

Nicolae Vulpe

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Planar quadratic vector fields with invariant lines of total multiplicity at least five. <i>Qualitative Theory of Dynamical Systems</i> , 2004, 5, 135-194.	1.7	45
2	Geometry of quadratic differential systems in the neighborhood of infinity. <i>Journal of Differential Equations</i> , 2005, 215, 357-400.	2.2	35
3	The Full Study of Planar Quadratic Differential Systems Possessing a Line of Singularities at Infinity. <i>Journal of Dynamics and Differential Equations</i> , 2008, 20, 737-775.	1.9	32
4	Integrals and Phase Portraits of Planar Quadratic Differential Systems With Invariant Lines of at Least Five Total Multiplicity. <i>Rocky Mountain Journal of Mathematics</i> , 2008, 38, .	0.4	28
5	Planar quadratic differential systems with invariant straight lines of total multiplicity four. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2008, 68, 681-715.	1.1	26
6	Global classification of the planar Lotka-Volterra differential systems according to their configurations of invariant straight lines. <i>Journal of Fixed Point Theory and Applications</i> , 2010, 8, 177-245.	1.1	25
7	SINGULAR POINTS OF QUADRATIC SYSTEMS: A COMPLETE CLASSIFICATION IN THE COEFFICIENT SPACE \mathbb{R}^{12} . <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 313-362.	1.7	24
8	Characterization of the finite weak singularities of quadratic systems via invariant theory. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 6553-6582.	1.1	17
9	Quadratic systems with a polynomial first integral: A complete classification in the coefficient space \mathbb{R}^{12} . <i>Journal of Differential Equations</i> , 2009, 246, 3535-3558.	2.2	14
10	Topological Classification of Quadratic Systems at Infinity. <i>Journal of the London Mathematical Society</i> , 1997, 55, 473-488.	1.0	13
11	Planar Cubic Polynomial Differential Systems with the Maximum Number of Invariant Straight Lines. <i>Rocky Mountain Journal of Mathematics</i> , 2006, 36, 1301.	0.4	13
12	Quadratic systems with an integrable saddle: A complete classification in the coefficient space. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2012, 75, 5416-5447.	1.1	9
13	Global Topological Configurations of Singularities for the Whole Family of Quadratic Differential Systems. <i>Qualitative Theory of Dynamical Systems</i> , 2020, 19, 1.	1.7	9
14	Quadratic systems with a rational first integral of degree 2: A complete classification in the coefficient space \mathbb{R}^{12} . <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2007, 56, 417-444.	1.3	8
15	Cubic Systems with Invariant Straight Lines of Total Multiplicity Eight and with Three Distinct Infinite Singularities. <i>Qualitative Theory of Dynamical Systems</i> , 2015, 14, 109-137.	1.7	7
16	Cubic differential systems with invariant straight lines of total multiplicity eight and four distinct infinite singularities. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 423, 1025-1080.	1.0	7
17	Phase portraits and invariant straight lines of cubic polynomial vector fields having a quadratic rational first integral. <i>Rocky Mountain Journal of Mathematics</i> , 2011, 41, .	0.4	6
18	Cubic Differential Systems with Invariant Straight Lines of Total Multiplicity Eight possessing One Infinite Singularity. <i>Qualitative Theory of Dynamical Systems</i> , 2017, 16, 1-30.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Geometric configurations of singularities for quadratic differential systems with three distinct real simple finite singularities. <i>Journal of Fixed Point Theory and Applications</i> , 2013, 14, 555-618.	1.1	5
20	Classification of cubic differential systems with invariant straight lines of total multiplicity eight and two distinct infinite singularities. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2015, , 1-38.	0.5	5
21	Quadratic systems with a rational first integral of degree three: a complete classification in the coefficient space $\hat{\mathbb{R}}^2$. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2010, 59, 419-449.	1.3	4
22	Global Configurations of Singularities for Quadratic Differential Systems with Total Finite Multiplicity Three and at Most Two Real Singularities. <i>Qualitative Theory of Dynamical Systems</i> , 2014, 13, 305-351.	1.7	4
23	First Integrals and Phase Portraits of Planar Polynomial Differential Cubic Systems with the Maximum Number of Invariant Straight Lines. <i>Qualitative Theory of Dynamical Systems</i> , 2016, 15, 327-348.	1.7	4
24	Global configurations of singularities for quadratic differential systems with exactly three finite singularities of total multiplicity four. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2015, , 1-60.	0.5	3
25	Bifurcation Diagrams and Moduli Spaces of Planar Quadratic Vector Fields with Invariant Lines of Total Multiplicity Four and Having Exactly Three Real Singularities at Infinity. <i>Qualitative Theory of Dynamical Systems</i> , 2010, 9, 251-300.	1.7	2
26	Bifurcation Diagrams and Quotient Topological Spaces Under the Action of the Affine Group of a Family of Planar Quadratic Vector Fields. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015, 25, 1550150.	1.7	1
27	Invariant conditions for phase portraits of quadratic systems with complex conjugate invariant lines meeting at a finite point. <i>Rendiconti Del Circolo Matematico Di Palermo</i> , 2020, 70, 923.	1.3	1
28	Global configurations of singularities for quadratic differential systems with exactly two finite singularities of total multiplicity four. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2014, , 1-43.	0.5	1
29	First integrals and phase portraits of planar polynomial differential cubic systems with invariant straight lines of total multiplicity eight. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2017, , 1-35.	0.5	1
30	Invariants and symbolic calculations in the theory of quadratic differential systems. <i>ACM Communications in Computer Algebra</i> , 2011, 44, 144-146.	0.4	0
31	Characterization and bifurcation diagram of the family of quadratic differential systems with an invariant ellipse in terms of invariant polynomials. <i>Revista Matematica Complutense</i> , 0, , 1.	1.2	0
32	Applications of Symbolic Calculations and Polynomial Invariants to the Classification of Singularities of Differential Systems. <i>Lecture Notes in Computer Science</i> , 2013, , 340-354.	1.3	0