

Lubomir Gavrilov

List of Publications by Year in descending order

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33
papers

585
citations

623734

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610901

24
g-index

33
all docs

33
docs citations

33
times ranked

135
citing authors

#	ARTICLE	IF	CITATIONS
1	The infinitesimal 16th Hilbert problem in the quadratic case. <i>Inventiones Mathematicae</i> , 2001, 143, 449-497.	2.5	105
2	Petrov modules and zeros of Abelian integrals. <i>Bulletin Des Sciences Mathematiques</i> , 1998, 122, 571-584.	1.0	72
3	Higher order Poincaré-Pontryagin functions and iterated path integrals. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 2005, 14, 663-682.	0.3	41
4	Isochronicity of plane polynomial Hamiltonian systems. <i>Nonlinearity</i> , 1997, 10, 433-448.	1.4	37
5	The displacement map associated to polynomial unfoldings of planar Hamiltonian vector fields. <i>American Journal of Mathematics</i> , 2005, 127, 1153-1190.	1.1	35
6	Quadratic perturbations of quadratic codimension-four centers. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 357, 69-76.	1.0	35
7	Abelian integrals related to Morse polynomials and perturbations of plane hamiltonian vector fields. <i>Annales De L'Institut Fourier</i> , 1999, 49, 611-652.	0.6	29
8	Complete hyperelliptic integrals of the first kind and their non-oscillation. <i>Transactions of the American Mathematical Society</i> , 2003, 356, 1185-1207.	0.9	25
9	Second-order analysis in polynomially perturbed reversible quadratic Hamiltonian systems. <i>Ergodic Theory and Dynamical Systems</i> , 2000, 20, 1671-1686.	0.6	21
10	Generalized Jacobians of spectral curves and completely integrable systems. <i>Mathematische Zeitschrift</i> , 1999, 230, 487-508.	0.9	18
11	Two-dimensional Fuchsian systems and the Chebyshev property. <i>Journal of Differential Equations</i> , 2003, 191, 105-120.	2.2	17
12	Nonoscillation of Elliptic Integrals Related to Cubic Polynomials with Symmetry of Order Three. <i>Bulletin of the London Mathematical Society</i> , 1998, 30, 267-273.	0.8	15
13	Cyclicity of period annuli and principalization of Bautin ideals. <i>Ergodic Theory and Dynamical Systems</i> , 2008, 28, 1497-1507.	0.6	15
14	On the cyclicity of weight-homogeneous centers. <i>Journal of Differential Equations</i> , 2009, 246, 3126-3135.	2.2	15
15	Cubic perturbations of elliptic Hamiltonian vector fields of degree three. <i>Journal of Differential Equations</i> , 2016, 260, 3963-3990.	2.2	14
16	On the number of limit cycles which appear by perturbation of Hamiltonian two-saddle cycles of planar vector fields. <i>Bulletin of the Brazilian Mathematical Society</i> , 2011, 42, 1-23.	0.8	13
17	The infinitesimal 16th Hilbert problem in dimension zero. <i>Bulletin Des Sciences Mathematiques</i> , 2007, 131, 242-257.	1.0	11
18	Bifurcations of Limit Cycles From Infinity in Quadratic Systems. <i>Canadian Journal of Mathematics</i> , 2002, 54, 1038-1064.	0.6	9

#	ARTICLE	IF	CITATIONS
19	Title is missing!. International Mathematics Research Notices, 2005, 2005, 3727.	1.0	9
20	Perturbations of quadratic Hamiltonian two-saddle cycles. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 307-324.	1.4	9
21	Hilbert's 16th problem on a period annulus and Nash space of arcs. Mathematical Proceedings of the Cambridge Philosophical Society, 2020, 169, 377-409.	0.4	9
22	The Real Period Function of A3 Singularity and Perturbations of the Spherical Pendulum. Compositio Mathematica, 2000, 123, 167-184.	0.8	8
23	On the finite cyclicity of open period annuli. Duke Mathematical Journal, 2010, 152, .	1.5	5
24	On the number of limit cycles which appear by perturbation of two-saddle cycles of planar vector fields. Functional Analysis and Its Applications, 2013, 47, 174-186.	0.4	5
25	On the reduction of the degree of linear differential operators. Nonlinearity, 2011, 24, 373-388.	1.4	3
26	Moments on Riemann surfaces and hyperelliptic Abelian integrals. Commentarii Mathematici Helvetici, 2014, 89, 125-155.	0.7	3
27	Perturbations of symmetric elliptic Hamiltonians of degree four in a complex domain. Journal of Mathematical Analysis and Applications, 2015, 424, 774-784.	1.0	2
28	Perturbation theory of the quadratic Lotka-Volterra double center. Communications in Contemporary Mathematics, 0, , .	1.2	2
29	On the non-persistence of Hamiltonian identity cycles. Journal of Differential Equations, 2009, 246, 2706-2723.	2.2	1
30	Cubic perturbations of symmetric elliptic Hamiltonians of degree four in a complex domain. Bulletin Des Sciences Mathematiques, 2019, 157, 102796.	1.0	1
31	Special Cubic Perturbations of the Duffing Oscillator $x'' = -x - x^3$ Near the Eight-Loop. Mediterranean Journal of Mathematics, 2021, 18, 1.	0.8	1
32	Irreducibility of the Picard-Fuchs Equation Related to the Lotka-Volterra Polynomial $x^2 y^2 (1 - \hat{a}'' x - \hat{a}'' y)$. Journal of Dynamical and Control Systems, 2018, 24, 425-438.	0.8	0
33	Centers of reversible cubic perturbations of the symmetric 8-loop Hamiltonian. Archiv Der Mathematik, 2020, 115, 567-574.	0.5	0