicity versus Center Problem. Qualitative Theory of Dynamical Systems, 2010, 9, 101-113. | 0.8 | 14 |
| 148 | To the Memory of Javier Chavarriga. Qualitative Theory of Dynamical Systems, 2010, 9, 5-8. | 0.8 | 0 |
| 149 | Abel differential equations admitting a certain first integral. Journal of Mathematical Analysis and Applications, 2010, 370, 187-199. | 0.5 | 17 |
| 150 | Analytic nilpotent centers with analytic first integral. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 3732-3738. | 0.6 | 8 |
| 151 | Integrability conditions for Lotkaâ€“Volterra planar complex quintic systems. Nonlinear Analysis: Real World Applications, 2010, 11, 2100-2105. | 0.9 | 36 |
| 152 | Periodic solutions of second-order differential equations with two-dimensional Lie point symmetry algebra. Nonlinear Analysis: Real World Applications, 2010, 11, 4128-4140. | 0.9 | 2 |
| 153 | Weierstrass integrability of differential equations. Applied Mathematics Letters, 2010, 23, 523-526. | 1.5 | 28 |
| 154 | Einstein versus Lorentz and PoincarÃ©: Open questions of credit.. Physics Essays, 2010, 23, 92-96. | 0.1 | 2 |
| 155 | THE NONDEGENERATE CENTER PROBLEM IN CERTAIN FAMILIES OF PLANAR DIFFERENTIAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 435-443. | 0.7 | 4 |
| 156 | Orbital Linearization in the Quadratic Lotkaâ€“Volterra Systems Around Singular Points Via Lie Symmetries. Journal of Nonlinear Mathematical Physics, 2009, 16, 455. | 0.8 | 2 |
| 157 | Linearizability conditions for Lotkaâ€“Volterra planar complex cubic systems. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 225206. | 0.7 | 26 |
| 158 | The center problem via averaging method. Journal of Mathematical Analysis and Applications, 2009, 351, 334-339. | 0.5 | 12 |
| 159 | Minimum number of ideal generators for a linear center perturbed by homogeneous polynomials. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e132-e137. | 0.6 | 9 |
| 160 | On the cyclicity of weight-homogeneous centers. Journal of Differential Equations, 2009, 246, 3126-3135. | 1.1 | 15 |
| 161 | On the origin of the inertia: The modified Newtonian dynamics theory. Chaos, Solitons and Fractals, 2009, 41, 1651-1660. | 2.5 | 11 |
| 162 | Is gravitational quantization another consequence of General Relativity?. Chaos, Solitons and Fractals, 2009, 42, 1893-1899. | 2.5 | 3 |

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| 163 | Lie symmetries for the orbital linearization of smooth planar vector fields around singular points. Journal of Mathematical Analysis and Applications, 2008, 345, 63-69. | 0.5 | 2 |
| 164 | On the origin of the anomalous precession of Mercuryâ€™s perihelion. Chaos, Solitons and Fractals, 2008, 38, 1004-1010. | 2.5 | 12 |
| 165 | On the origin of the deflection of light. Chaos, Solitons and Fractals, 2008, 35, 1-6. | 2.5 | 10 |
| 166 | Integrability of magnetic fields created by current distributions. Nonlinearity, 2008, 21, 51-69. | 0.6 | 9 |
| 167 | Linearizable planar differential systems via the inverse integrating factor. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 135205. | 0.7 | 4 |
| 168 | Linearization of smooth planar vector fields around singular points via commuting flows. Communications on Pure and Applied Analysis, 2008, 7, 1415-1428. | 0.4 | 2 |
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