

# Nicolae Vulpe

## List of Publications by Year in descending order

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32  
papers

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citations

840776

11  
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32  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Quadratic systems with an integrable saddle: A complete classification in the coefficient space. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2012, 75, 5416-5447.	1.1	9
16	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
17	Characterization of the finite weak singularities of quadratic systems via invariant theory. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2011, 74, 6553-6582.	1.1	17
18	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

#	ARTICLE	IF	CITATIONS
19	Quadratic systems with a rational first integral of degree three: a complete classification in the coefficient space $\mathbb{R}^{12}$ . Rendiconti Del Circolo Matematico Di Palermo, 2010, 59, 419-449.	1.3	4
20	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. Qualitative Theory of Dynamical Systems, 2010, 9, 251-300.	1.7	2
21	Global classification of the planar Lotka-Volterra differential systems according to their configurations of invariant straight lines. Journal of Fixed Point Theory and Applications, 2010, 8, 177-245.	1.1	25
22	Quadratic systems with a polynomial first integral: A complete classification in the coefficient space $\mathbb{R}^{12}$ . Journal of Differential Equations, 2009, 246, 3535-3558.	2.2	14
23	The Full Study of Planar Quadratic Differential Systems Possessing a Line of Singularities at Infinity. Journal of Dynamics and Differential Equations, 2008, 20, 737-775.	1.9	32
24	Planar quadratic differential systems with invariant straight lines of total multiplicity four. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 681-715.	1.1	26
25	SINGULAR POINTS OF QUADRATIC SYSTEMS: A COMPLETE CLASSIFICATION IN THE COEFFICIENT SPACE $\mathbb{R}^{12}$ . International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 313-362.	1.7	24
26	Integrals and Phase Portraits of Planar Quadratic Differential Systems With Invariant Lines of at Least Five Total Multiplicity. Rocky Mountain Journal of Mathematics, 2008, 38, .	0.4	28
27	Quadratic systems with a rational first integral of degree 2: A complete classification in the coefficient space $\mathbb{R}^{12}$ . Rendiconti Del Circolo Matematico Di Palermo, 2007, 56, 417-444.	1.3	8
28	Planar Cubic Polynomial Differential Systems with the Maximum Number of Invariant Straight Lines. Rocky Mountain Journal of Mathematics, 2006, 36, 1301.	0.4	13
29	Geometry of quadratic differential systems in the neighborhood of infinity. Journal of Differential Equations, 2005, 215, 357-400.	2.2	35
30	Planar quadratic vector fields with invariant lines of total multiplicity at least five. Qualitative Theory of Dynamical Systems, 2004, 5, 135-194.	1.7	45
31	Topological Classification of Quadratic Systems at Infinity. Journal of the London Mathematical Society, 1997, 55, 473-488.	1.0	13
32	Characterization and bifurcation diagram of the family of quadratic differential systems with an invariant ellipse in terms of invariant polynomials. Revista Matematica Complutense, 0, , 1.	1.2	0